

Environmental GIS assets and the Efficient Transportation Decision Making (ETDM) Process

Presented by:

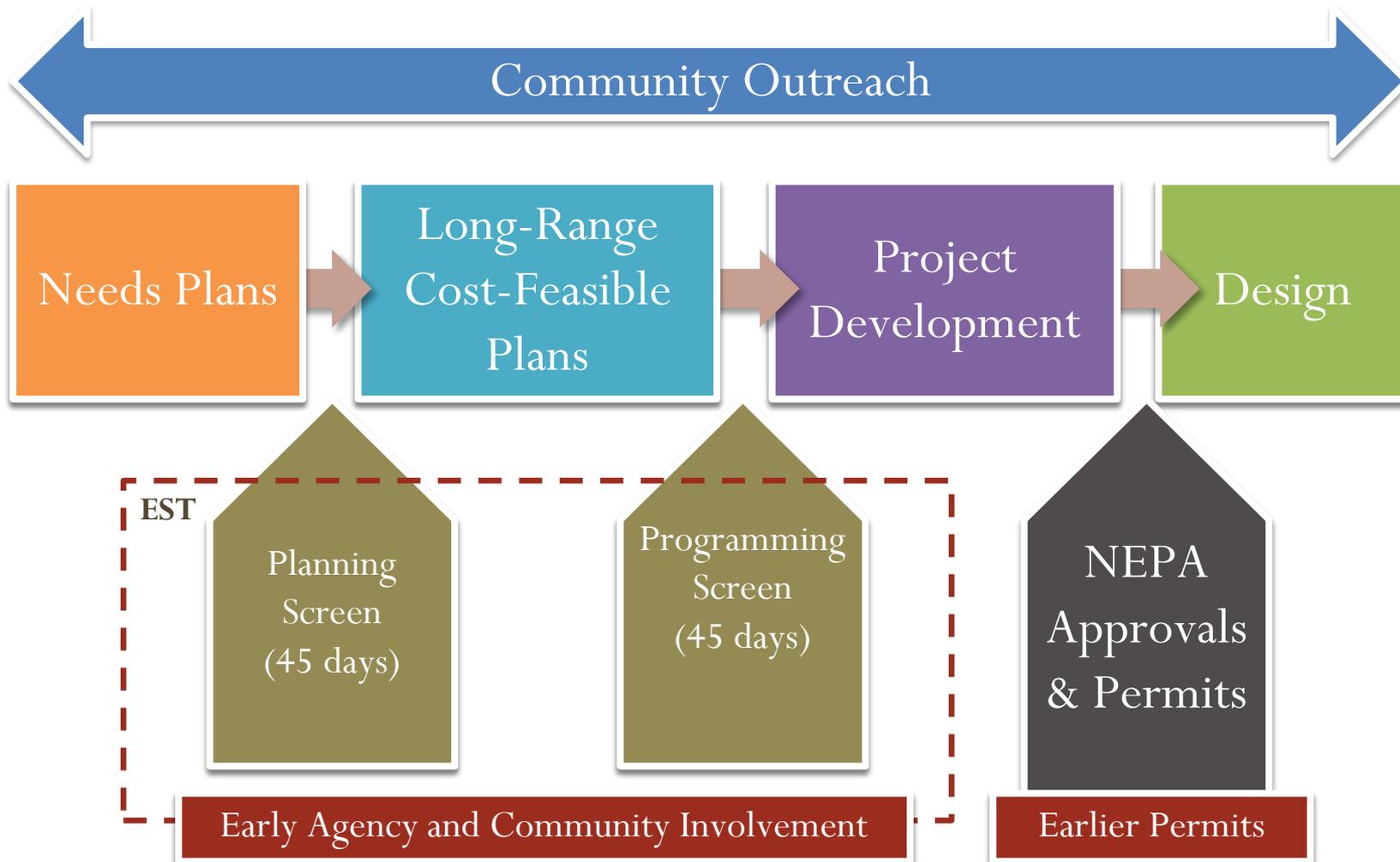
Dean Rogers
August 2015



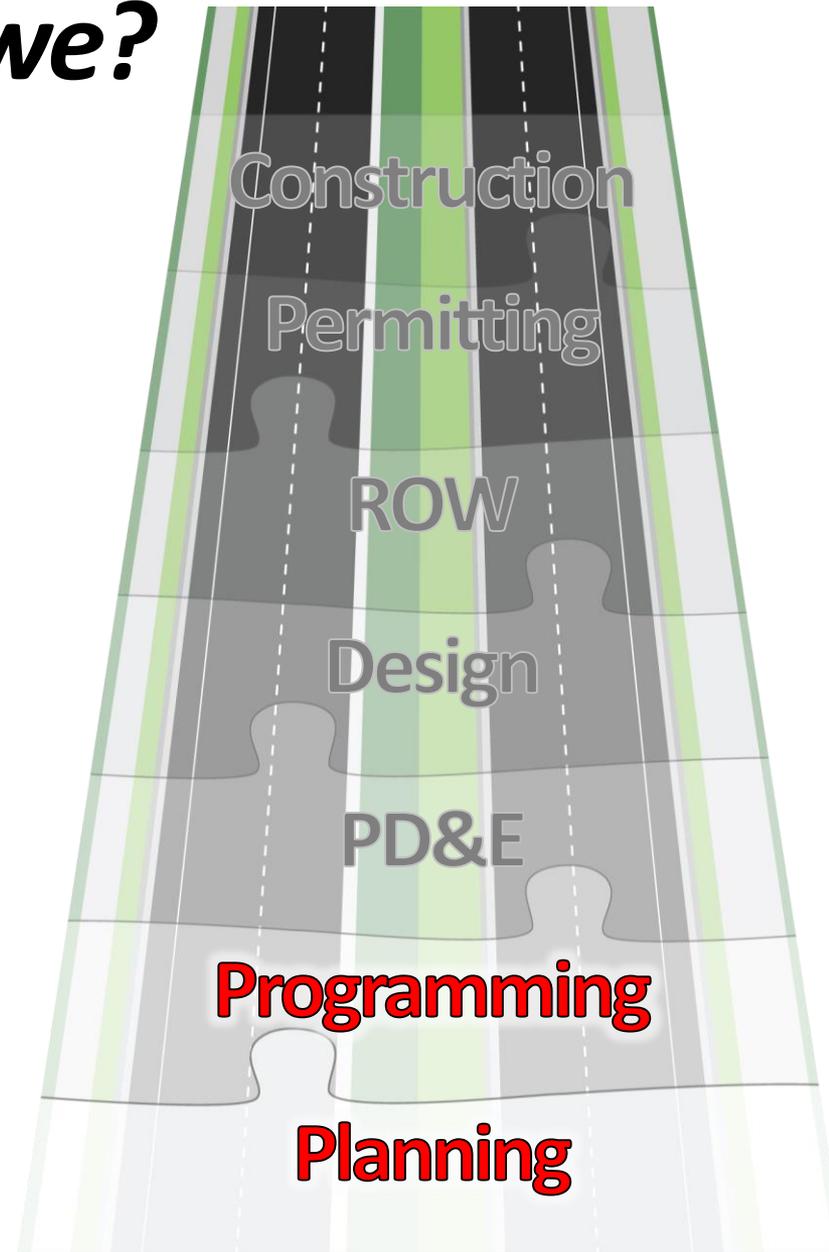
ETDM Process

- ◆ A way of planning and developing major transportation projects that expedites project delivery without sacrificing the quality of the human and natural environments
- ◆ Enables agencies and the public to provide early input to FDOT and MPOs about the potential effects of proposed transportation projects

ETDM Process Overview



Where are we?



ETDM Participants

More than 30 state, federal, and local agencies and tribal governments
compose the Environmental Technical Advisory Team (ETAT)

Federal Agencies

- Federal Highway Administration (FHWA)
- Federal Transit Agency (FTA)
- US Army Corp of Engineers (USACE)
- US Coast Guard (USCG)
- US Environmental Protection Agency (USEPA)
- USDA Natural Resources Conservation Service (NRCS)
- US Fish & Wildlife Service (USFWS)
- US Forest Service (USFS)
- National Marine Fisheries Service (NMFS)
- National Park Service (NPS)

Native American Tribal Governments

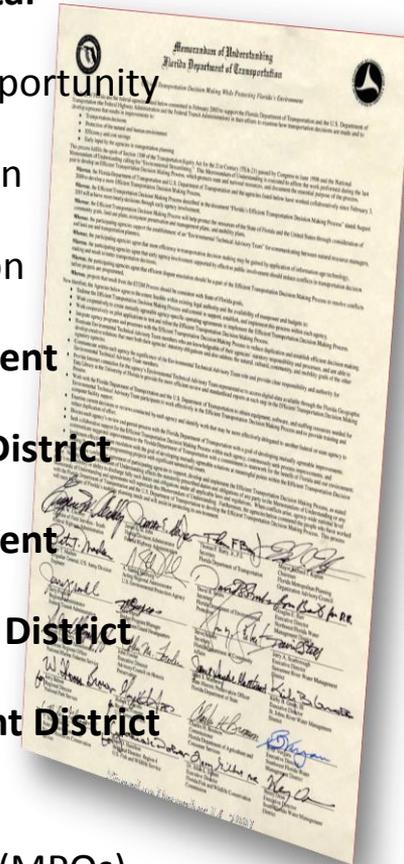
- Miccosukee Tribe of Indians of Florida
- Seminole Tribe of Florida

State Agencies

