

## CONTAMINATION SCREENING EVALUATION REPORT

Florida Department of Transportation

District One

North Sarasota Multimodal Connector PD&E Study

Sarasota, Florida

Financial Management Number: 442034-1

ETDM Number: 14348

Date: July 2022

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by FDOT pursuant to 23 U.S.C. § 327 and a Memorandum of Understanding dated May 26, 2022 and executed by FHWA and FDOT.

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# Executive Summary

On behalf of the Florida Department of Transportation, this Contamination Screening Evaluation was performed to support the North Sarasota Multimodal Connector Project Development and Environment Study in Sarasota County, Florida. The evaluation includes the mainline and three preferred pond site alternatives. The contamination evaluation was performed in accordance with Part 2, Chapter 20 of the Florida Department of Transportation’s Project Development and Environment Manual (July 1, 2020). This report was *revised* based on comments received on July 8, 2022.

Based on this contamination screening evaluation, two contamination sites were identified within the project limits. The following table presents a summary of the risk ratings assigned for each contamination site:

<b>Table 1: Summary of Risk Ratings - Mainline</b>			
High	Medium	Low	No
0	0	1	1

The following table presents a summary of risk ratings assigned for the two preferred pond site alternatives evaluated:

<b>Table 2: Summary of Risk Ratings - Ponds</b>			
High	Medium	Low	No
0	0	0	3

For the No or Low risk ratings, no further action is required. These sites or ponds have been evaluated and determined not to have any contamination risk to the project at this time. No sites or ponds were rated Medium or High. Therefore, Level II testing is not recommended. Level III support is not anticipated. Additional fees associated with contamination support does not appear warranted.

# 1.0 Introduction

## 1.1 Project Description

Sarasota County, in coordination with the Florida Department of Transportation (FDOT), is conducting a Project Development and Environment (PD&E) study to evaluate the proposed North Sarasota Multimodal Connector, a new east-west four-lane roadway and overpass crossing SR 93 (I-75) between the Fruitville Road interchange and the University Parkway interchange in Sarasota County. The new east-west overpass will require improvements along N. Cattlemen Road to accommodate a new intersection. Improvements along N. Cattlemen Road will maintain the existing four-lane divided typical section.

The project is in the Lakewood Ranch area of north Sarasota County. Lakewood Ranch is a 30,000-acre mixed-used master planned development in Sarasota County. The project is within Sections 12 and 13 of Township 36 South Range 18 East and Section 7 of Township 36 South Range 19 East. The project limits cover approximately 0.6 miles. The proposed overpass crosses Interstate-75 (I-75). The project study area and project limits are shown in **Figure 1-1**.

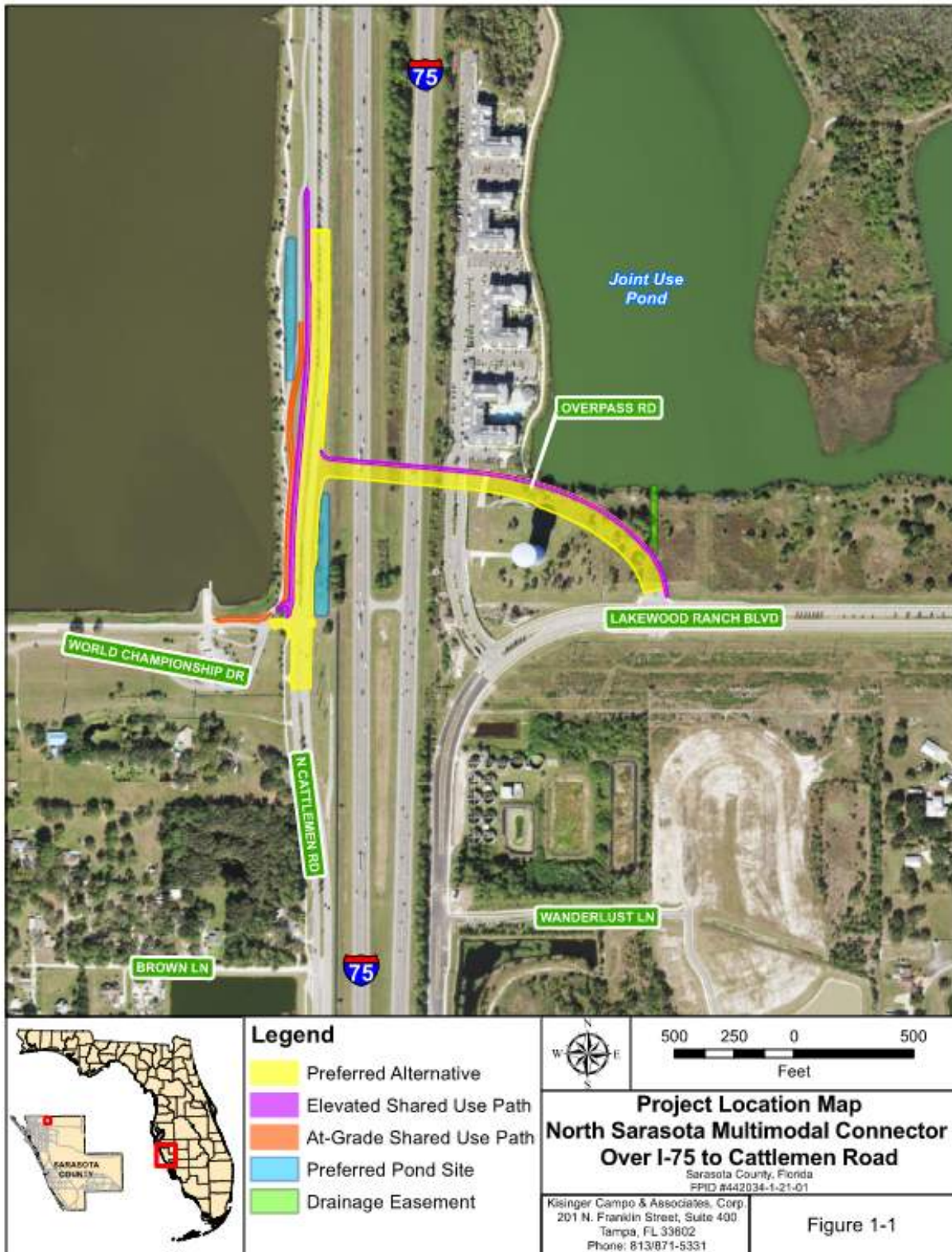
The project was evaluated through FDOT's Efficient Transportation Decision Making (ETDM) process as project #14348. An ETDM *Programming Screen Summary Report* containing comments from the Environmental Technical Advisory Team (ETAT) was published on November 9, 2018. The ETAT evaluated the project's effects on various natural, physical, and social resources. Other components of the PD&E study include a Preliminary Engineering Report (PER), concept plans, environmental studies, a public involvement program and other information for use in the development of this project.

Upon completion, the study will meet all requirements of the National Environmental Policy Act of 1969 (NEPA) as administered by the Federal Highway Administration (FHWA) and the requirements of other federal and state laws so as to qualify the proposed project for federal-aid funding.

## 1.2 Purpose and Need

The purpose of the project is to enhance access to destinations east and west of I-75 and to provide relief of traffic congestion on both Fruitville Road and University Parkway partly attributed to increased traffic demand from existing and planned development in the Lakewood Ranch area. The need for the project is supported by the following criteria.

Figure 1-1: Preferred Alternative Proposed Alignment



### **1.2.1 Improve Transportation Network Connectivity**

Currently there is no efficient access to employment centers and commercial activity in the Lakewood Ranch area and other destinations east and west of I-75 within the vicinity of the project area. Under existing conditions, travelers have access to Lakewood Ranch area and other destinations east and west of I-75 via Fruitville Road and University parkway which are congested, and travelers experience long delays. Traffic analysis documented in the Traffic Technical Memorandum: I-75 Overpass Transportation Impact Assessment (prepared in Feb. 2016; revised in Sept. 2016) suggests that creating a link that connects destinations east and west of I-75 and Lakewood Ranch area would relieve existing and future congestions on Fruitville Road and University Parkway and hence improve accessibility for travelers.

### **1.2.2 Improve Operational Conditions**

Existing and planned developments in the Lakewood Ranch area has increased the travel demand to use Fruitville Road and University Parkway and their interchanges with I-75. According to the traffic analysis summarized in the Traffic Technical Memorandum: I-75 Overpass Transportation Impact Assessment (prepared in Feb. 2016; revised in Sept. 2016), the roadway segments west of the Fruitville Road and University Parkway interchanges with I-75 are currently operating at an unacceptable level of service (LOS) E and are projected to continue to deteriorate in the future.

### **1.2.3 Improve Safety Conditions**

According to crash data obtained from Sarasota County, 278 total crashes, including one fatality, occurred along Fruitville Road from Cattlemen Road to Lakewood Ranch Boulevard between 2016 and 2020. Rear-end and sideswipe crashes were the most frequent crash types along Fruitville Road at 62.59% and 16.55%, respectively. The Actual Crash Rate “ACR” was calculated based on the AADT values of the years 2016 to 2020 and was found to be 3.602 crashes per million vehicles miles driven higher than the 3.144 statewide average for an urban six lane two-way divided roadway. Almost all the crashes (81.7%) occurred at the intersection of Cattlemen Road with traffic congestion being the leading factor. With a large majority of rear-end crashes, it is concluded traffic congestion and the signal timing at Cattlemen Road are the main issue along Fruitville Road.

## **1.3 Existing Facility**

The North Sarasota Multimodal Connector is a new roadway. Within the study area, I-75 consists of eight lanes with a posted speed of 70 miles per hour (mph). The nearest existing east-west roadways crossing I-75 are Fruitville Road (to the south) and University Parkway (to the north). These existing parallel roadways are separated by approximately 3.5 miles and are the only existing roadways accommodating east-west travel across the I-75 limited access right-of-way within the project area.

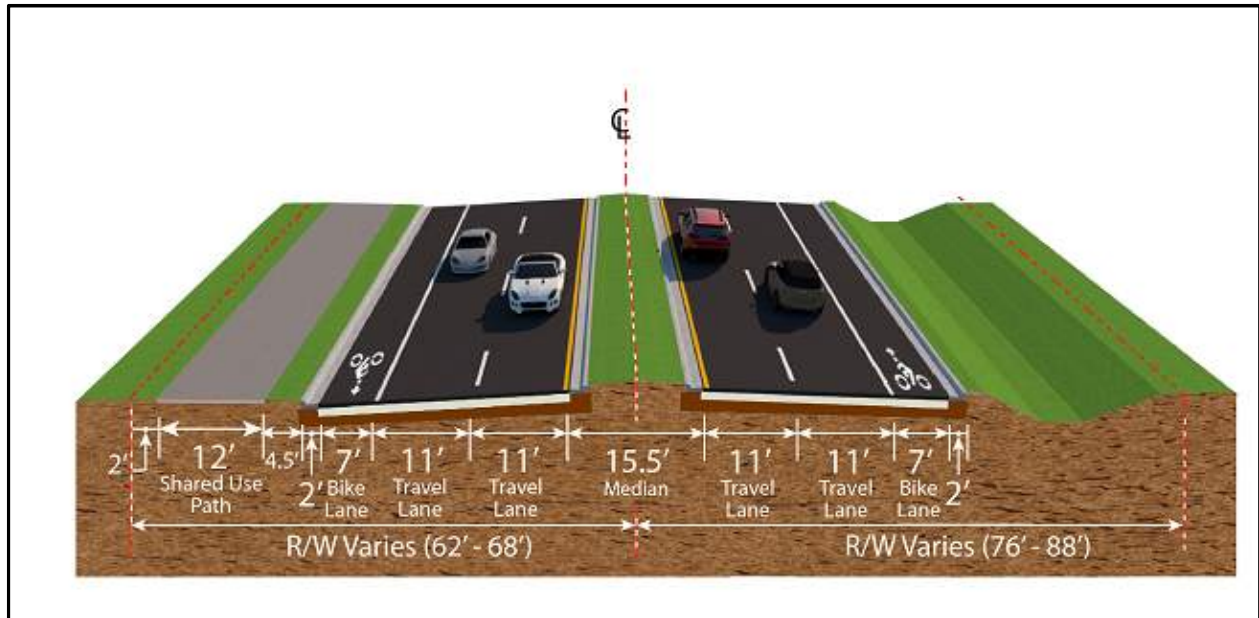
## 1.4 Proposed Action

The proposed action is to construct a new four-lane roadway and overpass with two eastbound and two westbound lanes over I-75 (Overpass Road) connecting Lakewood Ranch Boulevard to Cattlemen Road.

### 1.4.1 Four-lane Typical Section

The Overpass Road section is comprised of four 11-foot travel lanes, two in each direction, two seven-foot bicycle lanes, one in each direction, and a 12-foot shared use path on the north side of the roadway. The proposed roadway is divided by a 15.5-foot grassed median (**Figure 1-2**). The design speed is 40 mph. The total right-of-way width required to accommodate the proposed overpass along this segment varies from 138 feet to 156 feet.

**Figure 1-2: Four-lane At-Grade Typical Section**



### 1.4.2 Four-lane Elevated Typical Section

The North Sarasota Multimodal Connector includes two separate typical sections for the segments of the roadway near the proposed overpass where the vertical alignment separates from natural ground.

