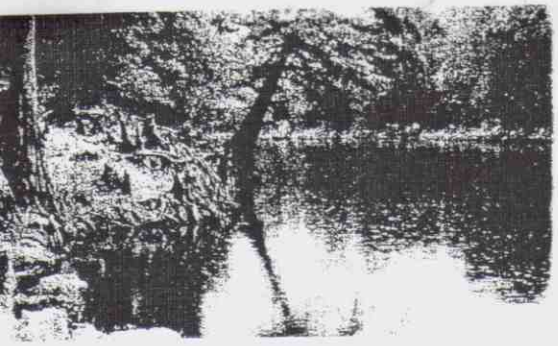


SOUTHEAST ENVIRONMENTAL SOLUTIONS, INC.

801 NORTH PARK ROAD
PLANT CITY, FLORIDA 33563-3956
Tel: (813) 752-1289
Fax: (813) 757-0721
E-mail: Solutions@sesi.cc

June 22, 2005

RECEIVED
JUN 23 2006
SUMTER COUNTY
PLANNING & DEVELOPMENT

Southwest Florida Water Management District
Permits Data Section
2379 Broad Street
Brooksville, FL 34609-6899

Attention: Ms. Diane Kibitlewski

Re: WUP Permit No. 208891.006
Florida Crushed Stone Company
St. Catherine Mine, Sumter County
2006 Annual Wetland Stress Assessment

Dear Ms. Kibitlewski:

Enclosed please find two copies of the 2006 Annual Wetland Stress Assessment for the above-referenced facility. The next monitoring event is scheduled for May 2007. If you have any questions, please do not hesitate to call.

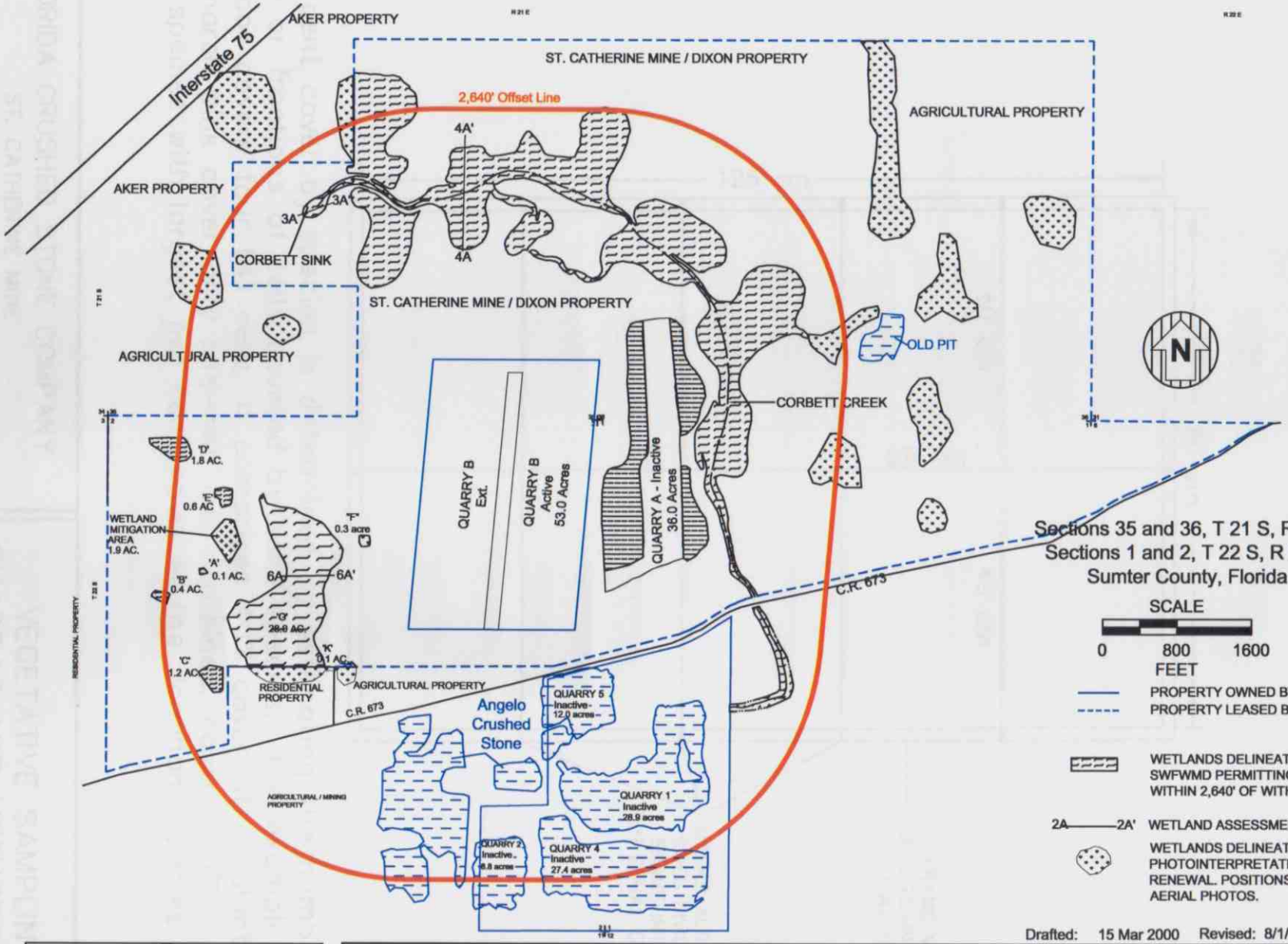
Sincerely,

R. Fred Crabill, CFEA, REPA
Vice President

Nicole I. Cribbs
Environmental Scientist

Enclosures

cc: Mr. Matt Mouncey, Rinker Materials of Florida, Inc. (w/enclosure)
Mr. James Morris, Rinker Materials of Florida, Inc. (w/enclosure)
Mr. Ozzie Burdin, Florida Crushed Stone, Inc. (w/enclosure)
Mr. Mark Stephens, The Collinas Group, Inc. (w/enclosure)
Ms. Roberta Rogers, Sumter County
SES File 0585A



Drafted: 15 Mar 2000 Revised: 8/1/05

FLORIDA CRUSHED STONE CO.
1616 SOUTH 14th STREET
LEESBURG, FL. 34748

ST. CATHERINE MINE
Water Use Permit Renewal
(208891.06)

SOUTHEAST ENVIRONMENTAL SOLUTIONS, INC.
801 North Park Road
Plant City, Florida 33566
(813) 752-1289

PLAN VIEW OF MINE AND SAMPLING LOCATIONS

PROJECT No. 0585A

Figure 1

Figure 3
Water Elevations in Monitor Wells, Quarry, and Mitigation Area
St. Catherine Rock Mine
Sumter County, Florida