- Florida Department of Environmental Protection (FDEP)
- Florida Department of Economic Opportunity (FDEO)
- Florida Department of Transportation (FDOT)
- Florida Fish and Wildlife Conservation Commission (FFWCC)
- Northwest Florida Water Management District (NFWFMD)
- South Florida Water Management District (SFWMD)
- Southwest Florida Water Management District (SWFWMD)
- St. Johns River Water Management District (SJRWMD)
- Suwannee River Water Management District (SRWMD)

Local Governments

- Metropolitan Planning Organizations (MPOs)
- Transportation Planning Organizations (TPOs)
- Regional Planning Councils (RPCs)



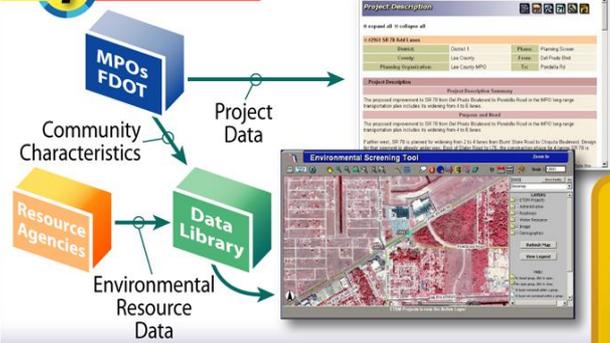
ETAT Representatives

- ◆ Single point of contact
 - Coordinate agency comments with internal experts
- ◆ Well versed in the statutory authority
- ◆ Knowledgeable of the agency actions required at each phase
- ◆ Able to perform and understand comprehensive environmental impact analyses
- ◆ Respected within the agency
- ◆ Access to key decision makers
- ◆ Function as a problem solver
- ◆ Effective in dispute resolution

Environmental Screening Tool

Data is integrated from multiple sources into one statewide library.

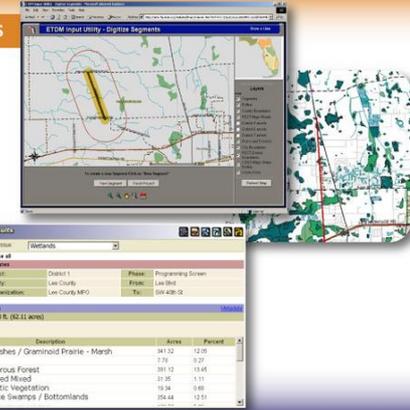
Step 1 Data Entry



Project effects to the natural and human environment are analyzed.

