Level I Contamination Screening Evaluation Report NORTHEAST CONNECTOR EXPRESSWAY PHASE 1 PROJECT DEVELOPMENT AND ENVIRONMENT (PD&E) STUDY Cyrils Drive to Nova Road

Osceola County, Florida CFX Project No. 599-228 GEC Project No. 4647E

Prepared for:

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February 2021 Revised March 2021 Revised April 2021 February 12, 2021 Revised March 31, 2021 Revised April 23, 2021

RS&H, Inc. 301 East Pine Street, Suite 350 Orlando, Florida 32801

Attention:

Mr. Daniel Kristoff, P.E.

Senior Transportation Engineer

Subject:

Level I Contamination Screening Evaluation Report

NORTHEAST CONNECTOR EXPRESSWAY PHASE 1

PROJECT DEVELOPMENT AND ENVIRONMENT (PD&E) STUDY

Cyrils Drive to Nova Road Osceola County, Florida CFX Project No. 599-228 GEC Project No. 4647E

Dear Mr. Kristoff:

Geotechnical and Environmental Consultants, Inc. (GEC) is pleased to present this Level I Contamination Screening Evaluation Report (CSER) for the above-referenced project. This report describes our evaluation procedures, presents the information we obtained and assigns Contamination Risk Potential Ratings to two sites.

We appreciate the opportunity to work with RS&H, Inc. and Central Florida Expressway Authority on this project. If you have any questions concerning this report, or if we may be of further assistance, please contact us.

Sincerely,

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC.

Alexis E. Perry, E.I.

Engineer Intern

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President

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EXECUTIVE SUMMARY

This Level I Contamination Screening Evaluation Report (CSER) for the Central Florida Expressway Northeast Connector Expressway Phase I Project Development and Environment (PD&E) Study was performed as part of the Central Florida Expressway Authority (CFX) Contract No. 001546 and Project 599-228.

The purpose of this evaluation was to assess the risk of encountering petroleum or hazardous substance contamination of soil, groundwater, surface water, or sediment that could adversely affect this project. The CSER activities included a review of public regulatory files and historical data sources, and a site reconnaissance of the project study area.

As a result of this evaluation, we have assigned a Contamination Risk Rating to two sites.

As a result of this evaluation, we have assigned a Contamination Risk Rating to two sites. The site locations are shown on **Figure 4**. The contamination status and a detailed description and photographs of the sites are presented in **Table 1**.

Using the Florida Department of Transportation (FDOT) Risk Ratings presented in **Appendix C**, we have identified **one Medium Risk** site and **one High Risk** site as shown below. Level II Impact to Construction Assessments are recommended for these sites.

Medium and High Risk Sites Table

Site Number	Site Name	Site Address	Risk Potential
1	Fish Camp/Cattle Pen/Barn	6899 Nova Road	Medium
2	Cattle Dipping Vat	6899 Nova Road	High

1.0 INTRODUCTION

1.1 Contract Information

This Level I Contamination Screening Evaluation Report (CSER) for the Central Florida Expressway Northeast Connector Expressway Phase I Project Development and Environment (PD&E) Study was performed as part of the Central Florida Expressway Authority (CFX) Contract No. 001546 and Project 599-228.

1.2 Purpose

The purpose of this evaluation is the early identification of potential contamination sites that could impact this project... The presence of contaminated environmental media (soil, groundwater, surface water, and sediment) can have a significant negative impact on the cost and schedule to complete a roadway construction project. The purpose of this evaluation is the early identification

of potential contamination sites that could impact this project and to provide valuable input for the design, right-of-way acquisition, and construction phases.

2.0 PROJECT DESCRIPTION

The following sections describe the current study area conditions, the project construction plans and elements of the project that could be impacted by soil or groundwater contamination. Common terms used in this report can be found in **Appendix B**.

2.1 Site Description

A new expressway connection is proposed between Cyrils Drive and Nova Road (CR 532) in Osceola County, a distance of approximately 4.3 miles. The adjacent properties include vacant land, Lake Myrtle, Bullock Lake, Lake Joel and areas under construction. The project corridor is shown on excerpts of the U.S. Geological Survey (USGS) Narcoossee Florida Quadrangle map as **Figure 1**.

2.2 Current Land Use

The current land uses within the study area are shown on **Figure 2** and are summarized as follows:

- Improved Pastures
- Unimproved Pastures
- Woodland Pastures
- Streams and Waterways
- Lakes
- Reservoirs

- Mixed Shrubs
- Cypress
- Freshwater Marshes
- Wet Prairies
- Emergent Aquatic Vegetation
- Wetland Forested Mix

None of the identified land uses is reflective of potential contamination concerns.

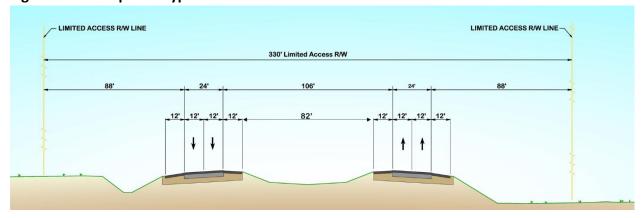
2.3 Project Description

A PD&E study is being performed to provide documentation necessary for CFX to reach a decision on the type, design, and location of the proposed expressway extension.

Alternatives Description

One typical section is considered for the length of the project. The proposed typical section features two 12-foot travel lanes in each direction flanked by 12-foot paved inside and outside shoulders. The proposed median width is 82 feet wide, which can accommodate future widening. The ultimate typical section features an eight-lane section and two potential multiuse lanes with a concrete median barrier wall. The proposed typical section requires 330 feet of limited access right-of-way, which includes a border width of 88 feet on both sides of Northeast Connector Expressway as shown on **Figure 2.3.1.**

Figure 2.3.1: Proposed Typical Section



There are four different alternatives as shown on **Figures 1 through 4**. The alternatives for the project are split into two geographic areas:

- Jack Brack Road: Cyrils Drive to south of Jack Brack Road
- Nova Road Connection: south of Jack Brack Road to Nova Road

Jack Brack Road Alternatives

The Cyrils Drive to south of Jack Brack Road segment features one mainline alignment with two interchange alternatives at Jack Brack Road. The two interchange alignments are identified as follows:

- Partial Cloverleaf Interchange; and
- Diamond Interchange.

The mainline alignment extends south from the proposed SR 534 preferred alternative. The alignment is located between the Del Webb community to the west and the planned Sunbridge neighborhoods to the east. Continuing further south, the alignment stays just east of the Tavistock utility site, currently under construction. The mainline alignment then squeezes between Lake Myrtle and Bullock Lake, staying close to the east side of Bullock Lake.

Partial Cloverleaf Interchange

The Partial Cloverleaf Interchange is located at the proposed extension of Jack Brack Road. The Partial Cloverleaf Interchange is located on the northern side of Jack Brack Road in order to avoid impacts to Bullock Lake and the associated wetlands. The southbound lanes will have an exit ramp and entrance loop ramp on the west side of the expressway while the northbound lanes will have an entrance ramp and exit loop ramp on the east side. Easy access to and from the expressway will be present for eastbound and westbound traffic on Jack Brack Road.

Diamond Interchange

The Diamond Interchange has exit ramps in the southeast and northwest quadrants of the interchange that will allow for traffic exiting the expressway to continue east or west along Jack Brack Road. There are also entrance ramps in the northeast and southwest corners of the interchange that will allow for traffic traveling in the eastbound or westbound direction to enter the expressway in either direction.

Nova Road Connection Alternatives

The south of Jack Brack Road to Nova Road segment features two mainline alignments with connections to Nova Road in different locations. The two alternatives in this segment are identified as follows:

- Nova Road Connection Option 1; and
- Nova Road Connection Option 2.

Nova Road Connection - Option 1

South of the proposed Jack Brack extension, the mainline alignment diverges between the two alternatives. Nova Road Connection – Option 1 continues on a southeasterly tangent, crosses the C-32C canal, and continues on that tangent until it terminates at Nova Road. Just north of Nova Road, the alignment bends to provide a 90-degree T-intersection at Nova Road. At this time, the expressway would end at Nova Road, but a future easterly extension of the expressway is possible if the Osceola/Brevard County Connectors project moves forward at this location.

Nova Road Connection - Option 2

Nova Road Connection – Option 2 is similar to Option 1; however, the alignment differs slightly. Option 2 introduces a reverse curve in the alignment to shift the alignment closer to Lake Joel. The crossing of the C-32C canal is less skewed than in Option 1. This reverse curve also shifts the T-intersection at Nova Road further to the east. Similar to Option 1, the alignment terminates at Nova Road with a 90-degree T-intersection. At this time, the expressway would end at Nova Road, but a future easterly extension of the expressway is possible if the Osceola/Brevard County Connectors project moves forward at this location.

2.4 Potential Contamination Impacts

The project elements that could be impacted by soil and/or groundwater contamination include the following:

- Right-of-way acquisition
- Soil excavation for stormwater pond construction
- Soil excavation for roadway construction
- Excavation dewatering

3.0 CONTAMINATION SCREENING METHODOLOGY

GEC conducted this evaluation in general accordance with Part 2, Chapter 20 of the FDOT PD&E Manual dated July 1, 2020. The study area is defined by the following distances from the right-of-way:

- All sites within 500 feet
- Non-landfill solid waste sites within 1,000 feet
- Solid waste landfills, CERCLA, or National Priorities List (NPL) sites within ½ mile

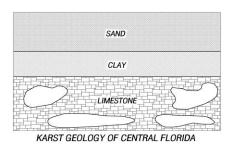
GEC reviewed relevant information from the Florida Department of Environmental Protection (FDEP), United States Environmental Protection Agency (USEPA), and local agencies in Osceola County to identify known or potential contamination sites within the study area. Historical aerial photographs and other published historical sources were reviewed as part of this CSER. GEC performed a site reconnaissance of the properties within the study area and interviewed individuals with knowledge of the study area's environmental status.

Based on the results of the contamination screening activities, GEC assigned Contamination Risk Ratings (CRRs) to sites. The risk rating system was developed by FDOT and incorporates four levels of risk: **No, Low, Medium, and High**. For a description of the four risk levels please refer to **Appendix C.**

Environmental Data Resources, Inc. (EDR) identified a construction dewatering permit (Sungrove Utility - a water treatment plant that is under construction) that falls adjacent to the project limits. The dewatering permit and future water treatment plant is not considered a CRR site.

4.0 GEOLOGIC AND GEOGRAPHIC CONDITIONS

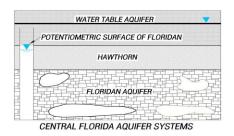
4.1 Central Florida Geology



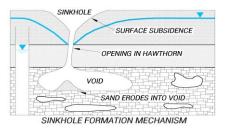
Due to its prevalent geology, referred to as karst, Central Florida is prone to the formation of sinkholes, or large, circular depressions created by local subsidence of the ground surface. The nature and relationship of the three sedimentary layers typical of Central Florida geology cause sinkholes. The deepest, or basement, layer is a massive cavernous limestone formation known as the Floridan

aquifer. The Floridan aquifer limestone is overlain by a silty or clayey sand, clay, phosphate, and limestone aquitard (or flow-retarding layer) ranging in thickness from nearly absent to

greater than 100 feet and locally referred to as the Hawthorn Group (Hawthorn). The Hawthorn is in turn overlain by a 40 to 70-foot thick surficial layer of sand, bearing the water table aquifer. The likelihood of sinkhole occurrence at a given site within the region is determined by the relationship among these three layers, specifically by the water (and soil)-transmitting capacity of the Hawthorn at that location.



The water table aquifer is comprised of Recent and Pleistocene sands and is separated from the Eocene limestone of the Floridan aquifer by the Miocene sands, clays and limestone of the Hawthorn. Since the thickness and consistency of the Hawthorn is variable across Central Florida, the likelihood of groundwater flow from the upper to the lower aquifer (known as aquifer recharge) will also vary by geographical location.



In areas where the Hawthorn is absent, water table groundwater (and associated sands) can flow downward to cavities within the limestone aquifer, like sand through an hourglass, recharging the Floridan aquifer, and sometimes causing the formation of surface sinkholes. This process of subsurface erosion associated with recharging the Floridan

aquifer is known as raveling. Thus, in Central Florida, areas of effective groundwater recharge to the Floridan aquifer have a higher potential for the formation of surface sinkholes.

Based on the U.S. Geological Survey Map entitled "Recharge and Discharge Areas of the Floridan Aquifer in the St. Johns River Water Management District and Vicinity, Florida," 1984, the study area lies in a generally low to moderate recharge area; therefore, we can conclude based solely on this data that it also lies in an area where the relative risk of sinkhole formation is generally low compared to the overall risk across Central Florida.

4.2 USGS Quadrangle Map

The study area has been transposed onto the USGS Narcoossee, Florida Quadrangle map for this area, as shown on **Figure 1**. According to the quadrangle map, the natural ground surface elevation in the vicinity of the study area is between +60 feet and +70 feet National Geodetic Vertical Datum (NGVD), 1929.

- Three buildings are shown on the west side of Lake Myrtle.
- Two borrow pits are visible along the southern portion of the study area.
- An excavated canal extends across the study area at Lake Joel.
- Several dirt roads or paths are shown within the study area.

No additional conditions are depicted that would represent potential contamination concerns on, or in the immediate vicinity of, the study area.

4.3 NRCS Soil Survey Review

The Natural Resources Conservation Service (NRCS) Soil Survey of Osceola County, Florida was reviewed for information regarding near-surface soil conditions within the project limits, as shown on **Figure 3**. The following soil types were identified within the study area:

Unit No.	Soil Name					
5	Basinger fine sand, 0 to 2 percent slopes					
6	Basinger fine sand, depressional, 0 to 1 percent slopes					
15	Hontoon muck, frequently ponded, 0 to 1 percent slopes					
16	Immokalee fine sand, 0 to 2 percent slopes					
22	Myakka fine sand, 0 to 2 percent slopes					
32	Placid fine sand, frequently ponded, 0 to 1 percent slopes					
34	Pomello fine sand, 0 to 5 percent slopes					
40	Samsula muck, frequently ponded, 0 to 1 percent slopes					
42	Smyrna fine sand, 0 to 2 percent slopes					
99	Water					

None of the listed soil types are considered to indicate a potential for contamination concern.

No landfills, borrow pits, quarries, or other conditions are depicted that would represent potential contamination concerns on, or in the immediate vicinity of, the study area.

Information contained in the NRCS Soil Survey is very general and may be outdated. It may not therefore be reflective of actual soil and groundwater conditions, particularly if recent development in the site vicinity has modified soil conditions or surface/subsurface drainage.

4.4 Geotechnical Investigation

GEC is conducting a geotechnical engineering investigation consisting of a desktop review of available data from published sources including USGS Quadrangle Maps, the NRCS Soil Survey, and aerial photography. This review will identify potential geotechnical impacts along the project alignment including organic soils, water crossings and shallow groundwater levels. The geotechnical evaluation will be submitted under separate cover.

5.1 Historical Aerial Photographs

Historical aerial photographs of the study area were reviewed to evaluate past land use and to identify features that may indicate hazardous material or petroleum contamination. Available historical aerial photographs of the study area were accessed from Google Earth, the FDOT, and the University of Florida websites. Aerial photographs for the following years were reviewed: 1944, 1951, 1959, 1971, 1982, 1995, 1999, 2004, 2008, 2014, and 2019. Excerpts of the aerial photographs are included in **Appendix A**.

In general, the study area was vacant and included undeveloped wetlands/land from 1944 through 2019. Exceptions are noted below:

1944

- Portions of Sungrove Lane are visible as dirt roads in the northern portion of the study area.
- An agricultural site including a cattle pen is visible. This site is discussed as **Site No. 1** in **Table 1**.
- The excavated canals between Lake Myrtle and Lake Joel, and from Lake Joel to the south, are visible.

1951-1959

- More of Sungrove Lane is visible.
- Several drainage canals were excavated in the northern portion of the study area, and near Lake Joel.
- The agricultural site expands with the addition of several structures.

1971-1982

- Nova Road is visible along with the borrow pit/stormwater ponds north and south of Nova Road.
- Sungrove Lane has been constructed along the west side of the drainage canal south of Lake Joel.
- A cattle dipping vat is visible in the 1971 aerial photograph. See **Site No. 2** in **Table 1** for an excerpt of the aerial photograph showing the dipping vat.

1995-1999

Nova Road appears to have been expanded.

2004

• The fish camp (discussed as **Site No. 1**) is visible including new buildings, pier, and camp site.

2008-2019

- Multiple dirt trails are visible north of Nova Road parallel to Sungrove Lane.
- A burn pile (discussed as **Site No. 1**) is visible near the fish camp.

5.2 City Directories

City Directories are historical listings of businesses and residences in a given area, similar to a standard telephone book. The site occupant and addresses listed for previous years can identify past land uses. Based on the historically undeveloped use of this property, city directories were not utilized in this study.

5.3 Fire Insurance Maps

Fire insurance maps are used by insurance companies in assessing fire risk. These maps contain details about building construction, business type, building contents, fuel storage tanks, and other factors affecting fire risk.

Fire insurance maps were not available for the study area. The fire insurance map search confirmation is included in **Appendix D**.

5.4 Historical Quadrangle Maps

GEC reviewed historical quadrangle maps at the <u>www.Historicaerials.com</u> website. The maps for 1954, 1964, 1972, 1984, 2012, 2015, and 2018 were reviewed.

The study area appears to be primarily vacant property from 1954 through 2018.

Sungrove Lane and Nova Road are visible dating back to 1954 and 1972, respectively. Buildings are visible at the agricultural/camp site (**Site No. 1**), beginning in 1954.

Borrow pits (apparently associated with the construction of Nova Road) are visible in the southern portion of the study area from 1972 to 1984 and are depicted as stormwater ponds in 2012 to 2018.

No additional conditions are depicted that would represent contamination concerns on, or in the immediate vicinity of, the study area.

5.5 Historical Contamination Screening Evaluation Report

No historical Contamination Screening Evaluation Reports were available for the study area.

6.0 PUBLIC RECORD REVIEW

GEC conducted a review of the public record for the study area including information obtained from the USEPA and the FDEP. As a part of our review, GEC subcontracted with EDR for a regulatory database search. The EDR Radius Map Report is included in **Appendix E**.

6.1 Florida Department of Environmental Protection (FDEP) Databases

The FDEP has compiled several databases that are useful in identifying potential sources of hazardous material or petroleum product contamination. The FDEP databases reviewed for this study and their common abbreviations are provided in **Appendix F.**

6.2 United States Environmental Protection Agency (USEPA) Databases

The federal government has compiled several databases that are useful in identifying potential sources of hazardous material or petroleum product contamination. The federal databases reviewed for this study and their common abbreviations are provided in **Appendix G**.

6.3 FDEP OCULUS Document Management System, Map Direct Website, and Nexus Portal

The FDEP uses the OCULUS Document Management System, Map Direct Website, and Nexus Portal to provide public record information for petroleum or hazardous material releases to the environment, generators of hazardous waste, and solid waste facilities. Information contained in this data management system includes the status of active and abandoned storage tanks, tank inspection reports, tank closure reports, environmental assessment reports, remedial action reports, hazardous waste generator compliance details, and solid waste facility compliance details.

GEC reviewed the OCULUS Document Management System, Map Direct Website, and Nexus Portal within the search distances provided in Section 3.0. No sites were identified during our review of these sources.

