



**Consolidated
Environmental
Engineering**



Biologist-Chemists-Engineers-Archaeologists-Contractors

245 East Drive Suite 103
Melbourne, FL 32904
Phone: (321) 951-3830
Fax: (321) 951-9667
e-mail: ceeinc@bellsouth.net
web page: <http://ceefl.com>
Certified Building Contractor
License Number – CBC 1253487

Habitat Survey



AT
2800 Barna Avenue
Titusville, Brevard County, Florida
(Id# 22-35-16-00-00021.0-0000.00)

FOR

Brevard Land Development, LLC

January 2007



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HABITAT SURVEY

JANUARY 4, 2007 8.42 ACRES
2800 BARN A AVENUE
TITUSVILLE, FLORIDA

PARCEL IDENTIFICATION NUMBER: 22-35-16-00-00021.0-0000.00

OBJECTIVE OF WORK:

The purpose of this Habitat Survey was to determine the following:

1. The portion of the subject properties that would be considered as State Jurisdictional Wetlands.
2. The existence of Scrub Jays (*Aphelocoma coerulescens*), Scrub Jay nests, and Scrub Jay habitat.
3. The existence of Gopher Tortoises (*Gopherus polyphemus*).
4. The existence of Bald Eagles (*Haliaeetus leucocephalus*), Bald Eagle nests, and Bald Eagle habitat.

SITE DESCRIPTION:

The subject property is a vacant 8.42-acre parcel located within the City of Titusville in Brevard County, Florida.

Please see Figure 1 for the Location of the Subject Property.

The subject property is located at 2800 Barna Avenue, Titusville, Florida. The subject property is located on the west side of Barna Avenue with commercial property (bank) to the north; a single family residential development to the south; and condominiums to the west.

METHODOLOGY:

The following methodologies were used for the subject property survey conducted on January 17, 2007:

1. The property was thoroughly surveyed for wetland plant species, hydric soils, and signs of hydrology.
2. The subject property was referenced through the Brevard County Scrub Jay Map. The subject property was then visited to confirm the historical findings.
3. A site visit to the subject property was conducted to confirm or deny the existence of Gopher Tortoises.
4. The subject property was referenced through the Florida Fish and Wildlife Conservation Commission Bald Eagle Nesting area maps. A site visit to the subject property was conducted to confirm or deny the existence of Bald Eagles.

FINDINGS:

Based upon this site inspection, a review of historic aerials, and environmental resource maps, the following observations were made:

Wetlands

The site is primarily uplands. A small area along the southern property boundary was identified as having wetland characteristics. These include wetland plants, mucky soils and hydric indicators. The wetland was identified with orange flags labeled W-1 through W-6. These flags will need to be surveyed so that the exact acreage can be calculated.

Scrub Jay Habitat

The property is not located within a Scrub Jay habitat (polygon).

Gopher Tortoises Habitat

Based upon this site inspection, a review of historic aerials, and environmental resource maps, no Gopher Tortoises burrow were observed. This is consistent with the human impacts observed on the property.

Bald Eagle Habitat

Based upon this site inspection, a review of historic aerials, and environmental resource maps, the subject property indicated no existence of Bald Eagles, Bald Eagle nests, or Bald Eagle habitats. This finding is supported by the Florida Fish and Wildlife Conservation Commission findings.

CONCLUSIONS:

Wetlands

A small area (estimated at less than ¼ acre) along the southern property boundary was identified as having wetland characteristics. These include wetland plants, mucky soils and hydric indicators. The wetland was identified with orange flags labeled W-1 through W-6. These flags will need to be surveyed so that the exact acreage can be calculated. As part of the permit evaluation process, the permit reviewer from the SJRWMD will require a site visit to verify wetland boundaries. Due to the size of the wetland impact (less than 0.5 acre), no mitigation will likely be required.

Please see Figure 4/ On-site photographs for a photograph in of the impacted area.

Scrub Jay Habitat

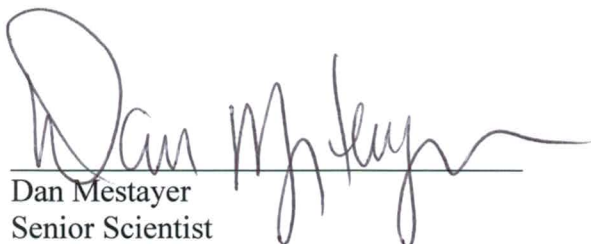
In regards to the presence of Scrub Jays, no Scrub Jays, Scrub Jay habitat, or other indicators were observed at the subject property.

Gopher Tortoises Habitat

In regards to the presence of Gopher Tortoises, no Gopher Tortoises, Gopher Tortoises burrows or other indicators were observed at the subject property.

Bald Eagle Habitat

The conclusion of the findings is that the subject property is not a Bald Eagle habitat nor is it within the Bald Eagle habitat buffer zone.



