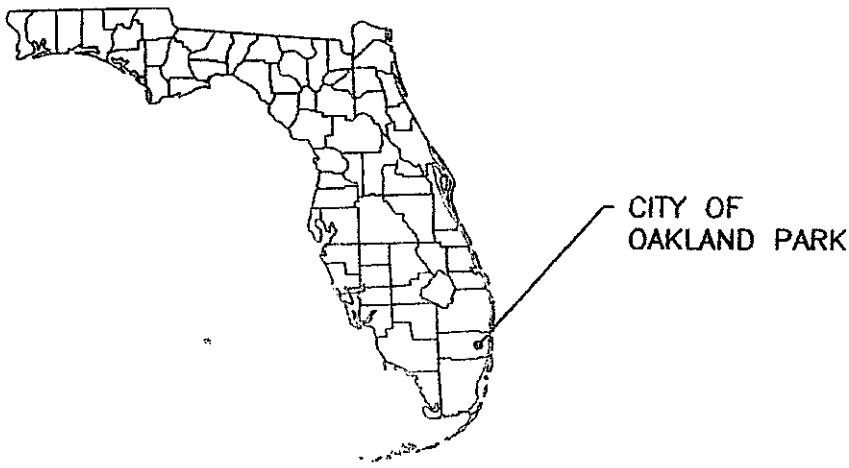
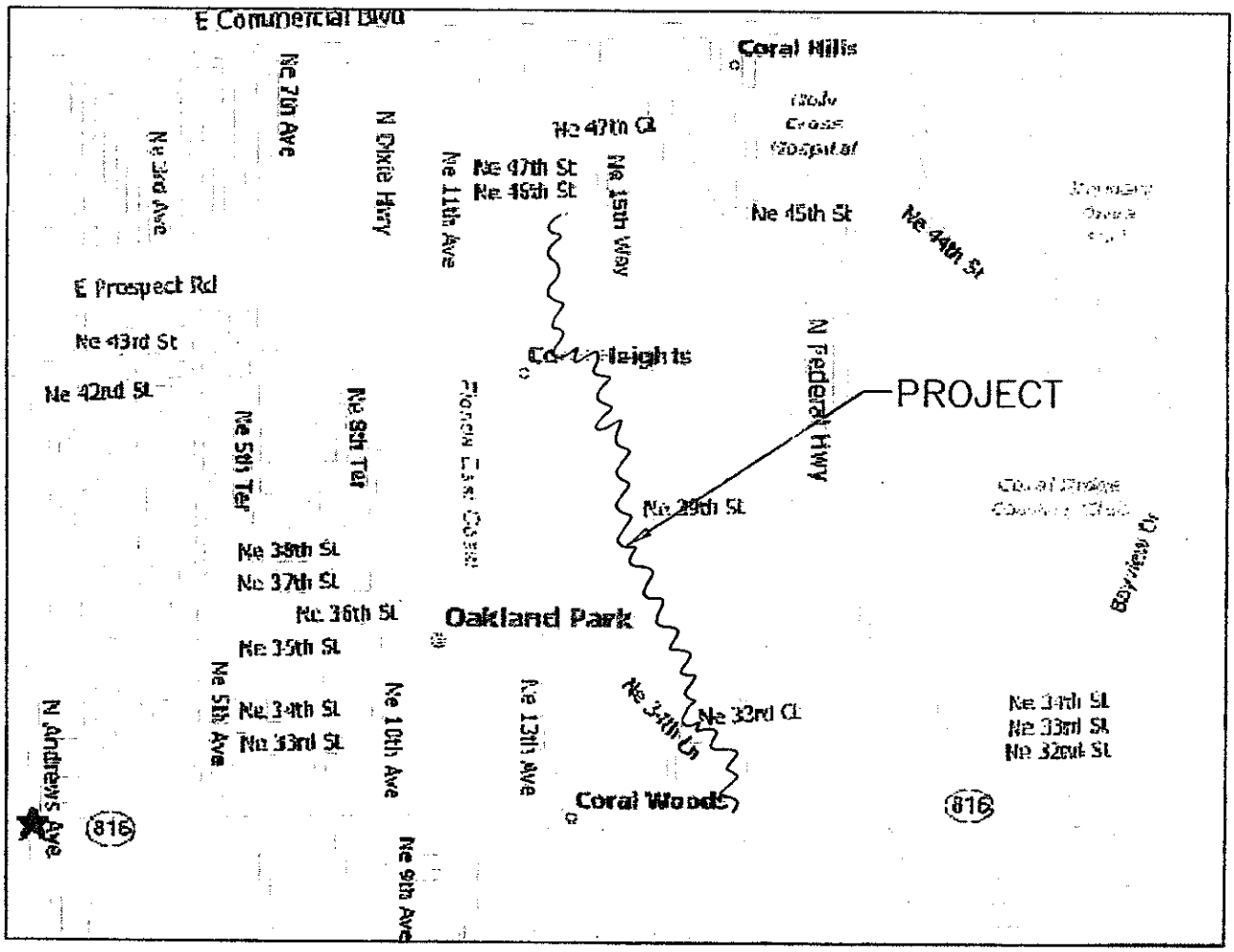
EXHIBIT A
LOCATION MAP



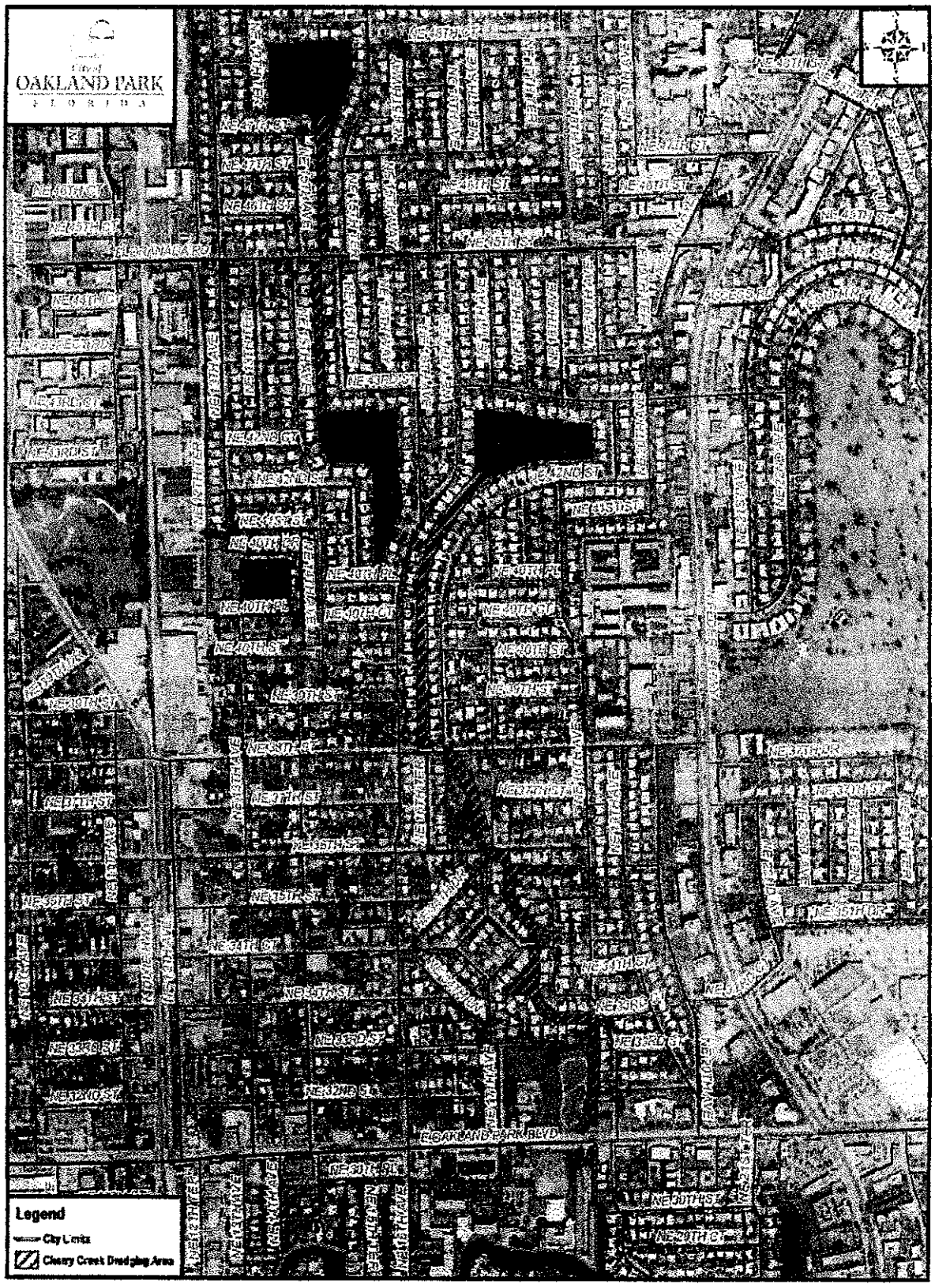
VICINITY MAP



SECTION 23, TOWNSHIP 49, RANGE 42E

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
1000 West McNab Road - Pompano Beach
Florida 33069 (954) 782-8222
FAX: (954) 786-8927 E-Mail:casassoc@aol.com

EXHIBIT B
AERIAL MAP



P:\07-1450\Cherry Creek\CADD-FILES\EXHIBIT-B.dwg, 10/3/2007 11:49:05 AM, jpancaro, 1:1, -

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
1000 West McNab Road - Pompano Beach
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CITY OF OAKLAND PARK
CHERRY CREEK DREDGING PROJECT
ENGINEER'S OPINION OF PROBABLE COST ESTIMATE