6.4 EDB Delineated Areas

The Florida Legislature had the FDEP implement the Delineated Areas Program in 1988 under Chapter 62-524, FAC. The purpose of the program was to protect public health and groundwater resources by regulating potable water well construction and testing standards for areas of known groundwater contamination. During the period 1962 to 1980, the Florida Department of Agriculture and Consumer Services (FDACS) conducted widespread applications of ethylene dibromide (EDB), an agricultural pesticide, to control nematodes in citrus groves. In 1983, the FDEP began testing groundwater in potable wells throughout Florida due to the discovery of EDB in wells in other states. The delineated areas of EDB groundwater contamination are shown on the FDEP Map Direct website. The potable wells, agricultural or residential, with confirmed impacts were shown on the website with a 1,000-foot buffer zone in an attempt to project future migration of contaminants. However, this does not mean that there is not EDB contamination outside of that 1,000-foot zone.

After reviewing these EDB-delineated areas on the FDEP Map Direct website, in the vicinity of the study area, GEC found that no EDB-delineation areas appear within the study area.

6.5 Agricultural Land Use

One cattle pen was visible from 1944 through 1983 historical aerial photograph review. During the site reconnaissance, a farm building (barn), a crop sprayer, and a historical cattle pen were observed. Based on the available information and the historical aerial review, this cattle pen/barn is considered a contamination risk to the proposed roadway improvements and is discussed as **Site No. 1** in **Table 1**.

GEC did not identify any row crops, additional cattle pens, additional farm/ranch buildings, irrigation wells, or water towers in the study area during the historical aerial photograph review or during the site reconnaissance.

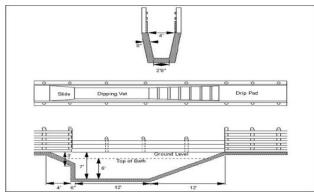
6.6 Railroad Corridors

There are no railroad corridors within the study area.

6.7 Cattle Dip Vats

Cattle dip vats were a response to cattle tick fever in the 1890s. The United States Department of Agriculture (USDA) initiated the cattle dip vat program in 1906 and approximately 3,200 cattle dip vats had been constructed by 1940.

Cattle dip vats were used until the 1960s and many vats have not been located or documented. Cattle dip vats were used to apply pesticides to cattle and other livestock, kill ticks, and thereby eliminate tick-borne diseases. The vats were typically constructed of concrete. They consisted of four sections; the entrance slide, dipping vat, exit stairs and drip pad. Cattle were funneled into a chute leading to the entrance slide, then slid down into the pesticide-filled vat, swam or walked across the vat and up the exit stairs to the drip pad. The vats were roughly four feet wide, seven feet deep, and 40 feet long as shown on the adjacent diagram.



Due to the relatively small size of the vat and the narrow profile, it is difficult to identify a cattle dip vat from aerial photographs, or in a wooded area. Cattle dip vats are typically identified when the land owner reveals the location, when they are located near historical cattle pens and chutes, and by happening upon them. To add to the difficulty in identifying historical cattle dip vats, many

landowners removed the vats when the program was closed. They either dug up the vat or broke up the concrete and covered it with soil.

A cattle pen was visible from 1944 through 1982 in the historical aerial photograph review. One cattle dipping vat was identified within the study area, near the cattle pen, through discussions with Mr. J.D. Humpherys of Suburban Land Reserve. This cattle dip vat presents a contamination risk for this project and is discussed as **Site No. 2** in **Table 1**.

7.0 INTERVIEWS

On February 5, 2021, GEC interviewed Ms. Ruth Rauenzahn, Environmental Program Supervisor for Orange County Environmental Protection Division (OCEPD). OCEPD oversees the Osceola County tanks program. GEC inquired about any environmental impacts along the study area alignment. Ms. Rauenzahn was not aware of any registered petroleum tanks within the study area. She did identify two petroleum tank locations that are located outside the study area.

On February 5, 2021, GEC contacted Waste Operations at the Florida Department of Environmental Protection regarding any contamination concerns within the study area. As of the date of this report, GEC had not received a response.

On February 10, 2021, GEC spoke with Mr. Mark Gantz of the Osceola County Fire Department. He indicated that in 1995 there was a plane crash and in 1997 there was a fuel spill at the 6899 Nova Road address. GEC was unable to verify the location of these incidents at the 6899 Nova

Road address. The Osceola Property Appraiser indicates that the address is a 226-acre parcel located on the southwest portion of Lake Myrtle, partially in and partially out of the study area. The 6899 Nova Road address contains the Fish Camp/Cattle Pen/Barn at **Site No. 1** as described in **Table 1**.

On March 2, 2021, Mr. J.D. Humpherys with Suburban Land Reserve reported a cattle dipping vat (**Site No. 2**) in the camp area of the property, within the study area. The cattle dipping vat was identified by a former ranch hand who was asked about two cattle dipping vats on another portion of a large parent tract of land. The ranch hand revealed the location of the dipping vat. GEC met Mr. Humpherys at the site on March 16, 2021, and Mr. Humpherys showed GEC where the dipping vat is located.

During March 2021, GEC contacted the firm Breedlove, Denis & Associates, Inc. regarding potential contamination concerns and the cattle dipping vat. Mr. Michael Denis referred GEC to Mr. J.D. Humpherys and Suburban Land Management. Mr. Denis said that they did not have any information regarding contamination concerns or the cattle dipping vat, Mr. Humpherys would have that information.

No additional interviews were performed in the preparation of this assessment. The interview documentation is included in **Appendix H**.

8.0 SITE RECONNAISSANCE

GEC representatives performed a reconnaissance of the study area on January 19, 2021, and March 16, 2021. The purpose of the reconnaissance was to document existing conditions and evaluate whether current land uses could result in hazardous material or petroleum product contamination of environmental media.

The properties within the project study area were visually inspected for evidence of contamination such as stressed vegetation, underground tank vent and fill pipes, dumping, accumulated areas of debris, evidence of buried materials, and ground staining.

The Sungrove water treatment facility construction site was observed to the west of the proposed roadway alignment.

Site No. 1 was observed to consist of a fishing and/or hunting camp, a barn containing a trailer-mounted crop sprayer, historical cattle pen, burn pile containing metal objects, and an apparent camp septic tank.

The cattle dipping vat, Site No. 2, was observed and documented on March 16, 2021.

Details of the site reconnaissance and photographs obtained are incorporated in the Potential Contamination Site Descriptions in **Table 1**.

9.0 CONCLUSIONS AND RECOMMENDATIONS

This CSER has identified two sites that, in GEC's opinion, have some risk of contamination impacts to this project. The site locations are shown on **Figure 4**. **Table 1** summarizes the findings for the rated site.

9.1 Potential Contamination Sites

Medium and High Risk Sites

Site Number	Site Name	Site Address	Risk Potential
1	Fish Camp/Cattle Pen/Barn/Burn Pile	6899 Nova Road	Medium
2	Cattle Dipping Vat	6899 Nova Road	High

9.2 Level II Impact to Construction (ICA) Recommendations

Based on our current knowledge of the design plans, a Level II Impact to Construction Assessment is recommended for **Site Nos. 1** and **2**.

9.3 CSER Update

This CSER should be updated if right-of-way acquisition or construction will occur more than **one year** from the date of this report to determine if additional assessment is warranted due to significant changes in site conditions or project design.

10.0 LIMITATIONS

The findings, opinions, conclusions and recommendations presented herein are based in part on reasonably ascertainable information contained in the public record. GEC does not warrant or guarantee the accuracy or completeness of this information. Some of this public record information may be dated and not representative of conditions at the time this report was prepared (January through March 2021), or in the future. Additional limitations are as follows:

 Not discussed in this report are properties that have been historically undeveloped land, are associated with residential use, and do not appear to pose a contamination risk, or are professional/commercial establishments that are not associated with hazardous materials or petroleum products.

• This study also does not include surveys of wetlands, endangered species, asbestos containing materials, lead-based paints, or other potential hazardous building materials.

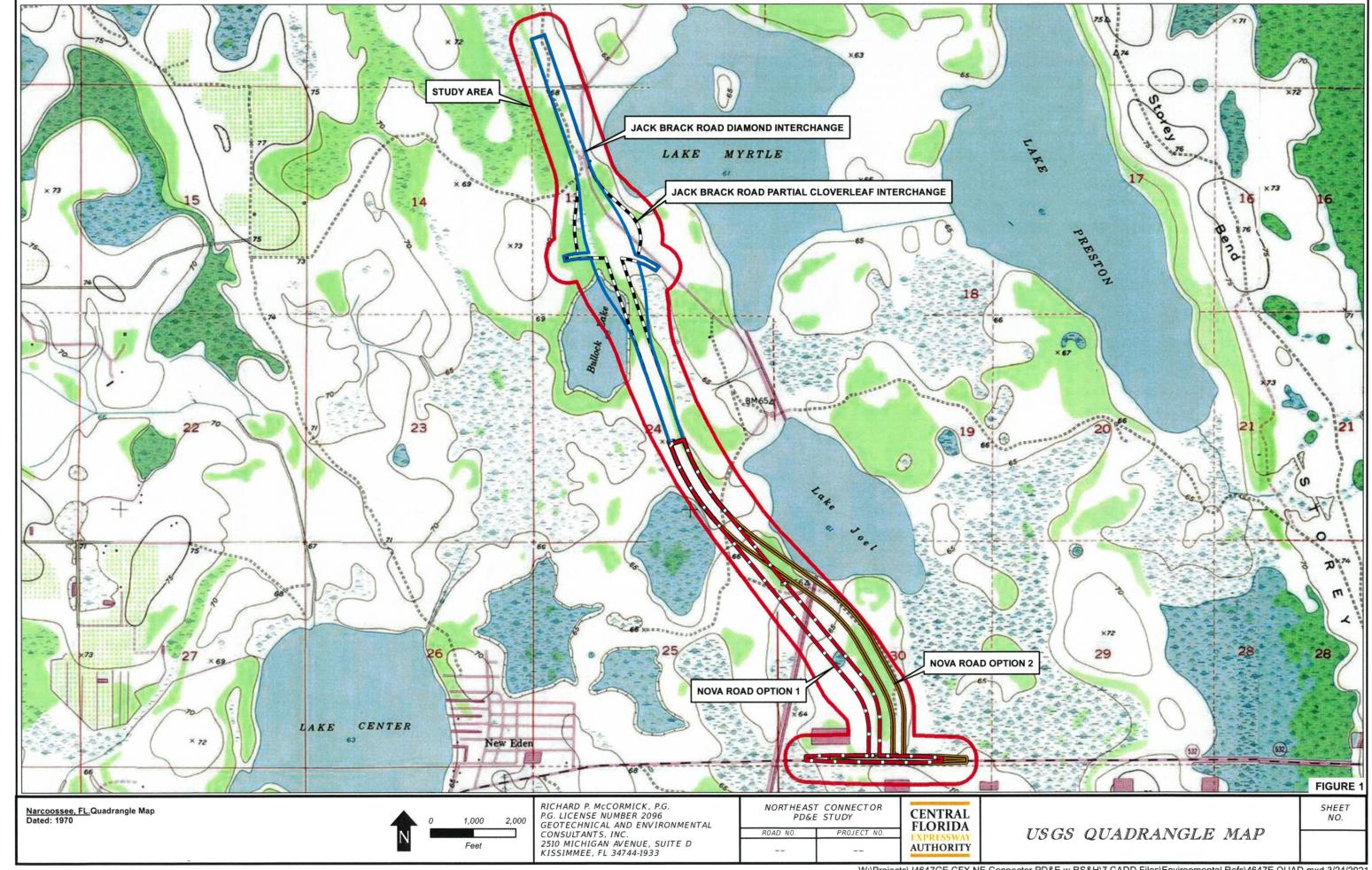
11.0 USE OF THIS REPORT

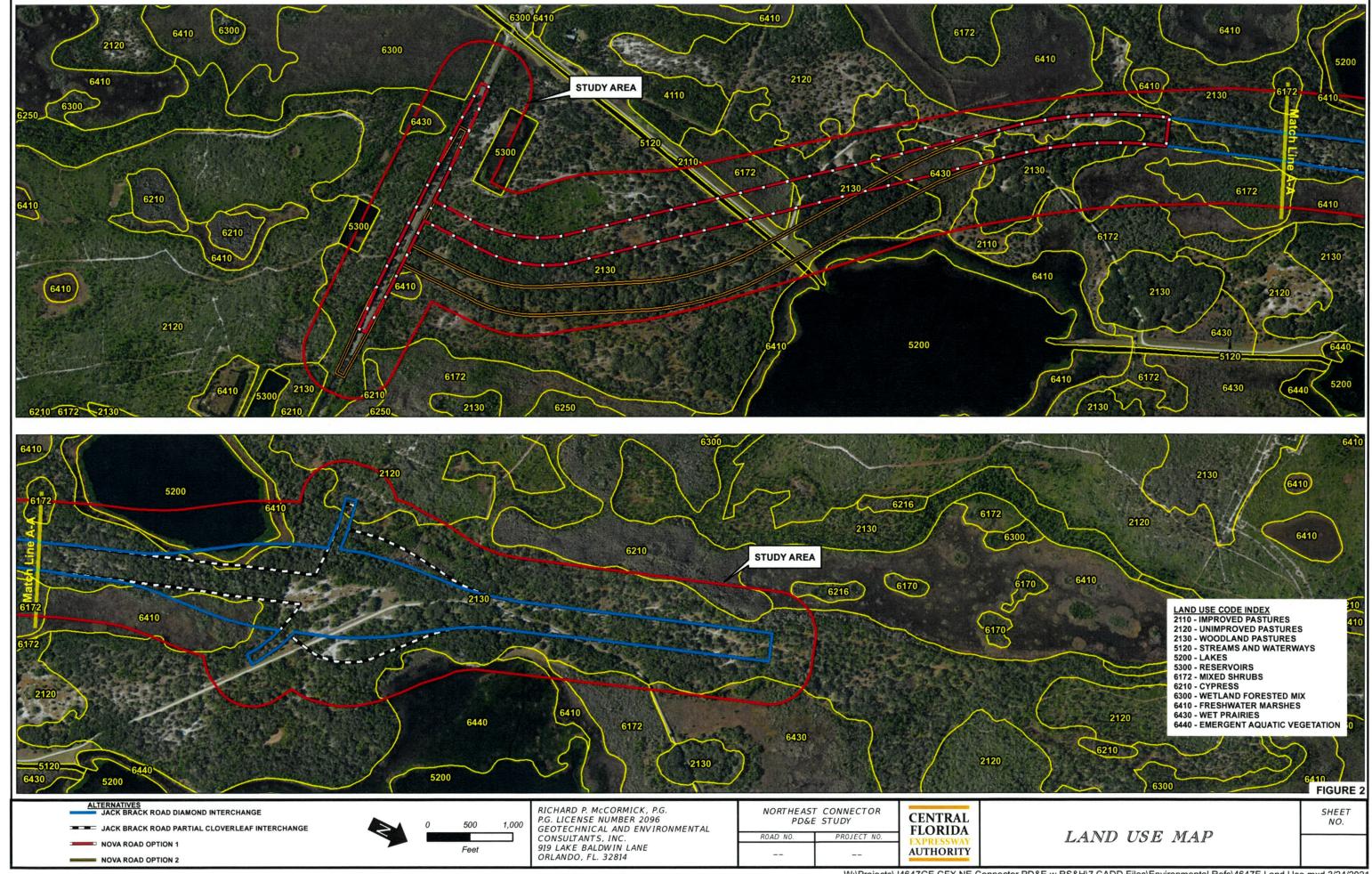
GEC has prepared this report for the exclusive use of our client, RS&H, Inc., and CFX, and for application to our client's project. GEC will not be held responsible for any other party's interpretation or use of this report's data or recommendations without our written authorization.

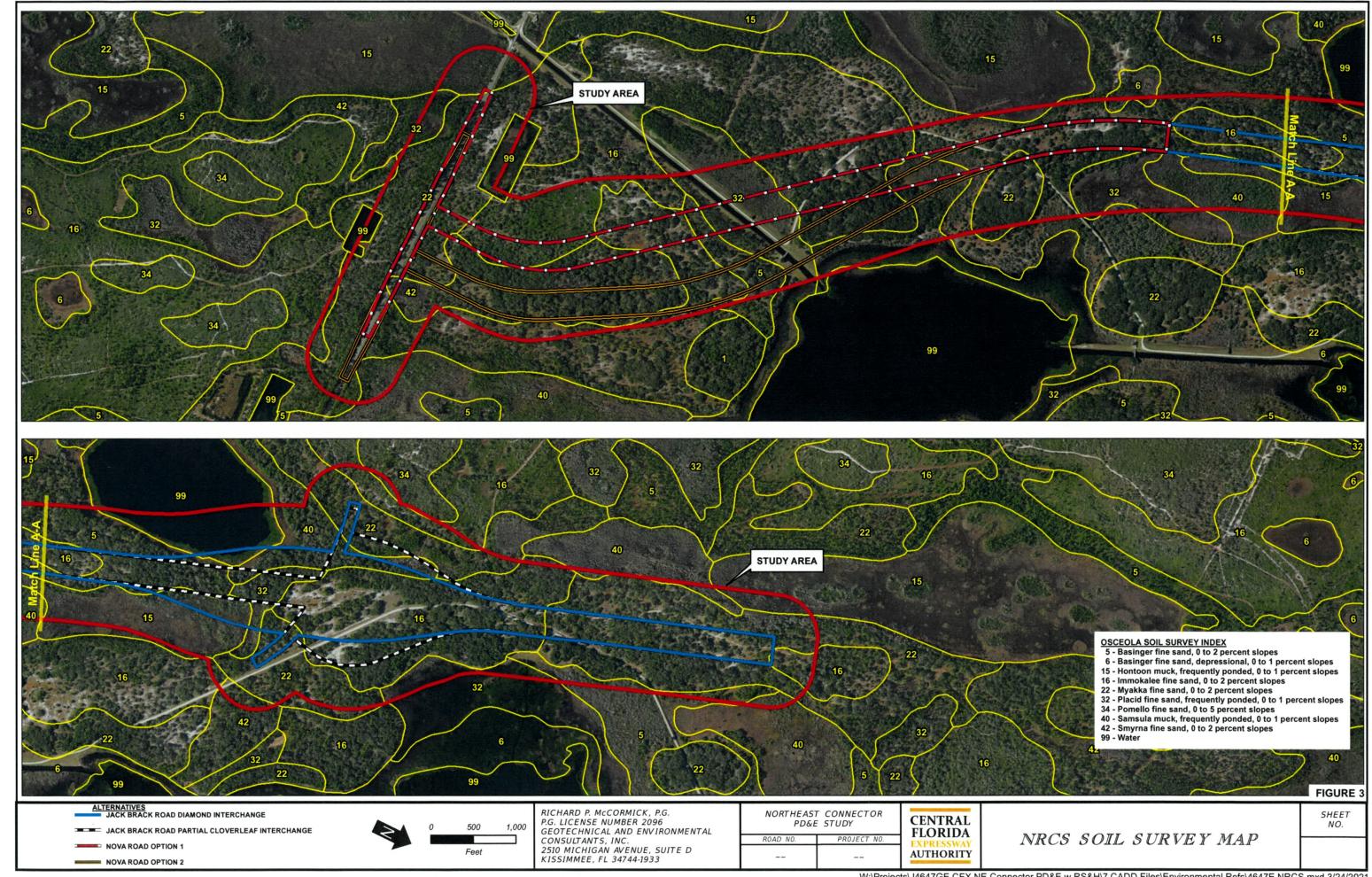
GEC has performed the services described in this report in a manner consistent with that level of care and skill ordinarily exercised by members of our profession currently practicing in Central Florida. No other representation is made or implied in this document.