Step 2 GIS Analysis

Automated
Graphic and
Tabular Results

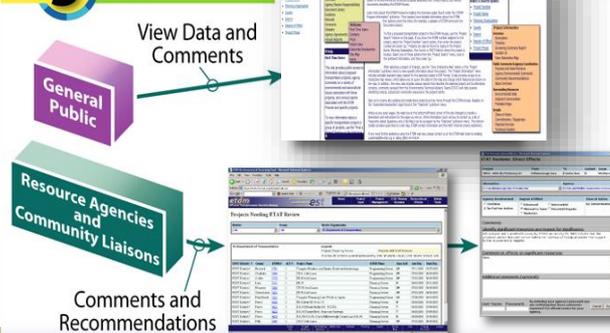


The Technology System Entry portal for Internet-accessible Environmental Screening Tool



Agency and public concerns are communicated.

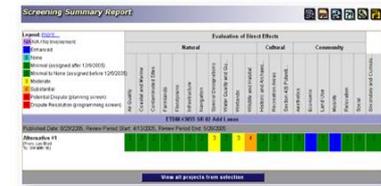
Step 3 Project Review



Evaluation results are summarized and stored.

Step 4 Summary Reports

- Summary of Effects
- Commitments
- Responses



Color-coded degree of effect
by technical issue

ENVIRONMENTAL SCREENING TOOL

ETDM Summary Report

Project #3107 - US 301 FROM CHANCEY ROAD TO SR 39
Planning Screen - Published on 09/23/2005
Printed on: 4/24/2012

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Project Purpose

Consistency, PED/AN

GIS Analysis Results

Resource Data

Maps

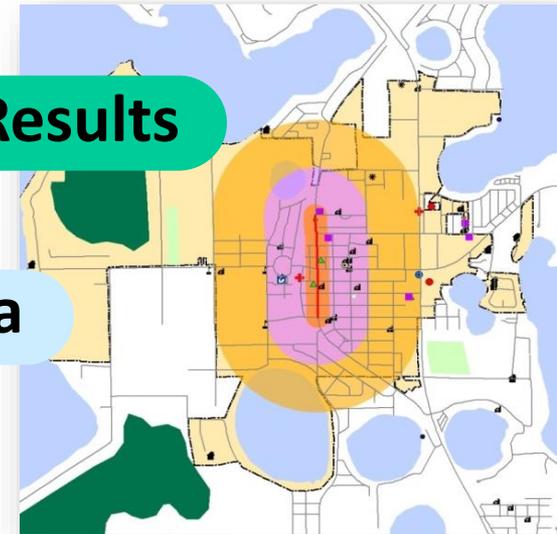
Previous Commentary

Summary Reports

Alternative #2 US 41-Kracker to s/o Causeway

Project Effects Overview for Alternative #2 US 41-Kracker to s/o Causeway

Issue	Degree of Effect	Organization	
Natural			
Air Quality	Minimal	US Environmental Protection Agency	
Coastal and Marine	3 Moderate	Southwest Florida Water Management District	
Coastal and Marine	4 Substantial	National Marine Fisheries Service	
Contaminated Sites	3 Moderate	US Environmental Protection Agency	
Contaminated Sites	3 Moderate	Southwest Florida Water Management District	
Contaminated Sites	3 Moderate	FL Department of Environmental Protection	
Farmlands	Minimal	Natural Resources Conservation Service	
Floodplains	4 Substantial	US Environmental Protection Agency	
Floodplains	4 Substantial	Southwest Florida Water Management District	
Infrastructure	Minimal	Southwest Florida Water Management District	
Navigation	3 Moderate	US Coast Guard	
Navigation	3 Moderate	US Army Corps of Engineers	
Special Designations	4 Substantial	US Environmental Protection Agency	11/04/2012
Special Designations	3 Moderate	Southwest Florida Water Management District	11/01/2012
Water Quality and Quantity	4 Substantial	US Environmental Protection Agency	11/04/2012
Water Quality and Quantity	4 Substantial	Southwest Florida Water Management District	11/01/2012
Water Quality and Quantity	3 Moderate	FL Department of Environmental Protection	10/31/2012
Wetlands	4 Substantial	US Army Corps of Engineers	11/16/2012
Wetlands	3 Moderate	US Environmental Protection Agency	11/04/2012
Wetlands	3 Moderate	Southwest Florida Water Management District	11/01/2012
Wetlands	3 Moderate	FL Department of Environmental Protection	10/31/2012
Wetlands	4 Substantial	US Fish and Wildlife Service	10/29/2012



ETAT Review



Search site for...

Saved Searches: Project History:

[Advanced Search](#) | [My ETDM](#) | [Bookmarks](#) | [Logout](#)

Active project:

- Tools**
- Review Project >
- Performance Management >
- Agency Invoices >
- Project Dashboard >

Hide <<

Perform ETAT Review

Perform ETAT Review

Please select a project to review from the Projects Needing Review tab below by clicking on the **ETDM#**.