The first elevated typical section is for the section along the Overpass Road and includes four 11-foot travel lanes, two in each direction, two seven-foot bicycle lanes, one in each direction, and a 12-foot shared use path on the north side of the roadway. The proposed roadway will be divided by a grassed median varying from seven feet to 15.5 feet in width to transition the roadway to



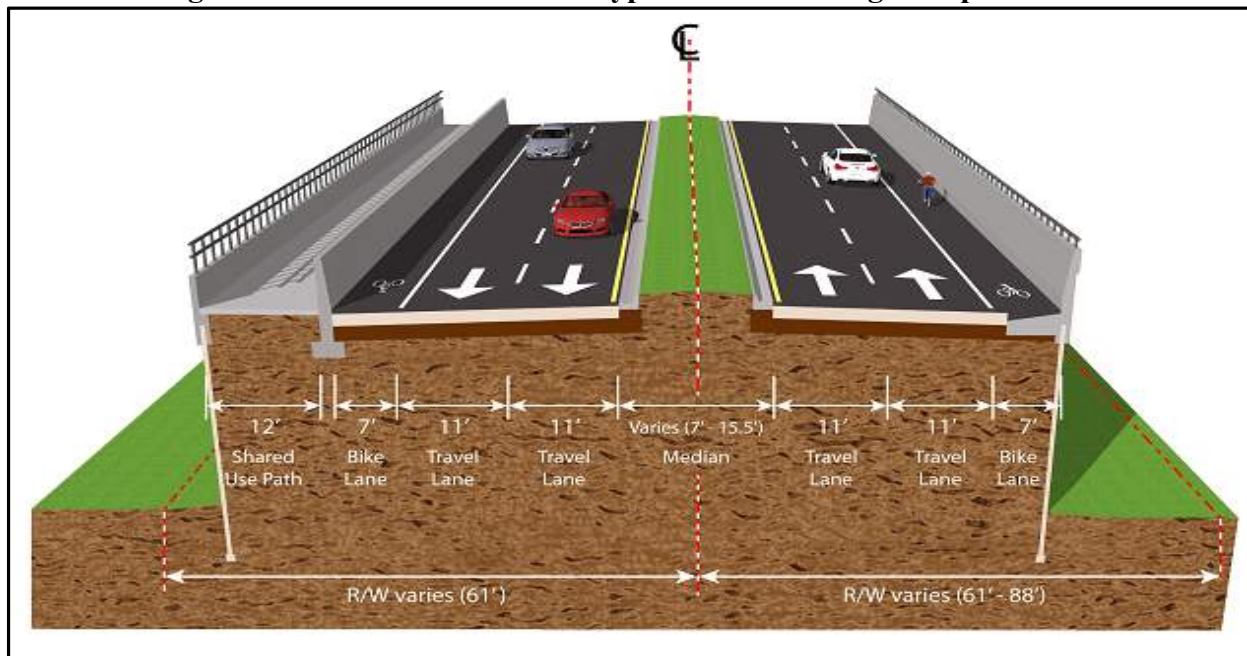
match the proposed bridge typical section (**Figure 1-3**). The design speed is 40 mph. The total right-of-way width required to accommodate the proposed overpass along this segment varies from 122 feet to 149 feet.

The second elevated typical section is along N. Cattlemen Road and includes four 12-foot travel lanes, two in each direction, two five-foot bicycle lanes, one on each direction, and a 15-foot shared use path is provided on the west side of the roadway and is separated from the adjacent bicycle lane by a concrete barrier. The proposed roadway is divided by a 19-foot grassed median (**Figure 1-4**). The design speed is 40 mph.

MSE (Mechanically Stabilized Earth) walls and concrete barrier are proposed where roadway side slopes cannot tie to natural ground within the proposed right-of-way (**Figure 1-3** and **Figure 1-4**).

The proposed 15-foot shared-use path on Cattlemen Road and the 12-foot shared-use path on the Overpass Road will be located along the proposed elevated overpass roadway and will provide a connection between the Nathan Benderson Park and the Lakewood Ranch Development. The existing alignment of the unpaved path and paved Bill Robinson Trail traversing the perimeter of the lake will be modified, as needed, to maintain the 15-foot paved trail.

**Figure 1-3: Four-lane Elevated Typical Section along Overpass Road**

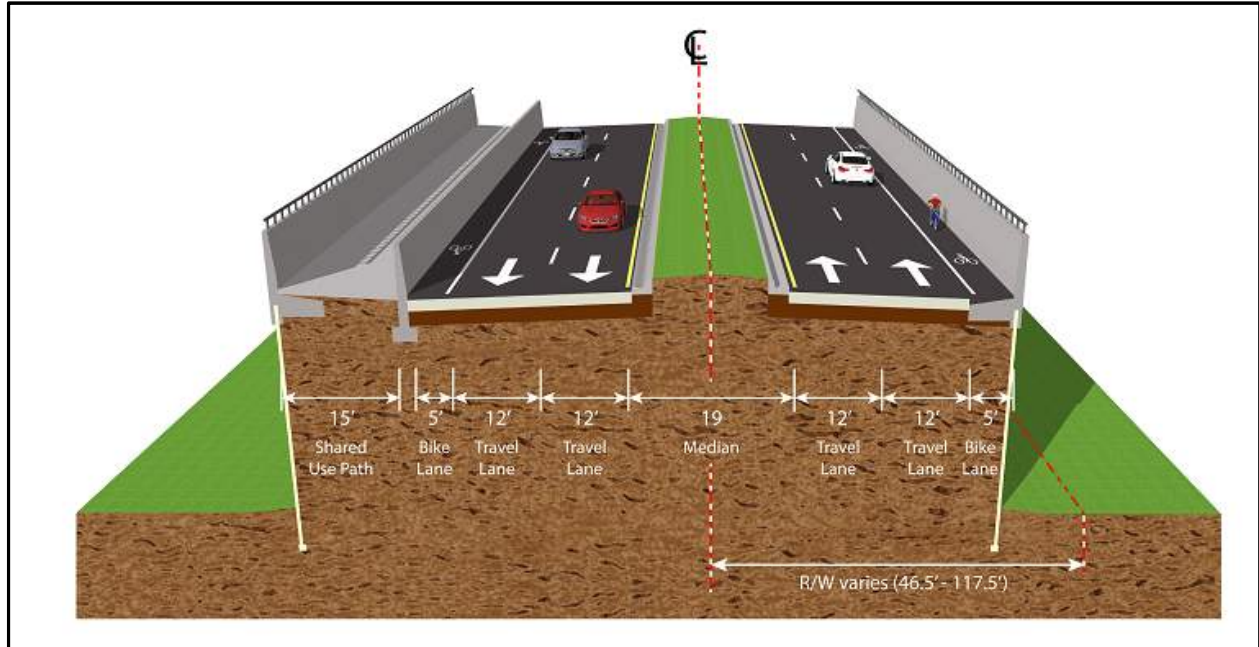


### 1.4.3 Four-lane Bridge Typical Section

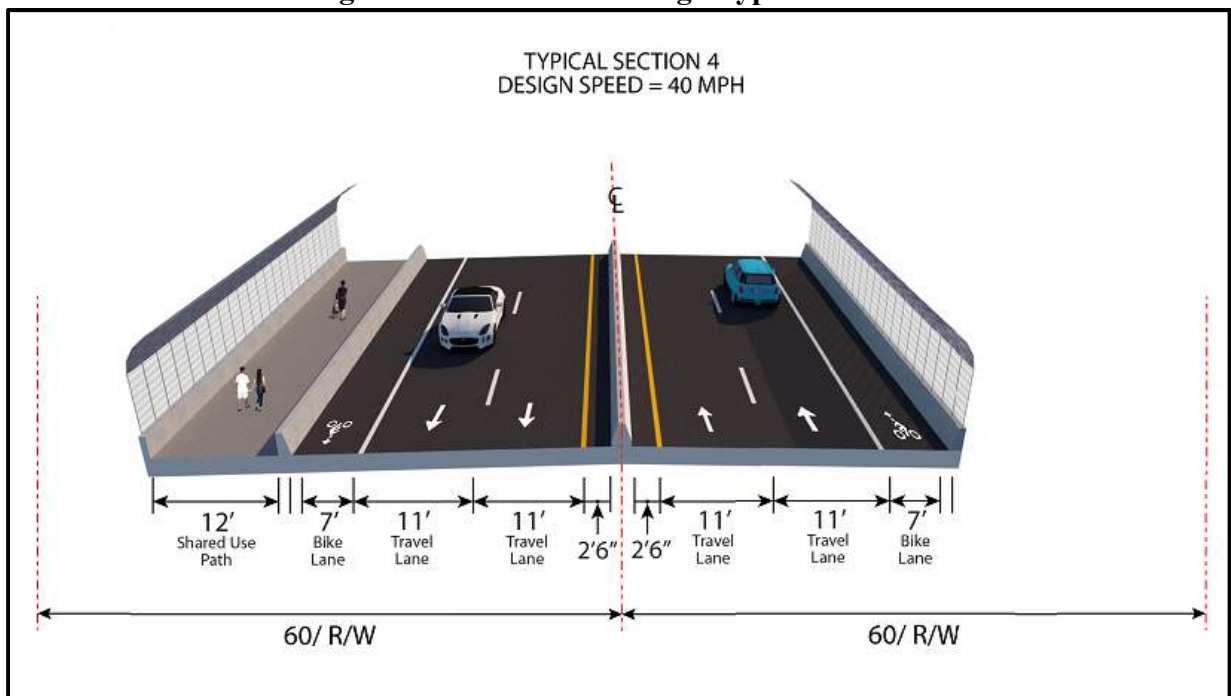
The proposed bridge over I-75 includes four 11-foot travel lanes, two in each direction, and two seven-foot bicycle lanes, one in each direction. A concrete bridge rail and 2.5-foot inside shoulders

separate the opposing travel lanes. A 12-foot shared use path is provided on the north side of the bridge and is separated from the adjacent bicycle lane by a concrete bridge rail. The total bridge width is approximately 83'-1.5" (Figure 1-5).

**Figure 1-4: Four-lane Elevated Typical Section along N. Cattlemen Road**



**Figure 1-5: Four-lane Bridge Typical Section**



## **1.5 Proposed Improvements**

### **1.5.1 No-Build Alternative**

Throughout this study, a “No-Build” (no-action) alternative is also considered. The “No-Build” alternative assumes that the North Sarasota Multimodal Connector over I-75 is not built, but accounts for routine maintenance on existing adjacent roads.

The No-Build Alternative minimizes right-of-way and construction costs along with environmental impacts. However, it does not accomplish the purpose and need for this project.

### **1.5.2 Build Alternative**

Three build alternatives, Build Alternative 1 (South), Build Alternative 2 (Center), and Build Alternative 3 (North) were evaluated. These alternatives applied the typical sections described in **Section 1.4** along three independent alignments connecting N. Cattlemen Road west of I-75 to Professional Parkway or Lakewood Ranch Boulevard east of I-75. With considerations for residential relocations and environmental impacts, Build Alternative 2 was selected as the Preferred Alternative. A detailed alternatives analysis and concept plans are included in the PER prepared under separate cover.

## **1.6 Proposed Pond Sites**

There are 3 preferred stormwater management facilities (SMF) associated with the Preferred Alternative described above. Two SMF’s are located on the west side of the overpass along N. Cattlemen Road. Stormwater will also be treated in the existing joint-use facility directly northeast of the overpass. There will be an easement from the roadway to this joint-use facility. All drainage improvements are within the project study area.

## **1.7 Purpose of Report**

This Contamination Screening Evaluation Report was prepared to support the PD&E study and was performed in accordance with Part 2, Chapter 20 of the FDOT’s PD&E Manual (July 1, 2020). Contamination within or adjacent to the right-of-way (ROW), or at drainage sites, has the potential for liability and may require assessment, remediation, or special handling. This report considers the potential for encountering contamination within the limits of the project and to a search distance of up to 500 feet, thereby providing information to understand the type and extent of contamination issues that may impact construction. Properly addressing contamination issues can reduce costs and risks to FDOT.

## 2.0 Project Alternatives

A single concept for the Multimodal Connector was evaluated. No other concepts were evaluated herein.

## 3.0 Methodology

A contamination screening was conducted to identify contamination issues from properties or operations located within the vicinity of the project. This evaluation consisted of the following tasks:

- Aerial photographs were reviewed to develop a history of the previous land uses within the study area and to identify sites which may have historical uses that pose contamination concerns. Aerial photographs 1948, 1957, 1969, 1977, 1985, 1994, 1995, 1998, 2004-2010, 2012-2014, and 2016-2020 were reviewed from the University of Florida, Florida Department of Transportation (FDOT) Survey & Mapping, and Google Earth databases. A summary of our review is discussed in **Table 3** and **Table 4**. A copy of the 2017 aerial photograph is presented in **CSER Appendix A**. Copies of select historical aerial photographs are presented in **CSER Appendix B**.
- Topographic map review using imagery available from the United States Geological Survey (USGS) website. Topographic maps can be useful identifying contamination concerns such as railroads, mines, bulk storage tanks, and landfills/disturbed lands. Additionally, land use and water features, including elevation contours can be identified on topographic maps. The USGS 7.5-Minute “Bee Ridge, Florida” Quadrangle were reviewed as part of this study. The topographic map is provided in **CSER Appendix C**.
- Sarasota County Property Appraiser database information was reviewed for suspect contamination sites where other resources may not have provided ample information regarding the site, or to determine addresses, parcel boundaries and other pertinent information.
- An environmental database search using Environmental Data Management, Inc. (EDM) was conducted on February 23, 2021 to identify sites, facilities or listings within the study area containing documented or suspected petroleum contamination or other hazardous materials. The EDM report is used as a preliminary screening tool to identify facilities that are registered with various county, state, and federal agencies. This evaluation utilizes the search distances as specified in Part 2, Chapter 20 of the FDOT’s PD&E Manual. The search distances are as follows:
  - 500 feet from the ROW line for petroleum, drycleaners, non-petroleum sites, solid waste sites (such as landfills, recycling facilities, transfer stations, and debris placement areas), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) sites, and National Priorities List (NPL) Superfund sites.