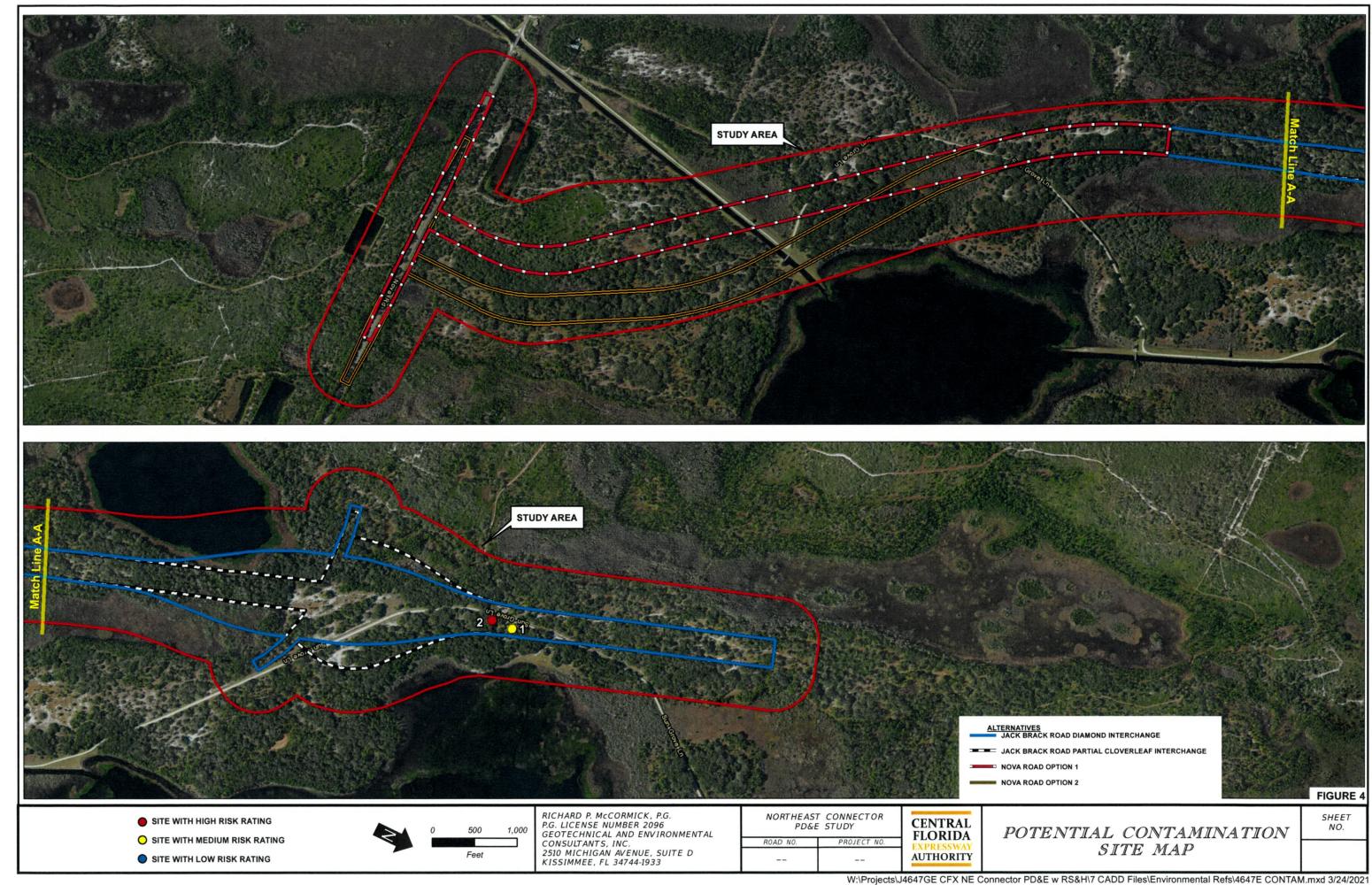
The conclusions and recommendations should be disregarded if the final project design differs from the project description in this report. If such changes are contemplated, GEC should be retained to review the new plans to assess the applicability of this report in light of proposed changes.

FIGURES









TABLES

GEC Project No. 4647E

CFX Project No. 599-228

Site No:		1		Risk Po	k Potential: MEDIUM		
Site Name			Fish Camp/Cattle Pen/Barn				
Site Ad	Site Address				6899 Nov	va Road	
Site Loc	Site Location		East of Sungrove Lane, Northeast of Bullock Lake, and West of Lake Myrtle				
Distance/[Direction			2.95 mi	les north	n of Nova Roa	d
Facility I	D Nos:				N/	A	
Datab Listings/S			Historical Aerial Photograph Review, Site Reconnaissance				
Historical I	and Use		Fish Camp and Agricultural Use				
Current La	and Use		Fish Camp				
Contam	inants		Petroleum Products and Hazardous Materials				
TANKS	U/A	Capacity (gal)	Content		it	Installed	Removed
N/A	N/A	N/A	N/A			N/A	N/A
		_					
Discharg	Discharge Date		/A Cleanup Date:		p Date:	te: N/A	
			Soil		Groundwater		
	Documented/ Known Impacts:		NO		NO		



Photo taken from west of the opening of the barn facing east. A trailer-mounted chemical spray tank is visible inside the barn.

PUBLIC RECORDS: This site is not listed on the EDR report or Map Direct web site. The facility first appears in 1944 with a cattle pen visible on-site. The location continues to be developed with additional structures and fencing through 1983. In 1983, the cattle pen is no longer visible. A pier is visible extending to Lake Myrtle in 1995. New structures that appear to be affiliated with the fish camp are visible dating back to 2004 and a burn pile is first visible in 2008.

INTERVIEW INFORMATION: GEC interviewed Ms. Ruth Rauenzahn regarding any petroleum storage tanks or petroleum contamination on this site. Ms. Rauenzahn responded with "no reported tanks" on site. GEC also interviewed Mr. Mark Gantz of the Osceola County Fire Department who indicated a plane crash (1995) and a fuel spill (1997) were documented on the 226-acre parcel that contains this address; however, the files were not available due to the age of the incidents. The locations of these incidents are unknown.

SITE OBSERVATIONS: A GEC representative performed the site reconnaissance on January 19, 2021. An historical camp, cattle pen, septic tank and barn were observed and are shown in the attached photos. A trailer-mounted chemical spray tank was present in the barn. A burn pile was also observed on-site.

CONCLUSIONS: Based on the historical agricultural use of the property and the observations from the site reconnaissance, this site has been assigned a **Medium Risk** rating.



Photo taken from west of the property facing east. A burn pile is visible.



Photo taken from north of the site facing south. A historical barn is visible.



Photo taken from north of the site facing south. A historical cattle pen is visible.

GEC Project No. 4647E

CFX Project No. 599-228

Site No:		2	2	Risk Po	tential:	: HIGH		
Site N	ame		Cattle Dipping Vat					
Site Ad	dress				6899 No	va Road		
Site Loc	cation	East of	East of Sungrove Lane, Northeast of Bullock Lake, and West of Lake Myrtle					
Distance/[Direction			2.95 mi	les north	n of Nova Roa	ıd	
Facility I	D Nos:				N/	A		
Datab Listings/S			Interview, Site Reconnaissance					
Historical I	Land Use	:	Fish Camp and Agricultural Use					
Current La	and Use		Former Camp Area					
Contam	inants		Hazardous Materials					
TANKS	U/A	Capacity (gal)	Content		it	Installed	Removed	
N/A	N/A	N/A		N/A		N/A	N/A	
Discharg	Discharge Date		/A Cleanup Da		p Date: N/A			
			Soil		Groundwater			
Documented/ Known Impacts:			NO			NO		

PUBLIC RECORDS: In the 1944 aerial photograph, a cattle pen and barn are visible at the historical fish camp site (see Site No. 1). Aided by local knowledge of the location of a cattle dipping vat, the dipping vat was discerned in the 1971 aerial photograph.

INTERVIEW INFORMATION: On March 2, 2021, Mr. J.D. Humpherys with Suburban Land Reserve reported a cattle dipping vat in the historical fish camp area. The location of the vat was provided by a former ranch worker. A GEC representative met Mr. Humpherys at the site on March 16, 2021 and Mr. Humpherys identified the vat's location.

SITE OBSERVATIONS: The cattle vat is shown on the four photographs. The vat is 25 feet long and three feet wide. The drip pad is about 14 feet wide and 14 feet long. Metal pipes, apparently used to supply water, are visible on the east and north sides of the vat. See the red circles on the photographs for the water pipe and vat locations.

CONCLUSIONS: The cattle dipping vat is a concern for residual arsenic and pesticide impacts; therefore, this site has been assigned a **High Risk** rating.



Looking north at the cattle dipping vat. The drip pad is behind the tree at the rear of the vat. Notice the barn in the background.



Looking south at the cattle dipping vat. Drip pad is in forefront, the vat is to the rear.



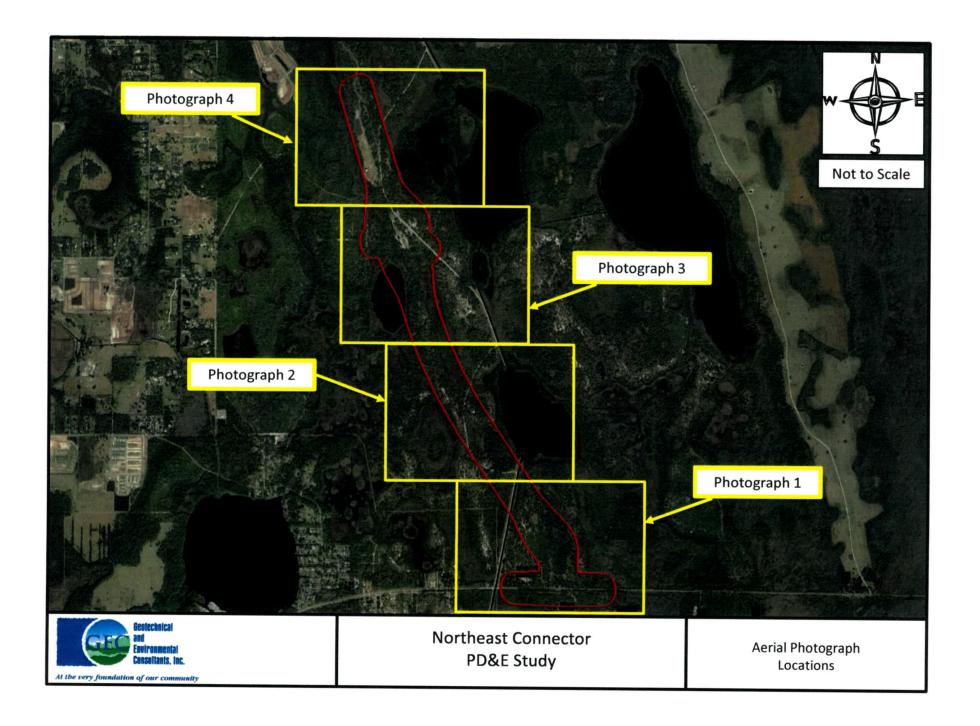
Looking east at the cattle dipping vat. Drip pad is to the left.

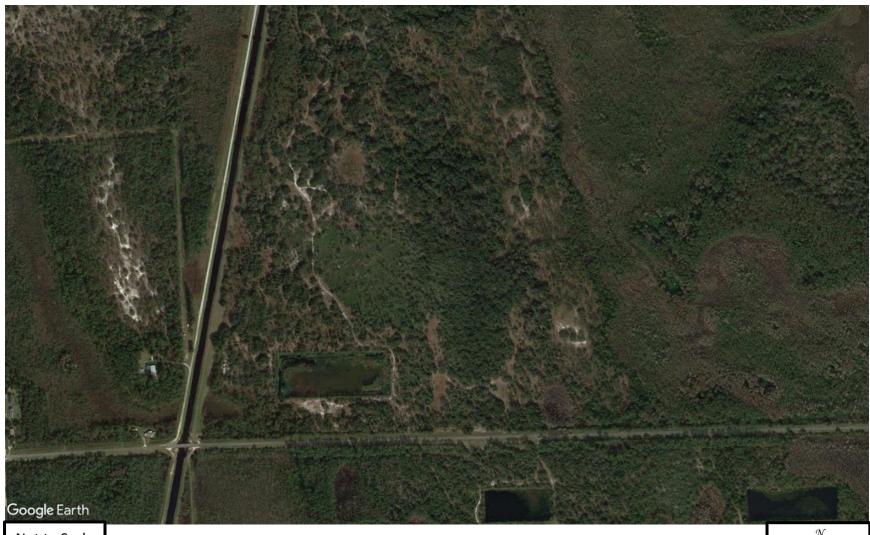


Cattle dipping vat as seen in the 1971 aerial photograph.

APPENDIX A

Historical Aerial Photographs

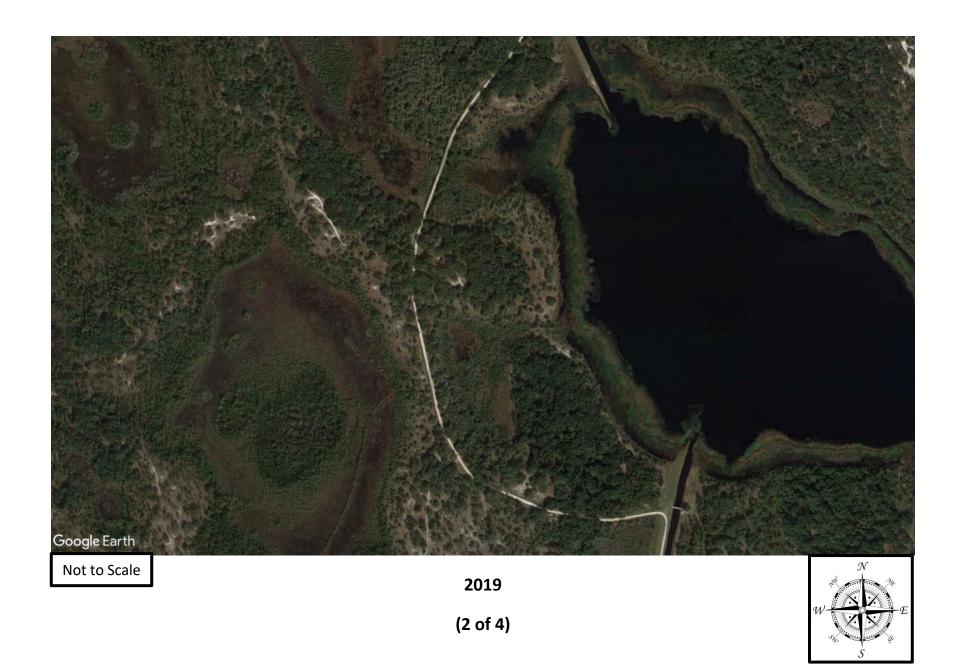


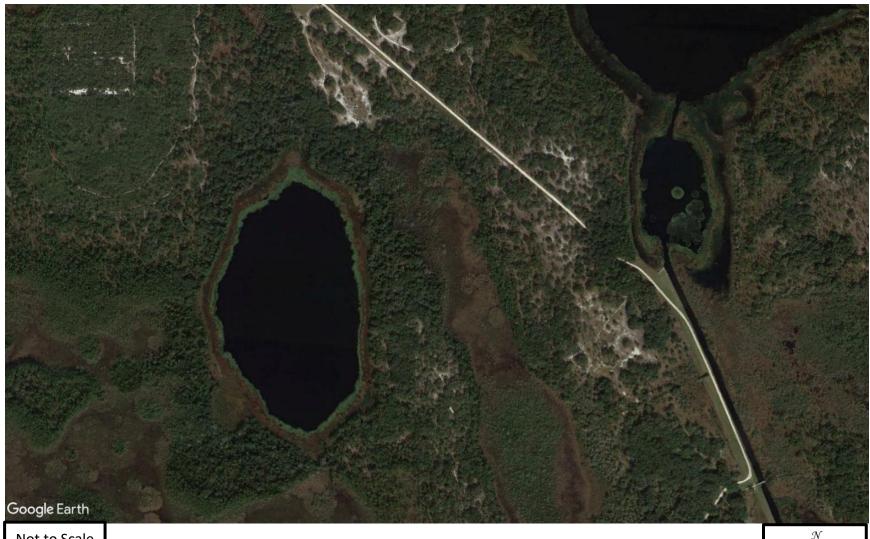


Not to Scale

2019

(1 of 4)



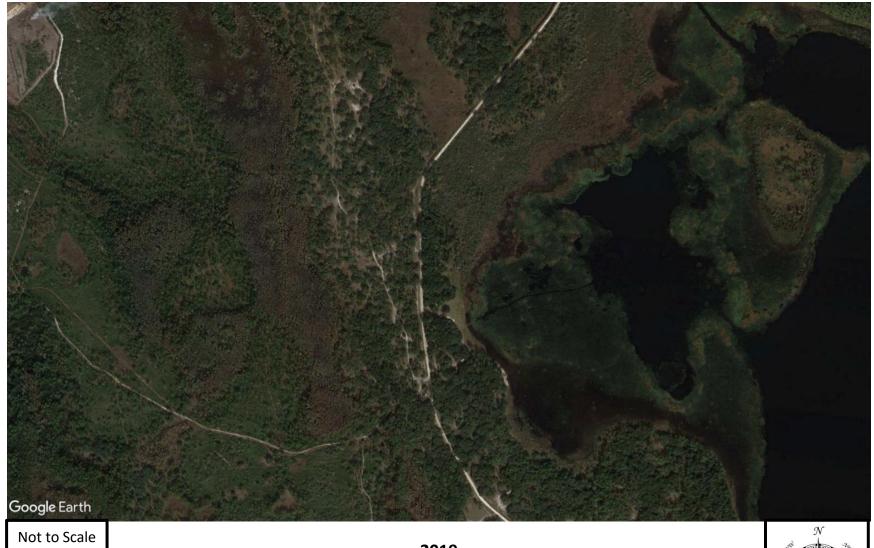


Not to Scale

2019

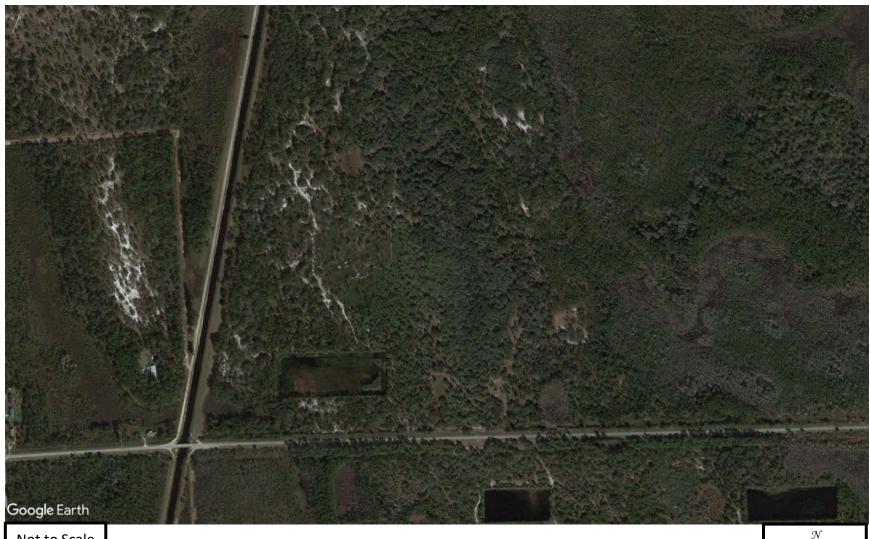
(3 of 4)