Projects Needing Review

Search Criteria

County:

Assigned Organization(s):

Show results for all members of selected organization
 Show results for Dean Rogers only

Other Organizations:

[Agencies and Associated Resource Issues](#)

Key

Planning Screen (0)		Programming Screen (5)		AN (1)	ACE (1)						Review Authority	P&M Review	Issue Reviews	EC Review	Review Progress	
FDOT_District	County	ETDM#	ALT#	Project Name	ETDM Phase	Days Left	Last Day	Start day								
District 7	Hillsborough	12673	1	Bruce B. Downs	Programming	18	08/27/2015	07/13/2015	No	No	0%	N/A	<input checked="" type="checkbox"/>			
District 7	Hillsborough	12673	2	Bruce B. Downs	Programming	18	08/27/2015	07/13/2015	No	No	0%	N/A	<input checked="" type="checkbox"/>			
District 7	Hillsborough	12673	3	Bruce B. Downs	Programming	18	08/27/2015	07/13/2015	No	No	0%	N/A	<input checked="" type="checkbox"/>			
District 2	Duval	2804 **	1	Normandy Blvd	Programming	128	12/21/2015	03/27/2013	No	No	0%	No	<input checked="" type="checkbox"/>			
District 2	Duval	6851	1	US 301 Baldwin Bypass	Programming	128	12/21/2015	03/27/2013	No	No	0%	N/A	<input checked="" type="checkbox"/>			

- Reports**
- Wizards**
- Maps**
- Account Settings**
- Help**

Issues ETAT Comment On

Community:

- Aesthetics
- Land Use
- Relocation Potential
- Farmlands
- Economic
- Mobility
- Social/Community Concerns

Cultural:

- Section 4(f) Potential
- Historic and Archaeological Sites
- Recreation Areas

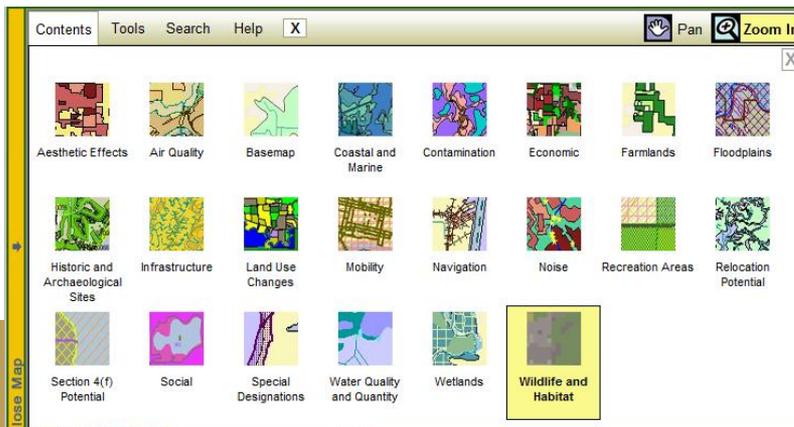
Natural:

- Wetlands
- Water Quality and Quantity
- Floodplains
- Wildlife and Habitat
- Coastal and Marine

Physical:

- Noise
- Air Quality
- Contamination
- Navigation
- Infrastructure

Special Designations



EST Map Viewer

Active project:

etdm
Environmental Screening Tool

Search site for...
Saved Searches: Project History:
[Advanced Search](#) | [My ETDM](#) | [Bookmarks](#) | [Logout](#)

Contents Tools Search Help X

Maps Legend Aerials

Historic and Archaeological Sites
(change)

- Projects
- Administrative
- Base
 - MGRS
 - Navteq Unified Basemap
 - City Limits (Parcel derived)
 - Florida Boundary
 - Major Florida Parks and Forests
 - Major Rivers
 - Major Water Bodies
 - Population Areas
 - SE Bathymetry
 - SE States
- Coastal
- Community
- Conservation
- Demographics
- Geology
- Habitat
- Historic Resources
 - Archaeological and Historic Sites
 - County Commission approved Historic S
 - High Archaeological Site Potential - Hig
 - Historic Cemeteries
 - Historic Structures
 - National Historic Preservation Act Certi
 - SHPO National Register Sites
 - SHPO Resource Groups
 - SHPO Survey Areas
 - State Historic Bridges
 - State Historical Highways
- Image
- Land Use
- Landcover
- Other Initiatives
- Roadways
- Safety
- Soils