- The regulatory review of federal and state environmental records utilizes an integrated geographic information system database. The database report provides geocoded and non-geocoded regulatory listings of interest that are identified within the study area. Each listing is located by address, facility identification number and field verified where possible. All are reviewed for the potential of contamination to impact the project. The reviewed records include information compiled by the United States Environmental Protection Agency (EPA), the Florida Department of Environmental Protection (FDEP), and other various reporting programs, as identified in EDM’s report. A complete list of all regulatory record databases searched is included in the environmental database search report, provided in **CSEER Appendix D**. The facilities identified in the EDM report are evaluated in **Section 7.0**.
- Performed a site reconnaissance to identify new and/or undocumented contamination sites, and to verify locations of documented contamination sites. Select photographs are provided in **CSEER Appendix E**.
- Assigned risk ratings for each contamination site after evaluating the findings of each of the previously mentioned methodologies. The rating system defined in PD&E Manual is divided into four categories of risk which express the degree of concern for contamination problems. The four degrees of risk ratings are “No,” “Low,” “Medium,” and “High” and are defined as follows:

No Risk Site

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.

Low Risk Site

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.

Medium Risk Site

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.

#### High Risk Site

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 ROW acquisition or have other potential transfer of contamination related liability to the FDOT.

While not specifically discussed in Chapter 20 as a basis for a “Medium” or “High” risk rating, sites located within 500 feet of the project limits also receive these ratings when identified as “contaminated” by state and/or federal regulatory agencies due to the documented presence of unremediated impacts onsite and/or offsite of the site’s property boundaries. This rating is assigned in consideration of a dewatering permit that may be necessary under the National Pollutant Discharge Elimination System (NPDES) program. In addition to sites identified as contaminated, there are often sites that do not appear on state and/or federal regulatory agency databases as “contaminated” but have remaining soil and/or groundwater impacts detailed in documents such as a Site Rehabilitation Completion Order (SRCO) or a restrictive covenant. Sites of this nature also receive a risk rating of “Medium” or “High.”

## 4.0 Land Uses

Determination of previous land uses and occupancies is an important factor when evaluating the potential for contamination involvement. Developing a history of the project and surrounding areas can assist in determining the potential for releases or discharges of hazardous materials or petroleum products. To determine land uses for this project, a site reconnaissance was performed along with a review of historical aerial photographs and topographic maps.

### 4.1 Site Reconnaissance

A site visit was conducted in March 2021 to evaluate each property within and in close proximity to the project for contamination concerns. The site reconnaissance in conjunction with the desktop review allow the sites to be rated as to the degree of contamination concern as discussed in **Section 3.0**. The reconnaissance included a systematic inspection of each parcel along the project and surrounding areas looking for signs of contamination. This was achieved by driving, where possible, the project and walking the parcels within and surrounding the project (where accessible) to gain specific information regarding the usage and condition of each contamination site. Photographs of the project were taken during the site inspection. Select images are presented in **Appendix E**.

Some of the typical physical indicators for contamination concerns include: railroad tracks, fill ports and vent pipes associated with underground storage tanks (USTs); oil/petroleum staining; drums; chemical containers; refuse; illicit dumping; solid waste; stressed vegetation; dry cleaning facilities; material handling from adjacent businesses; petroleum dispensers; excavated areas; agricultural use; chemical mix/load areas; stormwater outfall areas; surface water indicators; groundwater monitor wells, restricted area/contamination/hazardous material/petroleum pipeline signage, cattle dip vats and other property uses that may present contamination concerns.

During the site reconnaissance performed in March 2021, Tierra noted existing I-75, Cattlemen Road and Lakewood Ranch Boulevard roadways. The area to the east of I-75 was comprised of partially wooded grassland and roadway (entrance to nearby apartment complex). A picnic area with a gazebo was noted within proposed ROW, located approximately 250 feet north of the Lakewood Ranch Boulevard project limit. No contamination concerns were noted. The area to the west of I-75 was noted as existing Cattlemen Road roadway/ROW and Nathan Benderson Park trails. A generator with integral aboveground storage tank (AST) (Site 1) was noted within I-75 ROW, approximately 330 feet south of proposed ROW.

A description of field observations for each contamination site is provided in **Section 7.0**.



## 4.2 Historical Aerial Photograph Review

Aerial photographs dated 1948, 1957, 1969, 1977, 1985, 1994, 1995, 1998, 2004-2010, 2012-2014, and 2016-2020 were reviewed from the University of Florida, FDOT Survey & Mapping, and Google Earth online databases. A summary of our review is discussed in **Table 3** below. A copy of the 2017 aerial photograph is presented in **Appendix A**. Copies of select historical aerial photographs are presented in **Appendix B**.

Additional site-specific current land use details regarding facilities/sites of concern are included in **Section 7.0**.

TABLE 3: AERIAL PHOTOGRAPH REVIEW - MAINLINE		
Year	Comment	Contamination Concerns
1948-1969	Generally, the land within and surrounding the project is comprised of undeveloped land including pasture, low-lying wet areas, and woodlands.	No concerns noted
1977	Mining activities are visible throughout the majority of the project, presumably associated with SMR Aggregates/Quality Aggregates, Inc (Site 2).	Mined land (SMR Aggregates/Quality Aggregates, Inc) (Site 2)
1985	I-75 is added in the central portion of the project. Lakewood Ranch Boulevard is added to the east of I-75. It appears that mining operations in the vicinity of the project have ceased.	No new concerns noted
1994-1995	No noteworthy changes noted.	No new concerns noted
1998	A water tower is added in the vicinity of the project to the east of I-75.	No new concerns noted
2004	A recreation/picnic area is added within proposed ROW to the north of the Lakewood Ranch Boulevard project limit.	No new concerns noted
2005-2010	No noteworthy changes noted.	No new concerns noted
2012	Construction of Cattlemen Road is apparent to the west of I-75.	No new concerns noted
2013	Cattlemen Road construction completed. Trails associated with Nathan Benderson Park now visible paralleling Cattlemen Road.	No new concerns noted
2014	No noteworthy changes noted.	No new concerns noted
2016	Earthwork is visible within the I-75 median.	No new concerns noted
2017	Construction of Lakewood Ranch Boulevard is visible to the east of I-75	No new concerns noted
2018-2019	Construction of apartments and paved entranceway visible to the east of I-75.	No new concerns noted
2020	Lakewood Ranch Boulevard is extended south. The area generally appears as it does today.	No new concerns noted

TABLE 4: AERIAL PHOTOGRAPH REVIEW - PONDS	
Pond Alternative	Land Use
SMF 1B	Undeveloped land from 1948 to 1969. Mined land/soil stockpile (Site 2) onsite in 1977. Cattlemen road ROW beginning 2013.
SMF 2B	Undeveloped land from 1948 to 1969. Mined land/soil stockpile (Site 2) onsite in 1977. Nathan Benderson Park trail drainage pond beginning 2013.
Lake A / Joint Use Pond and Outfall	Lake A: Undeveloped land, low, wet areas and trails from 1948 to 1969. Mined land/soil stockpiles (Site 2) onsite in 1977. Manmade lake since 1985. Outfall: Undeveloped land, and trails from 1948 to 1969. Clearing/earthwork at southern edge of mined land in 1977. Undeveloped land and trails since 1985.

Contamination concerns noted during the review of historical aerial photographs are further discussed in **Section 7.0**.

### 4.3 USGS Topographic Map Review

Topographic maps are reviewed to develop an understanding of previous land uses in the study area and to identify any areas that may show historical, natural and manmade features, which aid in determining contamination concerns. Copies of the topographic maps reviewed are provided in **Appendix C**. A summary of our review of the USGS 7.5-Minute “Bee Ridge, Florida” Quadrangle dated 1973, photorevised 1987 topographic map is discussed below.

Review of the topographic map depicts the majority of the land use within and surrounding the project (including pond sites) as mined land (**Section 7.0, Table 5, Site #2**). I-75 is shown in its current alignment. The mined land was initially identified during the review of aerial photographs, confirmed during review of topographic maps, and is further discussed in **Section 7.0**.

## **5.0 Hydrologic Features**

### **5.1 Aquifers of Florida**

The Floridan aquifer is found throughout Florida and extends into the southern portions of Alabama, Georgia, and South Carolina. This aquifer system is comprised of a sequence of limestone and dolomite, which thickens from about 250 feet in Georgia to about 3000 feet in south Florida. The Floridan aquifer system has been divided into an upper and lower aquifer separated by a unit of lower permeability. The upper Floridan aquifer is the principal source of water supply in most of north and central Florida. In the southern portion of the state, where it is deeper and contains brackish water, the aquifer has been used for the injection of sewage and industrial waste. Groundwater flow is generally from high elevations within the central portion of the state towards the east and west coasts.

The surficial aquifer system in Florida includes any otherwise undefined aquifers that are present at land surface. The surficial aquifer is mainly used for domestic, commercial, or small municipal supplies. The surficial aquifer system is generally under unconfined, or water table conditions and is made up of mostly unconsolidated sand, shelly sand, and shell. The aquifer thickness is typically less than 50 feet. Groundwater in the surficial aquifer generally flows from areas of higher elevation towards the coast or streams where it can discharge as base flow. Water enters the aquifer from rainfall and exits as base flow to streams, discharge to the coast, evapotranspiration, and downward recharge to deeper aquifers.

### **5.2 Hydrology – Site Reconnaissance**

During the site reconnaissance, existing surface drainage appears to be infiltration and runoff generally towards surrounding manmade drainage features, including the existing Lake A (Joint Use Pond).

## 6.0 Interviews

No interviews were needed or performed for this CSER.

## 7.0 Project Impacts

Based on the methodologies performed, two contamination sites were identified within the study area which may impact the proposed improvements. These are discussed in **Table 5**. A discussion of the preferred ponds sites is provided in **Table 6**. The location of the contamination/pond sites are illustrated in **Appendix A**.

TABLE 5: MAINLINE CONTAMINATION SITES						
Site Number	Site Name & Address	Databases/ Facility ID	Distance to proposed ROW	Contaminants of Concern	Risk Rating	Comments
1	<b>Generator with Integral AST I-75 ROW</b>	Site Reconnaissance	330 feet south	Petroleum	No	During the site reconnaissance, a generator with integral AST was observed within I-75 ROW approximately 330 feet south of proposed ROW. No indications of a release or other contamination concerns were noted. No regulatory files were identified for this site. Due to the separation distance and lack of contamination concerns, this site is assigned a risk rating of No.
2	<b>Formerly Mined Land (SMR Aggregates/Quality Aggregates, Inc)</b>	Aerial photography, topographic map Facility ID (tanks): 8628329, 8628325	onsite	Petroleum	Low	Mining operations were identified during the review of topographic maps and aerial photography dated 1977 ( <b>CSER Appendix B, Sheet B-4</b> ). No structures associated with the mine were noted within 500 feet of the project during the review of aerial photography and topographic maps. According to information found on the FDEP Map Direct database, the mining activities were associated with a company formerly named Quality Aggregates/SMR Aggregates. Location information included in the storage tank files indicate that all petroleum tanks associated with the mining operation were located beyond 500 feet from this project. Aggregate mining does not typically utilize hazardous materials or generate hazardous waste as a byproduct. Due to the benign nature of the former aggregate mining activities, this site is assigned a risk rating of Low.

TABLE 6: PROJECT IMPACTS - PONDS		
Pond Site	Risk Rating	Comments
SMF 1B	No	<p><b>Current Land Use:</b> During the site reconnaissance, this pond site was observed as Cattlemen Road ROW. Surrounding areas include I-75 to the east, Cattlemen Road roadway/ROW to the north, south, and west.</p> <p><b>Contamination Concern(s):</b></p> <p><b>Site #2: Formerly Mined Land (SMR Aggregates/Quality Aggregates, Inc), located within the boundaries of SMF 1B</b> – Mining operations were identified during the review of topographic maps and aerial photography dated 1977 (<b>CSER Appendix B, Sheet B-4</b>). No structures associated with the mine were noted within 500 feet of the project during the review of aerial photography and topographic maps. Location information included in the storage tank files indicate that all petroleum tanks associated with the mining operation were located beyond 500 feet from this pond site. Aggregate mining does not typically utilize hazardous materials or generate hazardous waste as a byproduct. Due to the benign nature of the former aggregate mining activities, this site is considered a low risk to this pond site.</p> <p><b>Risk rating:</b> No contamination concerns were identified, therefore pond SMF 1B is assigned a risk rating of No.</p>
SMF 2B	No	<p><b>Current Land Use:</b> During the site reconnaissance, this pond site was observed as a dry retention pond. Surrounding areas include Cattlemen Road roadway/ROW to the east, and Nathan Benderson Park to the north, south, and west.</p> <p><b>Contamination Concern(s):</b></p> <p><b>Site #2: Formerly Mined Land (SMR Aggregates/Quality Aggregates, Inc), located within the boundaries of SMF 2B</b> – Mining operations were identified during the review of topographic maps and aerial photography dated 1977 (<b>CSER Appendix B, Sheet B-4</b>). No structures associated with the mine were noted within 500 feet of the project during the review of aerial photography and topographic maps. Location information included in the storage tank files indicate that all petroleum tanks associated with the mining operation were located beyond 500 feet from this pond site. Aggregate mining does not typically utilize hazardous materials or generate hazardous waste as a byproduct. Due to the benign nature of the former aggregate mining activities, this site is considered a low risk to this pond site.</p> <p><b>Risk rating:</b> No contamination concerns were identified, therefore Pond SMF 2B is assigned a risk rating of No.</p>
Lake A (Joint Use Pond) and Outfall	No	No excavation or modifications are anticipated for the existing Lake A (Joint Use Pond). No construction impacts are anticipated. Although excavation is anticipated for the outfall and drainage basin, no contamination concerns were noted. This site is assigned a risk rating of No.