2019

(4 of 4)

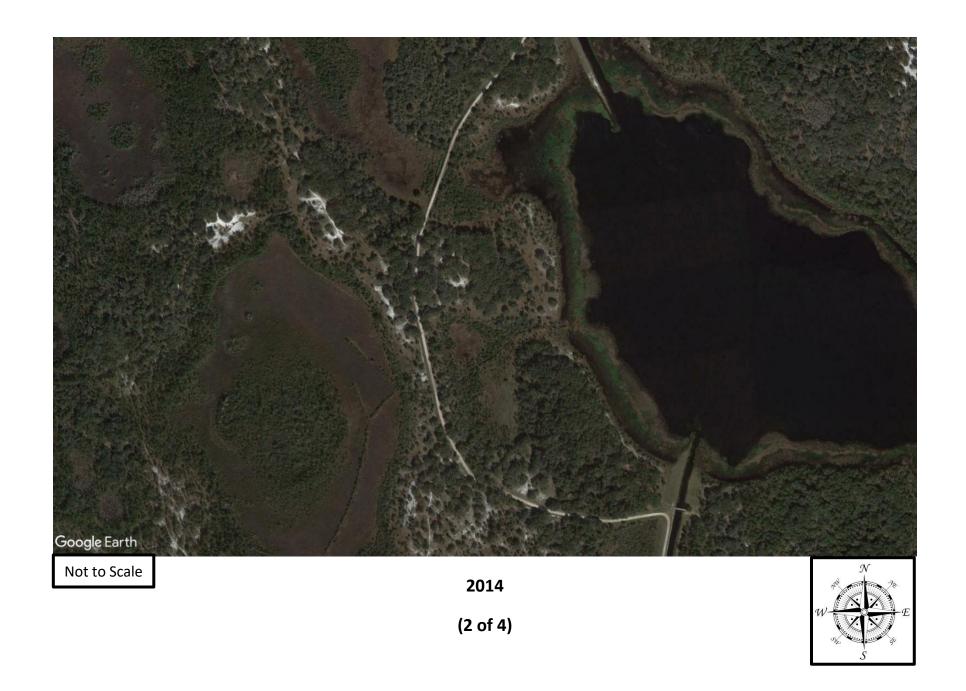


Not to Scale

2014

(1 of 4)

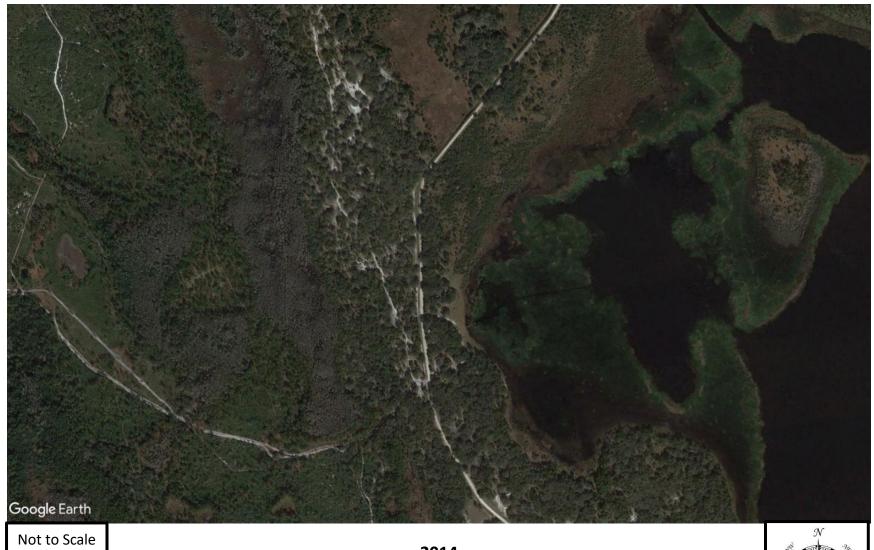




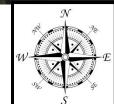


2014





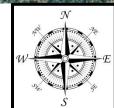
2014







2008

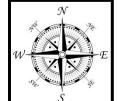




2008





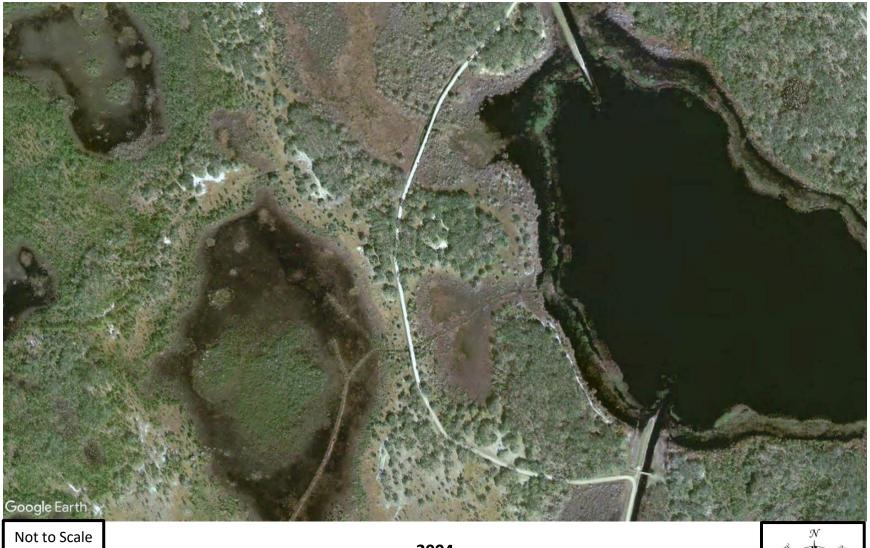




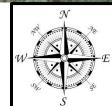
2004

(1 of 4)





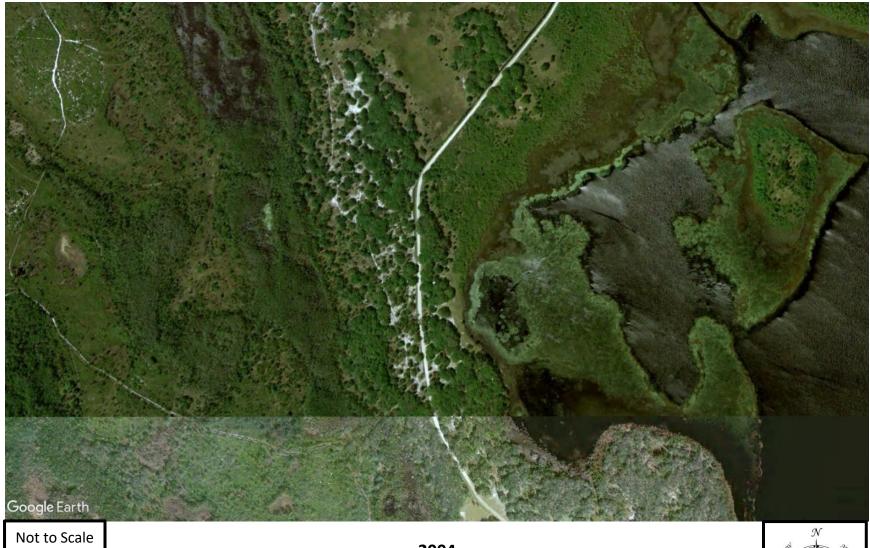
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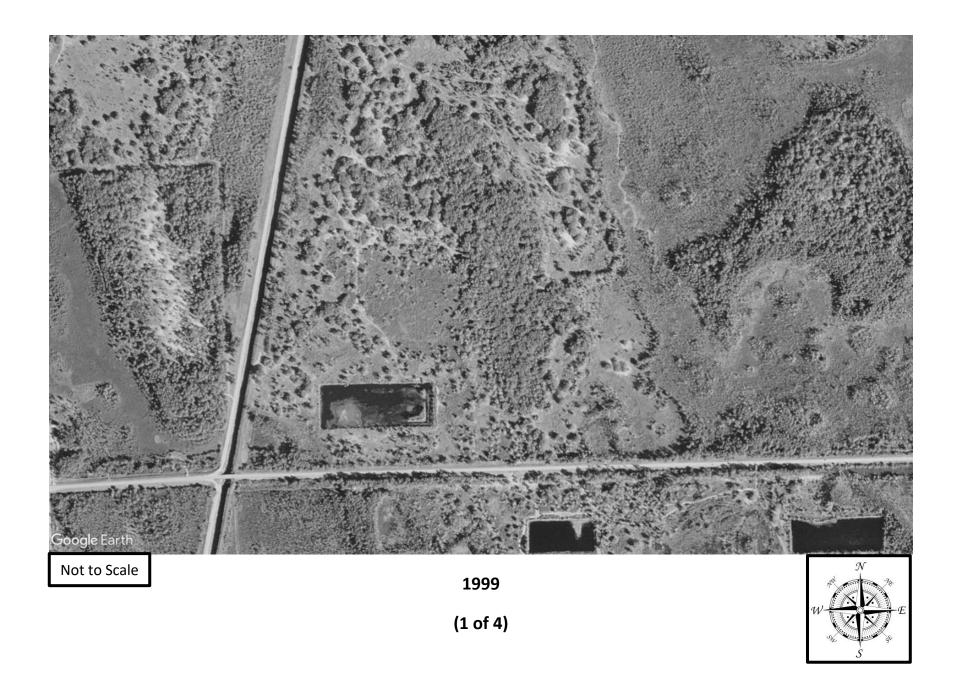


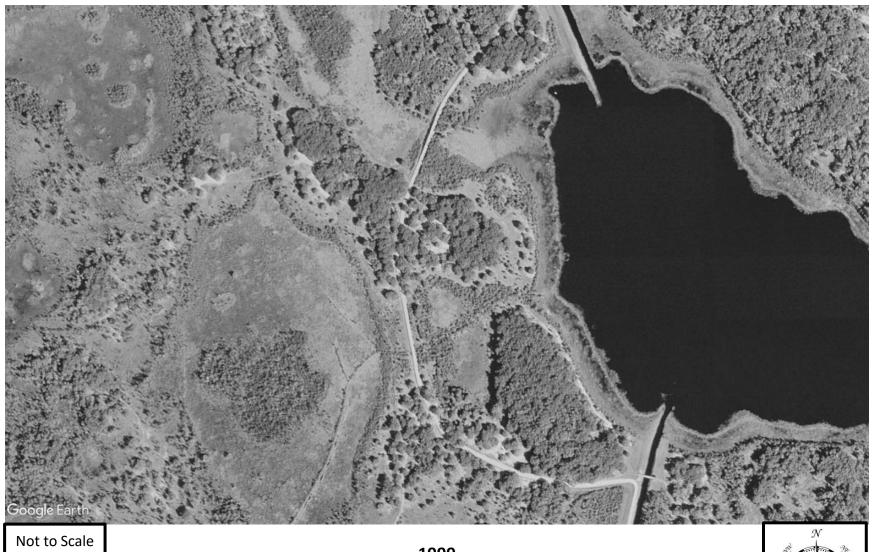
2004





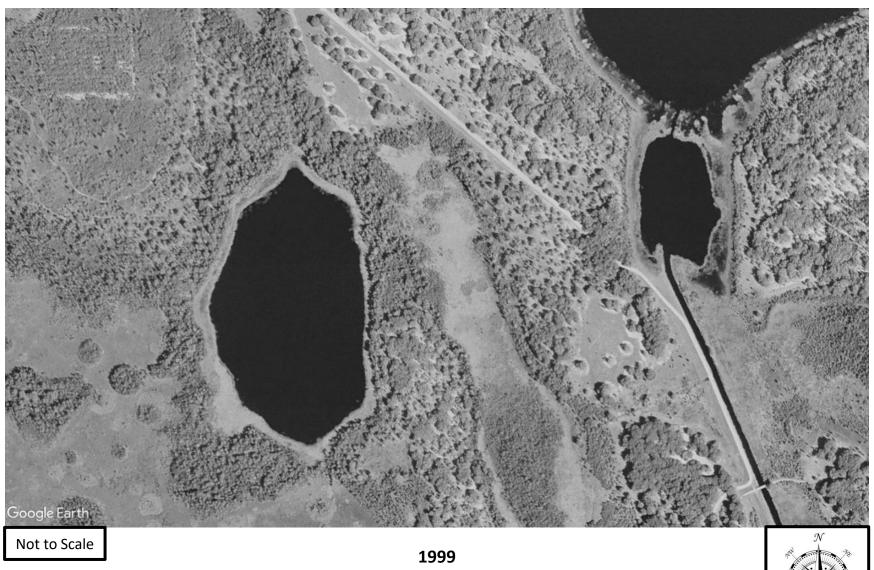
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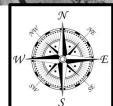