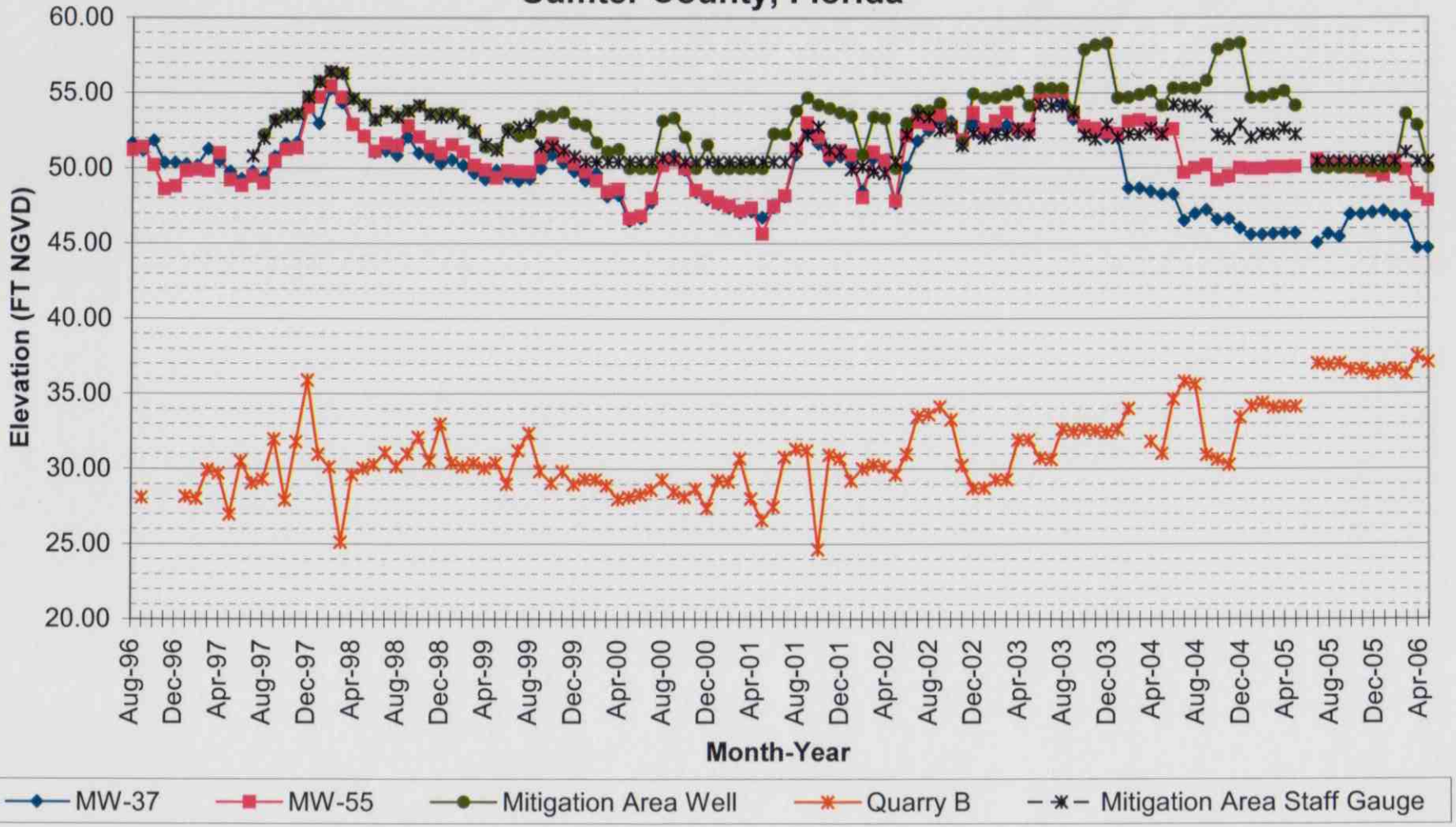
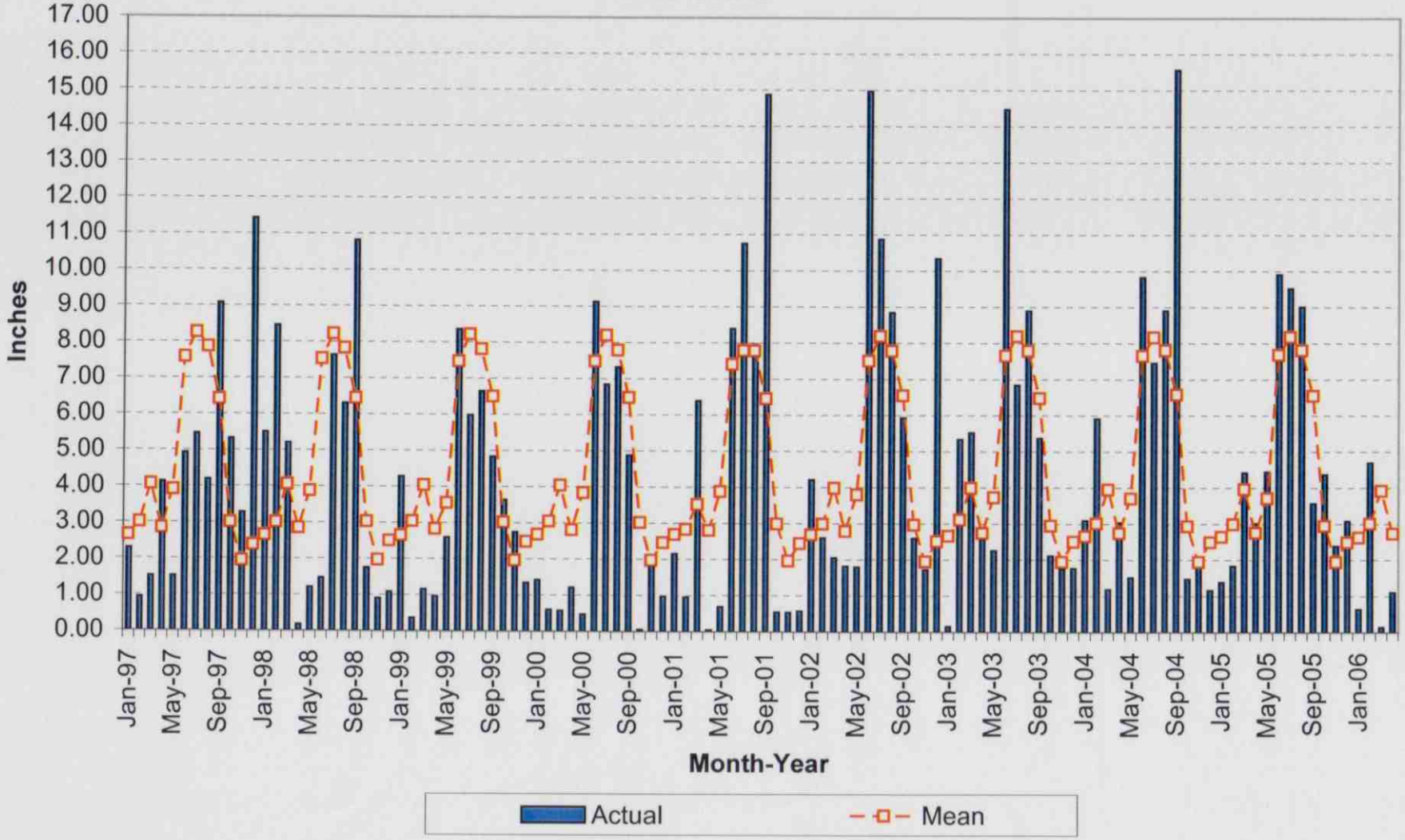
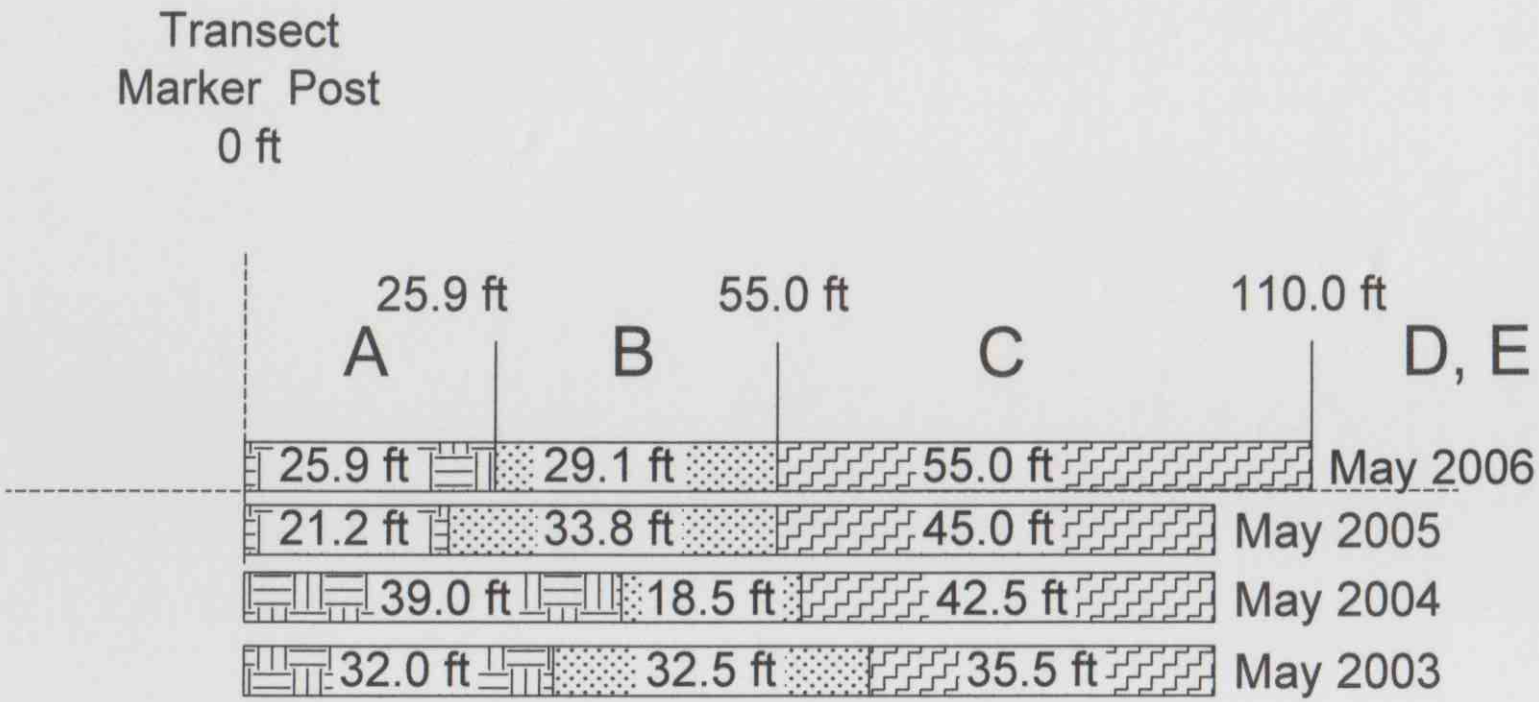