# 8.0 Conclusions and Recommendations

## 8.1 Conclusions

Based on this contamination screening evaluation, two contamination sites were identified within the project limits. The following table presents a summary of the risk ratings assigned for each contamination site:

Table 7: Summary of Risk Ratings - Mainline			
High	Medium	Low	No
0	0	1	1

The following table presents a summary of risk ratings assigned for the three preferred pond site alternatives evaluated:

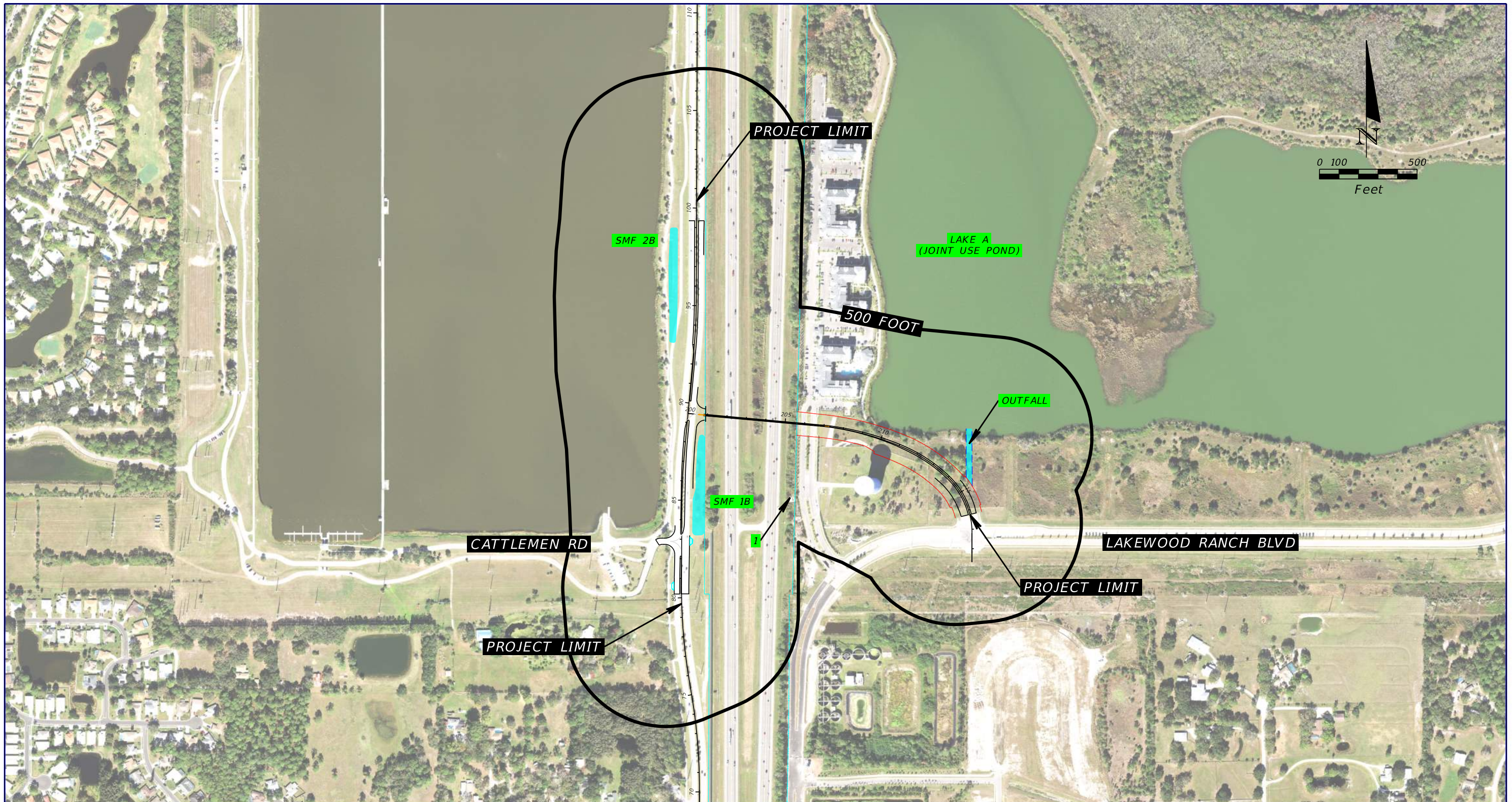
Table 8: Summary of Risk Ratings - Ponds			
High	Medium	Low	No
0	0	0	3

## 8.2 Recommendations

Based on the conclusions of this study and the risk ratings noted above, the following recommendations are made:

- Additional information may become available or site-specific conditions may change from the time this report was prepared and should be considered prior to acquiring right-of-way and/or proceeding with roadway construction. If the design is altered or changed in any way, this report should be reviewed and modified as necessary.
- For the locations rated No or Low for potential contamination, no further action is required. These sites have been evaluated and determined not to have any contamination risk to the project at this time.
- No sites were rated Medium or High. Therefore, Level II testing is not recommended. Level III support is not anticipated. Additional fees associated with contamination support does not appear warranted.
- Once final design plans are available, additional review is recommended in consideration of dewatering operations that may be necessary under the *National Pollutant Discharge Elimination System Generic Permit for Stormwater Discharges from Large and Small Construction Activities*. Verification testing may be warranted for contamination issues within 500 feet of the dewatering area.

## **CSER APPENDIX A MAPS**



NOTE: SITE 2 IS NOT DEPICTED ON THIS MAP. SEE SHEETS B-4 AND C-1.

POND ALTERNATIVE AND POTENTIAL CONTAMINATION SITES

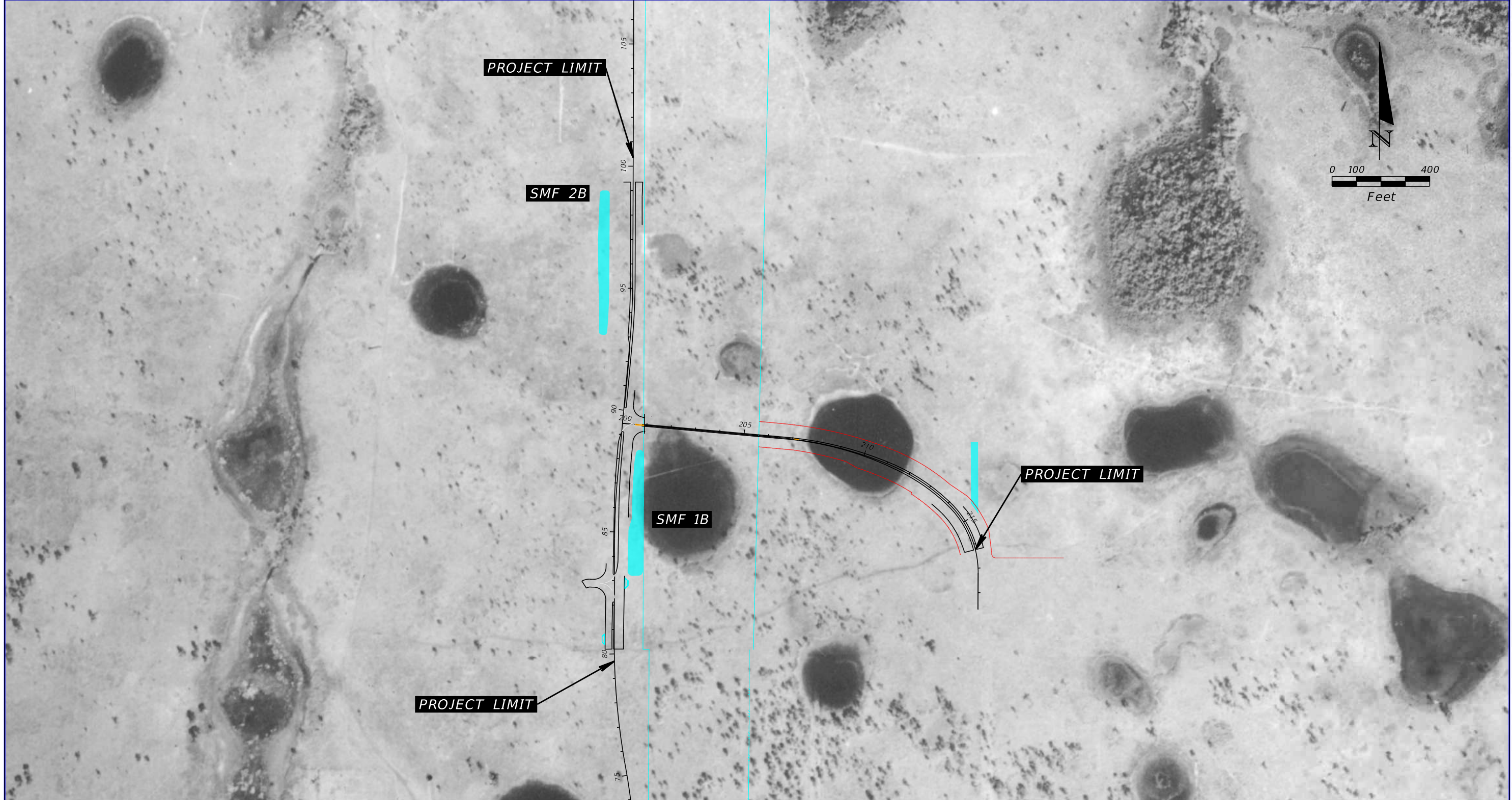
SOURCE: FDOT SURVEY AND MAPPING DATED 2020

**POND NAME** GREEN = NO/LOW RISK SITES  
**POND NAME** RED = HIGH/MEDIUM RISK SITES

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			NORTH SARASOTA MULTIMODAL CONNECTOR PD&E	SHEET NO.  A-1
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			TIERRA PROJECT NO.: 6511-19-154E		SARASOTA	442034-1-21-01		



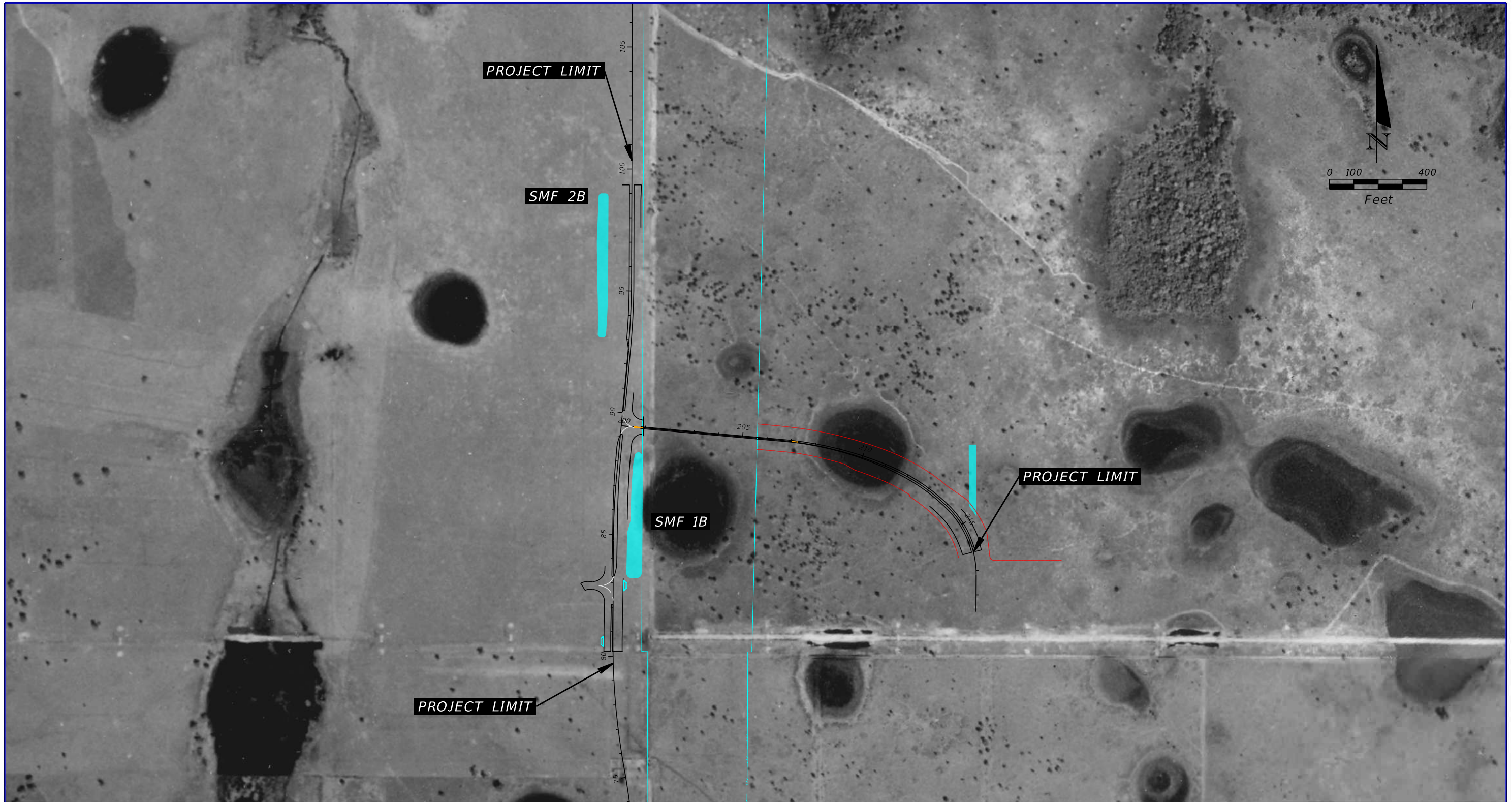
## **CSER APPENDIX B HISTORICAL AERIAL PHOTOGRAPHS**