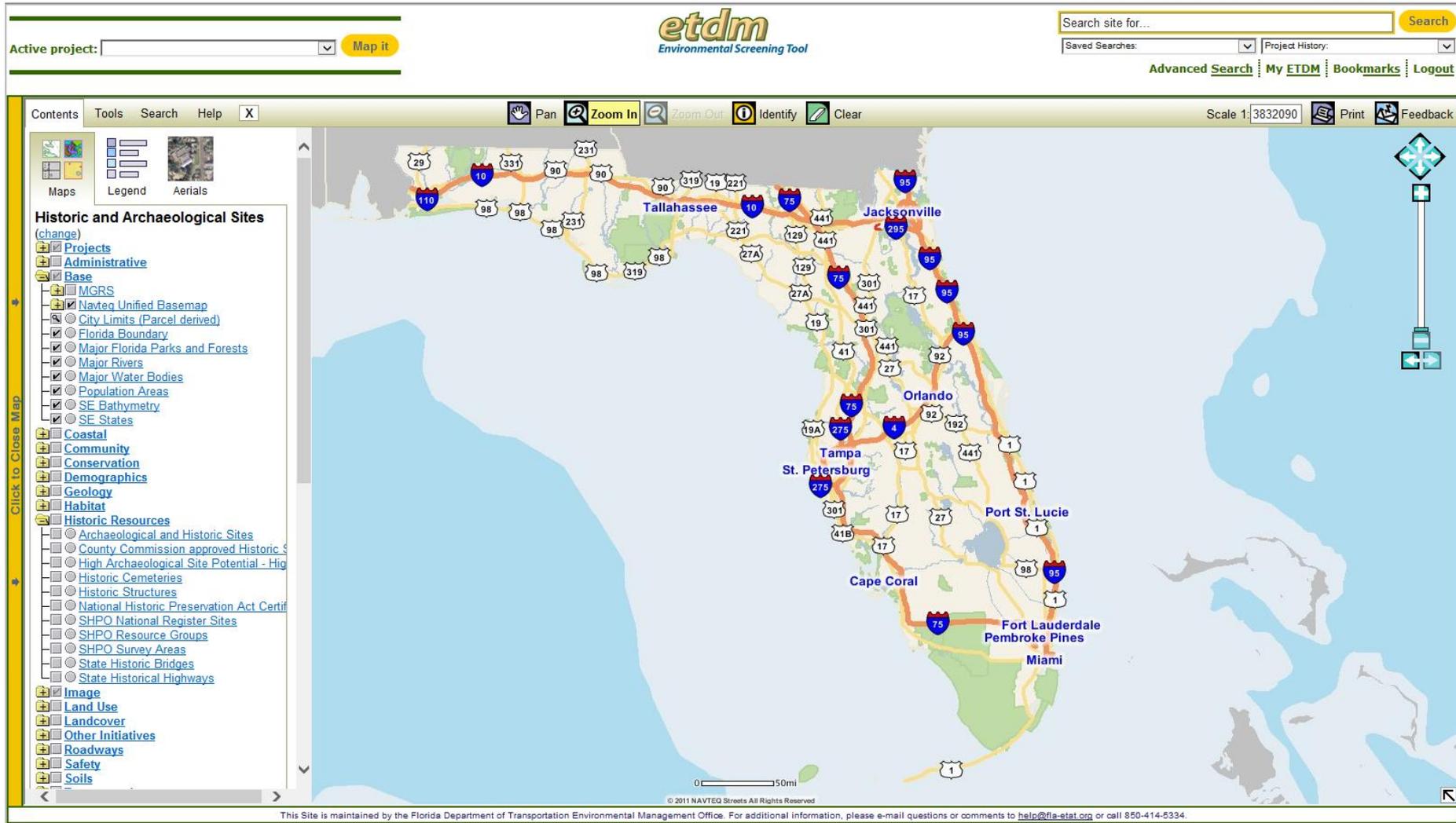
Click to Close Map

Scale 1: 3832090

0 50mi

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Example of SHPO data resources analyses

Active project: #14207 West Bay Parkway Extension

Search site for... Search

4 Alert | Advanced Search | My ETDM | Bookmarks | Logout

Identify

Identify from: Active Layer (SHPO Survey Areas)

Show results as: Tree Table

Show on Map	SURVIUM	TITLE	PUB_DATE	AUTHOR1	AUTHOR2	AUTHOR3	SPONSOR
Show on Map	8149	AN ARCHAEOLOGICAL AND HISTORICAL SURVEY OF THE PROPOSED SOUTHPORT TOWER LOCATION IN BAY COUNTY, FLORIDA	2001	AMBROSINO, MEGHAN L.	JONES, PAUL L.		PPM CONSULTANT INC.
Show on Map	9970	HISTORIC RESOURCE SURVEY, SOUTHPORT 7308 HIGHWAY 77, SOUTHPORT, BAY COUNTY, FLORIDA	2004	DAVIS, MCMILLAN	METZLER, VALERIE A.	ROSS, BRIAN M.	RESCOM ENVIRONMEN CORPORATIO

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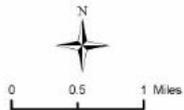
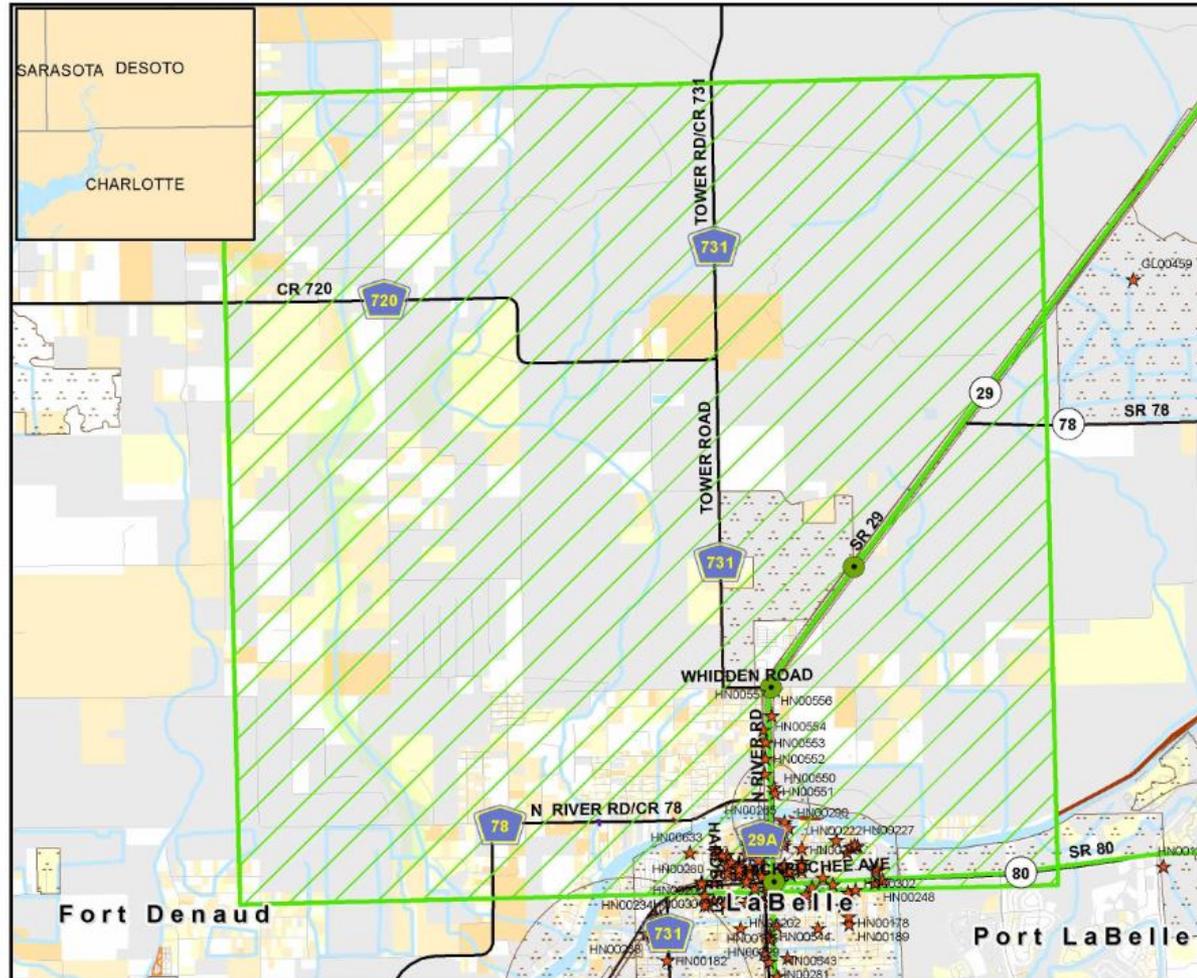
- ETAT Review Complete
- Dispute Resolution In Progress
- Summary Report Complete
- Work Program
- Location Design Concept Acceptance (LDCA)
- OTHER
- Population Areas
- Alternatives (Currently in Review)
- ETAT Review
- Historic Structures
- FDOT Major Rd Names
- Navteq Interstates
- Navteq US Hwys
- Navteq State Roads
- Navteq County Roads
- Navteq Local Arterials
- SHPO National Register Sites
- SHPO Resource Groups
- SHPO Survey Areas
- NHD(100K) Hydrographic Landmark Areas
- NHD(100K) Water Bodies
- LAKE/POND
- SWAMP/MARSH
- RESERVOIR
- City Limits (Parcel derived)
- Major Florida Parks and Forests
- Florida Boundary
- LAND