ITEM No.	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
1	Mobilization and Demobilization	1	LS	$ 50,000.00	$ 50,000.00
2	Maintenance of Traffic	1	LS	$ 6,000.00	$ 6,000.00
3	Survey Stakeout and As-Builts	1	LS	$ 6,000.00	$ 6,000.00
4	Testing	1	LS	$ 4,000.00	$ 4,000.00
5	Pre-Dredging Sampling Program	1	LS	$ 10,000.00	$ 10,000.00
	Demolition				
6	Clearing and Stripping	1	LS	$ 25,000.00	$ 25,000.00
	Channel Dredging				
7	Channel Dredging	8060	CY	$ 75.00	$ 604,500.00
8	Box Culvert Dredging	230	CY	$ 100.00	$ 23,000.00
9	Oyster Bed Mitigation	1	LS	$ 20,000.00	$ 20,000.00
	Miscellaneous				
10	Turbidity Screen	325	LF	$ 22.50	$ 7,312.50
11	Regrade Canal Bank	1	LS	$ 30,000.00	$ 30,000.00
12	Sod Restoration	250	SY	$ 15.00	$ 3,750.00
13	Removal and Proper Disposal of Contaminated Soils During Dredging	8060	CY	$ 40.00	$ 322,400.00
				COST:	$ 1,111,962.50
	ENGINEERING DESIGN				$ 70,000.00
				TOTAL COST:	$ 1,181,962.50

CZR INCORPORATED
ENVIRONMENTAL CONSULTANTS

THREE PALMS CENTER
2151 ALTERNATE A1A SOUTH
SUITE 2000
JUPITER, FLORIDA 33477-3902

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FAX 561/747-7576
czrinc@czr-inc.com

14 May 2007

Mr. Stephen C. Smith, P.E.
Craig A. Smith & Associates
100 West McNab Road, Suite 200
Pompano Beach, FL 33069

Subject: City of Oakland Park, Cherry Creek Maintenance Dredge Report of Biological Site Assessment

Dear Mr. Smith:

CZR Incorporated is pleased to provide this report of the results of our site inspections on the referenced project area. The project site was assessed by boat on April 30, 2007 to evaluate environmental resources potentially affected by the proposed maintenance dredge. Land use cover mapping was performed by aerial photo interpretation, ground truthing and GPS locations at boundary intervals. The attached drawing (Figure 1) displays the results of Florida Land Use Cover and Forms Classification System (FLUCCS) cover types observed onsite. Creek bottom habitats were examined visually and by probe to identify the approximate limits of bottom classifications. Our results confirm the locations of living oyster beds as shown on your design plans and further define the limits of transitional bottom areas of hard-bottom/shell, sandy and muck bottom conditions.

Jurisdictional wetlands and surface water habitats regulated by federal, state and local environmental agencies, are indicated on the attached drawing (Figure 1) by the mangrove swamp (category 612), oyster bed (category 546), and tidal creek (categories numbered 510 h, 510 Sa, 510 m).

A survey of wildlife and plants was conducted to identify any occurrences of species listed for protection by the U.S. Fish and Wildlife Service (FWS) and the Florida Fish and Wildlife Conservation Commission (FFWCC). Resource agencies were contacted by letter requesting any occurrences in the project vicinity, in their databases. Responses received to date are attached. As the additional responses are received, they will be appended to this report to update it. Some listed species which may potentially occur at the project based upon habitat occurrences and geographical ranges include American alligator, wood stork, manatee, bald eagle, and Johnson's seagrass. No protected species were observed at the project site with the exception of the white ibis, a Species of Special Concern by the FFWCC. No seagrasses were observed on firm substrates at depths to 3 feet ± by inspection with a view-tube employed from a boat between Oakland Park Blvd. and N.E. 16th Avenue. The project area at the 45th Street bridge, however, contains turtle grass (*Thalassia testudium*) as shown on Figure 1.

Jurisdictional wetland and surface water habitats were assessed for their current functions and post-project impacted functions using the Florida Unified Mitigation Assessment Method (UMAM) evaluation procedures (attached). The Impact Delta Value for each unit may be used to compute the functional loss due to project dredging activities based upon the areas of unit impacted. The total loss of function, as confirmed by environmental permitting agencies, will define the wetland mitigation required to off-set the functional loss. Direct impacts of the project area requiring bottom dredging to the original canal bottom elevations, as indicated on the project design plans, would create a total functional loss estimated at 0.41 UMAM functional units.

The attached products of our site analysis are for your review and will serve as part of the application requirements of the Joint Application for an Environmental Resource Permit by the U.S. Army Corps of Engineers and the Florida Department of Environmental Protection in determining required mitigation. Please call with any questions concerning this report.

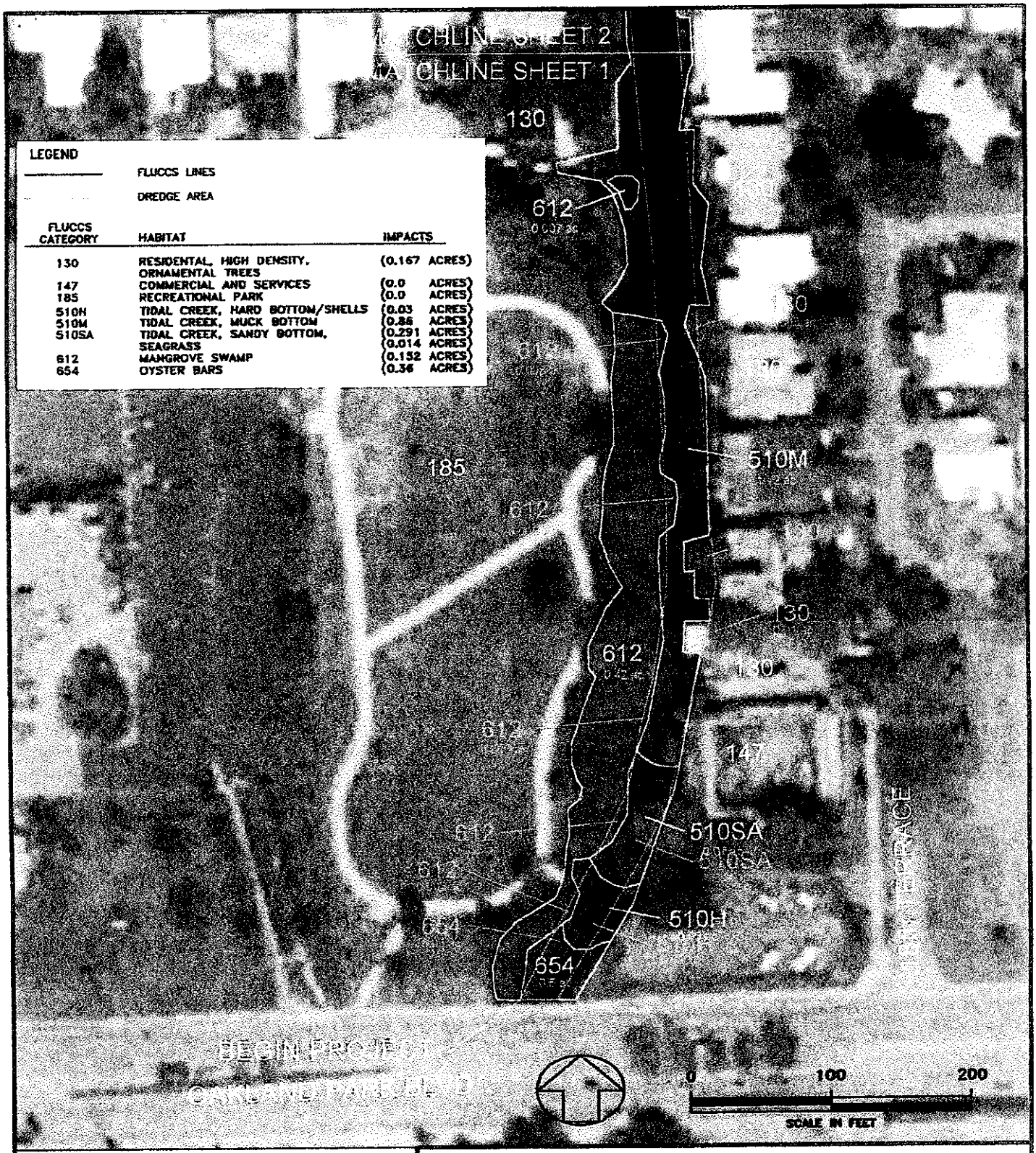
Sincerely yours,

CZR Incorporated

Samuel E. Wiley
Vice President

SEW/jab

Word\jobs\2126\0507 Smith.ltr REPORT



LEGEND

FLUCCS LINES

DREDGE AREA

FLUCCS CATEGORY	HABITAT	IMPACTS
130	RESIDENTAL, HIGH DENSITY, ORNAMENTAL TREES	(0.167 ACRES)
147	COMMERCIAL AND SERVICES	(0.0 ACRES)
185	RECREATIONAL PARK	(0.0 ACRES)
510H	TIDAL CREEK, HARD BOTTOM/SHELLS	(0.03 ACRES)
510M	TIDAL CREEK, MUCK BOTTOM	(0.86 ACRES)
510SA	TIDAL CREEK, SANDY BOTTOM, SEAGRASS	(0.291 ACRES) (0.014 ACRES)
612	MANGROVE SWAMP	(0.152 ACRES)
654	OYSTER BARS	(0.36 ACRES)

SOURCE:
FLUCFCS=FLORIDA LAND USE COVER AND FORMS CLASSIFICATION SYSTEM (FDOT, 1985)

FLUCFCS LINES PREPARED BY CZR INCORPORATED BASED ON AERIAL PHOTO INTERPRETATION AND GROUND TRUTHING. WETLAND COVER TYPE LINES DEFINED BY FIELD MAPPING

DREDGE BOUNDARY DIGITIZED FROM CHERRY CREEK MAINTENANCE DREDGING PROJECT, PROVIDED BY: CRAIG A. SMITH & ASSOCIATES, 1000 WEST MCNAB ROAD, POMPANO BEACH, FLORIDA 33069, 954-782-8222