1948 HISTORICAL AERIAL PHOTOGRAPH

SOURCE: UNIVERSITY OF FLORIDA

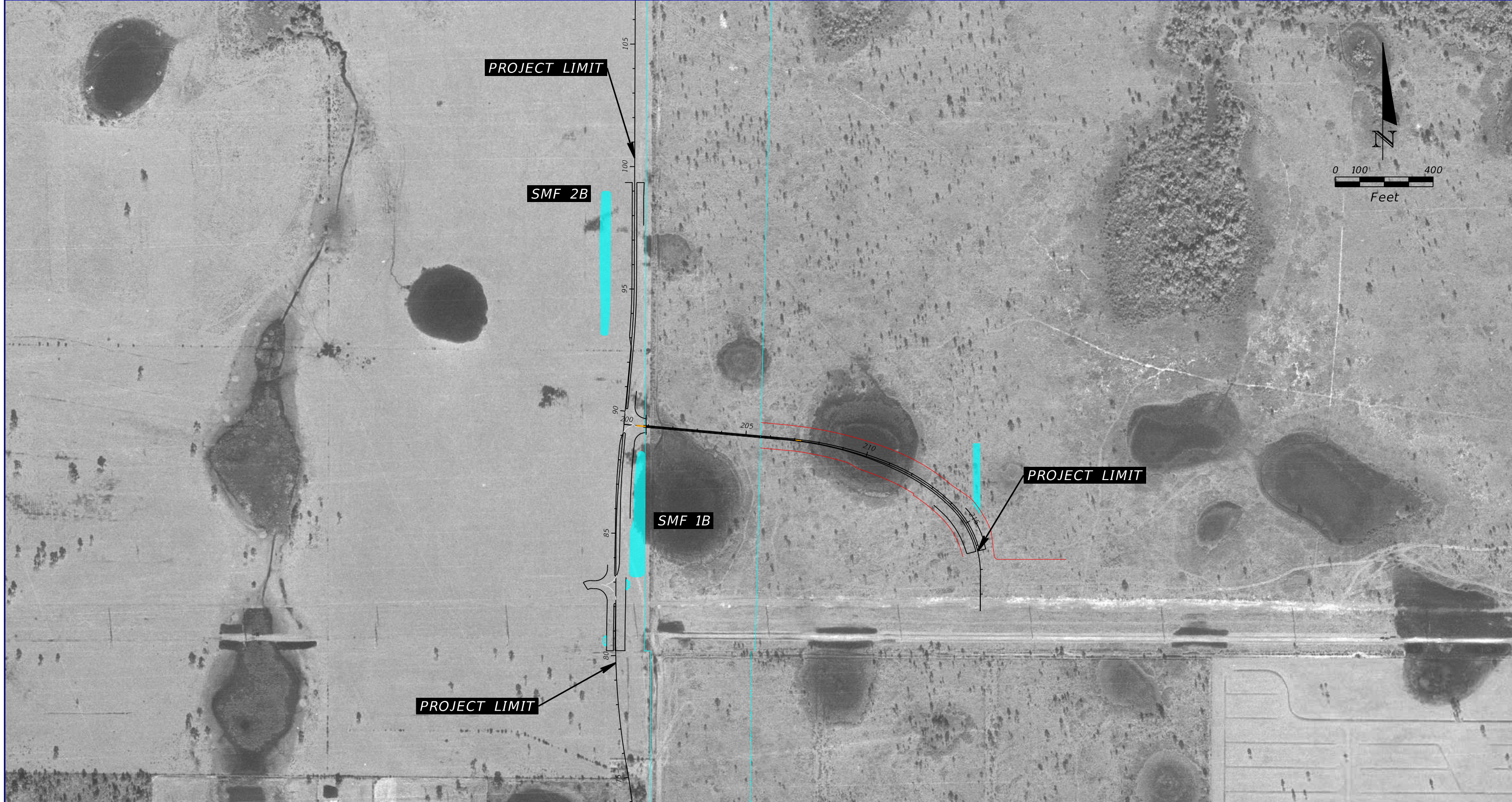
REVISIONS				TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			NORTH SARASOTA MULTIMODAL CONNECTOR PD&E	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		B-1
			TIERRA PROJECT NO.: 6511-19-154E		SARASOTA	442034-1-21-01			



1957 HISTORICAL AERIAL PHOTOGRAPH

SOURCE: UNIVERSITY OF FLORIDA

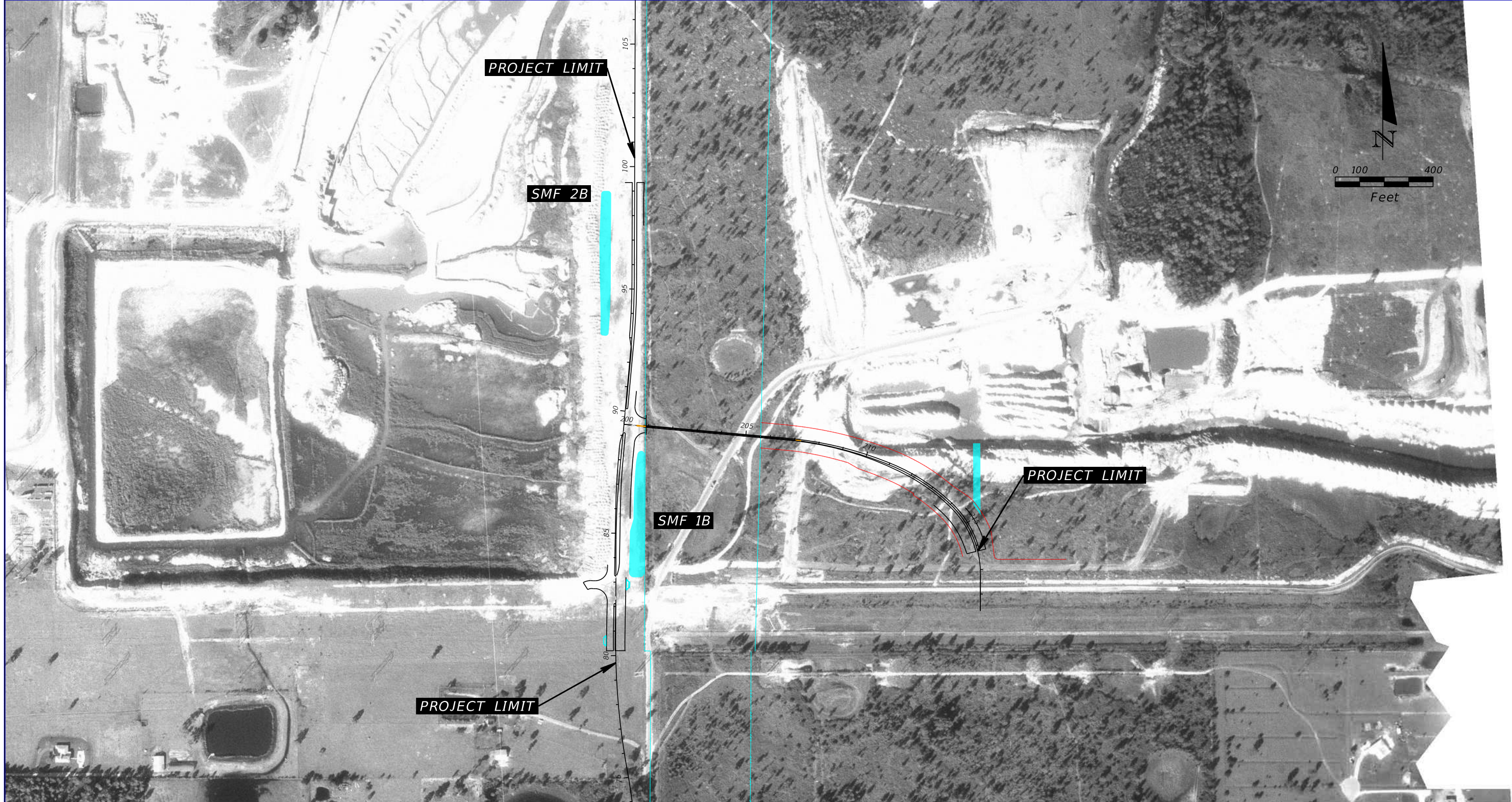
REVISIONS				TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			NORTH SARASOTA MULTIMODAL CONNECTOR PD&E	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		B-2
			TIERRA PROJECT NO.: 6511-19-154E			SARASOTA	442034-1-21-01		



1969 HISTORICAL AERIAL PHOTOGRAPH

SOURCE: FDOT SURVEY AND MAPPING

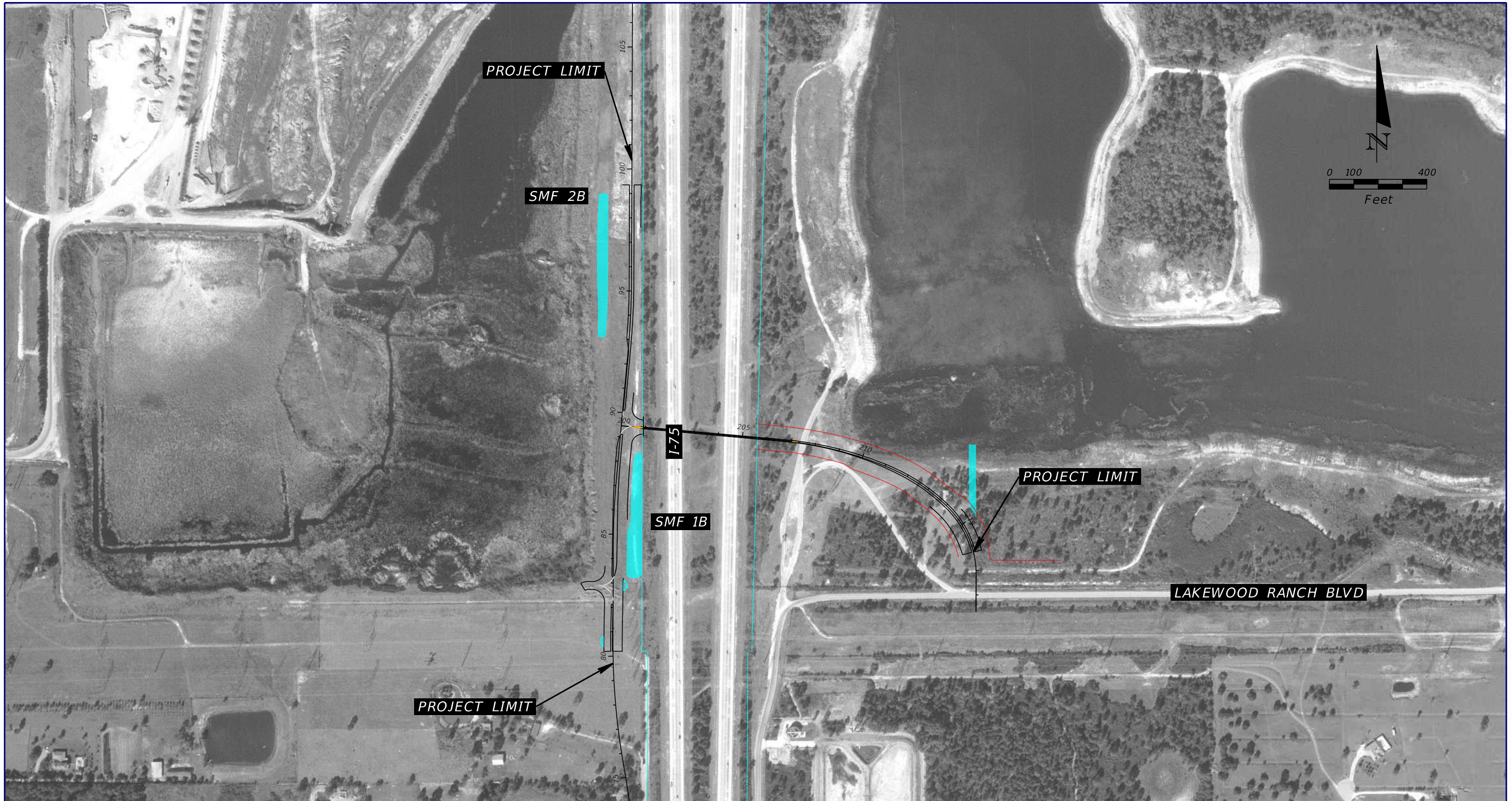
REVISIONS				TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			NORTH SARASOTA MULTIMODAL CONNECTOR PD&E	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		B-3
			TIERRA PROJECT NO.: 6511-19-154E		SARASOTA	442034-1-21-01			



1977 HISTORICAL AERIAL PHOTOGRAPH

SOURCE: FDOT SURVEY AND MAPPING

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			NORTH SARASOTA MULTIMODAL CONNECTOR PD&E	SHEET NO.  B-4
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			TIERRA PROJECT NO.: 6511-19-154E		SARASOTA	442034-1-21-01		