Project Map Reference Historic Resources District 1

Project ID 4420

Cultural Resources Data Map

- ETDM Alternative
- ETDM Alternative Terminus
- Major Road
- ★ Historic Structure
- ⊠ Historic Cemetery
- Historic Bridge
- Historic Resource Group
- Cultural Resource Field Survey Area
- State Historic Highway
- Year Built
- Pre 1970
- Post 1980
- 1970 - 1979
- Parcels w/ no values



Data Sources:
 NAVTEQ
 US Geological Survey
 Florida Department of Transportation
 Florida Department of State,
 Bureau of Archaeological Research

Note: Historic properties depicted on this map represent resources listed in the Florida Master Site File excluding archeological site locations, which, pursuant to Chapter 267.135, Florida Statutes, may be exempt from public record (Chapter 119.07, Florida Statutes). Absence of features on the map does not necessarily indicate an absence of resources in the project vicinity.

This map and its content is made available by the Florida Department of Transportation on an "as is," "as available" basis without warranties of any kind, express or implied.

7/8/2015

Map Tools

Contents Tools Search Help X

Edit Map Features

 Communities  Transportation Projects

View Ancillary Data

 NRS Photos  Video Log  Project Attachments

Location and Measurement

 Street View  Measure

Query

 Query Database  Select From Map  Buffer

Query Builder X

Historic Structures

SURVDIST
 SHPOEVAL
 PLOTMTHD
DESCRIPT
 SITEID

Get Unique Values

=	<>	Like	'OTHER'
>	>=	And	'OUTBUILDING'
<	<=	Or	'OUTHOUSE'
()	Not	-	'PARK'
%	Is null	Isnotnull	'PAVILION'
			'PHARMACY'
			'PIER'
			'PLANTATION'
			'PLAZA OR SQUARE'
			'POLICE STATION'

Query criteria:
 DESCRIPT = 'PARK'

Statewide Visible Map Extent

Execute Clear

National Register Site File Tool

Active project: #14207 West Bay Parkway Extension Map it

Search site for... Search

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Contents Tools Search Help X

Scale 1:30099 Print Feedback

Edit Map Features

- Communities
- Transportation Projects
- Area of Interest

View Ancillary Data

- NRS Photos
- Video Log
- Project Attachments

Location and Measurement

- Street View
- Measure

Query

- Query Database
- Select From Map
- Buffer

Map Tips

National Register of Historic Places

Click on a link below to open a new window containing documentation about the selected site.

Site Name	Site ID
SPANISH COOLINA QUARRIES	S300069

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National Register Site File Tool

11/1/11 509

SEE SITE FILE STAFF FOR ORIGINAL PHOTO(S) OR MAP(S)

Form 10-300 (July 1969) UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES INVENTORY - NOMINATION FORM

(Type all entries - complete applicable sections)

STATE: Florida	
COUNTY: St. Johns	
FOR NPS USE ONLY	
ENTRY NUMBER	DATE

1. NAME
COMMON:
Spanish Coquina Quarries
AND/OR HISTORIC:

2. LOCATION
STREET AND NUMBER:
Anastasia State Park, U.S. A1A on Anastasia Island
CITY OR TOWN:
St. Augustine Beach
STATE: Florida CODE: 12 COUNTY: St. Johns CODE: 109

3. CLASSIFICATION

CATEGORY (Check One)	OWNERSHIP	STATUS	ACCESSIBLE TO THE PUBLIC
<input type="checkbox"/> District <input checked="" type="checkbox"/> Site <input type="checkbox"/> Object	<input checked="" type="checkbox"/> Public <input type="checkbox"/> Private <input type="checkbox"/> Both	<input type="checkbox"/> Occupied <input checked="" type="checkbox"/> Unoccupied <input type="checkbox"/> Preservation work in progress	Yes: <input checked="" type="checkbox"/> Restricted <input type="checkbox"/> Unrestricted <input type="checkbox"/> No

PRESENT USE (Check One or More as Appropriate)

<input type="checkbox"/> Agricultural	<input type="checkbox"/> Government	<input checked="" type="checkbox"/> Park	<input type="checkbox"/> Transportation	<input type="checkbox"/> Comments
<input type="checkbox"/> Commercial	<input type="checkbox"/> Industrial	<input type="checkbox"/> Private Residence	<input type="checkbox"/> Other (Specify)	
<input type="checkbox"/> Educational	<input type="checkbox"/> Military	<input type="checkbox"/> Religious		
<input type="checkbox"/> Entertainment	<input type="checkbox"/> Museum	<input type="checkbox"/> Scientific		