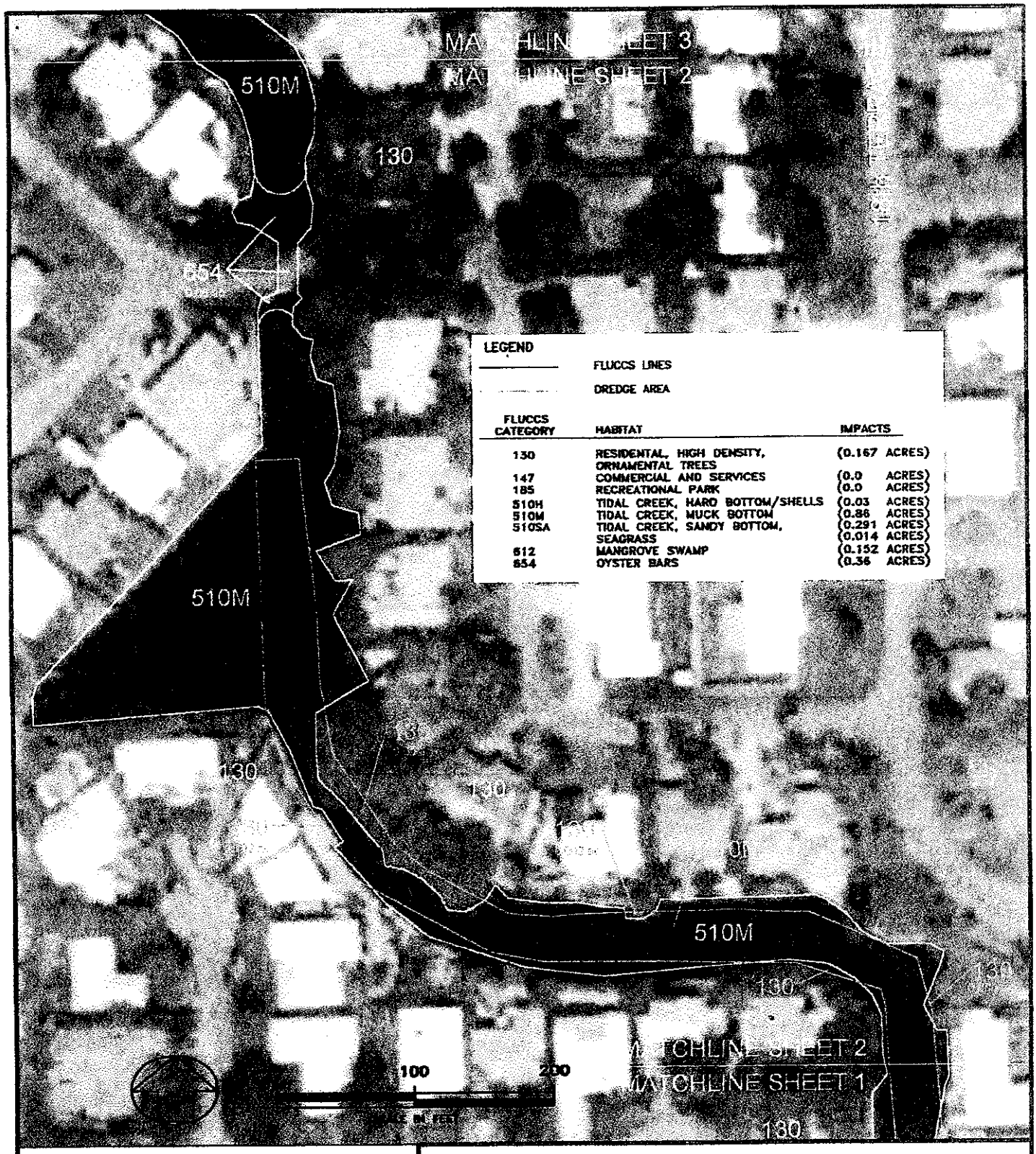
AERIAL RETRIEVED FROM LABINS LAND BOUNDARY INFORMATION SYSTEMS AT: http://data.labins.org. QUAD NAMES: FORT LAUDERDALE NORTH (26080 #82) DATED: FLOWN 2004

FLUCCS COVER

OAKLAND PARK
CHERRY CREEK DREDGE

SCALE: AS SHOWN	APPROVED BY:	DRAWN BY: TLJ
DATE: 05/10/07		FILE: 2126-FLU
		CP# 2126.00
		FIGURE 1 SHEET 1

CZR INCORPORATED
2151 ALTERNATE A1A SOUTH SUITE 2000
JUPITER, FLORIDA 33477-9602
TEL 561/747-7405
FAX 561/747-7576



LEGEND

FLUCCS LINES

DREDGE AREA

FLUCCS CATEGORY	HABITAT	IMPACTS
130	RESIDENTAL, HIGH DENSITY, ORNAMENTAL TREES	(0.167 ACRES)
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612	MANGROVE SWAMP	(0.152 ACRES)
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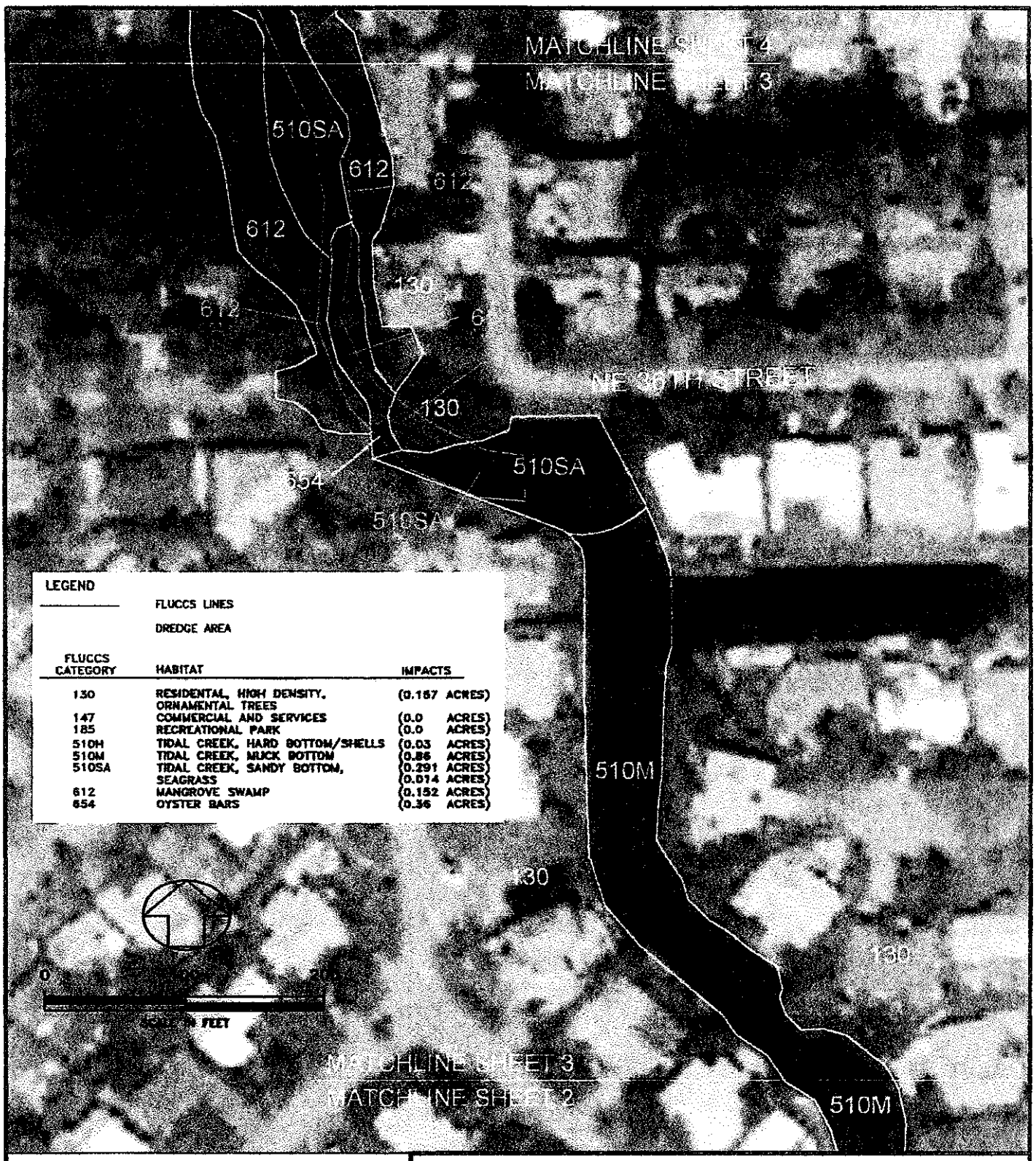
FLUCCS COVER

OAKLAND PARK
CHERRY CREEK DREDGE

SCALE: AS SHOWN	APPROVED BY:	DRAWN BY: TLJ
DATE: 05/10/07		FILE: 2126-FLU
		CP# 2126.00
		FIGURE 1 SHEET 2

CZR INCORPORATED ENVIRONMENTAL CONSULTANTS
2151 ALTERNATE A1A SOUTH
SUITE 2000
JUPITER, FLORIDA 33477-9002
TEL 561/747-7455
FAX 561/747-7576



SOURCE:

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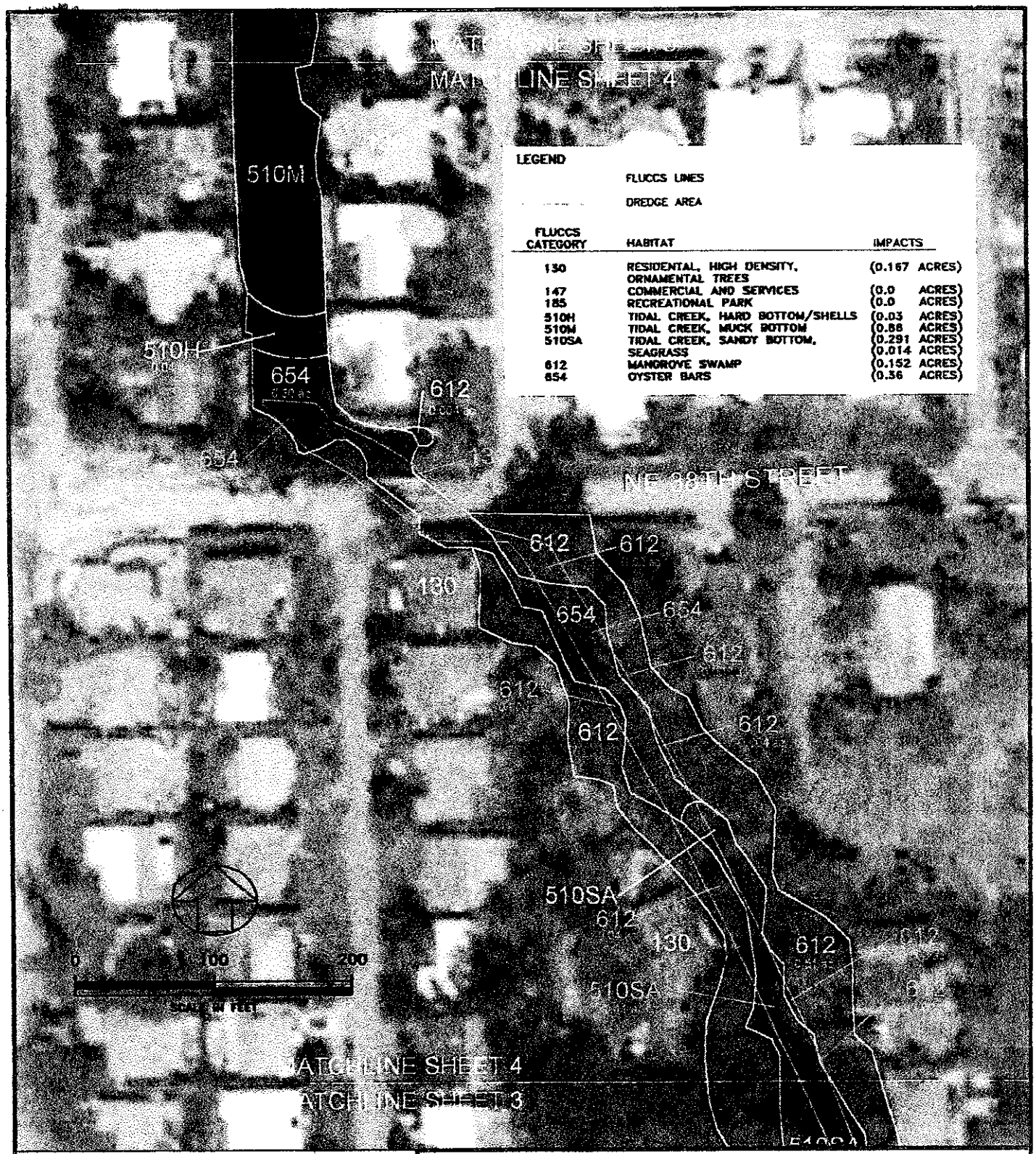
AERIAL RETRIEVED FROM LABINS LAND BOUNDARY INFORMATION SYSTEMS AT: http://data.labins.org, QUAD NAMES: FORT LAUDERDALE NORTH (26080 #82) DATED: FLOWN 2004

FLUCCS COVER

OAKLAND PARK
CHERRY CREEK DREDGE

SCALE: AS SHOWN	APPROVED BY:	DRAWN BY: TLJ
DATE: 05/10/07		FILE: 2126-FLU
		CP# 2126.00
		FIGURE 1 SHEET 3

CZR INCORPORATED
2131 ALTERNATE A1A SOUTH
SUITE 2000
JUPITER, FLORIDA 33477-9462
TEL 561/747-7400
FAX 561/747-7576



LEGEND

FLUCCS LINES

DREDGE AREA

FLUCCS CATEGORY	HABITAT	IMPACTS
130	RESIDENTIAL, HIGH DENSITY, ORNAMENTAL TREES	(0.167 ACRES)
147	COMMERCIAL AND SERVICES	(0.0 ACRES)
185	RECREATIONAL PARK	(0.0 ACRES)
510H	TIDAL CREEK, HARD BOTTOM/SHELLS	(0.03 ACRES)
510M	TIDAL CREEK, MUCK BOTTOM	(0.88 ACRES)
510SA	TIDAL CREEK, SANDY BOTTOM, SEAGRASS	(0.291 ACRES) (0.014 ACRES)
612	MANGROVE SWAMP	(0.152 ACRES)
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AERIAL RETRIEVED FROM LABINS LAND BOUNDARY INFORMATION SYSTEMS AT: http://data.labins.org. QUAD NAMES: FORT LAUDERDALE NORTH (26080 /B2) DATED: FLOWN 2004

FLUCCS COVER

OAKLAND PARK
CHERRY CREEK DREDGE

SCALE: AS SHOWN	APPROVED BY:	DRAWN BY: TLJ
DATE: 05/10/07		FILE: 2126-FLU

CZR INCORPORATED
ENVIRONMENTAL CONSULTANTS
2181 ALTERNATE A1A SOUTH
SUITE 2B06
JUPITER, FLORIDA 33477-3902
TEL 561/747-7455
FAX 561/747-7576

CP# 2126.00

FIGURE 1
SHEET 4

SOURCE:
FLUCFCS=FLORIDA LAND USE COVER AND FORMS CLASSIFICATION SYSTEM (FDOT, 1985)

FLUCFCS LINES PREPARED BY CZR INCORPORATED BASED ON AERIAL PHOTO INTERPRETATION AND GROUND TRUTHING. WETLAND COVER TYPE LINES DEFINED BY FIELD MAPPING

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AERIAL RETRIEVED FROM LABINS LAND BOUNDARY INFORMATION SYSTEMS AT: http://data.labins.org.
QUAD NAMES: FORT LAUDERDALE NORTH (26080 #B2)
DATED: FLOWN 2004

FLUCCS COVER

OAKLAND PARK
CHERRY CREEK DREDGE

SCALE: AS SHOWN	APPROVED BY:	DRAWN BY: TLJ
DATE: 05/10/07		FILE: 2126-FLU
		CP# 2126.00
		FIGURE 1 SHEET 5

CZR INCORPORATED ENVIRONMENTAL CONSULTANTS
2151 ALTERNATE A1A SOUTH SUITE 2000
JUPITER, FLORIDA 33477-9602
TEL 561/747-7455
FAX 561/747-7575

SOURCE:

FLUCFCS=FLORIDA LAND USE COVER AND FORMS CLASSIFICATION SYSTEM (FDOT, 1985)

FLUCFCS LINES PREPARED BY CZR INCORPORATED BASED ON AERIAL PHOTO INTERPRETATION AND GROUND TRUTHING. WETLAND COVER TYPE LINES DEFINED BY FIELD MAPPING

DREDGE BOUNDARY DIGITIZED FROM CHERRY CREEK MAINTENANCE DREDGING PROJECT, PROVIDED BY: CRAIG A. SMITH & ASSOCIATES, 1000 WEST MCNAB ROAD, POMPANO BEACH, FLORIDA 33069, 954-782-8222

AERIAL RETRIEVED FROM LABINS LAND BOUNDARY INFORMATION SYSTEMS AT: http://data.labins.org. QUAD NAMES: FORT LAUDERDALE NORTH (25080 #82) DATED: FLOWN 2004

FLUCCS COVER

OAKLAND PARK
CHERRY CREEK DREDGE

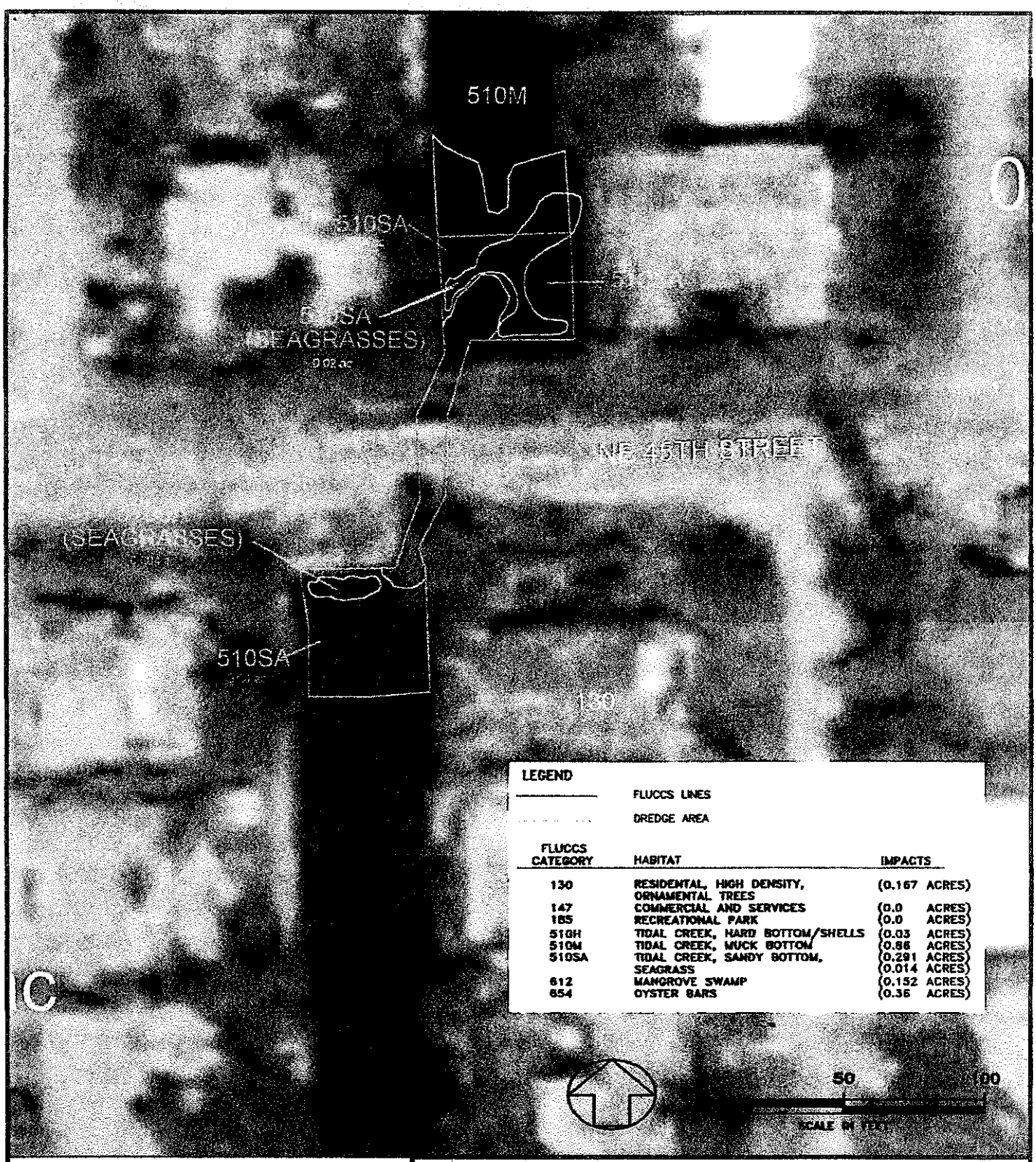
SCALE: AS SHOWN	APPROVED BY:	DRAWN BY: TLJ
DATE: 05/10/07		FILE: 2126-FLU