1985 HISTORICAL AERIAL PHOTOGRAPH

SOURCE: FDOT SURVEY AND MAPPING

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			NORTH SARASOTA MULTIMODAL CONNECTOR PD&E	SHEET NO.  B-5
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			TIERRA PROJECT NO.: 6511-19-154E		SARASOTA	442034-1-21-01		



1994 HISTORICAL AERIAL PHOTOGRAPH

SOURCE: FDOT SURVEY AND MAPPING

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			NORTH SARASOTA MULTIMODAL CONNECTOR PD&E	SHEET NO.  B-6
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			TIERRA PROJECT NO.: 6511-19-154E		SARASOTA	442034-1-21-01		
				TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637				



2005 HISTORICAL AERIAL PHOTOGRAPH

SOURCE: FDOT SURVEY AND MAPPING

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			NORTH SARASOTA MULTIMODAL CONNECTOR PD&E	SHEET NO.  B-7
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			TIERRA PROJECT NO.: 6511-19-154E		SARASOTA	442034-1-21-01		



## **CSER APPENDIX C USGS TOPOGRAPHIC MAP**



USGS TOPOGRAPHIC MAP

SOURCE: USGS 7.5-MINUTE "BEE RIDGE, FLORIDA" DATED 1973, (PHOTOREVISED 1987)

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			NORTH SARASOTA MULTIMODAL CONNECTOR PD&E	SHEET NO.  C-1
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			TIERRA PROJECT NO.: 6511-19-154E		SARASOTA	442034-1-21-01		

# **CSER APPENDIX D REGULATORY DATABASE REPORT**

# Environmental Data Report

## Custom Radius Research

**Subject Property:**

Lakewood Ranch Boulevard Overpass  
over I-75 to Cattleman Road  
Sarasota, Florida

**Prepared For:**

Tierra Inc  
7351 Temple Terrace Hwy  
Tampa, FL 33637

**Prepared By:**



Environmental Data Management, Inc.  
2840 West Bay Drive, Suite 208  
Largo, Florida 33770

February 23, 2021



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February 23, 2021

Justin Holley  
Tierra Inc  
7351 Temple Terrace Hwy  
Tampa, FL 33637

Subject: **Custom Radius Research - EDM Project #25456**

Dear Mr. Holley

Thank you for choosing Environmental Data Management, Inc. The following report provides the results of our environmental data research that you requested for the following location:

**Lakewood Ranch Boulevard Overpass  
over I-75 to Cattleman Road  
Sarasota, Florida**

The following is a summary of the components contained within this report:

- **Executive Summary** –lists the databases that were searched for this report, the search distance criteria and the number of sites identified for each database.
- **Map of Study Area**– street map showing the location of the Subject Property and any regulatory listed sites identified within the search criteria.
- **Site Summary Table** –displays the Map ID number, Permit or Registration number, Name/Address and the Government Database(s) for the identified regulatory listed sites.
- **Detail Reports** – data detail for each database record identified.
- **Proximal Records Table** – a listing of potentially relevant sites identified just beyond the search criteria.
- **Non-Mapped Records Table** - lists those government records that do not contain sufficient address information to plot within our GIS system, but may still exist within your study area.
- **Addl Maps (where applicable)** – includes Recent Aerial Photo, USGS Topographic maps, FEMA Floodplain & NWI Wetland Map, map of statewide American Indian Lands and our Environmental Impact Areas map, showing the location of suspect sites such as NPL/STNPL, Brownfields, FUDS, etc.... Our Florida well data report is also include with the Standard and Comprehensive formats.
- **Agency List Descriptions** – defines the regulatory databases included in this report along with the dates that each database was last updated by the respective agency and EDM.

At EDM we take great pride in our work, and continually strive to provide you with the most accurate and thorough research service available. This report is only intended as a means to assist in identifying locations that may pose an environmental concern relative to the property under evaluation. Its use is not intended to replace the need for a complete environmental assessment or regulatory file review, but rather as a supplement to the overall evaluation.

Thank you again for selecting EDM as your data research provider. Should you have any questions regarding this report or our service, please feel free to contact us. We appreciate the opportunity to be of service to you and look forward to working with you in the future.

**ENVIRONMENTAL DATA MANAGEMENT, INC.**

# Executive Summary

Report Date: 2/23/2021

Client Information	Project Information
Tierra Inc 7351 Temple Terrace Hwy Tampa, FL 33637 Client Job No: 6511-19-154E Client P.O. No:	Custom Radius Research Lakewood Ranch Boulevard Overpass over I-75 to Cattleman Road Sarasota, Florida EDM Job No# 25456

The following table displays the databases that were included in the research provided and the number of records identified for each database. Site distance values indicated in this report are measured from the boundary of the Subject Property. The absence of records in this table and the Site Summary Tables indicates that our research found no regulated sites within the specified search distances from the Subject Property.

	Total # Found
<b>EPA DATABASES</b>	
<b>National Priorities List(NPL)</b>	<b>0</b>
<b>SEMS Active Site Inventory List(SEMSACTV)</b>	<b>0</b>
<b>Comp Env Resp, Compensation &amp; Liability Info Sys List(CERCLIS)</b>	<b>0</b>
<b>SEMS Archived Site Inventory List(SEMSARCH)</b>	<b>0</b>
<b>Archived Cerclis Sites(NFRAP)</b>	<b>0</b>
<b>RCRIS Handlers with Corrective Action(CORRACTS)</b>	<b>0</b>
<b>Tribal Tanks List(TRIBLTANKS)</b>	<b>0</b>
<b>Tribal Lust List(TRIBLLUST)</b>	<b>0</b>
<b>Brownfields Management System(USBRWNFLDS)</b>	<b>0</b>
<b>Institutional and/or Engineering Controls(USINSTENG)</b>	<b>0</b>
<b>NPL Liens List(NPLLIENS)</b>	<b>0</b>
<b>RCRA-Treatment, Storage and/or Disposal Sites(TSD)</b>	<b>0</b>

\*\*\* Disclaimer \*\*\*

Please understand that the regulatory databases we utilize were not originally intended for our use, but rather for the source agency's internal tracking of sites for which they have jurisdiction or other interest. As a result of this difference in intended use, their data is frequently found to be incomplete or inaccurate, and is less than ideal for our use. Our report is not to be relied upon for any purpose other than to "point" at approximate locations where further evaluation may be warranted. No conclusion can be based solely upon our report. Rather, our report should be used as a first step in directing your attention at potential problem areas, which should be followed up by site inspections, interviews with relevant personnel, regulatory file review and other means as specified in the ASTM Standard E 1527-13. Readers proceed at their own risk in relying upon this data, in whole or in part, for use within any evaluation. More detailed language with regard to such limitations and our Terms and Conditions may be found on our website at edm-net.com.



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 For further information please contact us at 727-586-1700

*Use of this information is strictly limited by EDM's authorization agreement, acknowledged by our clients for each report.*

	Total # Found
<b>FDEP DATABASES</b>	
State NPL Equivalent(STNPL)	0
State CERCLIS/SEMS Equivalent(STCERC)	0
Solid Waste Facilities List_Landfills(SLDWST_LF)	0
Solid Waste Facilities List_Non-Landfills(SLDWST_NLF)	0
Leaking Underground Storage Tanks List(LUST)	0
Underground/Aboveground Storage Tanks(TANKS)	0
State Designated Brownfields(BRWNFLDS)	0
Voluntary Cleanup List(VOLCLNUP)	0
Institutional and/or Engineering Controls(INSTENG)	0
Dry Cleaners List(DRY)	0

\*\*\* Disclaimer \*\*\*

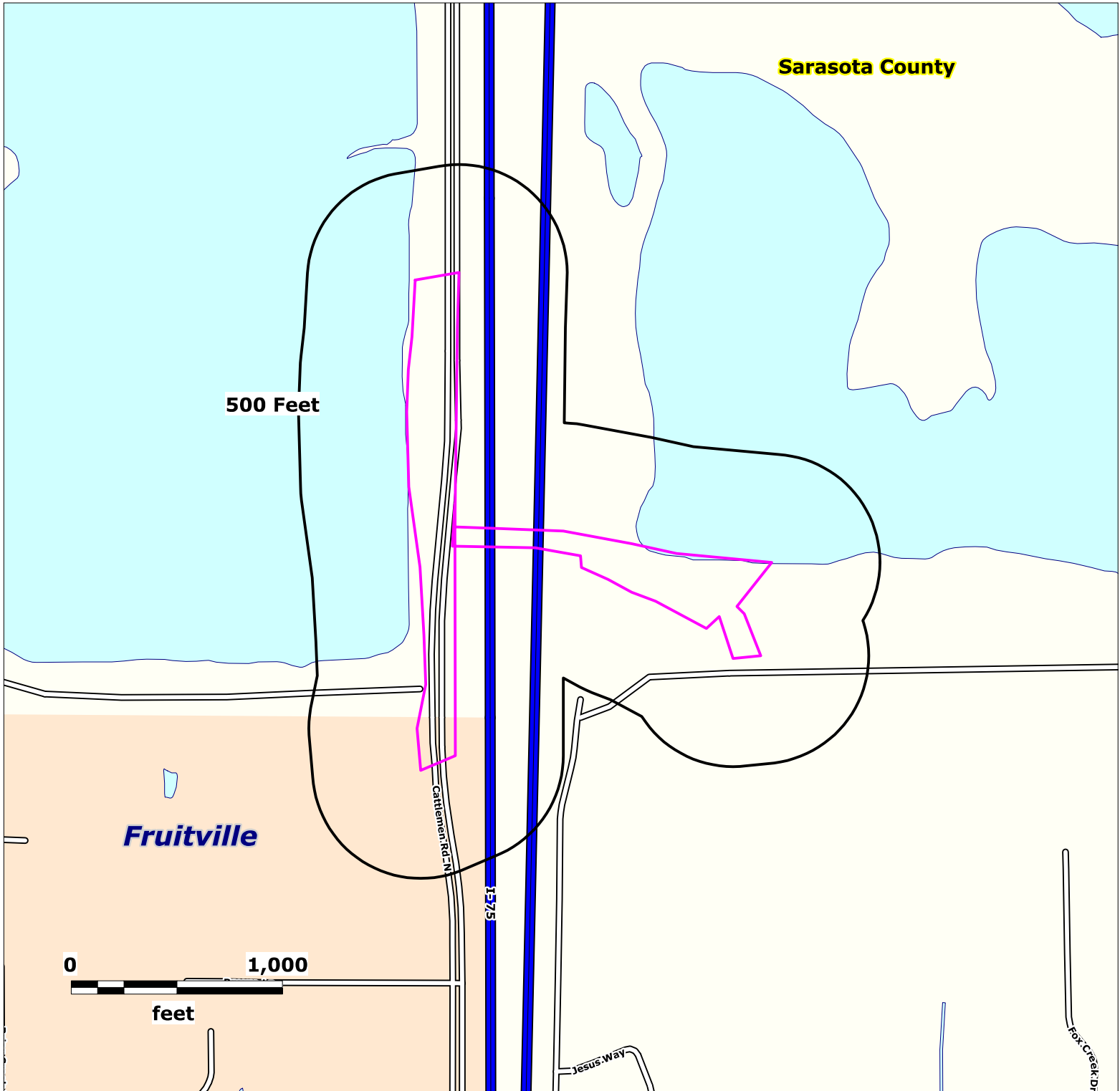
Please understand that the regulatory databases we utilize were not originally intended for our use, but rather for the source agency's internal tracking of sites for which they have jurisdiction or other interest. As a result of this difference in intended use, their data is frequently found to be incomplete or inaccurate, and is less than ideal for our use. Our report is not to be relied upon for any purpose other than to "point" at approximate locations where further evaluation may be warranted. No conclusion can be based solely upon our report. Rather, our report should be used as a first step in directing your attention at potential problem areas, which should be followed up by site inspections, interviews with relevant personnel, regulatory file review and other means as specified in the ASTM Standard E 1527-13. Readers proceed at their own risk in relying upon this data, in whole or in part, for use within any evaluation. More detailed language with regard to such limitations and our Terms and Conditions may be found on our website at [edm-net.com](http://edm-net.com).