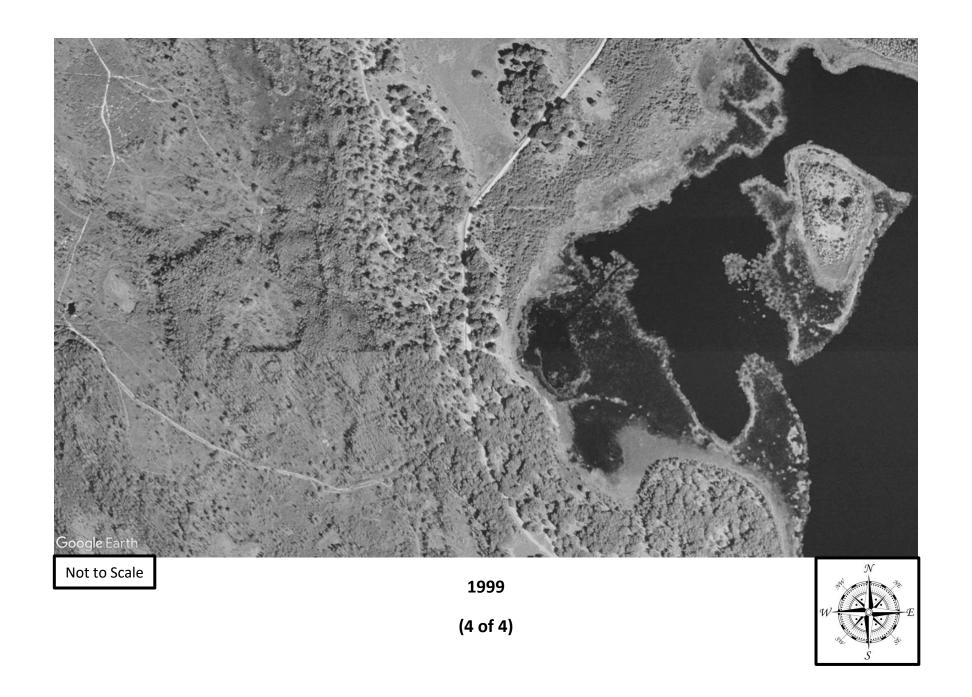


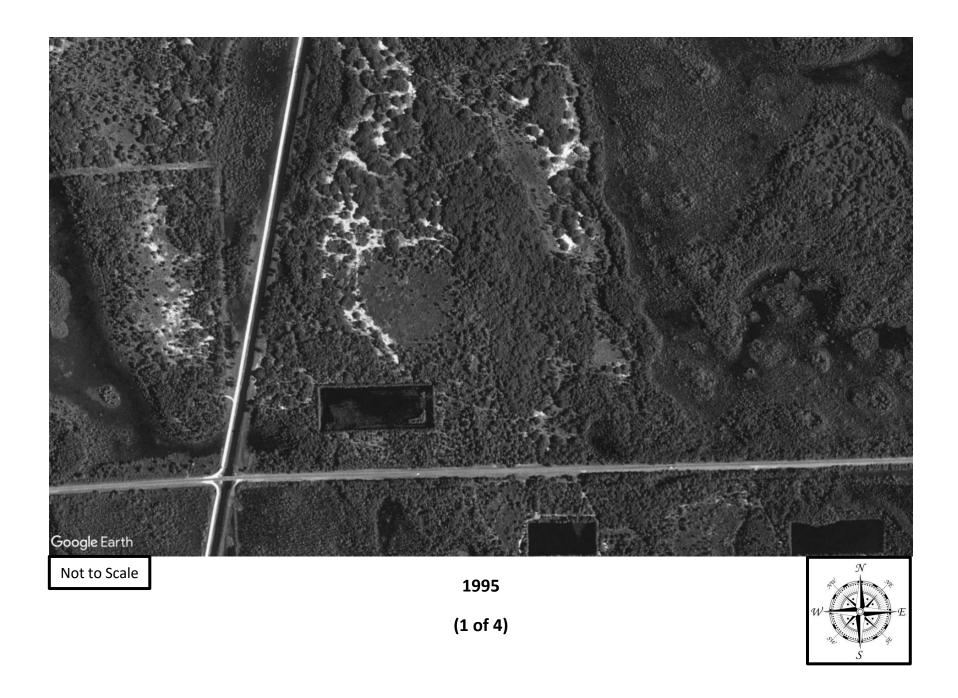
1999

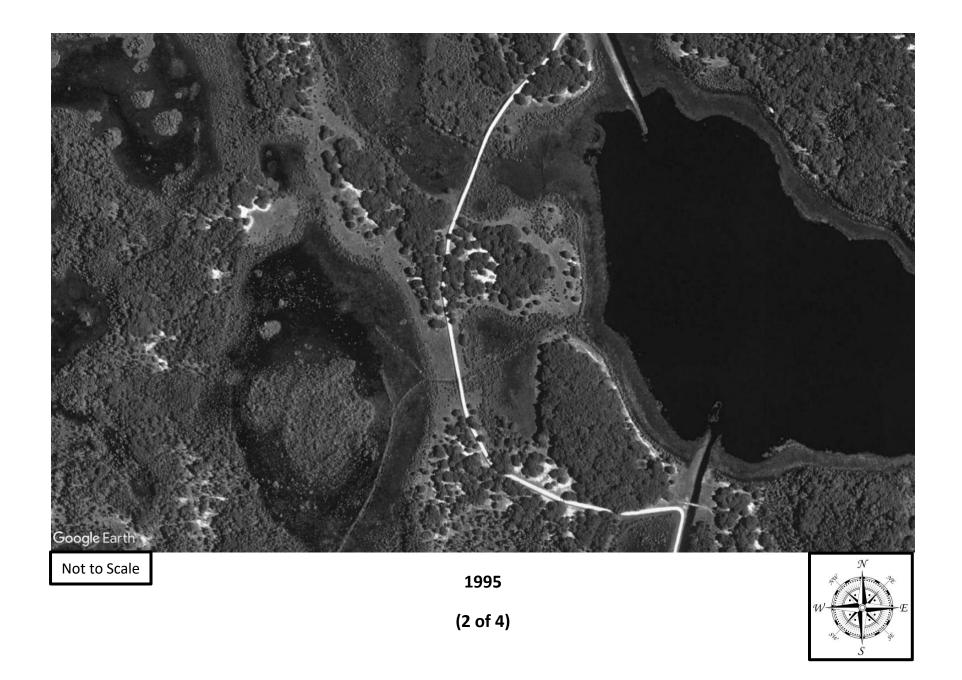


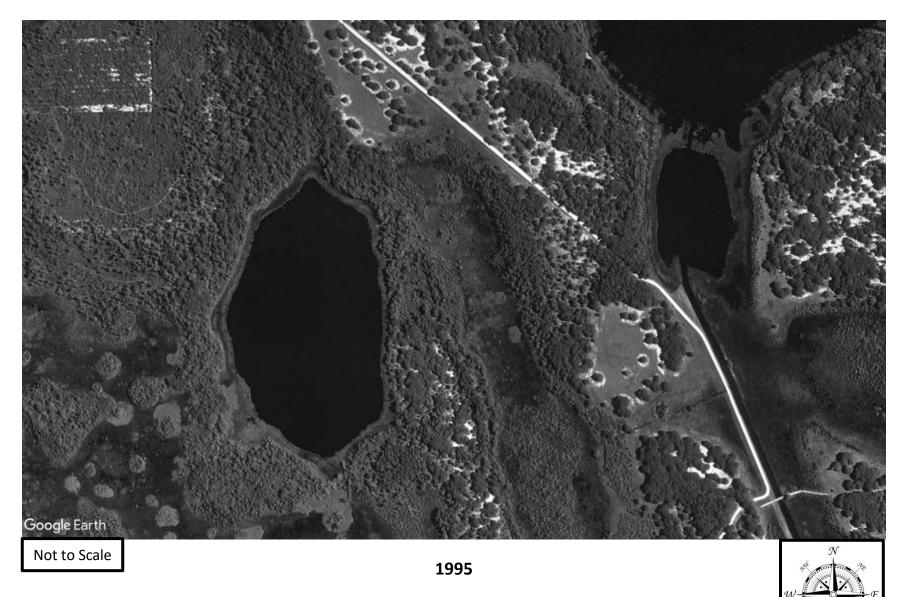


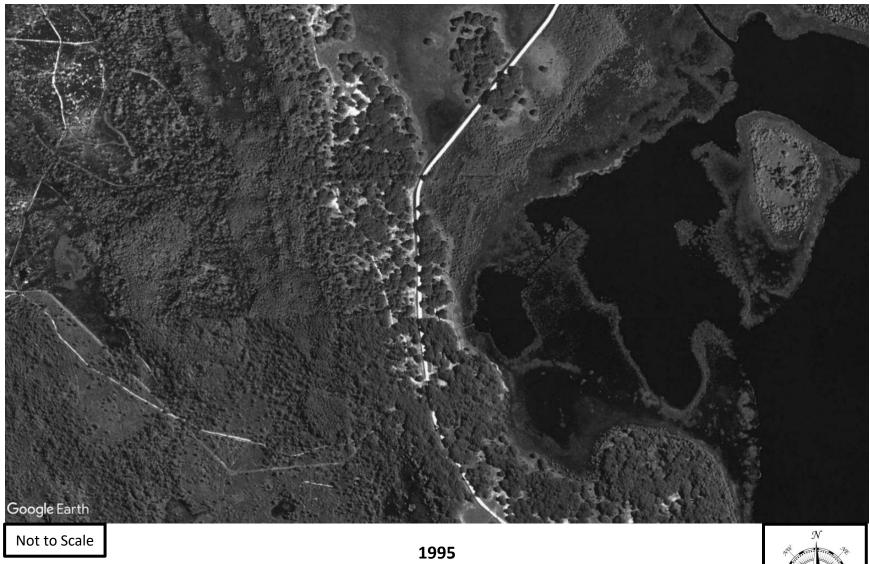




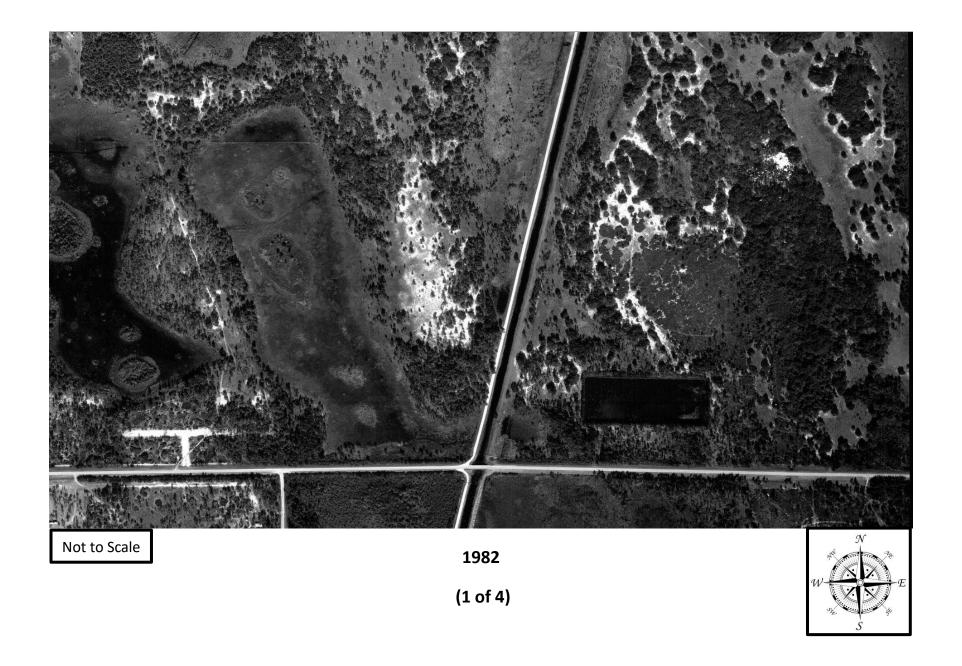


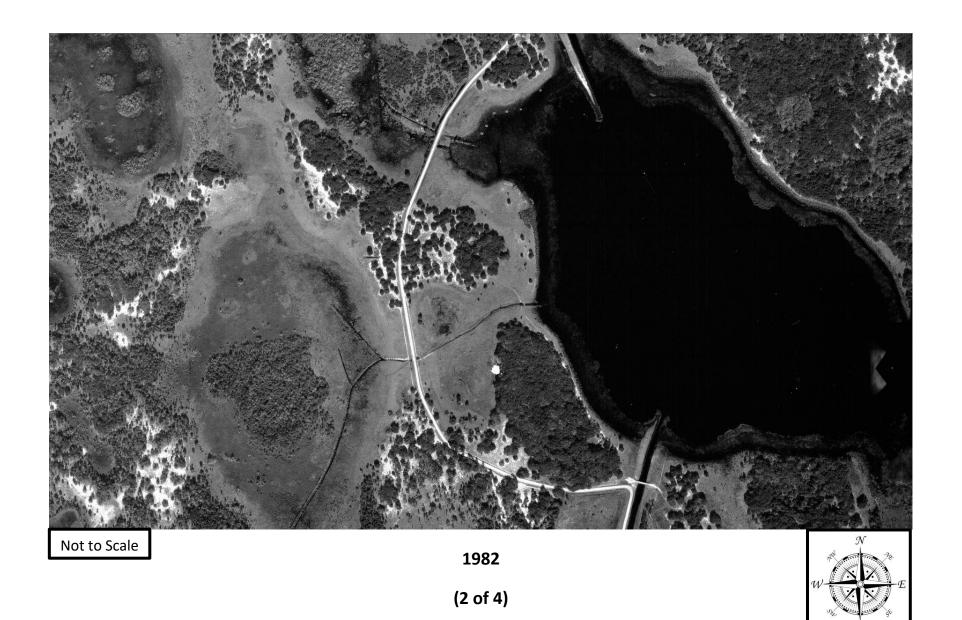


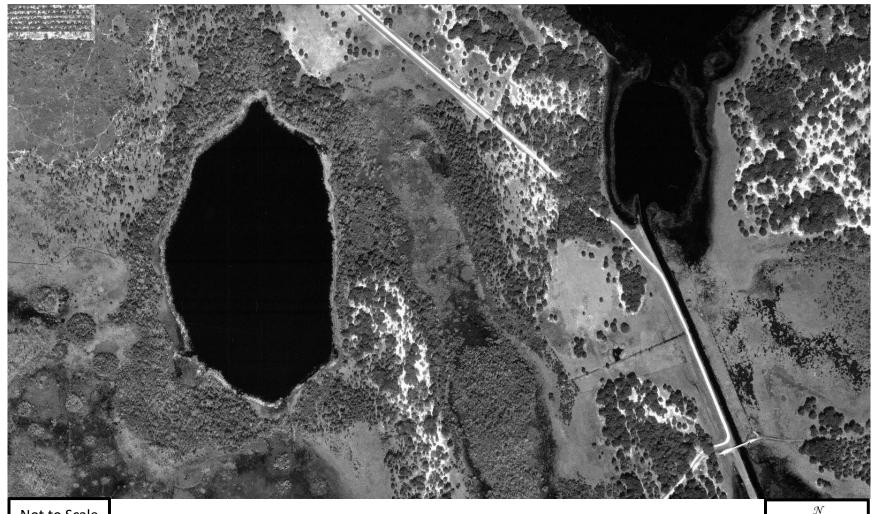




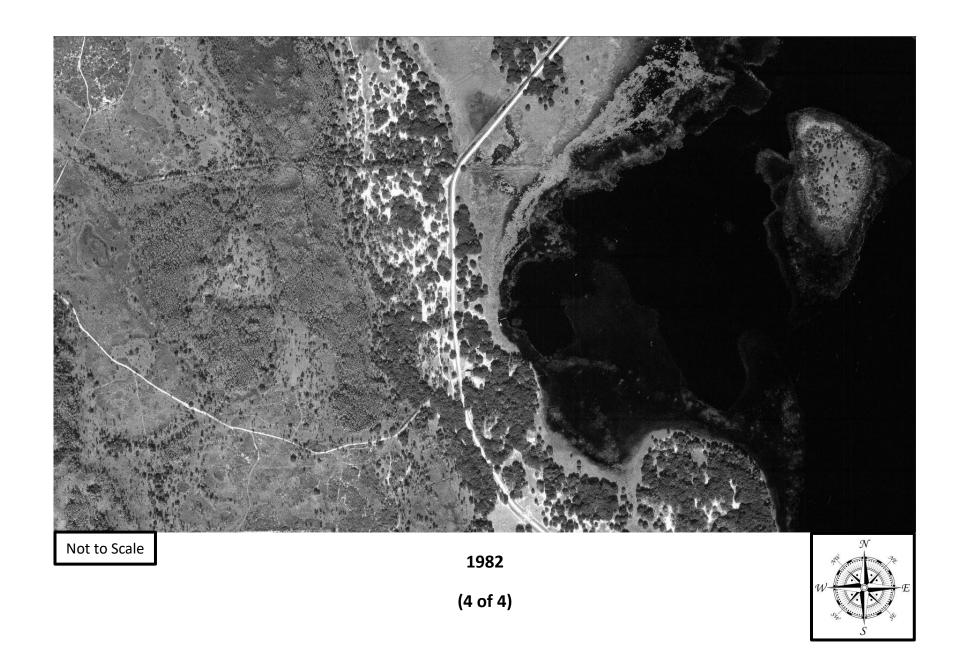








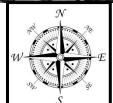
1982





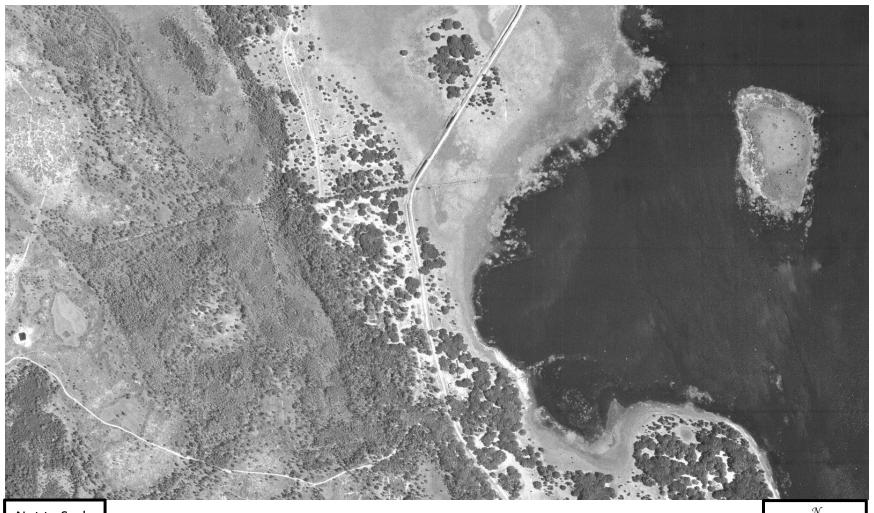


1971





1971



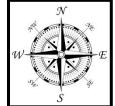
1971

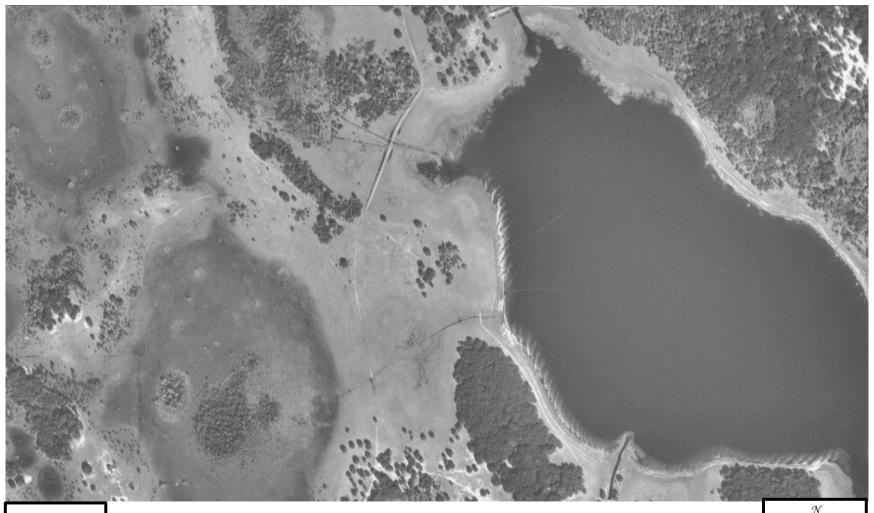




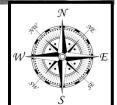
1959

(1 of 4)





1959



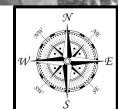


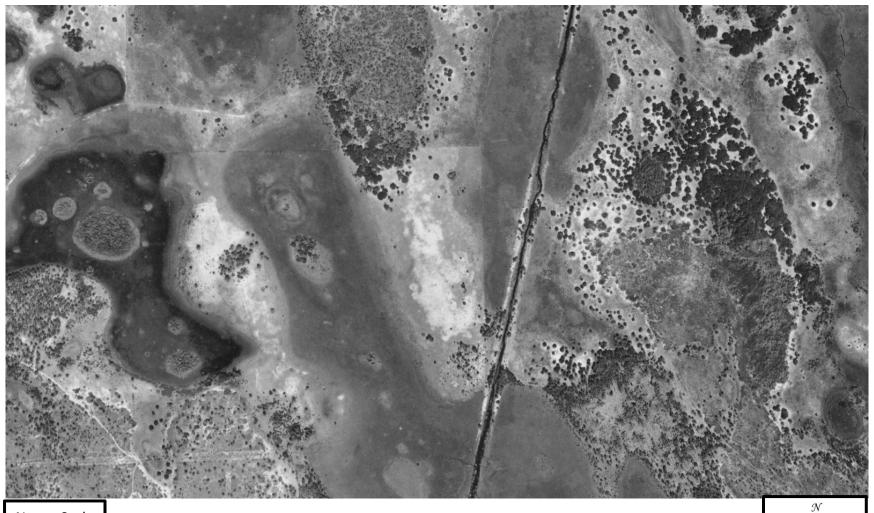
1959





1959

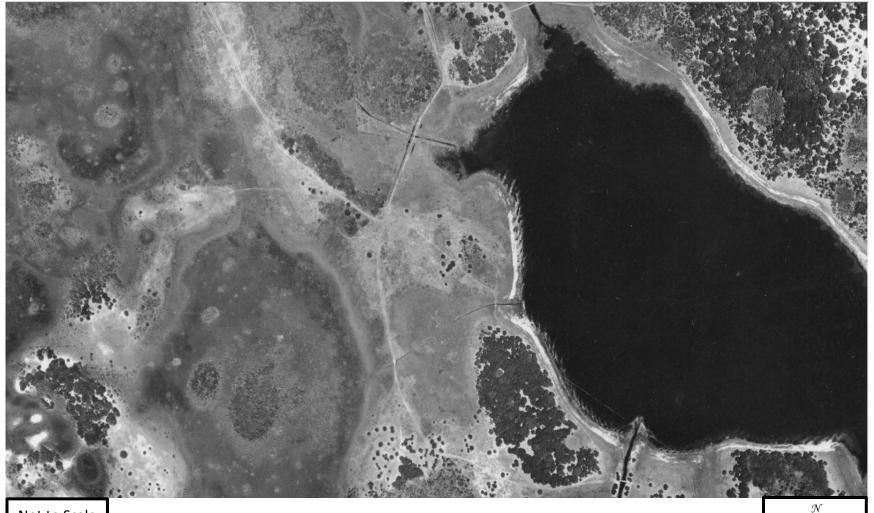




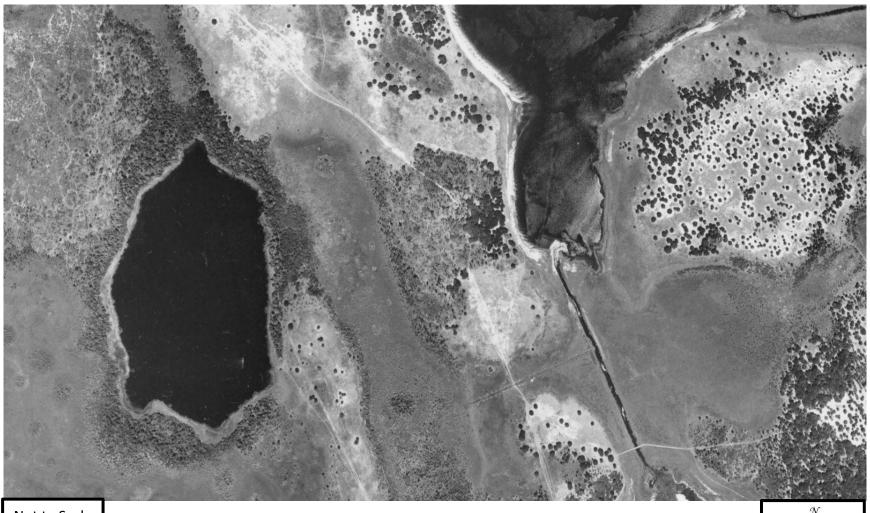
1951

(1 of 4)





1951



1951





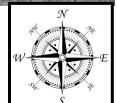
1951

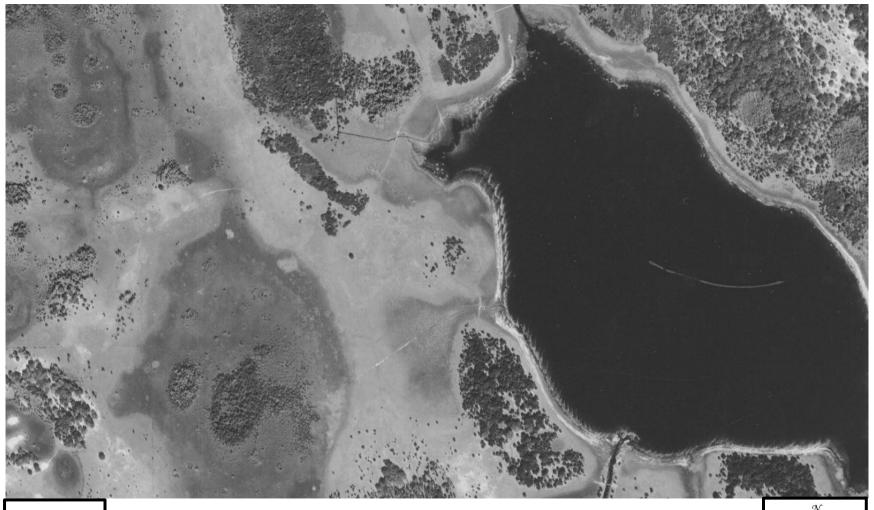




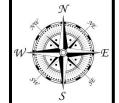
1944

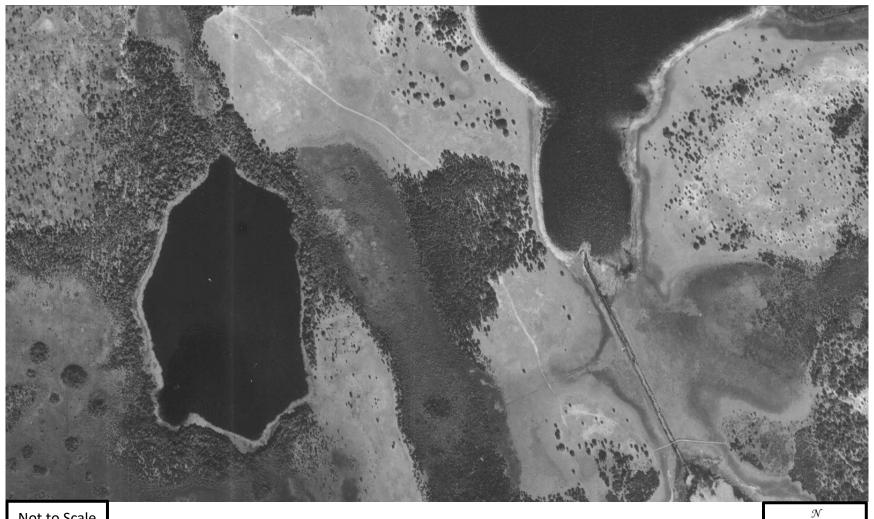
(1 of 4)





1944





Not to Scale

1944

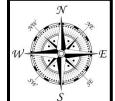
(3 of 4)



Not to Scale

1944

(4 of 4)



APPENDIX B

Definitions of Common Report Terms

<u>Aboveground Storage Tank (AST)</u> - A storage tank that is situated on the ground surface and may or may not be installed on a concrete pad with secondary spill containment.