CZR

2101 ALTERNATE A1A SOUTH
SUITE 2000
JUPITER, FLORIDA 33477-3902

CP# 2126.00

FIGURE 1
SHEET 6



SOURCE:
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QUAD NAMES: FORT LAUDERDALE NORTH (26080 /B2)
DATED: FLOWN 2004

FLUCCS COVER

OAKLAND PARK
CHERRY CREEK DREDGE

SCALE: AS SHOWN	APPROVED BY:	DRAWN BY: TLJ
DATE: 05/10/07		FILE: 2126-FLU
		CP# 2126.00
		FIGURE 1 SHEET 7

CZR INCORPORATED
ENVIRONMENTAL CONSULTANTS
2151 ALTERNATE A1A SOUTH
SUITE 200B
JUPITER, FLORIDA 33477-9002
TEL 561/747-7455
FAX 561/747-7578

PART I – Qualitative Description
(See Section 62-345.400)

Site/Project Name	Application Number	Assessment Area Name or Number
Cherry Creek Maintenance Dredge City of Oakland Park		Tidal Creek, Hard Bottom/Shell Bottom

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
510 h	Channelized, Tidally-Influenced	Impact	0.03 ac.

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e. OFWA, AP, other local/state/federal/designation of importance)
Cherry Creek	III Marine Water	None

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

Depends upon tidal water connections. This assessment area is found as transitional between 654 oyster bars and 510 Sa (sandy bottom).

Assessment area description

Rock rubble and shell rubble found at the base of the bulk-headed shoreline with high percentage of rock and dead oyster shells.

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
Same	Same

Functions	Mitigation for previous permit/other historic use
Water storage & drainage, water quality treatment, estuarine wildlife habitat, navigational & recreational activities.	None

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found.)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area.)
Garfish, mullet, snook, snapper, brackish water clam, chironomid insect larvae.	Manatee (E)

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

Mullet, pinfish, puffer fish, blue crab, brown crab.

Additional relevant factors:

Dredged samples seived revealed no seagrasses or larvae of insects or fish; small mollusks were captured.

Assessment conducted by:	Assessment date(s):
Wiley	30 April 2007

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET – PART II
Form 62-345.900(2), F.A.C. (See Sections 62-345.500 and .600, F.A.C.)

/Project Name	Application Number	Assessment Area Name or Number
Cherry Creek Maintenance Dredge		510 h
Impact	Assessment Conducted by: Sam Wiley	Assessment Date: 30 April 2007

Scoring Guidance	Optimal (10)	Moderate (7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	a. Quality and quantity of habitat support outside of AA.		
	b. Invasive plant species.		
	c. Wildlife access to and from AA (proximity and barriers).		
	d. Downstream benefits provided to fish and wildlife.		
	e. Adverse impacts to wildlife in AA from land uses outside of AA.		
	f. Hydrologic connectivity (impediments and flow restrictions).		
Current: 7 / With Impact: 6	g. Dependency of downstream habitats on quantity or quality of discharges.		
	h. Protection of wetland functions provided by uplands (upland AAs only).		
	Notes:		
.500(6)(b) Water Environment (n/a for uplands)	a. Appropriateness of water levels and flows.		
	b. Reliability of water level indicators.		
	c. Appropriateness of soil moisture.		
	d. Flow rates/points of discharge.		
	e. Fire frequency/severity.		
	f. Type of vegetation.		
	g. Hydrologic stress on vegetation.		
	h. Use by animals with hydrologic requirements.		
	i. Plant community composition associated with water quality (i.e., plants tolerant of poor WQ).		
	j. Water quality of standing water by observation (i.e., discoloration, turbidity).		
ent / With Impact: 0	k. Water quality data for the type of community.		
9	l. Water depth, wave energy, and currents.		
	Notes:		

.500(b)(c) Community Structure	Vegetation	Benthic	
	I. Appropriate/desirable species	I. Extent, diversity or appropriate species and organisms	
	II. Invasive/exotic plant species	II. Invasive/exotic species	
____ Vegetation	III. Regeneration/recruitment	III. Regeneration, recruitment, age distribution	
	IV. Age, size distribution	IV. Species' condition, biomass	
√ Benthic	V. Snags, dens, cavity, etc.	V. Structural features	
	VI. Plants' condition	VI. Topographic features	
____ Both	VII. Land management practices		
	VIII. Topographic features (refugia, channels, hammocks)		
Current / With Impact	IX. Submerged vegetation (only score if present)		
	X. Upland assessment area		
7 / 0		=	
	Notes:		

Raw Score = Sum of above scores/30 (if uplands, divide by 20)	
Current	With Impact
0.78	0.20

Impact Acres =	0.03

Functional Loss (FL) (For Impact Assessment Areas):	
FL = ID x Impact Acres =	0.02

Impact Delta (ID)	
With – W/O =	0.58

PART I – Qualitative Description
(See Section 62-345.400)

Site/Project Name	Application Number	Assessment Area Name or Number
[redacted]herry Creek Maintenance Dredge City of Oakland Park		Tidal Creek, Sandy Bottom

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
510 Sa	Channelized, Tidally-Influenced	Impact	0.291 ac.

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e. OFWA, AP, other local/state/federal/designation of importance)
Cherry Creek	III Marine Waters	None

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

This assessment area is found as transitional areas between 510 m and 510 h bottom habitats at intermediate depths of the project area. It is dependent upon good hydrologic connections to tidal waters and swift currents.

Assessment area description

Brown algae, sandy substrate, no seagrasses observed.

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
Same	Same

[redacted]ctions	Mitigation for previous permit/other historic use
Estuarine wildlife habitat, water storage and detention, water quality treatment navigational/recreational activities.	None

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found.)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area.)
Garfish, mullet, snook, snapper, brackish water clam, chironomid insect larvae.	Manatee (E); Johnson's seagrass (T); Alligator (SSC)

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, castings, nests, etc.):

Marine mullosks, mudskipper, mullet, pin fish, puffer fish, blue crab, brown crab. Turtle grass (*Thallasia testudinum*) occurs adjacent to oyster beds at the NE 45th Street Bridge location.

Additional relevant factors:

Dredged samples seived for macroinvertebrates found two species of mollusks, no larvae of fish or insects were found.

Assessment conducted by:	Assessment date(s):
[redacted]m Wiley	30 April 2007

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET – PART II
Form 62-345.900(2), F.A.C. (See Sections 62-345.500 and .600, F.A.C.)

Project Name	Application Number	Assessment Area Name or Number
Cherry Creek Maintenance Dredge		510 Sa
Impact	Assessment Conducted by: Sam Wiley	Assessment Date: 30 April 2007

Scoring Guidance	Optimal (10)	Moderate (7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support

Current	With Impact
7	6

a. Quality and quantity of habitat support outside of AA.	
b. Invasive plant species.	
c. Wildlife access to and from AA (proximity and barriers).	
d. Downstream benefits provided to fish and wildlife.	
e. Adverse impacts to wildlife in AA from land uses outside of AA.	
f. Hydrologic connectivity (impediments and flow restrictions).	
g. Dependency of downstream habitats on quantity or quality of discharges.	
h. Protection of wetland functions provided by uplands (upland AAs only).	

Notes:

.500(6)(b) Water Environment (n/a for uplands)

Current

Current	With Impact
8	0

a. Appropriateness of water levels and flows.	
b. Reliability of water level indicators.	
c. Appropriateness of soil moisture.	
d. Flow rates/points of discharge.	
e. Fire frequency/severity.	
f. Type of vegetation.	
g. Hydrologic stress on vegetation.	
h. Use by animals with hydrologic requirements.	
i. Plant community composition associated with water quality (i.e., plants tolerant of poor WQ).	
j. Water quality of standing water by observation (i.e., discoloration, turbidity).	
k. Water quality data for the type of community.	
l. Water depth, wave energy, and currents.	

Notes:

.500(b)(c) Community Structure

____ Vegetation
√ Benthic
____ Both

Current	With Impact
7	0

Vegetation	Benthic	
I. Appropriate/desirable species	I. Extent, diversity or appropriate species and organisms	
II. Invasive/exotic plant species	II. Invasive/exotic species	
III. Regeneration/recruitment	III. Regeneration, recruitment, age distribution	
IV. Age, size distribution	IV. Species' condition, biomass	
V. Snags, dens, cavity, etc.	V. Structural features	
VI. Plants' condition	VI. Topographic features	
VII. Land management practices		
VIII. Topographic features (refugia, channels, hammocks)		
IX. Submerged vegetation (only score if present)		
X. Upland assessment area		

Notes:

Raw Score = Sum of above scores/30 (if uplands, divide by 20)

Current	With Impact
0.73	0.20

Impact Acres =	0.29

Functional Loss (FL) (For Impact Assessment Areas):	
FL = ID x Impact Acres =	0.15

Impact Delta (ID)	
With – W/O =	0.53

PART I – Qualitative Description
(See Section 62-345.400)

Site/Project Name	Application Number	Assessment Area Name or Number
Cherry Creek Maintenance Dredge City of Oakland Park		Tidal Creek, Muck Bottom

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
510 m	Channelized, Tidally-Influenced	Impact	0.86 ac.