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Source: US Census Bureau TIGER Files



Map Scale and Property Boundaries are Approximate

## Subject Property

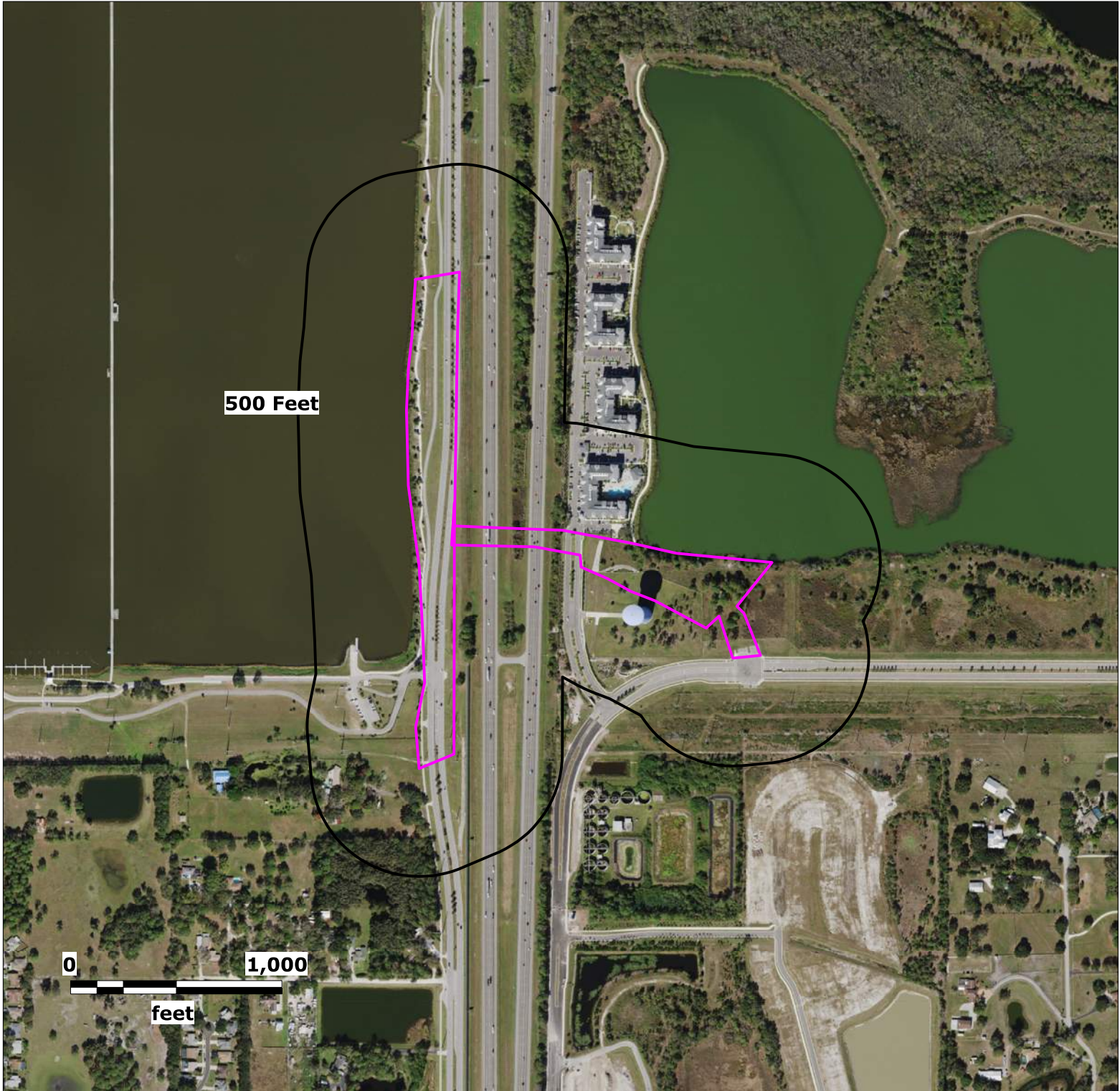
Lakewood Ranch Boulevard Overpass  
over I-75 to Cattleman Road  
Sarasota, Florida

Lat (DMS): 27 21' 34.8192"  
Lon (DMS): -82 26' 50.2296"

EDM Job No: 25456  
February 23, 2021

-  **Approximate Site Boundary**
-  **NPL, STNPL, CERCLIS, SEMSACTV, SEMSARCH and SLDWST\_LF sites - 500 Feet**
-  **SLDWST\_NLF sites - 500 Feet**
-  **NPLLIENS, CORRACTS, TSD, NFRAP, STCERC, LUST, BRWNFLDS, VOLCLNUP, DRY, TANKS & INSTENG sites - 500 Feet**





Source: Florida Department of Transportation

Map Scale and Property Boundaries are Approximate

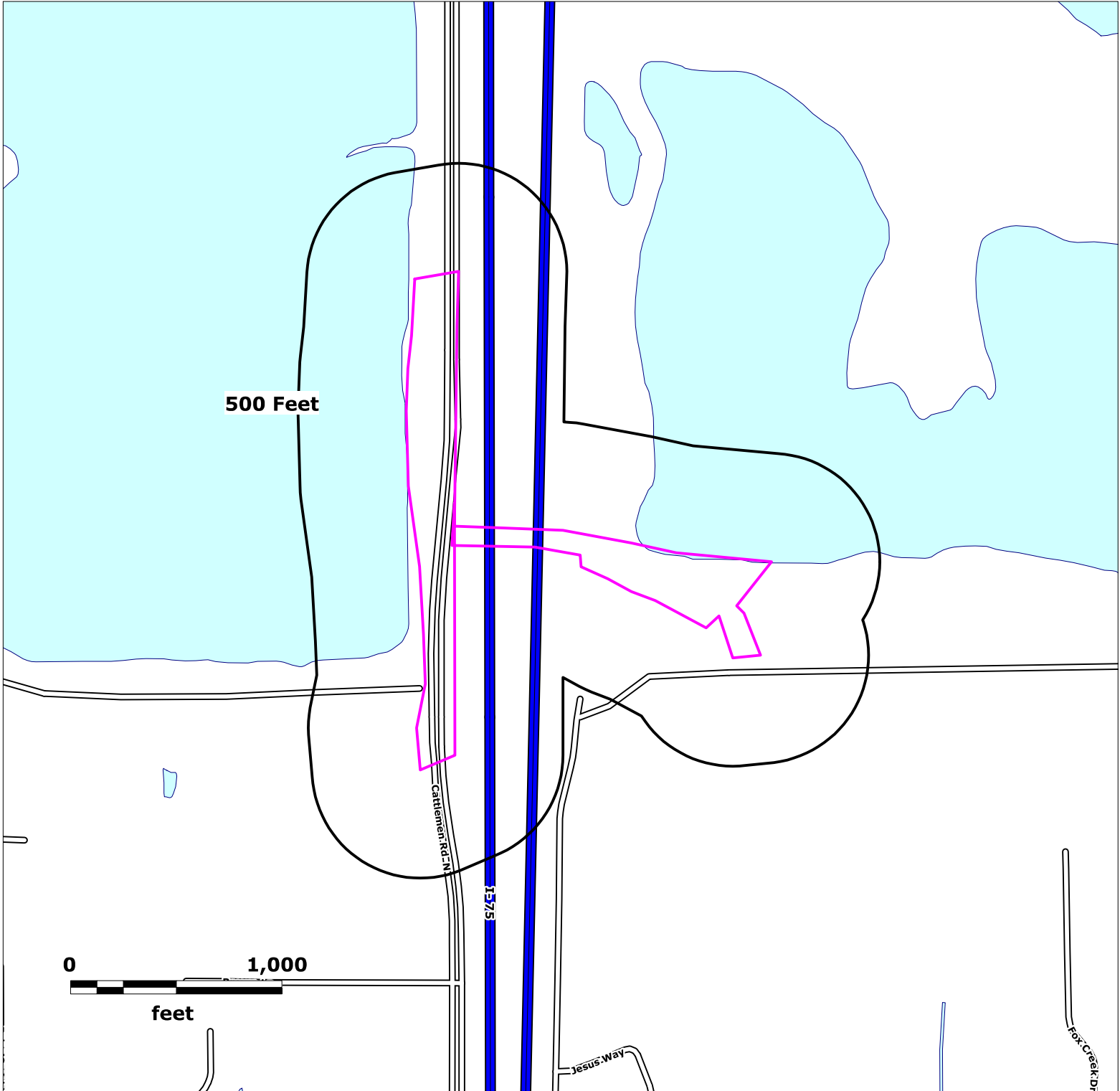
## Subject Property

Lakewood Ranch Boulevard Overpass  
over I-75 to Cattleman Road  
Sarasota, Florida

Lat (DMS): 27 21' 34.8192"  
Lon (DMS): -82 26' 50.2296"

EDM Job No: 25456  
February 23, 2021

-  **Approximate Site Boundary**
-  **NPL, STNPL, CERCLIS, SEMSACTV, SEMSARCH and SLDWST\_LF sites - 500 Feet**
-  **SLDWST\_NLF sites - 500 Feet**
-  **NPLLIENS, CORRACTS, TSD, NFRAP, STCERC, LUST, BRWNFLDS, VOLCLNUP, DRY, TANKS & INSTENG sites - 500 Feet**



Source: FDEP and USEPA Geodata

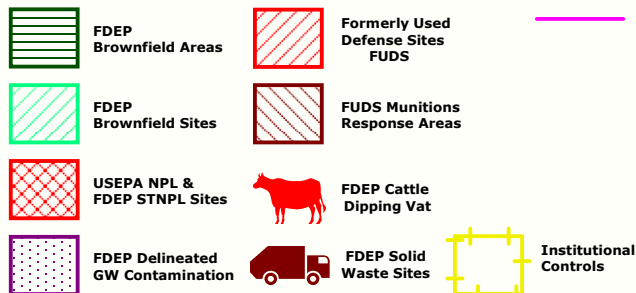
Map Scale and Property Boundaries are Approximate

## Subject Property

Lakewood Ranch Boulevard Overpass  
over I-75 to Cattleman Road  
Sarasota, Florida

Lat (DMS): 27 21' 34.8192"  
Lon (DMS): -82 26' 50.2296"

EDM Job No: 25456  
February 23, 2021



# ENVIRONMENTAL DATA MANAGEMENT

## Custom Radius Research

### Site Summary Table

Report Date: 2/23/2021

Page 1 of 1

---

MapID	Site	Site	Elev vs			
Prgm List	Fac ID No	Dist	Elev	Sub	Site Name	Site Address
		(ft)	(ft)	Prop		

---



# ENVIRONMENTAL DATA MANAGEMENT

## Custom Radius Research Proximal Site Summary Table

This table includes mapped sites whose plotted coordinates fall just outside of the ASTM or client defined research distance but whose property boundaries may still extend into the search area. These sites are typically large commercial or industrial tracts that may merit inclusion in the evaluation process. Detail data reports on any of these sites may be requested and will be sent as an addendum to this report at no additional cost.

Report Date: 2/23/2021

Page 1 of 1

MapID Prgm List	Fac ID No	Site Dist (ft)	Site Elev (ft)	Elev vs Sub Prop	Site Name	Site Address
1A TANKS	9807899	729	31.81	Higher	SARASOTA CNTY-FRUITVILLE WWTF	1616 WENDEL KENT RD SARASOTA, FL 34240



# ENVIRONMENTAL DATA MANAGEMENT

## Custom Radius Research Non-Mapped Records Summary Table

This table is a listing of database records that have not been plotted within our mapping system. Detail data reports on any of these sites may be requested and will be sent as an addendum to this report at no additional cost.

Report Date: 2/23/2021

Page 1 of 1

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Prgm List	Site Name	Site Address
Fac ID No		

---



# Agency List Descriptions

USEPA and State Databases are updated on a quarterly basis. Supplemental Databases are updated on an annual basis.

## Florida Department of Environmental Protection (FDEP)

### State Designated Brownfields(BRWNFLDS)

The FDEP Brownfields database contains a listing of State Designated Brownfield Areas and Brownfield Sites. Brownfields are typically defined as abandoned, idled or underused industrial and commercial sites where expansion or redevelopment is complicated by real or perceived environmental contamination.

**Agency File Date:** 1/6/2021

**Received by EDM:** 1/8/2021

**EDM Database Updated:** 1/8/2021

### Dry Cleaners List(DRY)

The FDEP Dry Cleaning Facilities List is comprised of data from the FDEP Storage Tank and Contamination Monitoring (STCM) database and the Drycleaning Solvent Cleanup Program- Priority Ranking List. It contains a listing of those Dry Cleaning sites (and suspected historical Dry Cleaning sites) who have registered with the FDEP and/or have applied for the Dry Cleaning Solvent Cleanup Program.

**Agency File Date:** 1/8/2021

**Received by EDM:** 1/8/2021

**EDM Database Updated:** 1/8/2021

### Institutional and/or Engineering Controls(INSTENG)

The FDEP Institutional Controls Registry Database (INSTENG) contains sites that have had Institutional and/or Engineering Controls implemented to regulate exposure to environmental hazards

**Agency File Date:** 12/31/2020

**Received by EDM:** 1/8/2021

**EDM Database Updated:** 1/8/2021

### Leaking Underground Storage Tanks List(LUST)

The FDEP LUST list identifies facilities and/or locations that have notified the FDEP of a possible release of contaminants from petroleum storage systems. This Report is generated from the FDEP Storage Tank and Contamination Monitoring Database (STCM).

**Agency File Date:** 1/8/2021

**Received by EDM:** 1/8/2021

**EDM Database Updated:** 1/8/2021

### Solid Waste Facilities List\_Landfills(SLDWST\_LF)

The SLDWST\_LF list identifies locations that have conducted solid waste landfill activities as determined by the applicable FDEP Facility Classifications. Sites listed with "##" after the Facility ID Number are historical locations, obtained from documents on record at local agencies.

**Agency File Date:** 1/14/2021

**Received by EDM:** 1/14/2021

**EDM Database Updated:** 1/14/2021

### Solid Waste Facilities List\_Non-Landfills(SLDWST\_NLF)

The SLDWST\_NLF list identifies locations that have conducted solid waste handling activities other than landfilling, as determined by the applicable FDEP Facility Classifications, such as Transfer Stations, Disaster Debris Staging Areas and sites handling Bio-Hazardous wastes. Sites listed with "##" after the Facility ID Number are historical locations, obtained from documents on record at local agencies.

**Agency File Date:** 1/14/2021

**Received by EDM:** 1/14/2021

**EDM Database Updated:** 1/14/2021

### State CERCLIS/SEMS Equivalent(STCERC)

The STCERC list is compiled from the FDEP Site Investigation Section list, the Florida SITES list(historical) and the FDEP Cleanup Sites list. These sites are being assessed and/or cleaned up as a result of identified or suspected contamination from the release of hazardous substances. The FDEP Cleanup Sites list programs include: Brownfields, Petroleum, EPA Superfund (CERCLA), Drycleaning, Responsible Party Cleanup, State Funded Cleanup, State Owned Lands Cleanup and Hazardous Waste Cleanup.