Active Remediation (AR) - Implementation of an approved Remedial Action Plan.

<u>Contamination</u> - The presence of any material or chemical contained within the soil, surface water, sediment, or groundwater on or adjacent to the project corridor, that may require assessment, remediation, or special handling, or that has a potential for liability.

<u>Contamination Risk Rating (CRR)</u> - Site risk rating system defined in Chapter 20 of the FDOT PD&E Manual.

<u>Engineering Control (EC)</u> - A modification to a site to reduce or eliminate the potential for migration of, and exposure to, contaminants of concern. Examples of ECs include slurry walls, sheet pile walls, and engineered liners to prevent exposure.

<u>Hazardous Material</u> - Any solid, liquid, or gas that has the potential to harm people, other living organisms, property, or the environment, either by itself or through interaction with other factors. Hazardous material may be radioactive, flammable, explosive, toxic, corrosive, biohazardous, an oxidizer, an asphyxiant, a pathogen, an allergen, or may have other characteristics that render it hazardous in specific circumstances. These materials may threaten workers through occupational exposure and the general public in their homes, communities, and general environment. Exposure to these materials can occur near the site of generation, along the path of its transportation, or near their ultimate disposal sites. Hazardous materials are often subject to laws and regulations on the use and handling of such materials and may differ depending on the activity or status of the material.

<u>Institutional Controls (IC)</u> - A restriction on use of, or access to, a site to eliminate or minimize exposure to contaminants of concern. Examples of ICs include deed restrictions, use restrictions, or restrictive zoning.

<u>Natural Attenuation Monitoring (NAM)</u> - A means of conducting site rehabilitation in which natural degradation of media contaminants are monitored for extended periods of time provided that human health, public safety, and the environment are protected.

<u>No Further Action with Conditions (CNFA)</u> - No further assessment or remediation is required at a site provided that certain conditions are met as approved by the lead regulatory agency. Conditional No Further Actions can be granted to sites that employ ICs and/or ECs as part of the site rehabilitation strategy.

<u>No Further Action without Conditions (NFA)</u> - No further assessment or remediation is required at a site. No contaminants are present at the site above default or approved alternative cleanup standards.

<u>Petroleum Products</u> - Liquid crude oil derivatives that are derived by distillation, cracking, hydro forming and/or other petroleum refinery processes falling under the description of either "Gasoline Analytical Group," "Kerosene Analytical Group" or "Used Oil" as defined in Florida Administrative Code (FAC) 62-770.200(24), (29) and (64), respectively. These materials include, but are not limited to: leaded and unleaded gasoline, gasohol, aviation and jet fuels, diesel fuel, kerosene, new or used motor oil, hydraulic fluid, and gear oil.

<u>Potential Hazardous Material or Petroleum Contamination Site</u> - A potential hazardous material or petroleum contamination site is a parcel of land upon which hazardous materials or petroleum products are produced, stored, accumulated, used, or disposed of. These sites typically include existing or former gasoline stations, dry cleaners, auto repair facilities, and other businesses where hazardous substances or petroleum product are present. The presence of hazardous substances and/or petroleum products does not mean that contamination is present, but merely indicates that the potential for contamination exists if the materials are not handled or disposed of properly.

Remedial Action Plan (RAP) - A plan that details a means by which contamination may be cleaned up.

<u>Site Assessment Report (SAR)</u> - Summarizes all tasks that were implemented pursuant to the Contamination Assessment.

<u>Site Rehabilitation Complete Report (SRCR)</u> - A report that describes that cleanup goals have been met.

<u>Site Rehabilitation Completion Order (SRCO)</u> - An order issued by the lead regulatory agency that approves the SRCR. No further assessment or remediation activities need to be conducted at the site once an SRCO has been issued unless a new release is discovered.

Source Removal (SR) - The removal of free petroleum product or excessively contaminated soil.

<u>Underground Storage Tank (UST)</u> - A storage tank that has been installed below the ground surface that may or may not contain secondary containment or leak detection systems. The FDEP has compiled several database lists that are useful in identifying potential sources of hazardous material or petroleum product contamination.

APPENDIX C

Contamination Risk Rating Descriptions

The contamination potential risk rating system was developed by FOOT and is included in Part 2, Chapter 20 of the PD&E Manual, dated July 1, 2020. The rating system incorporates four levels of risk:

- 1. **No** A review of available information on the property and a review of the conceptual or design plans indicates there is no potential contamination impact to the project. It is possible that contaminants have been handled on the property. However, findings from the Level I evaluation indicate that contamination impacts are not expected.
- 2. **Low** A review of available information indicates that past or current activities on the property have an ongoing contamination issue; the site has a hazardous waste generator identification (ID) number, or the site stores, handles, or manufactures hazardous materials. However, based on the review of conceptual or design plans and/or findings from the Level I evaluation, it is not likely that there would be any contamination impacts to the project.
- 3. **Medium** After a review of conceptual or design plans and findings from a Level I evaluation, a potential contamination impact to the project has been identified. If there is insufficient information (such as regulatory records or site historical documents) to make a determination as to the potential for contamination impact, and there is reasonable suspicion that contamination may exist, the property should be rated at least as a "Medium". Properties used historically as gasoline stations and which have not been evaluated or assessed by regulatory agencies, sites with abandoned in place underground petroleum storage tanks or currently operating gasoline stations should receive this rating.
- 4. **High** After a review of all available information and conceptual or design plans, there is appropriate analytical data that shows contamination will substantially impact construction activities, have implications to Right-of-Way acquisition or have other potential transfer of contamination related liability to the FDOT.

APPENDIX D

EDR Certified Sanborn Map Report

Northeast Connector PD&E 105 Malabar Road NE Saint Cloud, FL 34771

Inquiry Number: 6335121.5

January 19, 2021

Certified Sanborn® Map Report



Certified Sanborn® Map Report

01/19/21

Site Name: Client Name:

Northeast Connector PD&E Geotechnical & Env. Cons., Inc 105 Malabar Road NE 919 Lake Baldwin Lane Saint Cloud, FL 34771 Orlando, FL 32814-0000 EDR Inquiry # 6335121.5 Contact: Alexis Perry



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Geotechnical & Env. Cons., Inc were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 0BA6-4918-82B8

PO # 4647E **Proiect** 4647E

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: 0BA6-4918-82B8

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

✓ Library of Congress

✓ University Publications of America

EDR Private Collection

The Sanborn Library LLC Since 1866™

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APPENDIX E

EDR Radius Map Report with GeoCheck

Northeast Connector PD&E 105 Malabar Road NE Saint Cloud, FL 34771

Inquiry Number: 6340100.5s

January 22, 2021

EDR Area / Corridor Report



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Key Map	
Map Findings Summary	 3
Focus Maps	7
Map Findings	29
Orphan Summary	OR-1
Government Records Searched/Data Currency Tracking	GR-1

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with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

SUBJECT PROPERTY INFORMATION

ADDRESS

105 MALABAR ROAD NE SAINT CLOUD, FL 34771

TARGET PROPERTY SEARCH RESULTS

The Target Property was identified in the following databases.

Page Numbers and Map Identifications refer to the EDR Area/Corridor Report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

A review of the RCRA-VSQG list, as provided by EDR, and dated 12/14/2020 has revealed that there is 1 RCRA-VSQG site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
SERVICE TRANSPORT, I	6995 NOVA RD	A3 / 7	29
FPA ID:: FI T950051466			

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

FINDS: Facility Index System/Facility Registry System

A review of the FINDS list, as provided by EDR, and dated 09/04/2020 has revealed that there is 1 FINDS site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
SERVICE TRANSPORT, I	6995 NOVA RD	A2/7	28

EXECUTIVE SUMMARY

Registry ID:: 110035628951

ECHO: Enforcement & Compliance History Information

A review of the ECHO list, as provided by EDR, and dated 10/03/2020 has revealed that there is 1 ECHO site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
SERVICE TRANSPORT, I	6995 NOVA RD	A2/7	28
Registry ID: 110035628951			

NPDES: Wastewater Facility Regulation Database

A review of the NPDES list, as provided by EDR, and dated 10/30/2020 has revealed that there is 1 NPDES site within the requested target property.

Site	Address	Map ID / Focus Map(s)	<u>Page</u>
SUNGROVE UTILITY TRA Status: A		1 / 4	28
Facility ID: FLR20DM51			

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Page Numbers and Map Identifications refer to the EDR Area/Corridor Report where detailed data on individual sites can be reviewed.

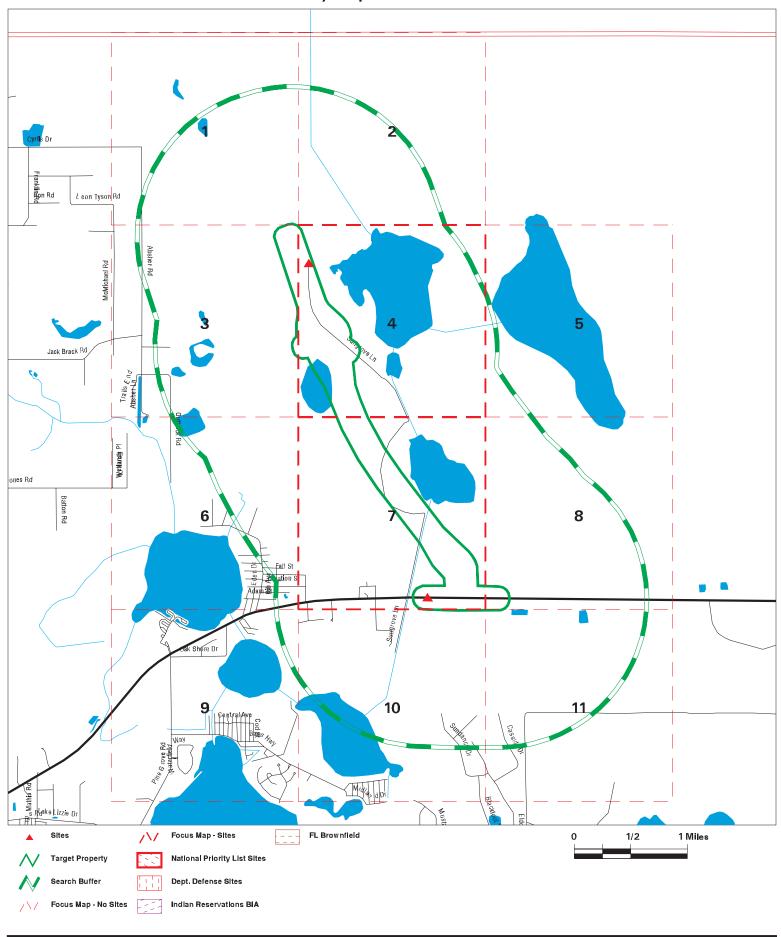
Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

MAPPED SITES SUMMARY

Target Property: 105 MALABAR ROAD NE SAINT CLOUD, FL 34771

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
1 / 4	SUNGROVE UTILITY TRA		NPDES	TP
A2 / 7	SERVICE TRANSPORT, I	6995 NOVA RD	FINDS, ECHO	TP
A3 / 7	SERVICE TRANSPORT, I	6995 NOVA RD	RCRA-VSQG	TP



SITE NAME: Northeast Connector PD&E ADDRESS: 105 Malabar Road NE

CITY/STATE: Saint Cloud FL ZIP: 34771

Geotechnical & Env. Cons., Inc

CLIENT: Geotechnica CONTACT: Alexis Perry INQUIRY #: 6340100.5s

DATE: 01/22/21 10:08 AM

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMEN	NTAL RECORDS	i						
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 1.000		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
Federal Delisted NPL sit	te list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY SEMS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Federal CERCLIS NFRA	P site list							
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRAC	TS facilities lis	st						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-COR	RACTS TSD fa	icilities list						
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generator	rs list							
RCRA-LQG RCRA-SQG RCRA-VSQG	0.250 0.250 0.250	1	0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 1
Federal institutional con engineering controls reg								
LUCIS US ENG CONTROLS US INST CONTROLS	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equiva	alent CERCLIS							
SHWS	1.000		0	0	0	0	NR	0
State and tribal landfill a solid waste disposal site								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking	storage tank li	sts						
LUST LAST INDIAN LUST	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
State and tribal registere	ed storage tan	k lists						
FF TANKS	0.250		0	0	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEMA UST UST AST INDIAN UST TANKS	0.250 0.250 0.250 0.250 0.250		0 0 0 0	0 0 0 0	NR NR NR NR NR	NR NR NR NR NR	NR NR NR NR NR	0 0 0 0
State and tribal institution control / engineering control		S						
ENG CONTROLS INST CONTROL	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal voluntar	y cleanup site	s						
INDIAN VCP VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal Brownfie	elds sites							
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONME	NTAL RECORD	<u>s</u>						
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / S Waste Disposal Sites	Solid							
SWRCY INDIAN ODI DEBRIS REGION 9 ODI IHS OPEN DUMPS	0.500 0.500 0.500 0.500 0.500		0 0 0 0	0 0 0 0	0 0 0 0	NR NR NR NR NR	NR NR NR NR NR	0 0 0 0
Local Lists of Hazardous Contaminated Sites	s waste /							
US HIST CDL PRIORITYCLEANERS FI Sites US CDL PFAS	TP 0.500 1.000 TP 0.500		NR 0 0 NR 0	NR 0 0 NR 0	NR 0 0 NR 0	NR NR 0 NR NR	NR NR NR NR NR	0 0 0 0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency F	Release Repoi	rts						
HMIRS SPILLS SPILLS 90 SPILLS 80	TP TP TP TP		NR NR NR NR	NR NR NR NR	NR NR NR NR	NR NR NR NR	NR NR NR NR	0 0 0 0
Other Ascertainable Rec	ords							
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		Ö	Ö	ő	Ö	NR	ő
SCRD DRYCLEANERS	0.500		0	0	Ō	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS FTTS	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0
MLTS	TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	Ő
HIST FTTS	TP		NR	NR	NR	NR	NR	Ö
DOT OPS	TP		NR	NR	NR	NR	NR	Ö
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
UXO	1.000	4	0	0	0	0	NR	0
ECHO DOCKET HWC	TP TP	1	NR NR	NR NR	NR NR	NR NR	NR NR	1 0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
CLEANUP SITES	TP		NR	NR	NR	NR	NR	Ö
DEDB	0.250		0	0	NR	NR	NR	Ö
DRYCLEANERS	0.250		Ö	Ō	NR	NR	NR	Ō
DWM CONTAM	0.500		0	0	0	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
FL Cattle Dip. Vats	0.250		0	0	NR	NR	NR	0
HW GEN	0.250		0	0	NR	NR	NR	0
RESP PARTY	0.500		0	0	0	NR	NR	0
SITE INV SITES	0.500		0	0	0	NR	NR	0
TIER 2	TP		NR	NR	NR	NR	NR	0
UIC	TP	4	NR	NR	NR	NR	NR	0
NPDES MINES MPDS	TP	1	NR	NR	NR	NR	NR	1
MINES MRDS	TP		NR	NR	NR	NR	NR	0

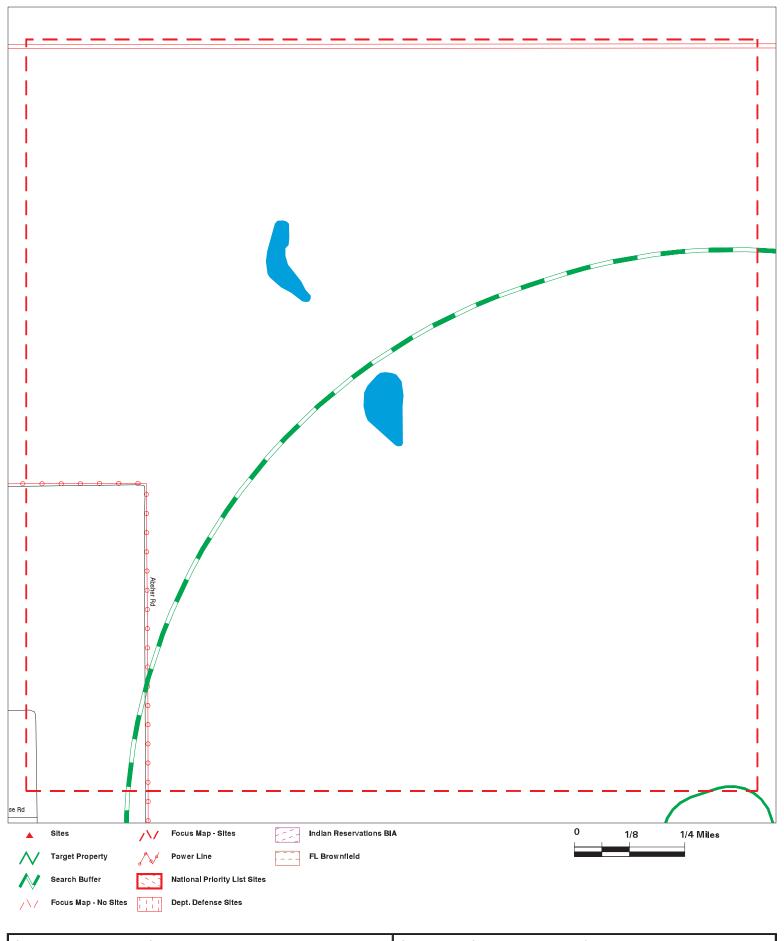
Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR HIGH RISK HISTO	RICAL RECORDS							
EDR Exclusive Recor	ds							
EDR MGP EDR Hist Auto EDR Hist Cleaner EDR RECOVERED GOV	1.000 0.125 0.125 VERNMENT ARCHI	IVES	0 0 0	0 NR NR	0 NR NR	0 NR NR	NR NR NR	0 0 0
Exclusive Recovered	Govt. Archives							
RGA HWS RGA LF RGA LUST	TP TP TP		NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	0 0 0
- Totals		4	0	0	0	0	0	4