Figure 4
Rainfall, Southern Withlacoochee Area
SWFWMD





Dominant Vegetation -- May 2006

A - UPLAND: *Rubus* sp.; *Smilax* sp.; *Paspalum notatum; Rhexia cubensis; Digitaria* sp.

B - TRANSITIONAL: *Axonopus furcatus*; *Phyla nodiflora; Hydrocotyle umbellata; Smilax* sp.; *Dichondra caroliniensis*

C - WETLAND: *Bacopa* sp.; *Hydrocotyle umbellata; Eleocharis vivipara, Polygonum hydropiperoides; Ptilimnium capillaceum; Hypericum mutilum; Axonopus furcatus; Ludwigia repens*

D - WETLAND: *Luziola fluitans; Ludwigia repens*

E - WETLAND: *Pontederia cordata*; *Sagittaria lancifolia; Iris hexagona; Polygonum hydropiperoides*

SCALE
0 10 20
FEET

Section 35
T 21S, R 21E
Sumter County, Florida

Drafted: 6-4-03 Revised: 06-7-06

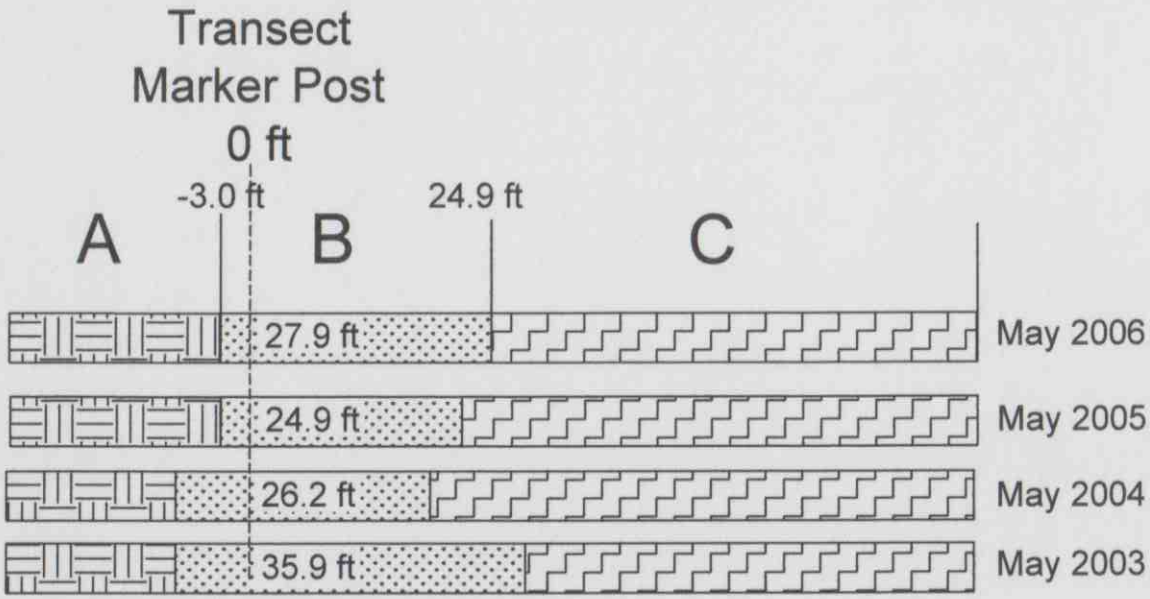
FLORIDA CRUSHED STONE
ST. CATHERINE MINE