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e. OFWA, AP, other local/state/federal/designation of importance)
Cherry Creek	III Marine Waters	None

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

The deeper, more slowly moving currents of the project area promote deposition of sediments. The currents and deposition rates are connected to tidal influence via marine/estuarine connectivity and freshwater stormwater discharges.

Assessment area description

Muck bottom 1 to 3 feet thick, black/brown sediments with pollutants likely concentrated.

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
The project is located in a residential neighborhood and is crossed by bridges for residential streets, and [illegible]epts stormwater runoff & discharges from [illegible]acent properties.	Tidal waters are not common in the residential regional landscape.

Functions	Mitigation for previous permit/other historic use
Muck bottoms are less productive biologically; acts as pollutant traps.	None

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found.)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area.)
Mullet, alligator.	Manatee (E); Alligator (SSC)

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

Muscovy duck, mullet, puffer fish, pin fish.

Additional relevant factors:

This assessment area occurs in the project in wider, deeper portions that are contained by cement vertical bulkheads.

Assessment conducted by:	Assessment date(s):
[illegible]n Wiley	30 April 2007

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET – PART II
Form 62-345.900(2), F.A.C. (See Sections *62-345.500* and *.600, F.A.C.)*

Site/Project Name	Application Number	Assessment Area Name or Number
Cherry Creek Maintenance Dredge		510 m
Impact	Assessment Conducted by: Sam Wiley	Assessment Date: 30 April 2007

Scoring Guidance	Optimal (10)	Moderate (7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support

a. Quality and quantity of habitat support outside of AA.	
b. Invasive plant species.	
c. Wildlife access to and from AA (proximity and barriers).	
d. Downstream benefits provided to fish and wildlife.	
e. Adverse impacts to wildlife in AA from land uses outside of AA.	
f. Hydrologic connectivity (impediments and flow restrictions).	
g. Dependency of downstream habitats on quantity or quality of discharges.	
h. Protection of wetland functions provided by uplands (upland AAs only).	

Current	With Impact
7	6

Notes:

.500(6)(b) Water Environment (n/a for uplands)

a. Appropriateness of water levels and flows.	
b. Reliability of water level indicators.	
c. Appropriateness of soil moisture.	
d. Flow rates/points of discharge.	
e. Fire frequency/severity.	
f. Type of vegetation.	
g. Hydrologic stress on vegetation.	
h. Use by animals with hydrologic requirements.	
i. Plant community composition associated with water quality (i.e., plants tolerant of poor WQ).	
j. Water quality of standing water by observation (i.e., discoloration, turbidity).	
k. Water quality data for the type of community.	
l. Water depth, wave energy, and currents.	

Current	With Impact
8	9

Notes:

.500(b)(c) Community Structure

____ Vegetation
√ Benthic
____ Both

Vegetation	Benthic	
I. Appropriate/desirable species	I. Extent, diversity or appropriate species and organisms	
II. Invasive/exotic plant species	II. Invasive/exotic species	
III. Regeneration/recruitment	III. Regeneration, recruitment, age distribution	
IV. Age, size distribution	IV. Species' condition, biomass	
V. Snags, dens, cavity, etc.	V. Structural features	
VI. Plants' condition	VI. Topographic features	
VII. Land management practices		
VIII. Topographic features (refugia, channels, hammocks)		
IX. Submerged vegetation (only score if present)		
X. Upland assessment area		

Current	With Impact
2	8

Notes:

Raw Score = Sum of above scores/30
(If uplands, divide by 20)

Current	With Impact
0.57	0.77

Impact Acres =	0.86

~~Functional Loss (FL)~~ – GAIN
(For Impact Assessment Areas):

FL = ID x Impact Acres =	(+)0.17

Impact Delta (ID)	
With – W/O =	(+)0.20

PART I – Qualitative Description
(See Section 62-345.400)

Site/Project Name	Application Number	Assessment Area Name or Number
Cherry Creek Maintenance Dredge City of Oakland Park		Oyster Bars

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
654	Tidally Influenced Waters	Impact	0.360 ac.

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e. OFWA, AP, other local/state/federal/designation of importance)
Cherry Creek	III Marine Waters	None

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

Oyster bars are dependant upon connectivity to well oxygenated, inter-tidal waters of good water quality, swift currents resulting in firm substrates for attachment for survival and reproduction.

Assessment area description

Living oyster bars occur within the project area at 4 locations associated with bridge/culverts providing suitable substrates and swifter currents resulting from constricted flow. Oysters also occur on vertical bulkheads throughout the project area and 2 to 5 feet at the base of the bulkheads where rock rubble provides hard substrate.

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
The project occurs in a residential neighborhood with [redacted]ge crossings of the creek for residential streets [redacted]d accepts stormwater discharges.	Tidal creeks supporting oysters are not common within the regional residential landscape.
Functions	**Mitigation for previous permit/other historic use**
Stormwater detention and discharge, water quality enhancements, marine life forage, oyster production.	None
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found.)	**Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area.)**
Boring sponges, polycheate worms, mollusk production.	Florida bonneted bat (*Eumops floridanus*) – potentially under bridges – not listed federal or state.

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

Pin fish, mullet, puffer fish, brown algae.

Additional relevant factors:

Oyster bars occur in the shallower depths of the project's maintenance channel which impede water flow and navigation.

Assessment conducted by:	Assessment date(s):
[redacted]m Wiley	30 April 2007

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET – PART II
Form 62-345.900(2), F.A.C. (See Sections 62-345.500 and .600, F.A.C.)

e/Project Name	Application Number	Assessment Area Name or Number
erry Creek Maintenance Dredge		Oyster Bar
Impact	*Assessment Conducted by:* Sam Wiley	Assessment Date: 30 April 2007

Scoring Guidance	Optimal (10)	Moderate (7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	*Minimal level of support of* wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support

Current	With Impact
7	6

a. Quality and quantity of habitat support outside of AA.	
b. Invasive plant species.	
c. Wildlife access to and from AA (proximity and barriers).	
d. Downstream benefits provided to fish and wildlife.	
e. Adverse impacts to wildlife in AA from land uses outside of AA.	
f. Hydrologic connectivity (impediments and flow restrictions).	
g. Dependency of downstream habitats on quantity or quality of discharges.	
h. Protection of wetland functions provided by uplands (upland AAs only).	

Notes:

.500(6)(b) Water Environment (n/a for uplands)

ent	With Impact
9	0

a. Appropriateness of water levels and flows.	
b. Reliability of water level indicators.	
c. Appropriateness of soil moisture.	
d. Flow rates/points of discharge.	
e. Fire frequency/severity.	
f. Type of vegetation.	
g. Hydrologic stress on vegetation.	
h. Use by animals with hydrologic requirements.	
i. Plant community composition associated with water quality (i.e., plants tolerant of poor WQ).	
j. Water quality of standing water by observation (i.e., discoloration, turbidity).	
k. Water quality data for the type of community.	
l. Water depth, wave energy, and currents.	

Notes:

.500(b)(c) Community Structure

____ Vegetation
√ Benthic
____ Both

Current	With Impact
8	0

Vegetation	Benthic	
I. Appropriate/desirable species	I. Extent, diversity or appropriate species and organisms	
II. *Invasive/exotic plant species*	II. *Invasive/exotic species*	
III. Regeneration/recruitment	III. Regeneration, recruitment, age distribution	
IV. Age, size distribution	IV. Species' condition, biomass	
V. Snags, dens, cavity, etc.	V. Structural features	
VI. Plants' condition	VI. Topographic features	
VII. *Land management practices*		
VIII. Topographic features (refugia, channels, hammocks)		
IX. Submerged vegetation (only score if present)		
X. Upland assessment area		

Notes:

Raw Score = Sum of above scores/30
(If uplands, divide by 20)

Current	With Impact
0.80	0.20

Impact Acres =	**0.36**

Functional Loss (FL) *(For Impact Assessment Areas):*	
FL = ID x Impact Acres =	0.22

Impact Delta (ID)	
With – W/O =	0.60

PART I – Qualitative Description
(See Section 62-345.400)

Site/Project Name	Application Number	Assessment Area Name or Number
Cherry Creek Maintenance Dredge City of Oakland Park		Mangrove Swamp

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
612	Tidally Influenced	Impact	0.152 ac.

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e. OFWA, AP, other local/state/federal/designation of importance)
Cherry Creek	III Marine Waters	None

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

Mangrove swamps are dependant upon the connectivity of the project's inter-tidal saltwater to survive and reproduce.

Assessment area description

Shoreline vegetation in the inter-tidal zone of the creek. Historic dredging has created reduced embankment slopes resulting in an average 10 foot wide horizontal shoreline zone supporting red mangroves and black mangroves, with no emergent ground cover. Portions of the mangrove swamp contain exotic trees including wild almond, ficus and Brazilian pepper.

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
project occurs in a residential neighborhood with ge crossings for residential streets and accepts stormwater discharges for drainage.	Tidal creeks without bulkheads, supporting mangroves are not *common within the residential regional landscape.*
Functions	**Mitigation for previous permit/other historic use**
Wildlife habitat, erosion control, wetland vegetation production, fisheries, water storage and water quality.	Portions of this assessment area occur within a conservation easement that excludes a 30-foot drainage and maintenance easement.
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found.)	**Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area.)**
Green heron, little blue heron, great egret, snook, garfish, crabs and estuarine fisheries.	White ibis (SSC)

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

Mullet, pin fish, puffer fish, yellow-crowned night heron, great blue heron, mourning dove, white ibis, fidder crab.

Additional relevant factors:

Mangrove trees, while rooted in the inter-tidal shoreline zone of Cherry Creek, have branches which extend over the waterway and, at points, overlapping branches from opposite banks, restricting navigation and dredge maintenance activities.

essment conducted by:	Assessment date(s):
Sam Wiley	30 April 2007

Form 62-345.900(1), F.A.C. [effective date]

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET – PART II
Form 62-345.900(2), F.A.C. (See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
erry Creek Maintenance Dredge		612
Impact	Assessment Conducted by: Sam Wiley	Assessment Date: 30 April 2007

Scoring Guidance	Optimal (10)	Moderate (7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support

Current	With Impact
5	5

a. Quality and quantity of habitat support outside of AA.	
b. Invasive plant species.	
c. Wildlife access to and from AA (proximity and barriers).	
d. Downstream benefits provided to fish and wildlife.	
e. Adverse impacts to wildlife in AA from land uses outside of AA.	
f. Hydrologic connectivity (impediments and flow restrictions).	
g. Dependency of downstream habitats on quantity or quality of discharges.	
h. Protection of wetland functions provided by uplands (upland AAs only).	