Dan Mestayer
Senior Scientist

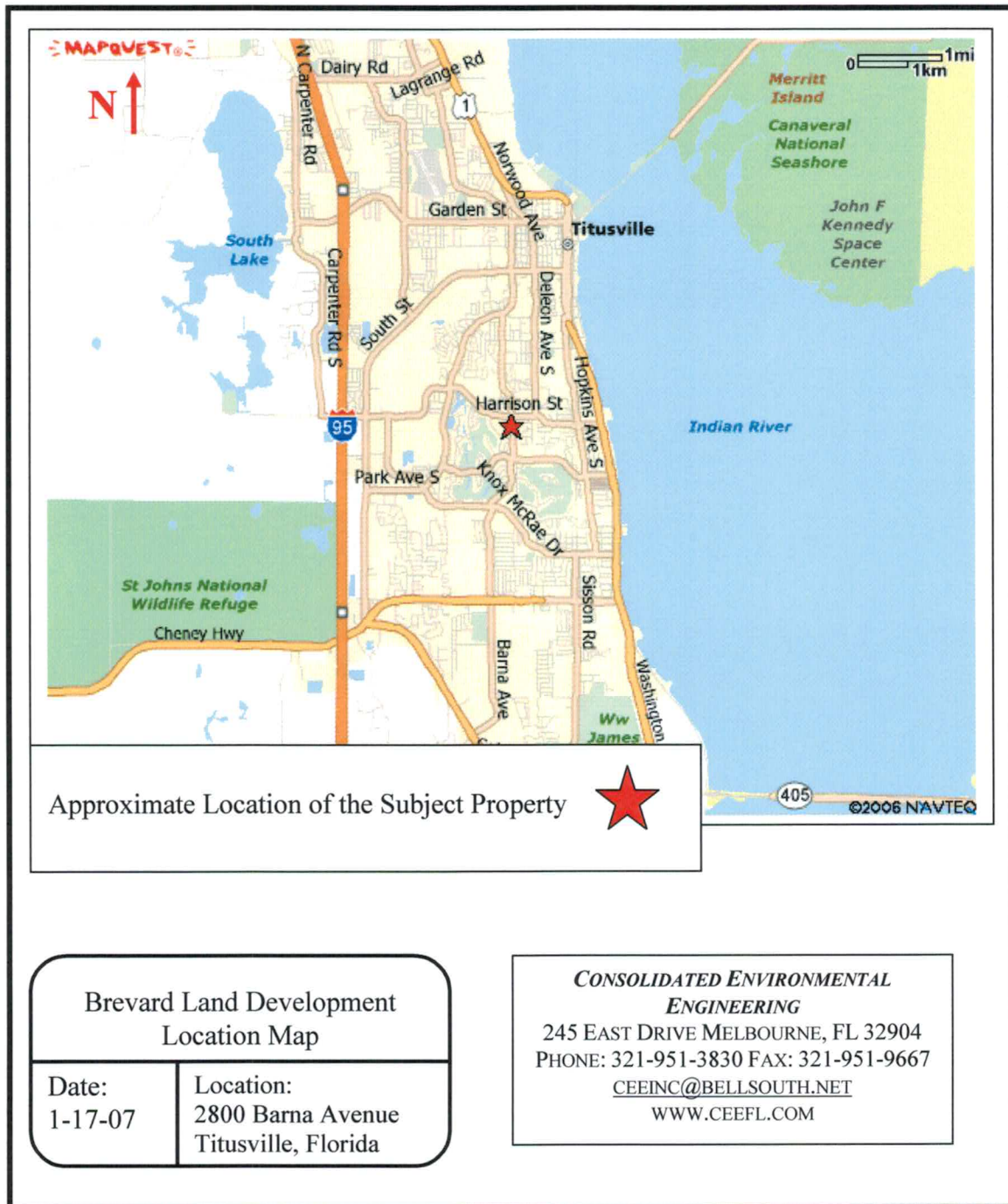


Figure 1/ Location of the Subject Property



**Brevard Land Development
Aerial Photograph**

Date:
1-17-07

Location:
2800 Barna Avenue
Titusville, Florida

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Figure 2/ Aerial Photograph of the Subject Property



Northern Boundary of Subject Property, Adjacent to Bank



Southern Boundary of Subject Property, Adjacent to Residential Development



Eastern Boundary of Subject Property, Adjacent to Barna Avenue



Typical View of the Palmetto and Oak Scrub

**Brevard Land Development
On-site Photographs**

Date:
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Figure 3/ Photographs from the Subject Property



View of the Pine and Palmetto



View of the Pine and Palmetto



Less than 0.5 Acre Wetland
Identified in Southern Portion of
Subject Property



Human Impacts Identified at the
Subject Property

**Brevard Land Development
On-site Photographs**

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Figure 4/ Photographs from the Subject Property