SOUTHEAST ENVIRONMENTAL SOLUTIONS, INC.
801 North Park Road
Plant City, Florida 33563
(813) 752-1289

TRANSECT 4
CORBETT RUN MARSH
VEGETATION ZONATION

PROJECT No. 0585A

FIGURE 5



Dominant Vegetation

A - UPLAND: *Quercus virginiana* overstory; *Dichondra carolinensis*; *Rubus* sp.; *Smilax* sp.; *Eupatorium capillifolium; Diospyros virginiana; Campanula floridana; Ambrosia artemisiifolia; Paspalum notatum; Parthenocissus quinquefolia*

B - TRANSITIONAL: *Hydrocotyle umbellata*; *Rubus* sp.; *Smilax* sp.; *Dichondra carolinesis; Eupatorium capillifolium; Lygodium japonicum; Campanula floridana; Diospyos virginiana; Dichromena colorata; Paspalum notatum; Commelina diffusa*

C -WETLAND: *Taxodium distichum* overstory; *Osmunda regalis*; *Hypoxis curtissii; Erechtites hieracifolia; Lygodium japonicum; Smilax* sp.; *Hydrocotyle umbellata; Eleocharis vivipara; Dichondra carolinesis; Bacopa sp.*

SCALE
0 10 20
FEET

Section 2
T 22S, R 21E
Sumter County, Florida

Drafted: 6-4-03 Revised: 06-7-06

FLORIDA CRUSHED STONE
ST. CATHERINE MINE

SOUTHEAST ENVIRONMENTAL SOLUTIONS, INC.
801 North Park Road
Plant City, Florida 33563
(813) 752-1289

TRANSECT 6
CYPRESS SWAMP
VEGETATION ZONATION

PROJECT No. 0585A | FIGURE 6

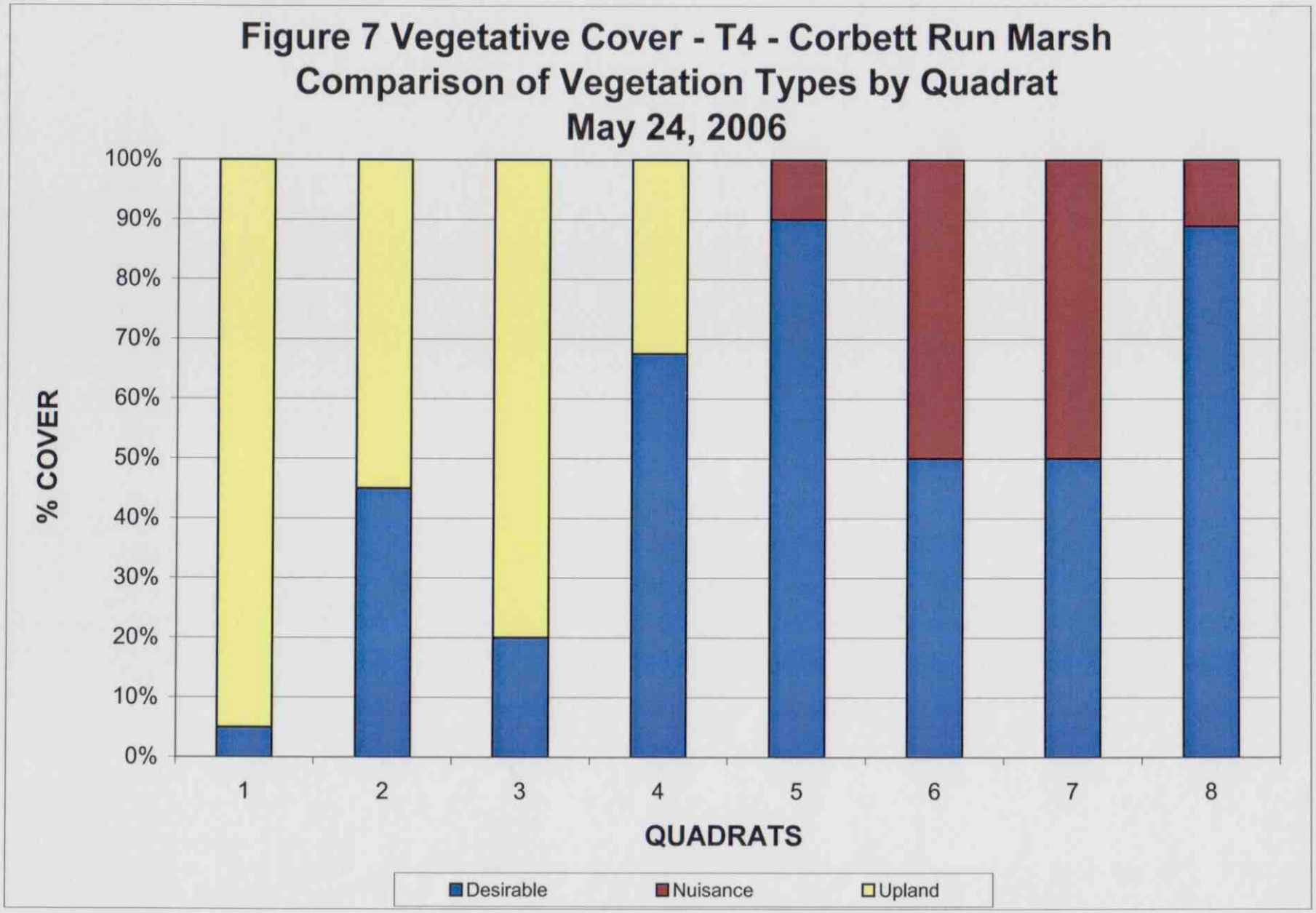


Figure 7 Vegetative Cover - T4 - Corbett Run Marsh
Comparison of Vegetation Types by Quadrat
May 24, 2006
% COVER
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
1
2
3
4
5
6
7
8
QUADRATS
Desirable
Nuisance
Upland