Notes:

.500(6)(b) Water Environment (n/a for uplands)

ent	With Impact
9	7

a. Appropriateness of water levels and flows.	
b. Reliability of water level indicators.	
c. Appropriateness of soil moisture.	
d. Flow rates/points of discharge.	
e. Fire frequency/severity.	
f. Type of vegetation.	
g. Hydrologic stress on vegetation.	
h. Use by animals with hydrologic requirements.	
i. Plant community composition associated with water quality (i.e., plants tolerant of poor WQ).	
j. Water quality of standing water by observation (i.e., discoloration, turbidity).	
k. Water quality data for the type of community.	
l. Water depth, wave energy, and currents.	

Notes:

.500(b)(c) Community Structure

____ Vegetation
____ Benthic
√ Both

Current	With Impact
8	7

Vegetation	Benthic	
I. Appropriate/desirable species	I. Extent, diversity or appropriate species and organisms	
II. Invasive/exotic plant species	II. Invasive/exotic species	
III. Regeneration/recruitment	III. Regeneration, recruitment, age distribution	
IV. Age, size distribution	IV. Species' condition, biomass	
V. Snags, dens, cavity, etc.	V. Structural features	
VI. Plants' condition	VI. Topographic features	
VII. Land management practices		
VIII. Topographic features (refugia, channels, hammocks)		
IX. Submerged vegetation (only score if present)		
X. Upland assessment area		

Notes:

Raw Score = Sum of above scores/30 (if uplands, divide by 20)

Current	With Impact
0.73	0.63

Impact Acres =	0.15

Functional Loss (FL) (For Impact Assessment Areas):	
FL = ID x Impact Acres =	0.02

Impact Delta (ID)	
With – W/O =	0.10

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FLORIDA Natural Areas INVENTORY

T49 S / R42 E / S23

Site boundaries are approximate.

Broward County

Element Occurrences

- Animals
- Plants
- Communities
- Other
- Data Sensitive
- Point Indicates General Vicinity of Element
- U.S. Fish & Wildlife Service Scrub Jay Survey 1992-96

Conservation Lands

- Federal
- State
- Local
- Private
- State Aquatic Preserves

Land Acquisition Projects

- Florida Forever Board of Trustees Projects

- FNAI Rare Species Habitat
- FNAI Biodiversity Matrix Square Mile Units

- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Water

N W E S

0 0.5 1 2 Miles

NOTE
Map should not be interpreted without accompanying documents.

Map produced by JAG
Map Date: 09 MAY 2007

FLORIDA
Natural Areas
INVENTORY

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May 9, 2007

Sam Wiley C/O Janice Benigno
CZR Incorporated
Three Palms Center
2151 Alternate A1A South, Suite 2000
Jupiter, FL 33477-3902

Dear Mr. Wiley:

Thank you for your request for information from the Florida Natural Areas Inventory (FNAI). We have compiled the following information for your project area.

Project:	Cherry Creek Maintenance Dredge Project
Date Received:	May 2, 2007
Location:	Township 49 S, Range 42 E, Section 23 Broward County

Element Occurrences

A search of our maps and database indicates that currently we have several Element Occurrences mapped within the vicinity of the study area (see enclosed map and element occurrence table). Please be advised that a lack of element occurrences in the FNAI database is not a sufficient indication of the absence of rare or endangered species on a site.

The Element Occurrences data layer includes occurrences of rare species and natural communities. The map legend indicates that some element occurrences occur in the general vicinity of the label point. This may be due to lack of precision of the source data, or an element that occurs over an extended area (such as a wide ranging species or large natural community). For animals and plants, Element Occurrences generally refer to more than a casual sighting; they usually indicate a viable population of the species. Note that some element occurrences represent historically documented observations which may no longer be extant.

Several of the species and natural communities tracked by the Inventory are considered **data sensitive.** Occurrence records for these elements contain information that we consider sensitive due to collection pressures, extreme rarity, or at the request of the source of the information. The Element Occurrence Record has been labeled "Data Sensitive." We request that you not publish or release specific locational data about these species or communities without consent from the Inventory. If you have any questions concerning this please do not hesitate to call.

Likely and Potential Rare Species

In addition to documented occurrences, other rare species and natural communities may be identified on or near the site based on habitat models and species range models (see enclosed

Florida Resources and Environmental Analysis Center

Institute of Science and Public Affairs

The Florida State University

Biodiversity Matrix Report). These species should be taken into consideration in field surveys, land management, and impact avoidance and mitigation.

FNAI habitat models indicate areas, which based on landcover type, offer suitable habitat for one or more rare species that is known to occur in the vicinity. Habitat models have been developed for approximately 300 of the most rare species tracked by the Inventory, including all federally listed species.

FNAI species range models indicate areas that are within the known or predicted range of a species, based on climate variables, soils, vegetation, and/or slope. Species range models have been developed for approximately 340 species, including all federally listed species.

The FNAI Biodiversity Matrix Geodatabase compiles Documented, Likely, and Potential species and natural communities for each square mile Matrix Unit statewide.

Managed Areas

Portions of the site appear to be located within Downtown Park, managed by the City of Oakland Park.

The Managed Areas data layer shows public and privately managed conservation lands throughout the state. Federal, state, local, and privately managed conservation lands are included.

The Inventory always recommends that professionals familiar with Florida's flora and fauna should conduct a site-specific survey to determine the current presence or absence of rare, threatened, or endangered species.

Please visit www.fnai.org/trackinglist.cfm for county or statewide element occurrence distributions and links to more element information.

The database maintained by the Florida Natural Areas Inventory is the single most comprehensive source of information available on the locations of rare species and other significant ecological resources. However, the data are not always based on comprehensive or site-specific field surveys. Therefore, this information should not be regarded as a final statement on the biological resources of the site being considered, nor should it be substituted for on-site surveys. Inventory data are designed for the purposes of conservation planning and scientific research, and are not intended for use as the primary criteria for regulatory decisions.

Information provided by this database may not be published without prior written notification to the Florida Natural Areas Inventory, and the Inventory must be credited as an information source in these publications. FNAI data may not be resold for profit.

Thank you for your use of FNAI services. If I can be of further assistance, please give me a call at (850) 224-8207.

Sincerely,

Jason A. Griffin

Jason A. Griffin
Data Services Coordinator

encl

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FLORIDA Natural Areas INVENTORY

Florida Natural Areas Inventory

ELEMENT OCCURRENCES DOCUMENTED ON OR NEAR *PROJECT SITE*

Map Label	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Listing	Observation Date	Description	EO Comments
SCELWOOD*4	Sceloporus woodi	Florida Scrub Lizard	G3	S3	N	N	1968-05-03	No general description given	JACKSON COLLECTED 7 SPECIMENS HERE ON 1968-05-03; D.S.LEE MAY HAVE COLLECTED A SPECIMEN HERE ON 1967-12-26.
LANTFLOR*4	Lantana depressa var. floridana	Atlantic Coast Florida Lantana	G2T1	S1	N	LE	1952-08-29	A sandy area across the street from the beach.	Large bush-form, 1.5 ft. high, 2.5 ft. in diameter; heavy root; flowers orange and yellow.
MARIHAMM*31	Maritime hammock		G3	S2	N	N	1999	HAMMOCK IN SE CORNER OF PARK, N OF CR 838 AND W OFAIA, IS MOST MATURE. OTHER HAMMOCKS (SEE MAP) LESSMATURE BUT MORE DIVERSE. ON SAND AND HUMUS SUBSTRATE.	1999: Update to last obs date was based on interpretation of aerial photography (previous value was 1990-04-15) (U05FNA02FLUS). ZONE OF SEA GRAPE, THEN MASTIC, STRANGLER FIG, WHITE STOPPER, SPANISH STOPPER, PARADISE TREE, CABBAGE PALM,SILVER PALM, WILD C
CHELMYDA*17	Chelonia mydas	Green Turtle	G3	S2	LE	LE	1992	OFFSHORE SEA FLOOR, CONSISTING OF LIMESTONE LEDGES PARALLEL TO SHORE, CONTINUOUS FOR COUNTY COASTLINE. DEPTHS RANGING 7M-20M.	DEVELOPMENTAL HABITAT. 105 JUVENILE GREEN TURTLES CAPTURED, WITH JUNE AND OCT. BEING PEAK MOS., SEPT. AND DEC. HAVING FEWEST CAPTURES. CURVED CARAPACE LENGTHS-26.4-67.0 CM., THOSE <35 CM MORE FREQUENT IN SPRING. AVG. GROWTH RATE=0.24 CM/MONTH. SCUBA SURV
CHELMYDA*6	Chelonia mydas	Green Turtle	G3	S2	LE	LE	1992	37 KM STRETCH OF ATLANTIC COASTAL BEACH; AREA BACK OF BEACH IS HEAVILY URBANIZED.	NESTING BEACH. 1980: FL DNR OBS 21 NESTS IN 37 KM (0.6/KM); 1979: FLEETMEYER OBS 6 NESTS IN 36 KM (0.2/KM);1978: FLEETMEYER OBS 1 NEST IN 19 KM (0.1/KM).
ERETIMBR*5	Eretmochelys imbricata	Hawksbill	G3	S1	LE	LE	1988	OFFSHORE SEA FLOOR, CONSISTING OF LIMESTONE LEDGES PARALLEL TO SHORE, CONTINUOUS FOR COUNTY COASTLINE. DEPTHS RANGE FROM 7M TO 20M.	DEVELOPMENTAL HABITAT. 4 JUVENILE HAWKSBILLS CAPTURED BETWEEN 1 MARCH 1988 AND 31 DECEMBER 1988 (U88WER01).
CARECARE*8	Caretta caretta	Loggerhead	G3	S3	LT	LT	1980	37 KM STRETCH OF ATLANTIC COASTAL BEACH; AREA BACK OF BEACH IS HEAVILY URBANIZED.	NESTING BEACH. 1980: FL DNR OBS 555 NESTS BUT EST 888 IN 37 KM (24.6/KM); 1979: FLEETMEYER OBS 654 NESTS BUT EST 1086 IN 36 KM (30.0/KM); 1978: FLEETMEYER OBS 352 NESTS BUT EST 538 IN 19 KM (28. 3/KM).