**Agency File Date:** 1/26/2021

**Received by EDM:** 1/26/2021

**EDM Database Updated:** 1/26/2021

### State NPL Equivalent(STNPL)

The FDEP State Funded Cleanup list contains facilities and/or locations where there are no viable responsible parties; the site poses an imminent hazard; and the site does not qualify for Superfund or is a low priority for EPA. Remedial efforts at these sites are currently being addressed through State funded cleanup action.

**Agency File Date:** 1/13/2020

**Received by EDM:** 12/2/2020

**EDM Database Updated:** 12/2/2020

### Underground/Aboveground Storage Tanks(TANKS)

The FDEP TANKS list contains sites with registered aboveground and underground storage tanks containing regulated petroleum products.

**Agency File Date:** 11/19/2020

**Received by EDM:** 11/19/2020

**EDM Database Updated:** 11/20/2020

### Voluntary Cleanup List(VOLCLNUP)

The VOLCLNUP List is derived from the FDEP Brownfields Site Rehabilitation Agreement (BSRA) database and the FDEP Office of Waste Cleanup Responsible Party Sites database. This list identifies those sites that have signed an agreement to Voluntarily cleanup a site and/or sites where legal responsibility for site rehabilitation exists pursuant to Florida Statutes and is being conducted either voluntarily or pursuant to enforcement activity.

**Agency File Date:** 1/26/2021

**Received by EDM:** 1/26/2021

**EDM Database Updated:** 1/26/2021

# United States Environmental Protection Agency (EPA)

## Comp Env Resp, Compensation & Liability Info Sys List(CERCLIS)

The US EPA Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) database tracks potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are proposed to be on the NPL, are on the NPL and sites that are in the screening and assessment phase for possible inclusion on the NPL. The CERCLIS database was retired in November of 2013 and has been replaced by the Superfund Enterprise Management System (SEMS).

**Agency File Date:** 11/12/2013

**Received by EDM:** 2/18/2016

**EDM Database Updated:** 2/18/2016

## RCRIS Handlers with Corrective Action(CORRACTS)

The US EPA Corrective Action Sites (CORRACTS) database is a listing of hazardous waste handlers that have undergone RCRA corrective action activity.

**Agency File Date:** 1/25/2021

**Received by EDM:** 1/26/2021

**EDM Database Updated:** 1/26/2021

## Archived Cerclis Sites(NFRAP)

The US EPA NFRAP list contains archived data of CERCLIS records where the EPA has completed assessment activities and determined that no further steps to list the site on the NPL will be taken. NFRAP sites may be reviewed in the future to determine if they should be returned to CERCLIS based upon newly identified contamination problems at the site. The NFRAP database was retired in November of 2013 and has been replaced by the Superfund Enterprise Management System (SEMS).

**Agency File Date:** 10/25/2013

**Received by EDM:** 2/18/2016

**EDM Database Updated:** 2/18/2016

## National Priorities List(NPL)

The US EPA National Priorities List (NPL) contains facilities and/or locations where environmental contamination has been confirmed and prioritized for cleanup activities under the Superfund Program. EDM's NPL Report includes sites that are currently on the NPL as well as sites that have been Proposed, Withdrawn and/or Deleted from the list. Previously, information for the NPL was managed under the CERCLIS data management system. In 2014 this system was replaced with the Superfund Enterprise Management System (SEMS). EPA last updated CERCLIS in November of 2013. EDM's NPL Report contains available SEMS data and the archived CERCLIS data relative to NPL sites.

**Agency File Date:** 12/30/2020

**Received by EDM:** 1/27/2021

**EDM Database Updated:** 1/27/2021

## NPL Liens List(NPLLIENS)

The US EPA NPL Liens List identifies those sites where under authority granted by CERCLA, liens have been filed against real property in order to recover expenditures from remedial action or when the property owner receives a notice of potential liability.

**Agency File Date:** 12/30/2020

**Received by EDM:** 1/27/2021

**EDM Database Updated:** 1/27/2021

## SEMS Active Site Inventory List(SEMSACTV)

The US EPA Superfund Enterprise Management System (SEMS) tracks potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. The SEMSACTV list contains sites that are on the National Priorities List (NPL) as well as sites that are proposed for or in the screening and assessment phase for possible inclusion on the NPL. SEMS has replaced the CERCLIS database, which was retired in November of 2013.

**Agency File Date:** 1/28/2021

**Received by EDM:** 2/5/2021

**EDM Database Updated:** 2/5/2021

## SEMS Archived Site Inventory List(SEMSARCH)

The US EPA Superfund Enterprise Management System (SEMS), contains archived data of CERCLIS or SEMS records where the EPA has completed assessment activities and determined that no further steps to list the site on the NPL will be taken. These sites may be reviewed in the future to determine if they should be returned to SEMS based upon newly identified contamination problems at the site. SEMS has replaced the CERCLIS database, which was retired in November of 2013. The SEMSARCH database contains these newly archived records under the SEMS database management system.

**Agency File Date:** 1/28/2021

**Received by EDM:** 2/5/2021

**EDM Database Updated:** 2/5/2021

## Tribal LUST List(TRIBLLUST)

EDM's Tribal LUST list is derived from the USEPA Region IV Tribal Tanks database by extracting those sites with indicators of past and/or current releases.

**Agency File Date:** 2/24/2010

**Received by EDM:** 3/9/2010

**EDM Database Updated:** 3/9/2010

## Tribal Tanks List(TRIBLTANKS)

The USEPA Region IV Tribal Tanks database lists Active and Closed storage tank facilities on Native American lands.

**Agency File Date:** 2/24/2010

**Received by EDM:** 3/9/2010

**EDM Database Updated:** 3/9/2010

## RCRA-Treatment, Storage and/or Disposal Sites(TSD)

The EDM TSD list is a subset of the US EPA RCRAInfo system and identifies facilities that Treat, Store and/or Dispose of hazardous waste.

**Agency File Date:** 1/25/2021

**Received by EDM:** 1/27/2021

**EDM Database Updated:** 1/27/2021

## Brownfields Management System(USBRWNFLDS)

The US EPA Brownfields program provides information on environmentally distressed properties that have received Grants or Targeted funding for cleanup and redevelopment. Tribal Brownfield sites are included in the USBRWNFLDS database.

**Agency File Date:** 2/5/2021

**Received by EDM:** 2/5/2021

**EDM Database Updated:** 2/5/2021

## Institutional and/or Engineering Controls(USINSTENG)

The USINSTENG list is compiled from data elements contained in the NPL, CORRACTS, USBRWNFLDS and RCRAInfo databases.

**Agency File Date:** 2/5/2021

**Received by EDM:** 2/5/2021

**EDM Database Updated:** 2/5/2021



## Environmental Impact Areas

### Brownfield Areas and Sites

The FDEP Brownfields database contains a listing of State Designated Brownfield Areas and Brownfield Sites. Brownfields are typically defined as abandoned, idled or underused industrial and commercial sites where expansion or redevelopment is complicated by real or perceived environmental contamination.

**Agency File Date:** 1/6/2021

**Received by EDM:** 1/8/2021

**EDM Database Updated:** 1/8/2021

<https://floridadep.gov/waste/waste-cleanup/content/brownfields-program>

### Cattle Dipping Vats

From the 1910's through the 1950's, vats were filled with an arsenic solution for the control and eradication of the cattle fever tick. Other pesticides such as DDT were also widely used. By State law, all cattle, horses, mules, goats, and other susceptible animals were required to be dipped every 14 days. Under certain circumstances, the arsenic and other pesticides remaining at the site may present an environmental or public health hazard.

Some of the sites have been located and are currently under investigation. However, most of the listings are from old records of the State Livestock Board, which listed each vat as it was put into operation. In addition, some privately operated vats may have existed which were not listed by the Livestock Board. EDM's Cattle Dipping Vat sites are retrieved from the Voluntary Cleanup and STCERC databases. For additional information on Cattle Dipping Vats visit the FDEP and FDOH websites at:

**Agency File Date:** 10/31/2018

**Received by EDM:** 1/25/2019

**EDM Database Updated:** 1/25/2019

<https://floridadep.gov/waste/district-business-support/content/cattle-dipping-vats-cdv>

<http://www.floridahealth.gov/environmental-health/drinking-water/cattledipathome.html>

### Formerly Used Defense Sites

The DoD is responsible for the environmental restoration of properties that were formerly owned by, leased to or otherwise possessed by the United States and operated under the jurisdiction of the Secretary of Defense prior to October 1986. Such properties are known as Formerly Used Defense Sites (FUDS). The Army is the executive agent for the program and the U.S. Army Corps of Engineers manages and directs the program's administration. For more information on the FUDS Program, including maps and data on individual sites, visit the Army Corps of Engineers website at:

**Agency File Date:** 5/29/2018

**Received by EDM:** 1/25/2019

**EDM Database Updated:** 1/25/2019

<http://www.usace.army.mil/Missions/Environmental/Formerly-Used-Defense-Sites/>

### FUDS Munitions Response Sites

The DoD developed the Military Munitions Response Program (MMRP) in 2001 to address munitions-related concerns, including explosive safety, environmental, and health hazards from releases of unexploded ordnance (UXO), discarded military munitions (DDM), and munitions constituents (MC) found at locations, other than operational ranges, on active and Base Realignment and Closure (BRAC) installations and Formerly Used Defense Sites (FUDS) properties. The MMRP addresses non-operational range lands with suspected or known hazards from munitions and explosives of concern (MEC) which occurred prior to September 2002, but are not already included with an Installation Response Program (IRP) site cleanup activity. For more information on the FUDS MMRP Program, including maps and data on individual sites, visit the Army Corps of Engineers website at:

**Agency File Date:** 5/14/2018

**Received by EDM:** 1/25/2019

**EDM Database Updated:** 1/25/2019

<http://www.asaie.army.mil/Public/ESOH/mmrp.html>

### Groundwater Contamination Areas

The Ground Water Contamination Areas GIS layer is a statewide map showing the boundaries of delineated areas of known groundwater contamination pursuant to Chapter 62-524, F.A.C., New Potable Water Well Permitting In Delineated Areas. 38 Florida counties have been delineated primarily for the agricultural pesticide ethylene dibromide (EDB), and to a much lesser extent, volatile organic and petroleum contaminants. This GIS layer represents approximately 427,897 acres in 38 counties in Florida that have been delineated for groundwater contamination. However, it does not represent all known sources of groundwater contamination for the state of Florida.

This information is intended to be used by regulatory agencies issuing potable water well construction permits in areas of ground water contamination to protect public health and the ground water resource. Permitted water wells in these areas must meet specific well construction criteria and water testing prior to well use. This dataset only indicates the presence or absence of specific groundwater contaminants and does not represent all known sources of groundwater contamination in the state of Florida.

**Agency File Date:** 11/28/2018

**Received by EDM:** 1/24/2019

**EDM Database Updated:** 1/24/2019

<https://floridadep.gov/water/source-drinking-water/content/delineated-areas>

## Institutional Controls

The FDEP Institutional Controls GIS layer is a statewide map showing the approximate boundaries of delineated areas where Institutional Controls are in place.

An institutional control provides for certain restrictions on a property. For example, a site may be cleaned up to satisfy commercial contamination target levels and an institutional control may be placed on that property indicating that it may only be used for commercial activities. If the owner of the property ever wanted to use that property for residential purposes, the owner would have to ensure that any contamination meets residential target levels.

The locational data for this layer is provided by the responsible party and reviewed by FDEP staff. Neither FDEP or EDM assumes responsibility for the accuracy of the boundary data.

**Agency File Date:** 12/30/2020

**Received by EDM:** 1/8/2021

**EDM Database Updated:** 1/8/2021

<https://ca.dep.state.fl.us/mapdirect/?webmap=cff8d21797184421ab4763d3e4a01e48>

## National Priorities List

The US EPA National Priorities List (NPL) contains facilities and/or locations where environmental contamination has been confirmed and prioritized for cleanup activities under the Superfund Program. EDM's NPL site boundaries data include sites that are currently on the NPL as well as sites that have been Proposed, Withdrawn and/or Deleted from the list.

**Agency File Date:** 11/14/2018

**Received by EDM:** 12/10/2018

**EDM Database Updated:** 1/22/2019

<https://www.epa.gov/superfund/search-superfund-sites-where-you-live>

## Solid Waste Facilities

The FDEP SLDWST list identifies locations that have been permitted to conduct solid waste handling activities.

**Agency File Date:** 1/23/2019

**Received by EDM:** 1/24/2019

**EDM Database Updated:** 1/25/2019

<https://floridadep.gov/waste>

## State Funded Cleanup Sites

The FDEP State Funded Cleanup list contains facilities and/or locations where there are no viable responsible parties; the site poses an imminent hazard; and the site does not qualify for Superfund or is a low priority for EPA. Remedial efforts at these sites are currently being addressed through State funded cleanup action.

**Agency File Date:** 8/10/2019

**Received by EDM:** 8/12/2019

**EDM Database Updated:** 8/12/2019

<https://floridadep.gov/waste/waste-cleanup/documents/state-funded-cleanup-program-site-list>

## **CSER APPENDIX E SITE PHOTOGRAPHS**

## Site Photos



Lakewood Ranch Boulevard looking north along proposed ROW



Picnic area within proposed ROW located approximately 250 feet north of the Lakewood Ranch Boulevard project limit



East of I-75 looking east along proposed ROW.



Cattlemen Road south project limit looking north



Near Cattlemen Road north project limit looking south



Southern area of SMF 1B looking north



Southern area of SMF 2B looking north