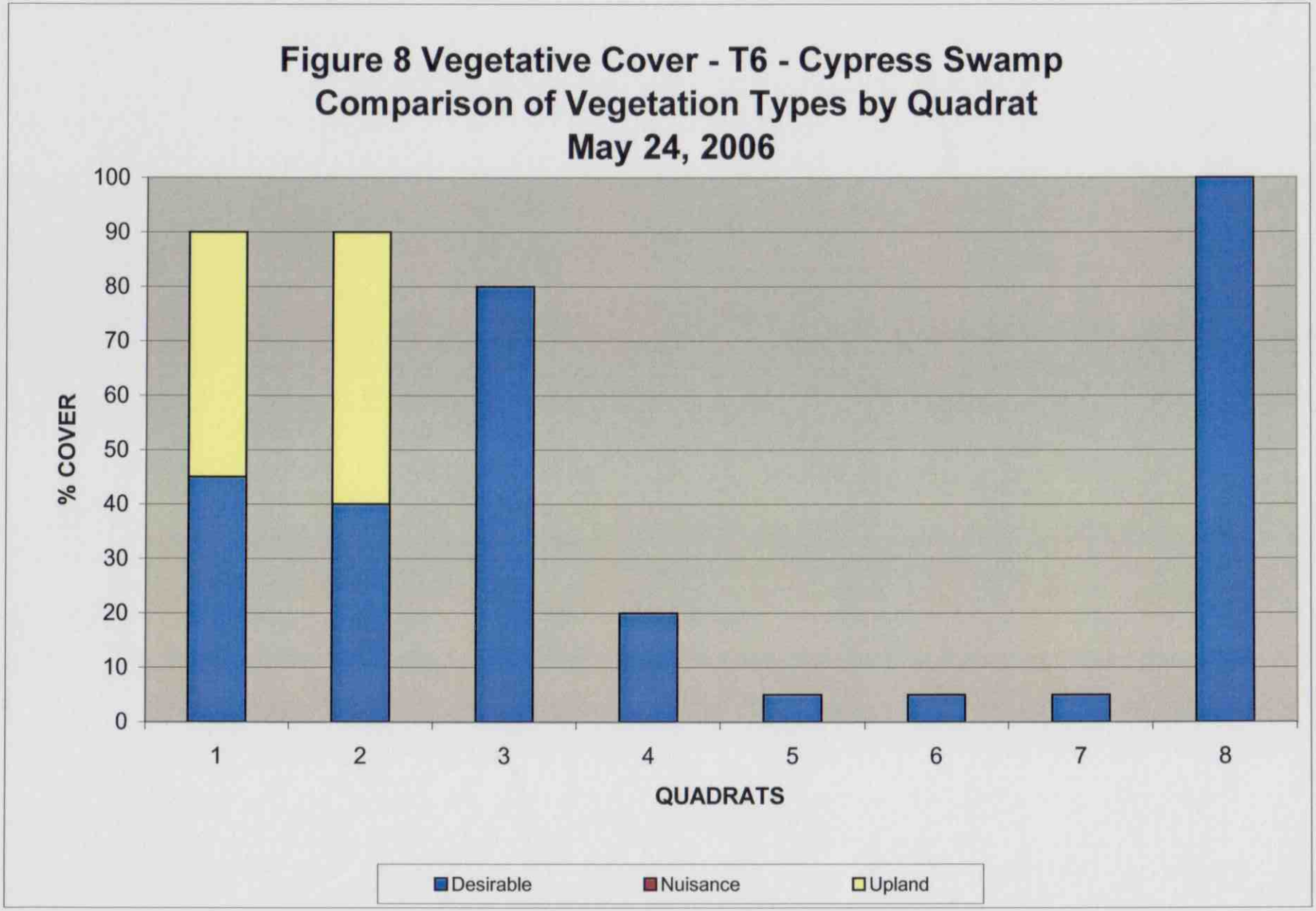


Figure 8 Vegetative Cover - T6 - Cypress Swamp
Comparison of Vegetation Types by Quadrat
May 24, 2006
% COVER
100
90
80
70
60
50
40
30
20
10
0
1
2
3
4
5
6
7
8
QUADRATS
Desirable
Nuisance
Upland

TABLE 1
VEGETATION MONITORING FORM

LOCATION: ST. CATHERINE ROCK MINE, Sec. 35, T21S, R21E, Sumter Co., FL
DATE: May 24, 2006
OBSERVERS: N. Cribbs, M. Malone

WUP No. 208891.006
TRANSECT: 3--Corbett Sink
PROJ. No. 0585A

ZONE: STRATUM: HERBACEOUS	% COVER QUADRAT / STATION NUMBER												AVERAGE % COVER (by group)	RELATIVE % COVER (all species)
	1	2	3	4	5	6	7	8	9	10	11	12		
DESIRABLE WETLAND SPECIES	6m	10m	16m	18m	21m	23m	24m	25m	76m	78m	87m	92m	Distance from Photo Station	
1 FACW *Ptilimnium capillaceum*	0	0	0	0	-	-	-	-	-	20	20	0	3.3	10.3
2 OBL *Hydrocotyle umbellata*	0	0	0	0	-	-	-	-	-	15	10	0	2.1	6.4
3 OBL *Bacopa monnieri*	0	0	0	0	-	-	-	-	-	0	20	0	1.7	5.1
4 FACW *Eclipta alba*	0	0	0	0	-	-	-	-	-	20	0	0	1.7	5.1
5 FACW *Paspalum leave*	0	0	20	0	-	-	-	-	-	0	0	0	1.7	5.1
6 FACW *Commelina diffusa*	0	0	10	0	-	-	-	-	-	0	5	0	1.3	3.8
7 FACW *Centella asiatica*	0	0	0	0	-	-	-	-	-	0	0	10	0.8	2.6
8 OBL *Polygonum hydropiperoides*	0	0	5	0	-	-	-	-	-	0	5	0	0.8	2.6
9 FACW *Juncus marginatus*	0	5	0	0	-	-	-	-	-	0	0	0	0.4	1.3
TOTAL DESIRABLE WETLAND SPECIES	**0**	**5**	**35**	**0**	-	-	-	-	-	**55**	**60**	**10**	**13.8**	**42.3**
NUISANCE WETLAND SPECIES														
1 FAC *Sesbania* sp.	5	0	5	0	-	-	-	-	-	25	20	0	4.6	14.1
2 OBL *Eichhornia crassipes*	0	0	0	20	-	-	-	-	-	5	0	0	2.1	6.4
3 OBL *Alternanthera philoxeroides*	0	10	0	0	-	-	-	-	-	15	0	0	2.1	6.4
TOTAL NUISANCE SPECIES	**5**	**10**	**5**	**20**	-	-	-	-	-	**45**	**20**	**0**	**8.8**	**26.9**
UPLAND SPECIES														
1 FAC *Axonopus furcatus*	0	0	0	0	-	-	-	-	-	0	0	60	5.0	15.4
2 FACU *Paspalum notatum*	0	10	0	0	-	-	-	-	-	0	0	10	1.7	5.1
3 FAC *Digitaria sp.*	15	0	0	0	-	-	-	-	-	0	0	0	1.3	3.8
4 FACU *Eupatorium capillifolium*	0	10	0	0	-	-	-	-	-	0	0	0	0.8	2.6
5 FAC *Phyla nodiflora*	0	0	0	0	-	-	-	-	-	0	0	10	0.8	2.6
6 FACU *Rubus cunelfolius*	5	0	0	0	-	-	-	-	-	0	0	0	0.4	1.3
TOTAL UPLAND SPECIES	**20**	**20**	**0**	**0**	-	-	-	-	-	**0**	**0**	**80**	**10.0**	**30.8**
OTHER COVER														
1 Open Soil	45	30	50	0	-	-	-	-	-	0	10	0	11.3	
2 Debris	30	35	10	80	-	-	-	-	-	0	10	10	14.6	
3 Open Water	0		0	0	100	100	100	100	100	0	0	0	41.7	
TOTAL OTHER COVER	**75**	**65**	**60**	**80**	**100**	**100**	**100**	**100**	**100**	**0**	**20**	**10**	**67.5**	
WATER DEPTH, Inches	dry	dry	sat	>4ft	>4ft	>4ft	>4ft	>4ft	5in	dry	dry	dry		