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FLORIDA Natural Areas INVENTORY

Florida Natural Areas Inventory

ELEMENT OCCURRENCES DOCUMENTED ON OR NEAR *PROJECT SITE*

Map Label	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Listing	Observation Date	Description	EO Comments
SCELWOOD*4	Sceloporus woodi	Florida Scrub Lizard	G3	S3	N	N	1968-05-03	No general description given	JACKSON COLLECTED 7 SPECIMENS HERE ON 1968-05-03; D.S.LEE MAY HAVE COLLECTED A SPECIMEN HERE ON 1967-12-26.
LANTFLOR*4	Lantana depressa var. floridana	Atlantic Coast Florida Lantana	G2T1	S1	N	LE	1952-08-29	A sandy area across the street from the beach.	Large bush-form, 1.5 ft. high, 2.5 ft. in diameter; heavy root; flowers orange and yellow.
MARIHAMM*31	Maritime hammock		G3	S2	N	N	1999	HAMMOCK IN SE CORNER OF PARK, N OF CR 838 AND W OFAIA, IS MOST MATURE. OTHER HAMMOCKS (SEE MAP) LESSMATURE BUT MORE DIVERSE. ON SAND AND HUMUS SUBSTRATE.	1999: Update to last obs date was based on interpretation of aerial photography (previous value was 1990-04-15) (U05FNA02FLUS). ZONE OF SEA GRAPE, THEN MASTIC, STRANGLER FIG, WHITE STOPPER, SPANISH STOPPER, PARADISE TREE, CABBAGE PALM,SILVER PALM, WILD C
CHELMYDA*17	Chelonia mydas	Green Turtle	G3	S2	LE	LE	1992	OFFSHORE SEA FLOOR, CONSISTING OF LIMESTONE LEDGES PARALLEL TO SHORE, CONTINUOUS FOR COUNTY COASTLINE. DEPTHS RANGING 7M-20M.	DEVELOPMENTAL HABITAT. 105 JUVENILE GREEN TURTLES CAPTURED, WITH JUNE AND OCT. BEING PEAK MOS., SEPT. AND DEC. HAVING FEWEST CAPTURES. CURVED CARAPACE LENGTHS-26.4-67.0 CM., THOSE <35 CM MORE FREQUENT IN SPRING. AVG. GROWTH RATE=0.24 CM/MONTH. SCUBA SURV
CHELMYDA*6	Chelonia mydas	Green Turtle	G3	S2	LE	LE	1992	37 KM STRETCH OF ATLANTIC COASTAL BEACH; AREA BACK OF BEACH IS HEAVILY URBANIZED.	NESTING BEACH. 1980: FL DNR OBS 21 NESTS IN 37 KM (0.6/KM); 1979: FLEETMEYER OBS 6 NESTS IN 36 KM (0.2/KM);1978: FLEETMEYER OBS 1 NEST IN 19 KM (0.1/KM).
ERETIMBR*5	Eretmochelys imbricata	Hawksbill	G3	S1	LE	LE	1988	OFFSHORE SEA FLOOR, CONSISTING OF LIMESTONE LEDGES PARALLEL TO SHORE, CONTINUOUS FOR COUNTY COASTLINE. DEPTHS RANGE FROM 7M TO 20M.	DEVELOPMENTAL HABITAT. 4 JUVENILE HAWKSBILLS CAPTURED BETWEEN 1 MARCH 1986 AND 31 DECEMBER 1988 (U88WER01).
CARECARE*8	Caretta caretta	Loggerhead	G3	S3	LT	LT	1980	37 KM STRETCH OF ATLANTIC COASTAL BEACH; AREA BACK OF BEACH IS HEAVILY URBANIZED.	NESTING BEACH. 1980: FL DNR OBS 555 NESTS BUT EST 888 IN 37 KM (24.6/KM); 1979: FLEETMEYER OBS 654 NESTS BUT EST 1086 IN 36 KM (30.0/KM); 1978: FLEETMEYER OBS 352 NESTS BUT EST 538 IN 19 KM (28. 3/KM).

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ELEMENT OCCURRENCES DOCUMENTED ON OR NEAR *PROJECT SITE*

Map Label	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Listing	Observation Date	Description	EO Comments
ARGUGNAP*11	Argusia gnaphalodes	Sea Lavender	G4	S3	N	LE	1983-	No general description given	No EO data given
DS*1643	Data Sensitive Element	Data Sensitive	G5	S3	N	LT	1983-07-15	Data Sensitive	Data Sensitive
SWIEMAHA*19	Swietenia mahagoni	West Indies Mahogany	G3G4	S3	N	LT	1966-04-19	Hammock.	1966-04-19: Sterile.
OKENHYPO*13	Okenia hypogaea	Burrowing Four-o'clock	G3?	S2	N	LE	1984	SEASONALLY, IN VICINITY OF RR STATION; ALSO OTHER AREAS, BUT UNPREDICTABLE.	VARIES IN ABUNDANCE AND LOCALITY (AN ANNUAL).
CONRGRAN*9	Conradina grandiflora	Large-flowered Rosemary	G3	S3	N	LT	1983-07-15	1983-07-15: SCRUB. "IN THE SOUTH TRACT, LOW SCRUB, OPEN FOR THE MOST PART, BECOMING DENSE ON THE EASTERN EDGE OF THE AREA. IN THE NORTH[TRACT],RELATIVELY TALLER SAND PINE AND OAK,TO OPEN SCRUB" (U83MIN04FLUS).	1983-07-15: SPECIES LISTED AT SITE; OCCURRENCE WITHIN MAPPED NATURAL COMMUNITY BOUNDARIES (U83MIN04FLUS).
SCELWOOD*77	Sceloporus woodi	Florida Scrub Lizard	G3	S3	N	N	1983-07-21	SAND PINE SCRUB DOM BY SAND PINE, SCRUB OAKS, ROSEMARY, GOPHER APPLE, BLUEBERRY, PINWEED.	MINNO REPORTED 2 INDIVIDUALS SEEN 21 JULY 1983, HAS OBSERVED YOUNG IN PAST, EO FOR 10 YRS.
VIREALTI*49	Vireo altiloquus	Black-whiskered Vireo	G5	S3	N	N	1992-93	No general description given	J. Baker observed bird (s)? during migration - no other data. Data from FY 1992-93 Coastal Wildlife Questionnaire. Delorme page 115, site # 1.
DS*17810	Data Sensitive Element	Data Sensitive	G3	S3	N	N	1986-06-23	Data Sensitive	Data Sensitive
LECHCERN*18	Lechea cernua	Nodding Pinweed	G3	S3	N	LT	1983-07-15	1983-07-15: SCRUB. "IN THE SOUTH TRACT, LOW SCRUB, OPEN FOR THE MOST PART, BECOMING DENSE ON THE EASTERN EDGE OF THE AREA. IN THE NORTH[TRACT], RELATIVELY TALLER SAND PINE AND OAK,TO OPEN SCRUB" (U83MIN04FLUS).	1983-07-15: SPECIES LISTED AT SITE; GENUS (3 SPECIES) AMONG DOMINANTS AT SITE. OCCURRENCE WITHIN MAPPED NATURAL COMMUNITY BOUNDARIES (U83MIN04FLUS).
GOPHPOLY*183	Gopherus polyphemus	Gopher Tortoise	G3	S3	N	LS	ZZ	No general description given	No EO data given
DS*19604	Data Sensitive Element	Data Sensitive	G5	S3	N	LT	1984	Data Sensitive	Data Sensitive

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CONRGRAN*1	Conradina grandiflora	Large-flowered Rosemary	G3	S3	N	LT	1964-01-25	NEAR COAST ON DUNES.	IN FLOWER ON 25 JAN 1964.
GOPHPOLY*48	Gopherus polyphemus	Gopher Tortoise	G3	S3	N	LS	1983-07-13	SAND PINE SCRUB DOM BY SAND PINE, SCRUB OAKS, ROSEMARY, GOPHER APPLE, BLUEBERRY & PINWEED.	MINNO COUNTED 16 BURROWS (8 ACTIVE), MOSTLY ADULT.
COCCARGE*18	Coccothrinax argentata	Silver Palm	G4	S3	N	LT	1976-03	TROPICAL HAMMOCKS, W. OF MAIN PARK ROAD	NUMEROUS
DS*2785	Data Sensitive Element	Data Sensitive	G4?	S1	N	LE	1990	Data Sensitive	Data Sensitive
ACROAURE*5	Acrostichum aureum	Golden Leather Fern	G5	S3	N	LT	1984	1984: SEVERAL PATCHES, ESP. IN OLD FIELD ADJACENT TO SW CORNER OF MAIN PARKING LOT (U83BUC01FLUS).	1984: FAIRLY ABUNDANT. PARK CHECKLIST OF FCREPA SPECIES (U83BUC01FLUS).
JACQRECL*2	Jacquemontia reclinata	Beach Jacquemontia	G1	S1	LE	LE	1990-09-16	SANDY OLDFIELD ADJACENT TO S.W. CORNER OF MAIN PARKING LOT. (P84NOS01 -- NOTES IN MAF). ASSOCIATED SPECIES INCLUDE CROTON INVOLUCRATA, TRICHOSTEMA SUFFRUTESCENS, LICANIA MICHAUXII, COCCOLOBA UVIFERA, SABAL PALMETTO, METOPIUM TOXIFERUM, PITHECELLOBRIUM GU	"GOOD STAND" (P84HEN04). 89 PLANTS COUNTED 16 SEPT. 1990; APPROX. 1/3 OF THE PLANTS WERE FLOWERING AND/OR HAD SEED PODS (U90LIP02).