4. OWNER OF PROPERTY
OWNER'S NAME:
Division of Recreation and Parks
Department of Natural Resources
STREET AND NUMBER:
Larson Building
CITY OR TOWN:
Tallahassee STATE: Florida CODE: 12

5. LOCATION OF LEGAL DESCRIPTION
COURTHOUSE, REGISTRY OF DEEDS, ETC.:
Trustees of the Internal Improvement Fund
STREET AND NUMBER:
Elliott Building
CITY OR TOWN:
Tallahassee STATE: Florida CODE: 12

6. REPRESENTATION IN EXISTING SURVEYS
TITLE OF SURVEY:
None
DATE OF SURVEY:
TERMINATING SURVEY RECORDS:
STREET AND NUMBER:
CITY OR TOWN:
STATE:
CODE:

SEE INSTRUCTIONS

STATE: Florida COUNTY: St. Johns FOR NPS USE ONLY ENTRY NUMBER DATE

1

Street View

Zoom In Zoom Out Identify Clear Scale 1: 413526 Print

Contents Tools Search Help X

Edit Map Features

- Communities
- Transportation Projects

View Ancillary Data

- NRS Photos
- Video Log
- Project Attachments

Location and Measurement

- Street View
- Measure

Query

- Query Database
- Select From Map
- Buffer

Google Maps Streetview

1501 County Road 700, Frostproof, Florida
Address is approximate

Google

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[Click here to open Google Street View in a new window.](#)

Aerial Imagery

Active project: #14209 SR 30 (US 98) from Santa Rosa CL to SR [Map it](#)

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Environmental Screening Tool

Search site for... [Search](#)

Saved Searches: Project History:

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Contents Tools Search Help X

Pan Zoom In Zoom Out Identify Clear

Scale 1:2434

Maps Legend Aerials

Turn on DOQQ Aerials

Turn on NAIP Aerials

Turn off DOI Aerials

Show map layers on aerials
Look in the Image folder on the Maps tab for visible aerial layers.

Map Tips

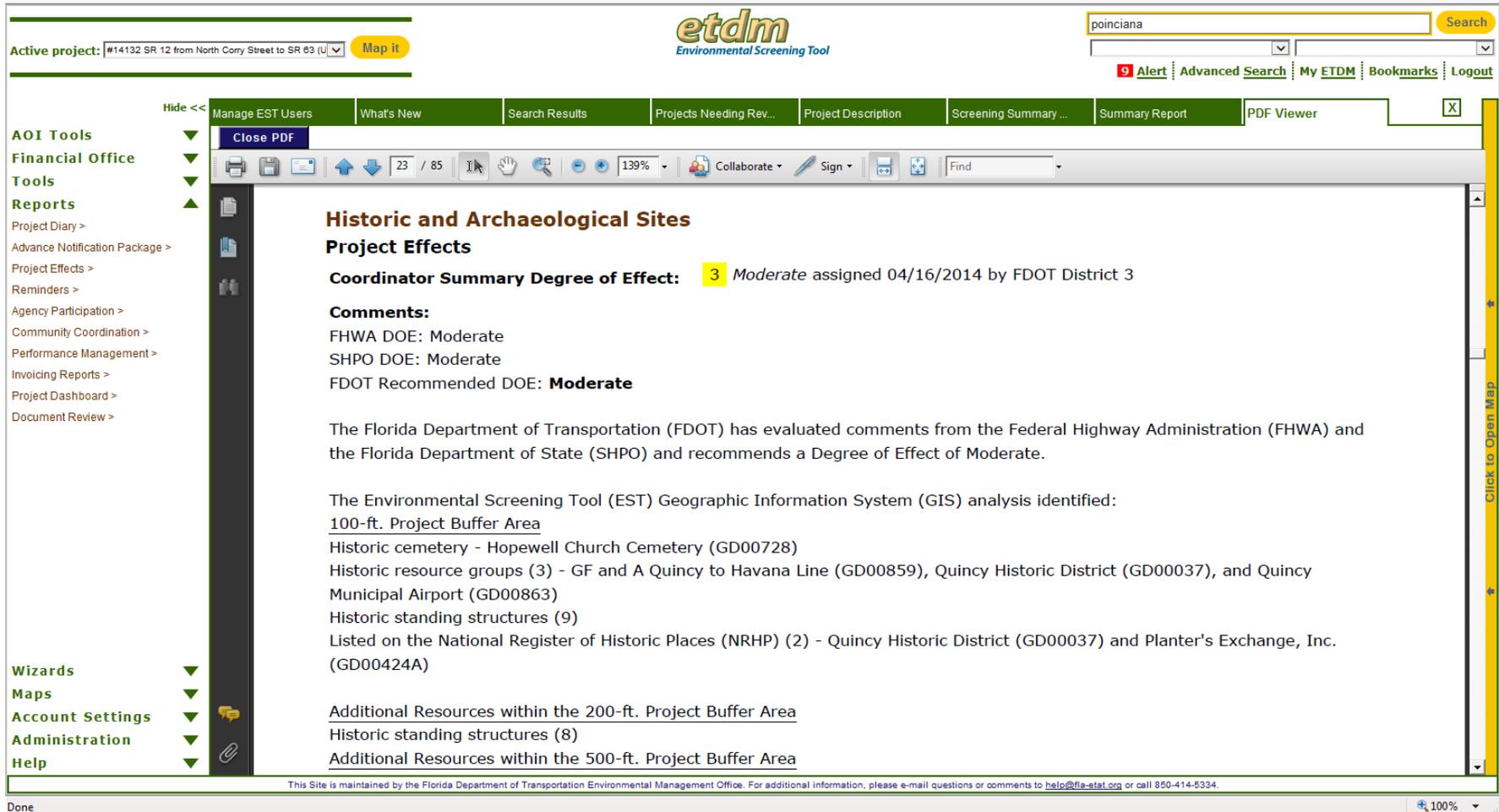
- **Aerials** - Displays digital aerial photography layers.
 - **DOQQ** - Digital Orthophoto Quarter-Quadrangle (visible at all scales)
 - **NAIP** - National Agriculture Imagery Program (visible at all scales)
 - **DOI** - 1-Foot Resolution Digital Orthophoto Imagery (only visible at a scale of 1:5000 or higher)