SOUTHEAST ENVIRONMENTAL SOLUTIONS, INC.
801 North Park Road
Plant City, Florida 33566
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TABLE 2
VEGETATION MONITORING FORM

LOCATION: ST. CATHERINE ROCK MINE, Sec. 35, T21S, R21E, Sumter Co., FL
DATE: May 24, 2006
OBSERVERS: N. Cribbs, M. Malone

WUP No. 208891.006
TRANSECT: 4--(Corbett Run Marsh)
PROJ. No. 0585A

ZONE: STRATUM: HERBACEOUS	% COVER QUADRAT / STATION NUMBER								AVERAGE % COVER (by group)	RELATIVE % COVER (all species)
	1	2	3	4	5	6	7	8		
DESIRABLE WETLAND SPECIES	2m	6m	10m	14m	30m	39m	57m	70m	Distance from Photo Station	
1 OBL *Sagittaria lancifolia*	0	0	0	0	0	10	20	50	10.0	11.2
2 FACW *Centella asiatica*	0	20	20	25	0	0	0	0	8.1	9.1
3 OBL *Bacopa caroliniana*	0	0	0	0	50	0	0	0	6.3	7.0
4 OBL *Polygonum hydropiperoides*	0	0	0	0	5	30	0	10	5.6	6.3
5 OBL *Eleocharis vivipara*	0	0	0	0	25	0	0	0	3.1	3.5
6 FACW *Hypericum mutilum*	0	0	0	20	0	0	0	0	2.5	2.8
7 OBL *Luziola fluitans*	0	0	0	0	0	0	15	0	1.9	2.1
8 OBL *Ludwigia repens*	0	0	0	5	5	0	0	5	1.9	2.1
9 FACW *Syngonanthus sp.*	0	15	0	0	0	0	0	0	1.9	2.1
10 FACW *Eryngium prostratum*	5	10	0	0	0	0	0	0	1.9	2.1
11 OBL *Paspalidium geminatum*	0	0	0	0	0	0	0	15	1.9	2.1
12 OBL *Pontederia cordata*	0	0	0	0	5	0	0	0	0.6	0.7
TOTAL DESIRABLE WETLAND SPECIES	**5**	**45**	**20**	**50**	**90**	**40**	**35**	**80**	**45.6**	**51.0**
NUISANCE WETLAND SPECIES										
1 OBL *Alternanthera philoxeroides*	0	0	0	0	10	40	35	10	11.9	13.3
TOTAL NUISANCE WETLAND SPECIES	**0**	**0**	**0**	**0**	**10**	**40**	**35**	**10**	**11.9**	**13.3**
UPLAND SPECIES										
1 FAC *Axonopus furcatus*	90	30	0	0	0	0	0	0	15.0	16.8
2 FAC *Eupatroium capillifolium*	0	0	75	25	0	0	0	0	12.5	14.0
3 FACU *Paspalum notatum*	5	20	0	0	0	0	0	0	3.1	3.5
4 UP *Smilax sp.*	0	5	5	0	0	0	0	0	1.3	1.4
TOTAL UPLAND SPECIES	**95**	**55**	**80**	**25**	**0**	**0**	**0**	**0**	**31.9**	**35.7**
OTHER COVER										
1 Open Soil	0	0		10	0	0	0	0	1.3	
2 Debris	0	0	0	15	0	20	30	10	9.4	
3 Open Water	0	0	0	0	0	0	0	0	0.0	
TOTAL OTHER COVER	**0**	**0**	**0**	**25**	**0**	**20**	**30**	**10**	**10.6**	
WATER DEPTH, inches	dry	dry	dry	dry	moist	moist	moist	moist		
	100	100	100	100	100	100	100	100		
									100.0	100.0

SOUTHEAST ENVIRONMENTAL SOLUTIONS, INC.
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Plant City, Florida 33566
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TABLE 3
VEGETATION MONITORING FORM

LOCATION: ST. CATHERINE ROCK MINE, Sec. 2, T22S, R21E, Sumter Co., FL
DATE: May 24, 2006
OBSERVERS: N. Cribbs, M. Malone

WUP No. 208891.006
TRANSECT: 6 --Cypress Swamp
PROJ. No. 0585A

ZONE: STRATUM: HERBACEOUS			% COVER QUADRAT / STATION NUMBER								AVERAGE % COVER (by group)	RELATIVE % COVER (all species)
		DESIRABLE WETLAND SPECIES	1	2	3	4	5	6	7	8		
			0.5m	5m	12m	25m	33m	48m	55m	60m	Distance from Photo Station	
1	FACW	*Centella asiatica*	25	25	40	0	0	0	0	0	11.3	22.8
2	OBL	*Pontederia cordata*	0	0	0	0	0	0	0	40	5.0	10.1
3	OBL	*Polygonum hydropiperoides*	0	0	0	0	0	0	0	30	3.8	7.6
4	OBL	*Hydrocotyle umbellata*	0	15	10	0	0	0	0	0	3.1	6.3
5	FACW	*Dichanthelium sp.*	15	0	10	0	0	0	0	0	3.1	6.3
6	FACW	*Theylepteris hispedula*	0	0	20	0	0	0	0	0	2.5	5.1
7	OBL	*Bacopa sp*	0	0	0	0	0	5	5	10	2.5	5.1
8	OBL	*Luziola fluitans*	0	0	0	0	0	0	0	20	2.5	5.1
9	OBL	*Taxodium distichum (knees)*	0	0	0	15	0	0	0	0	1.9	3.8
10		*UNK Herb (seedlings)*	0	0	0	5	0	0	0	0	0.6	1.3
11	OBL	*Sagittaria lancifolia*	0	0	0	0	5	0	0	0	0.6	1.3
12	OBL	*Luwigia repens*	5	0	0	0	0	0	0	0	0.6	1.3
		TOTAL DESIRABLE WETLAND SPECIES	**45**	**40**	**80**	**20**	**5**	**5**	**5**	**100**	**37.5**	**75.9**
		NUISANCE WETLAND SPECIES										
1		None at this time	0	0	0	0	0	0	0	0	0.0	0.0
		TOTAL NUISANCE SPECIES	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.0**	**0.0**
		UPLAND SPECIES										
1	FAC	*Dichondra caroliniensis*	25	10	0	0	0	0	0	0	4.4	8.9
2	FAC	*Smilax* sp.	10	15	0	0	0	0	0	0	3.1	6.3
3	UP	*Lygodium japonicum*	0	15	0	0	0	0	0	0	1.9	3.8
4	FACU	*Toxicodendron radicans*	0	10	0	0	0	0	0	0	1.3	2.5
6	UP	*Aster sp.*	10	0	0	0	0	0	0	0	1.3	2.5
		TOTAL UPLAND SPECIES	**45**	**50**	**0**	**0**	**0**	**0**	**0**	**0**	**11.9**	**24.1**
1	Open Soil		0	0	0	0	0	0	0	0	0.0	
2	Debris		10	10	20	80	95	95	95	0	50.6	
3	Open Water		0	0	0	0	0	0	0	0	0.0	
		TOTAL OTHER COVER	**10**	**10**	**20**	**80**	**95**	**95**	**95**	**0**	**50.6**	
		WATER DEPTH, Inches	dry	dry	dry	moist	moist	moist	moist	moist		