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database



SITE NAME: Northeast Connector PD&E ADDRESS: 105 Malabar Road NE

CITY/STATE: Saint Cloud FL ZIP: 34771

Geotechnical & Env. Cons., Inc

CLIENT: Geotechnica CONTACT: Alexis Perry INQUIRY #: 6340100.5s DATE: 01/22/21

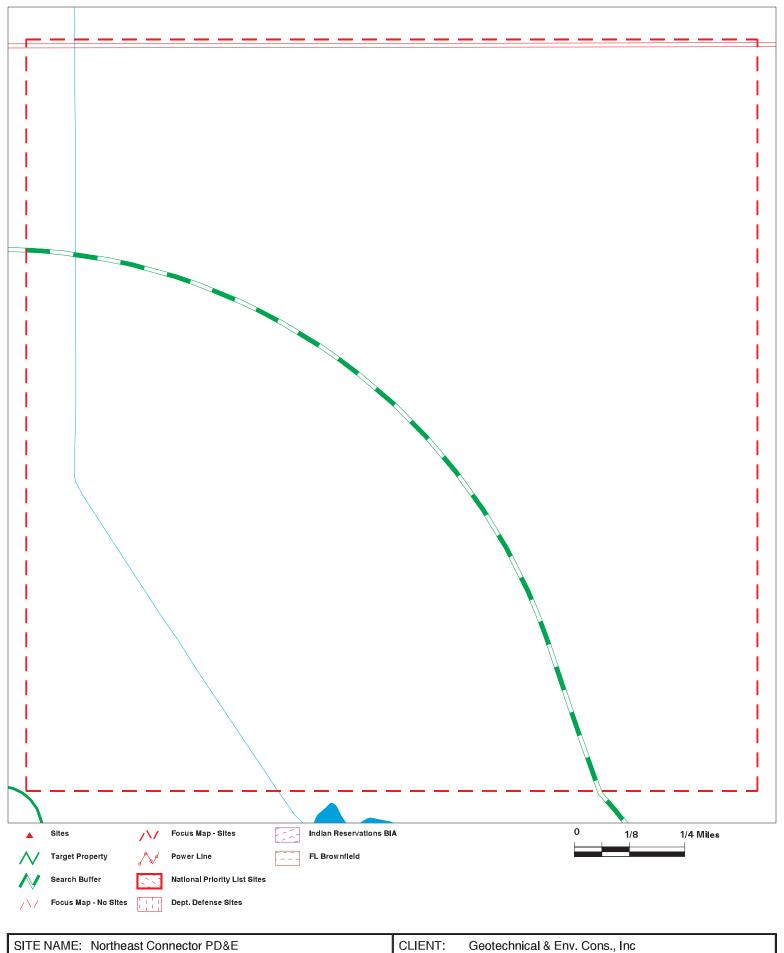
MAPPED SITES SUMMARY - FOCUS MAP 1

Target Property: 105 MALABAR ROAD NE SAINT CLOUD, FL 34771

MAP ID / DIST (ft. & mi.) FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

NO MAPPED SITES FOUND

Focus Map - 2 - 6340100.5s



ADDRESS: 105 Malabar Road NE

CITY/STATE: Saint Cloud FL ZIP: 34771

Geotechnical & Env. Cons., Inc

CLIENT: Geotechnica CONTACT: Alexis Perry INQUIRY #: 6340100.5s DATE: 01/22/21

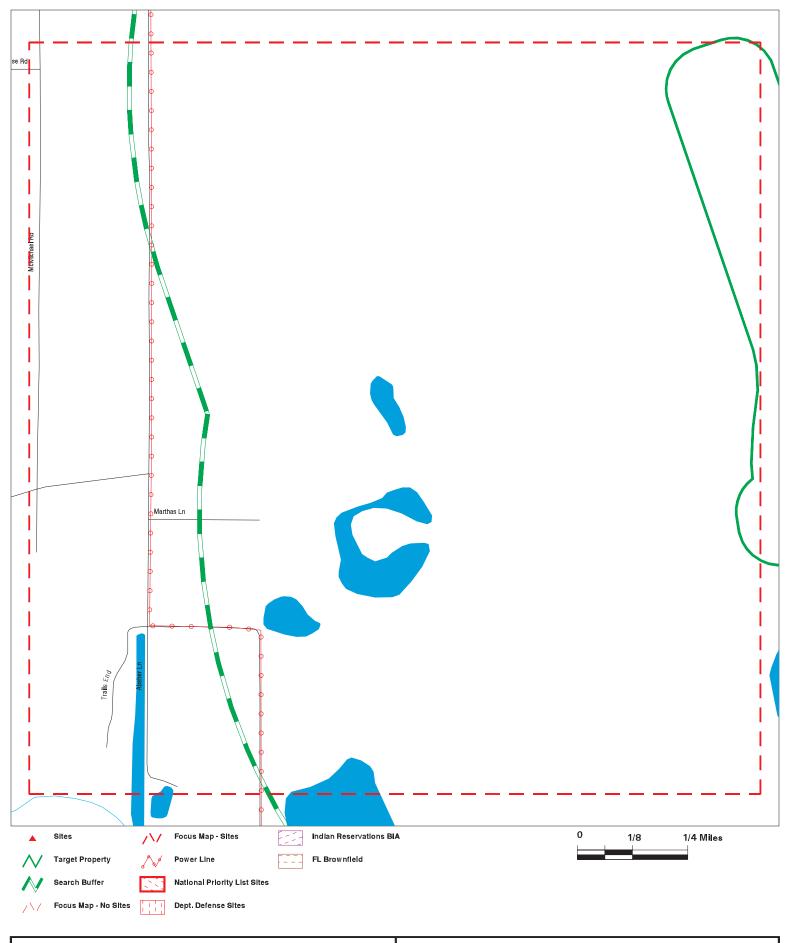
MAPPED SITES SUMMARY - FOCUS MAP 2

Target Property: 105 MALABAR ROAD NE SAINT CLOUD, FL 34771

MAP ID / DIST (ft. & mi.) FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

NO MAPPED SITES FOUND

Focus Map - 3 - 6340100.5s



SITE NAME: Northeast Connector PD&E ADDRESS: 105 Malabar Road NE

CITY/STATE: Saint Cloud FL ZIP: 34771

Geotechnical & Env. Cons., Inc

CLIENT: Geotechnica CONTACT: Alexis Perry INQUIRY #: 6340100.5s DATE: 01/22/21

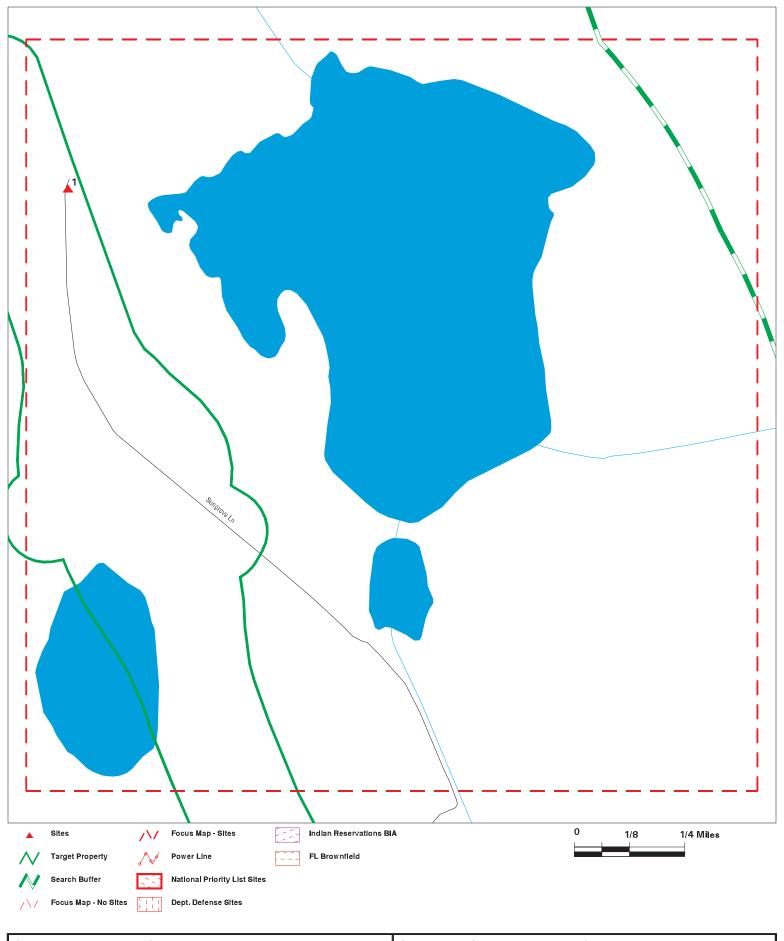
MAPPED SITES SUMMARY - FOCUS MAP 3

Target Property: 105 MALABAR ROAD NE SAINT CLOUD, FL 34771

MAP ID / DIST (ft. & mi.) FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

NO MAPPED SITES FOUND

Focus Map - 4 - 6340100.5s



SITE NAME: Northeast Connector PD&E ADDRESS: 105 Malabar Road NE

CITY/STATE: Saint Cloud FL ZIP: 34771

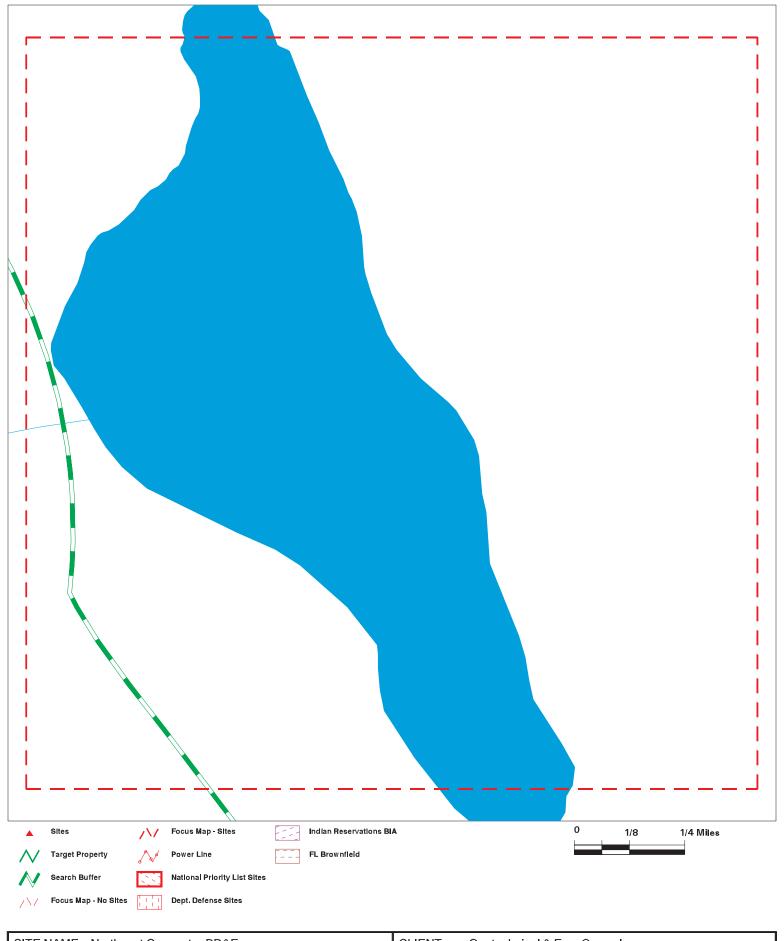
Geotechnical & Env. Cons., Inc

CLIENT: Geotechnica CONTACT: Alexis Perry INQUIRY #: 6340100.5s DATE: 01/22/21

MAPPED SITES SUMMARY - FOCUS MAP 4

Target Property: 105 MALABAR ROAD NE SAINT CLOUD, FL 34771

MAP ID /				DIST (ft. & mi.)
FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIRECTION
1 / 4	SUNGROVE UTILITY TRA		NPDES	TP



SITE NAME: Northeast Connector PD&E ADDRESS: 105 Malabar Road NE

CITY/STATE: Saint Cloud FL ZIP: 34771

Geotechnical & Env. Cons., Inc

CLIENT: Geotechnica CONTACT: Alexis Perry INQUIRY #: 6340100.5s DATE: 01/22/21

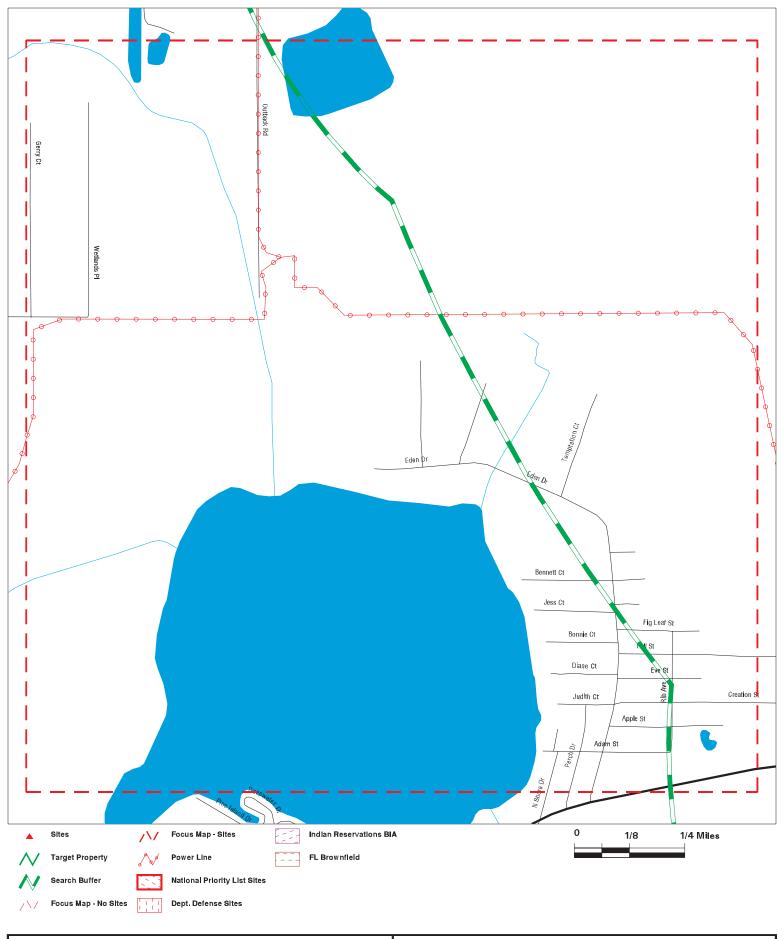
MAPPED SITES SUMMARY - FOCUS MAP 5

Target Property: 105 MALABAR ROAD NE SAINT CLOUD, FL 34771

MAP ID / DIST (ft. & mi.) FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

NO MAPPED SITES FOUND

Focus Map - 6 - 6340100.5s



SITE NAME: Northeast Connector PD&E ADDRESS: 105 Malabar Road NE

CITY/STATE: Saint Cloud FL ZIP: 34771

Geotechnical & Env. Cons., Inc

CLIENT: Geotechnica CONTACT: Alexis Perry INQUIRY #: 6340100.5s DATE: 01/22/21

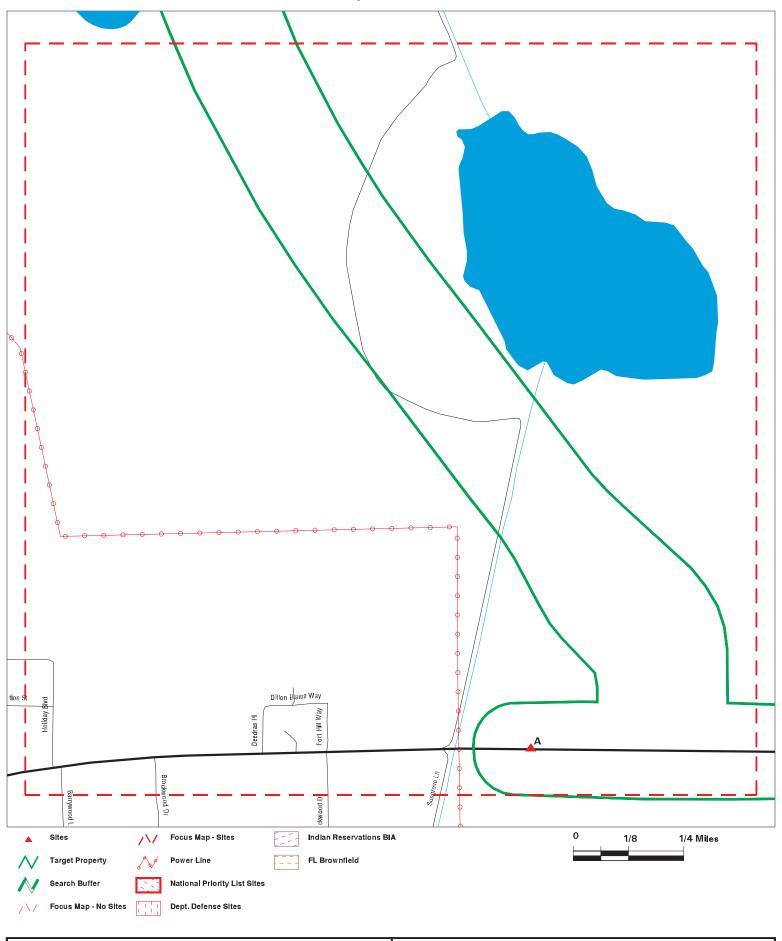
MAPPED SITES SUMMARY - FOCUS MAP 6

Target Property: 105 MALABAR ROAD NE SAINT CLOUD, FL 34771

MAP ID / DIST (ft. & mi.) FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

NO MAPPED SITES FOUND

Focus Map - 7 - 6340100.5s



SITE NAME: Northeast Connector PD&E ADDRESS: 105 Malabar Road NE

CITY/STATE: Saint Cloud FL ZIP: 34771

Geotechnical & Env. Cons., Inc

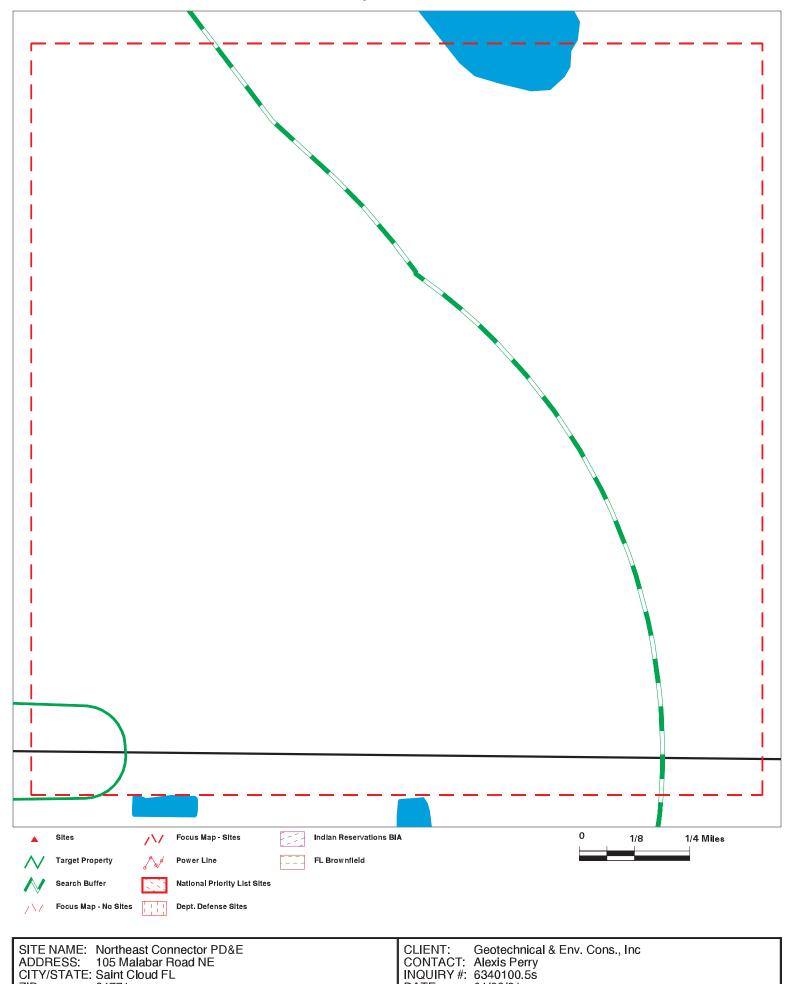
CLIENT: Geotechnica CONTACT: Alexis Perry INQUIRY #: 6340100.5s DATE: 01/22/21