0 300 ft

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Summary Degree of Effect

◆ Coordinator Summary DOE



The screenshot displays the etdm Environmental Screening Tool interface. At the top, the active project is identified as "#14132 SR 12 from North Cory Street to SR 63 (U)". The main content area shows the "Historic and Archaeological Sites" project effects, with a Coordinator Summary Degree of Effect of 3 (Moderate) assigned on 04/16/2014 by FDOT District 3. The comments section provides details on the evaluation process, including input from FHWA and SHPO, and a recommendation of a Moderate Degree of Effect. It also lists identified resources within a 100-foot project buffer area, such as a historic cemetery and various historic resource groups and structures. Additional resources within 200-foot and 500-foot buffers are also noted.

etdm
Environmental Screening Tool

Active project: #14132 SR 12 from North Cory Street to SR 63 (U) [Map it](#)

Search: poinciana

Alert | Advanced Search | My ETDM | Bookmarks | Logout

Manage EST Users | What's New | Search Results | Projects Needing Rev... | Project Description | Screening Summary... | Summary Report | PDF Viewer

Close PDF

23 / 85 | 139% | Collaborate | Sign | Find

Historic and Archaeological Sites

Project Effects

Coordinator Summary Degree of Effect: 3 *Moderate* assigned 04/16/2014 by FDOT District 3

Comments:
 FHWA DOE: Moderate
 SHPO DOE: Moderate
 FDOT Recommended DOE: **Moderate**

The Florida Department of Transportation (FDOT) has evaluated comments from the Federal Highway Administration (FHWA) and the Florida Department of State (SHPO) and recommends a Degree of Effect of Moderate.

The Environmental Screening Tool (EST) Geographic Information System (GIS) analysis identified:

100-ft. Project Buffer Area
 Historic cemetery - Hopewell Church Cemetery (GD00728)
 Historic resource groups (3) - GF and A Quincy to Havana Line (GD00859), Quincy Historic District (GD00037), and Quincy Municipal Airport (GD00863)
 Historic standing structures (9)
 Listed on the National Register of Historic Places (NRHP) (2) - Quincy Historic District (GD00037) and Planter's Exchange, Inc. (GD00424A)

Additional Resources within the 200-ft. Project Buffer Area
 Historic standing structures (8)

Additional Resources within the 500-ft. Project Buffer Area

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Summary Report

◆ Summary Report Chart Overview

Active project:

#13040 Beckett Bridge over Whitcomb Bayou (Riv) Map it


Environmental Screening Tool

poinciana Search

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Manage EST Users | What's New | Search Results | Projects Needing Review | Project Description | Screening Summary Chart X

Screening Summary Chart






#13040 Beckett Bridge over Whitcomb Bayou (Riverside Drive)

District: District 7 **Phase:** Programming Screen **Contact Information:** Nicole Christine Selly (813) 975-6455 Nicole.Selly@dot.state.fl.us

Project Effect

	Natural					Cultural					Community									
Air Quality	Coastal and Marine	Contaminated Sites	Famland	Floodplains	Infrastructure	Navigation	Special Designations	Water Quality and Quantity	Wetlands	Wildlife and Habitat	Historic and Archeological Sites	Recreation Areas	Section 4(f) Potential	Aesthetics	Economic	Land Use	Mobility	Relocation	Social	Secondary and Cumulative Effects
Alternative #1 - From: Chesapeake Drive To: Forest Avenue DRAFT: unpublished version (reviewed from 11/11/2010 to 12/26/2010)	2	3	3	0	3	3	3	4	3	3	3	2	3	2	2	2	1	2	2	3

Degree of Effect Legend

N/A	N/A / No Involvement	0	None	1	Enhanced	2	Minimal	3	Moderate	4	Substantial	5	Dispute Resolution
		(after 12/5/2005)				(after 12/5/2005)						(Programming)	

[Wizards](#) | [Maps](#) | [Account Settings](#) | [Administration](#) | [Help](#)

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[https://www.fl-a-etdm.org/est/#](#)

Click to Open Map

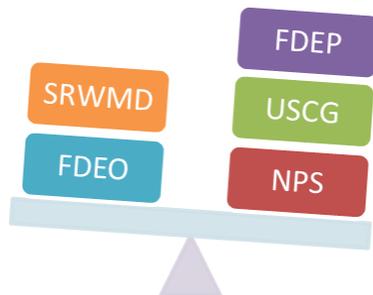
100%

20

Summary Report

- ◆ Preliminary and Final
 - Resource to Project Managers, ETDM Coordinators, and Consultants
 - Feedback document summarizing project review and the results of the screening
 - Summary DOE's
 - Accepted P&N
 - Project Scope

- ◆ Final
 - ◆ Signed Class of Actions



ETDM Summary Report

Project #14194 - US 301 from Fowler Ave. to proposed SR 56

Final Programming Screen - Published on 04/21/2015

Generated by Nicole Selly (on behalf of FDOT District 7)

Printed on: 4/21/2015

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For More Information

Presenter:

Dean Rogers

850-414-5348

Dean.Rogers@dot.state.fl.us

References :

◆ FDOT PD&E Manual

- *Available at:*

<http://www.dot.state.fl.us/emo/pubs/pdeman/pdeman1.shtm>

◆ FDOT ETDM Manual

- *Available at:*

<http://www.dot.state.fl.us/emo/pubs/etdm/etdmmanual.shtm>

Questions?