SOUTHEAST ENVIRONMENTAL SOLUTIONS, INC.
801 North Park Road
Plant City, Florida 33566
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Table 4
Desirable Species Observed
St. Catherine Rock Mine
Sumter County, Florida

	Species	24-May-06		Species	19-May-05
1	*Andropogon glomeratus*		68	*Mitreola sessilifolia*	
2	*Andropogon virginicus*		69	*Myrica cerifera*	
3	*Aster dumosus*	x	70	*Myriophyllum sp.*	
4	*Aster tenuifolius*		71	*Nuphar luteum*	
5	*Axonopus affinis*		72	*Nymphaea sp.*	
6	*Axonopus furcatus*	x	73	*Nymphoides aquatica*	
7	*Bacopa caroliniana*	x	74	*Osmunda regalis*	
8	*Bacopa monnieri*		75	*Oxypolis filiformis*	
9	*Boehmeria cylindrica*		76	*Panicum dichotomiflorum*	
10	*Buchnera americana*		77	*Panicum hemitomon*	
11	*Bumelia tenax*		78	*Panicum rigidulum*	
12	*Campanula floridana*		79	*Panicum virgatum*	
13	*Centella asiatica*	x	80	*Paspalidium geminatum*	x
14	*Cephalanthus occidentalis*		81	*Paspalum distichum*	
15	*Cirsium nutallii*	x	82	*Paspalum laeve*	
16	*Cladium jamaicense*		83	*Paspalum setaceum*	
17	*Coreopsis leavenworthii*		84	*Passiflora incarnata*	
18	*Commelina diffusa*		85	*Phyla lanceolata*	
19	*Cyperus haspans*	x	86	*Phyla nodiflora*	x
20	*Cyperus odoratus*		87	*Phyllanthus urinari*	
21	*Cyperus polystachyos*		88	*Piriqueta caroliniana*	
22	*Cypreus surinamensis*		89	*Pluchea foetida*	
23	*Desmodium triflorum*		90	*Pluchea rosea*	
24	*Dichanthelium commutatum*	x	91	*Polygonum hydropiperoides*	x
25	*Dichanthelium sp.*		92	*Polypremum procumbens*	
26	*Dichondra caroliniensis*	x	93	*Pontederia cordata*	x
27	*Diodia virginiana*		94	*Potagamon spp.*	
28	*Echinochloa colonum*		95	*Proserpinaca pectinata*	
29	*Echinochloa walteri*		96	*Pterocaulon pycnostachyum*	
30	*Eclipta alba*	x	97	*Ptilimnium capillaceum*	x
31	*Eleocharis baldwinii*		98	*Quercus laurifolia*	
32	*Eleocharis vivpara*	x	99	*Quercus virginiana*	
33	*Elephantopus elatus*		100	*Rhexia mariana*	
34	*Erigeron sp.*		101	*Rhynchospora brevfolius*	
35	*Eryngium baldwinii*		102	*Rhynchospora colorata*	
36	*Eryngium prostratum*	x	103	*Rhynchospora corniculata*	
37	*Eupatorium compositifolium*		104	*Rhynchospora inundata*	
38	*Eustachys glauca*		105	*Rhynchospora megacephala*	
39	*Euthamia minor*		106	*Rhynchospora microcarpa*	
40	*Fimbristylis autumnalis*		107	*Rubus argutus*	x
41	*Flaveria linearis*		108	*Rubus cuneifolius*	
42	*Fuirena sp.*		109	*Sabatia grandiflora*	
43	*Galium tinctorium*		110	*Sagittaria graminea*	
44	*Gelsemium sempervirens*		111	*Sagittaria lancifolia*	x
45	*Hydrocotyle bonariensis*		112	*Sagittaria latifolia*	
46	*Hydrocotyle umbellata*	x	113	*Salix caroliniana*	
47	*Hypericum mutilum*	x	114	*Salvia lyrata*	
48	*Hypericum tetrapetalum*		115	*Samolus parvivlorus*	
49	*Hypoxis curtissii*		116	*Scirpus americanus*	
50	*Ipomoea pandurata*		117	*Scirpus* sp.	
51	*Iris hexagona*		118	*Scoparia dulcis*	
52	*Juncus effusus*		119	*Setaria geniculata*	
53	*Juncus megacephalus*	x	120	*Sideroxylon reclinatum*	
54	*Justicia angusta*		121	*Sisyrinchium atlanticum*	
55	*Lachnocaulon anceps*		122	*Smilax bona-nox*	
56	*Lactuca* sp.		123	*Spartina bakeri*	
57	*Leersia hexandra*		124	*Spiranthes sp.*	
58	*Lindernia grandiflora*		125	*Syngonanthus flavidulus*	x
59	*Liquidambar styraciflua*		126	*Taxodium distichum*	x
60	*Lobelia sp.*		127	*Thelypteris sp.*	x
61	*Ludwigia repens*	x	128	*Toxicodendron radicans*	x
62	*Luziola fluitans*	x	129	*Ulmus americana*	
63	*Lycopus sp.*		130	*Viola sp.*	
64	*Mecardonia acuminata*		131	*Xyris brevifolia*	
65	*Melothria pendula*		132	*Xyris elliottii*	
66	*Micranthemum umbrosum*		133	*Xyris jupicai*	
67	*Mitreola petiolata*		134	*Xyris sp.*	x
Total found in quadrats (indicated by x)					28

Table 5
Staff Gauge and Monitor Well Readings
St. Catherine Rock Mine
Sumter County, Florida