MAPPED SITES SUMMARY - FOCUS MAP 7

Target Property: 105 MALABAR ROAD NE SAINT CLOUD, FL 34771

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
A2 / 7	SERVICE TRANSPORT, I	6995 NOVA RD	FINDS, ECHO	TP
A3 / 7	SERVICE TRANSPORT, I	6995 NOVA RD	RCRA-VSQG	TP

Focus Map - 8 - 6340100.5s



ZIP:

34771

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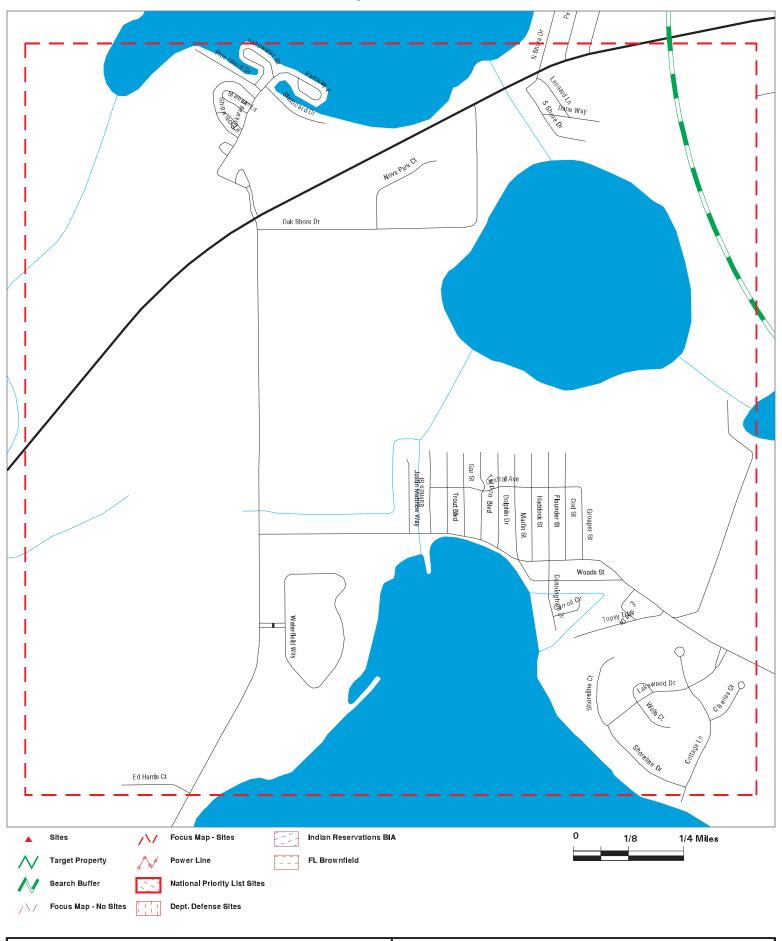
01/22/21

DATE:

Target Property: 105 MALABAR ROAD NE SAINT CLOUD, FL 34771

MAP ID / DIST (ft. & mi.) FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

Focus Map - 9 - 6340100.5s



SITE NAME: Northeast Connector PD&E ADDRESS: 105 Malabar Road NE

CITY/STATE: Saint Cloud FL ZIP: 34771

Geotechnical & Env. Cons., Inc

CLIENT: Geotechnica CONTACT: Alexis Perry INQUIRY #: 6340100.5s DATE: 01/22/21

Target Property: 105 MALABAR ROAD NE SAINT CLOUD, FL 34771

MAP ID / DIST (ft. & mi.) FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

Focus Map - 10 - 6340100.5s



SITE NAME: Northeast Connector PD&E ADDRESS: 105 Malabar Road NE

CITY/STATE: Saint Cloud FL ZIP: 34771

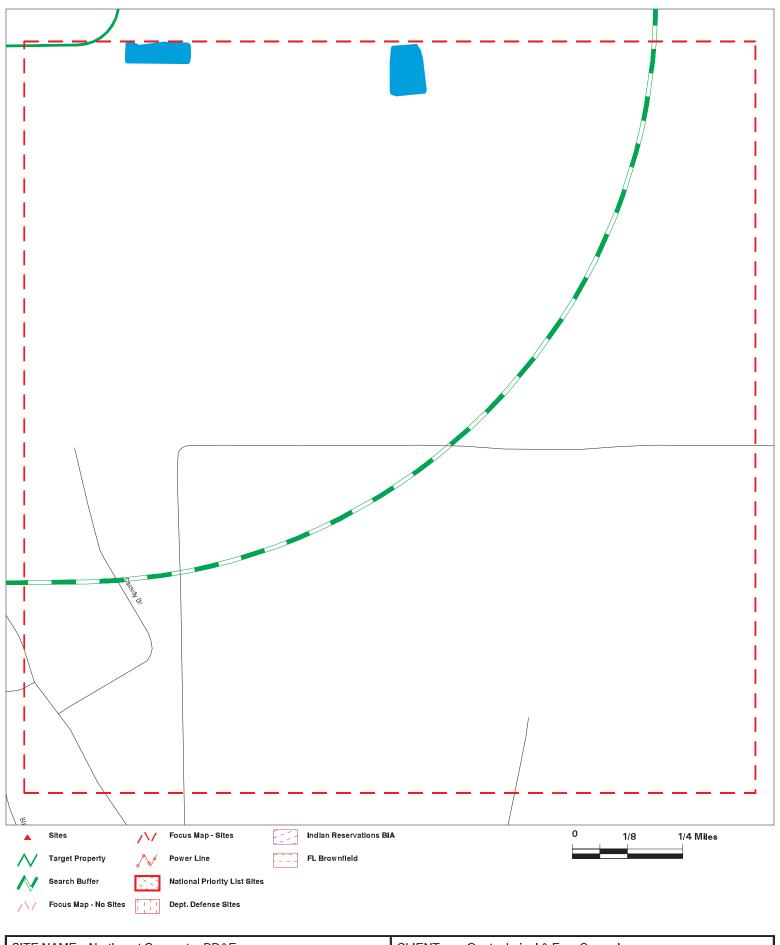
Geotechnical & Env. Cons., Inc

CLIENT: Geotechnica CONTACT: Alexis Perry INQUIRY #: 6340100.5s DATE: 01/22/21

Target Property: 105 MALABAR ROAD NE SAINT CLOUD, FL 34771

MAP ID / DIST (ft. & mi.) FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

Focus Map - 11 - 6340100.5s



SITE NAME: Northeast Connector PD&E ADDRESS: 105 Malabar Road NE CITY/STATE: Saint Cloud FL

ZIP: 34771 Geotechnical & Env. Cons., Inc

CLIENT: Geotechnica CONTACT: Alexis Perry INQUIRY #: 6340100.5s DATE: 01/22/21

Target Property: 105 MALABAR ROAD NE SAINT CLOUD, FL 34771

MAP ID / DIST (ft. & mi.) FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

APPENDIX F

FDEP Database List

The FDEP databases used for this study and their common abbreviations are listed below.

- Florida's State Funded Action Sites (SHWS),
- Florida Sites List (FL Sites),
- State Brownfield Sites Listing (Brownfields),
- Cattle Dip Vats (CDV),
- Ethylene Di-Bromide Database (EDB),
- Dry Cleaners (DRYCLEANERS),
- Priority Cleaners (PRIORITY CLEANERS),
- Dry Cleaning Solvent Program Cleanup Sites (SCRD DRYCLEANERS),
- State & Federal Institutional Controls Registry (ENG CONTROLS),
- State & Federal Institutional Controls Registry (INST CONTROLS),
- Voluntary Cleanup Priority Listing (INDIAN VCP),
- Voluntary Cleanup Sites (VCP),
- Historical Dry Cleaners (EDR HIST CLEANERS),
- Leaking Aboveground Storage Tank Listing (LAST),
- Leaking Underground Storage Tank Listing (LUST),
- Leaking Underground Storage Tanks on Indian Land (INDIAN LUST),
- Underground Storage Tanks on Indian Land (INDIAN UST),
- National Pollution Discharge Elimination System Facilities (NPDES),
- Oil and Hazardous Materials Incidents (SPILLS, SPILLS 80, SPILLS 90),
- Solid Waste Facilities (SWF),
- Underground Storage Tanks (UST),
- Aboveground Storage Tanks (AST),
- Underground Injection Control Wells (UIC),
- Voluntary Cleanup Sites (VCS), and
- NPL and State Funded Waste Cleanup Sites (NPL).

Information regarding the date the databases were last updated are included within the EDR Radius Map Report provided in **Appendix** -. Descriptions of the above-listed Florida databases and information sources are also provided in the EDR report.

APPENDIX G

Federal Database List

Federal databases have been compiled for identifying potential sources of hazardous materials contamination. The databases used for this evaluation include:

- Aerometric Information Retrieval System I Air Facility Subsystem (AIRS),
- Clandestine Drug Laboratory Locations (CDL),
- National Clandestine Laboratory Register (HIST CDL),
- Comprehensive Environmental Response, Compensation & Liability Information System (CERCLIS),
- Delisted National Priorities List (DELISTED NPL),
- Comprehensive Environmental Response, Compensation & Liability Information System No Further Remedial Action Planned (CERC-NFRAP),
- Comprehensive Environmental Response, Compensation & Liability Information System Lien Information (LIENS 2),
- Superfund (CERCLA) Consent Decrees (CONSENT),
- Corrective Action Report (CORRACTS),
- Incident and Accident Data (DOT OPS),
- Engineering Controls Site List (US ENG Controls),
- Sites with Institutional Controls (US INST Controls),
- Land Use Control Information System (LUCIS),
- Federal Facility Site Information Listing (Federal Facility),
- Emergency Response Notification System Facility Registry System (ERNS),
- Hazardous Materials Incident Reporting System (HMIRS),
- Open Dump Inventory (ODI),
- Recycling Centers (SWRCY),
- Government Archives LUST (RGA LUST),
- DWM Contaminated Sites (DWM CONTAM),
- Resource Conservation & Recovery Act- Large Quantity Generators (RCRA LQG),
- Resource Conservation & Recovery Act- Small Quantity Generators (RCRA SQG),
- Resource Conservation & Recovery Act- Generator Conditionally Exempt Small Quantity Generator Facilities (RCRA-CESQG),
- Resource Conservation & Recovery Act- Non- Generator Facilities (RCRA Non Gen),
- Resource Conservation & Recovery Act- Treatment, Storage & Disposal Facilities (RCRA-TSDF),
- Toxic Substance Control Act Inventory (TSCA),
- Open Dump Inventory On Tribal Lands (INDIAN ODI),
- Indian Reservations (INDIAN RESERV),
- Department Of Defense Sites (DOD),
- Formerly Used Defense Sites (FUDS),
- National Priorities List (NPL),

- Proposed National Priorities List (Proposed NPL),
- National Priorities List Liens (NPL Liens),
- Delisted National Priorities List (Delisted NPL),
- Resource Conservation & Recovery Act-Corrective Action Facilities (CORRACTS), and
- Record of Decision System (ROD).

Information regarding the date the databases were last updated are included within the EDR Radius Map Report provided in **Appendix** -. Descriptions of the above-listed federal databases and information sources are also provided in the EDR report.

APPENDIX H

Interview Documentation

Alexis E. Perry

From:

Ruth.Rauenzahn@ocfl.net

Sent:

Friday, February 05, 2021 11:07 AM

To:

Alexis E. Perry

Cc:

Richard P. McCormick

Subject:

Re: Contamination Records Request: NE Connector

Hi Alexis,

I've reviewed FDEP databases and did not find any registered petroleum storage tanks or reported petroleum contamination in your area of interest. The closest sites that I found were 8734359 and 8734364 but they appear to be outside of your area.

Thank you,

Ruth Rauenzahn Storage Tank Compliance Orange County Environmental Protection Division 3165 McCrory Place, Suite 200 Orlando, FL 32803

From: Alexis E. Perry <aeperry@g-e-c.com> Sent: Friday, February 5, 2021 9:57 AM

To: Rauenzahn, Ruth Cc: Richard P. McCormick

Subject: [WARNING: UNSCANNABLE EXTRACTION FAILED]Contamination Records Request: NE Connector

Good Morning Ruth,

I am working on a Contamination Screening Evaluation Report for an area north of Nova Road and east of Narcoossee Road (I have attached a kmz and a photo aerial of the exact location) in Osceola County, Florida. Can you search your databases and let us know if there are any registered tank sites, leaking tank sites, or other contamination concerns? We have consulted the FDEP Map Direct and Oculus websites so anything that wouldn't be seen by those sources would be especially useful.

Thank you,

Alexis E. Perry, E.I.

Engineer Intern



919 Lake Baldwin Lane, Orlando, Florida 32814

Office: 407-898-1818 Ext. 8971

e-mail: aeperry@g-e-c.com www.g-e-c.com

GEC is proud to serve our community as Geotechnical Engineering Consultant on these Central Florida Transportation Legacy Projects: SunRail Phases I and II, Wekiva Parkway, I-4 Ultimate P3 Design Oversight and OIA South Terminal Airside and Landside Infrastructure. GEC is now offering RoadScan GPR for collecting continuous pavement layer thickness data at highway speed. GEC is a certified Small Business Enterprise (SBE) with FDOT.

PLEASE NOTE: Florida has a very broad public records law (F. S. 119). All e-mails to and from County Officials are kept as a public record. Your e-mail communications, including your e-mail address may be disclosed to the public and media at any time.

Total Control Panel Login

To: <u>aeperry@g-e-c.com</u> From: ruth.rauenzahn@ocfl.net Message Score: 1

My Spam Blocking Level: Medium

Medium (75): Pass

Low (90): Pass

High (60): Pass

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Alexis E. Perry

From: Alexis E. Perry

Sent: Friday, February 05, 2021 9:59 AM **To:** Waste.Operations@dep.state.fl.us'

Cc: Richard P. McCormick

Subject: Contamination Records Request: NE Connector

Attachments: Study Area.pdf; 4647E study area.kmz

Good Morning,

I am working on a Contamination Screening Evaluation Report for an area north of Nova Road and east of Narcoossee Road (I have attached a kmz and a photo aerial of the exact location) in Osceola County, Florida. Can you search your databases and let us know if there are any active contamination sites, history of dumping, hazardous material violations, groundwater contamination, or other contamination concerns in this area? We have consulted the FDEP Map Direct and Oculus websites so anything that wouldn't be seen by those sources would be especially useful.

Thank you,

Alexis E. Perry, E.I. Engineer Intern



919 Lake Baldwin Lane, Orlando, Florida 32814

Office: 407-898-1818 Ext. 8971

e-mail: aeperry@g-e-c.com

www.g-e-c.com

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Richard P. McCormick

From:

Richard P. McCormick

Sent:

Tuesday, March 02, 2021 2:56 PM

To:

JD Humpherys

Cc: Subject: Alexis E. Perry RE: Contamination Concerns: NE Connector

JD - will we be able to get access to inspect it? Next week maybe?

Richard P. McCormick, P.G. Chief Geologist / Vice President



Geotechnical and Environmental Consultants, Inc.

Direct: (321) 352-8975 Cell: (407) 267-7314

Email: Rpmccormick@g-e-c.com
Website: www.g-e-c.com

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From: JD Humpherys <jdh@slreserve.com> Sent: Tuesday, March 02, 2021 2:52 PM

To: Richard P. McCormick <rpmccormick@g-e-c.com>

Cc: Alexis E. Perry <aeperry@g-e-c.com>

Subject: RE: Contamination Concerns: NE Connector

Richard,

The structure was recently brought to my attention so I visited the site last week and located it. The concrete structure is still there and is visible above ground. The CDV was not located by previous Phase 1 studies.

JD Humpherys | Asset Manager | SUBURBAN LAND RESERVE, INC.

460 Carriage Rd. | Satellite Beach, FL 32937 | C: 321-403-1326 | F: 801-320-4604 | E: jdh@SLReserve.com

Corporate Address: 51 South Main, Suite 301, Salt Lake City, Utah 84111-7502

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From: Richard P. McCormick < rpmccormick@g-e-c.com>

Sent: Tuesday, March 2, 2021 2:37 PM
To: JD Humpherys < idh@slreserve.com >
Cc: Alexis E. Perry < aeperry@g-e-c.com >

Subject: RE: Contamination Concerns: NE Connector

Hi JD,

Thanks for your help!

Is there anyone we can talk to about the cattle vat - if it is still there, if it has been assessed or removed, etc.?

Richard P. McCormick, P.G. Chief Geologist / Vice President



Geotechnical and Environmental Consultants, Inc.

Direct: (321) 352-8975 Cell: (407) 267-7314

Email: Rpmccormick@g-e-c.com

Website: www.g-e-c.com

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From: JD Humpherys < jdh@slreserve.com > Sent: Tuesday, March 02, 2021 1:39 PM
To: Alexis E. Perry < aeperry@g-e-c.com >

Cc: Richard P. McCormick < rpmccormick@g-e-c.com Subject: RE: Contamination Concerns: NE Connector

Alexis,

Across from the utility plant and west of Lake Myrtle there are two former burn piles and one cattle dipping vat shown on the map below. There are no other known issues along the rest of the alignment.



JD Humpherys | Asset Manager | SUBURBAN LAND RESERVE, INC.
460 Carriage Rd. | Satellite Beach, FL 32937 | C: 321-403-1326 | F: 801-320-4604 | E: jdh@SLReserve.com
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From: Alexis E. Perry <aeperry@g-e-c.com>
Sent: Monday, March 1, 2021 2:10 PM
To: JD Humpherys <idh@slreserve.com>

Cc: Richard P. McCormick < rpmccormick@g-e-c.com Subject: Contamination Concerns: NE Connector

Good Afternoon JD,

We are working on a Contamination Screening Evaluation Report for the area north of Nova Road and east of Narcoossee Road (I have attached a pdf of the exact location) in Osceola County, Florida. Are you aware of any contamination concerns such as cattle dipping vats, hazardous waste generators, history of dumping, etc. for this area? Specifically, would you have any information on the Fish Camp that is in the vicinity directly adjacent to Lake Myrtle?

Any additional information would be greatly appreciated.

Thank you,

Alexis E. Perry, E.I.

Engineer Intern



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e-mail: aeperry@g-e-c.com

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