	Monitor Wells			Staff Gauges	
Date	MW-37	MW-55	Mitigation Area Well	Quarry B	Mitigation Area Staff Gauge
Aug-96	51.67	51.21			
Sep-96	51.17	51.41		28.10	
Oct-96	51.82	50.21			
Nov-96	50.35	48.61			
Dec-96	50.37	48.81			
Jan-97	50.27	49.81		28.17	
Feb-97	50.17	49.90		28.04	
Mar-97	51.27	49.81		29.96	
Apr-97	50.47	51.01		29.72	
May-97	49.77	49.21		26.97	
Jun-97	49.27	48.84		30.52	
Jul-97	49.77	49.46		29.06	50.80
Aug-97	49.40	49.00	52.22	29.32	51.96
Sep-97	50.76	50.47	53.21	31.98	53.11
Oct-97	51.62	51.24	53.50	27.92	53.41
Nov-97	51.70	51.35	53.59	31.80	53.61
Dec-97	54.12	54.05	54.72	35.90	54.72
Jan-98	52.98	54.74	55.76	30.96	55.76
Feb-98	55.28	55.48	56.41	30.13	56.41
Mar-98	54.36	54.72	56.30	25.12	56.30
Apr-98	52.92	52.93	54.62	29.62	54.62
May-98	52.17	52.13	54.19	30.04	54.19
Jun-98	51.06	51.14	53.23	30.27	53.23
Jul-98	51.17	51.66	53.76	31.07	53.76
Aug-98	50.84	51.53	53.43	30.17	53.43
Sep-98	52.07	52.83	53.81	31.00	53.81
Oct-98	51.00	52.09	54.15	32.10	54.15
Nov-98	50.76	51.46	53.60	30.52	53.60
Dec-98	50.32	51.01	53.66	32.99	53.41
Jan-99	50.54	51.57	53.64	30.39	53.54
Feb-99	50.19	51.10	53.15	30.14	53.05
Mar-99	49.67	50.21	52.37	30.37	52.50
Apr-99	49.27	49.91	51.41	30.05	51.57
May-99	49.85	49.35	51.27	30.39	51.23
Jun-99	49.45	49.86	52.61	29.00	52.43
Jul-99	49.17	49.79	52.14	31.22	52.73
Aug-99	49.30	49.76	52.36	32.37	52.90
Sep-99	50.02	50.71	53.46	29.84	51.43
Oct-99	50.91	51.66	53.46	29.07	51.43
Nov-99	50.37	50.81	53.71	29.82	51.19
Dec-99	49.80	50.31	53.01	28.97	50.77
Jan-00	49.19	49.79	52.86	29.32	50.44
Feb-00	49.67	49.17	51.71	29.30	50.43
Mar-00	48.15	48.47	51.09	28.90	50.43
Apr-00	48.24	48.63	51.25	28.00	50.43
May-00	46.53	46.69	50.00	28.12	50.43
Jun-00	46.70	46.85	50.00	28.30	50.43
Jul-00	47.75	48.02	50.00	28.62	50.43

Table 5
Staff Gauge and Monitor Well Readings
St. Catherine Rock Mine
Sumter County, Florida

	Monitor Wells			Staff Gauges	
Date	MW-37	MW-55	Mitigation Area Well	Quarry B	Mitigation Area Staff Gauge
Aug-00	50.43	50.21	53.16	29.29	50.68
Sep-00	50.85	50.57	53.36	28.48	50.63
Oct-00	49.92	50.01	52.08	28.14	50.43
Nov-00	48.45	48.56	50.00	28.67	50.43
Dec-00	47.96	48.15	51.56	27.37	50.43
Jan-01	47.66	47.74	50.00	29.24	50.43
Feb-01	47.39	47.52	50.00	29.16	50.43
Mar-01	47.07	47.19	50.00	30.70	50.43
Apr-01	47.15	47.38	50.00	28.03	50.43
May-01	46.75	45.66	50.00	26.57	50.43
Jun-01	47.44	47.51	52.31	27.48	50.43
Jul-01	48.15	48.19	52.27	30.78	50.43
Aug-01	50.92	51.27	53.82	31.32	51.33
Sep-01	52.62	53.06	54.70	31.22	52.21
Oct-01	51.64	52.08	54.22	24.64	52.75
Nov-01	50.55	50.93	53.99	30.92	51.23
Dec-01	50.79	51.18	53.71	30.69	51.10
Jan-02	50.58	50.90	53.46	29.22	49.93
Feb-02	48.46	48.07	50.90	30.03	50.10
Mar-02	50.67	51.09	53.43	30.27	49.78
Apr-02	50.40	50.53	53.32	30.17	49.68
May-02	47.69	47.85	50.00	29.62	50.43
Jun-02	50.04	52.16	53.00	30.97	52.23
Jul-02	51.83	53.09	53.86	33.47	53.53
Aug-02	52.53	52.95	53.81	33.62	53.41
Sep-02	53.21	53.55	54.31	34.12	52.53
Oct-02	53.13	52.80	52.81	33.27	52.75
Nov-02	51.58	51.89	51.71	30.23	51.53
Dec-02	52.98	53.71	54.96	28.70	52.32
Jan-03	52.20	52.61	54.67	28.72	52.03
Feb-03	52.67	53.16	54.71	29.27	52.25
Mar-03	52.87	53.73	54.89	29.29	52.23
Apr-03	52.34	52.61	55.11	31.92	52.63
May-03	52.34	52.61	54.16	31.92	52.23
Jun-03	54.97	55.07	55.31	30.72	54.23
Jul-03	55.00	55.11	55.31	30.62	54.13
Aug-03	54.24	55.11	55.31	32.64	54.13
Sep-03	53.27	53.65	53.81	32.49	53.73
Oct-03	52.60	52.81	57.89	32.62	52.20
Nov-03	52.53	52.66	58.18	32.52	51.93
Dec-03	52.09	52.41	58.31	32.42	52.90
Jan-04	52.09	52.30	54.67	32.60	52.03
Feb-04	48.67	53.11	54.71	34.00	52.25
Mar-04	48.67	53.21	54.89		52.23
Apr-04	48.47	53.01	55.11	31.82	52.63
May-04	48.27	52.31	54.16	31.02	52.23
Jun-04	48.27	52.61	55.31	34.62	54.23
Jul-04	46.51	49.72	55.31	35.82	54.13

Table 5
Staff Gauge and Monitor Well Readings
St. Catherine Rock Mine
Sumter County, Florida

	Monitor Wells			Staff Gauges	
Date	MW-37	MW-55	Mitigation Area Well	Quarry B	Mitigation Area Staff Gauge
Aug-04	46.97	50.01	55.31	35.62	54.13
Sep-04	47.22	50.21	55.81	30.92	53.73
Oct-04	46.57	49.21	57.89	30.62	52.20
Nov-04	46.62	49.46	58.18	30.27	51.93
Dec-04	46.02	50.01	58.31	33.42	52.90
Jan-05	45.57	49.96	54.67	34.17	52.03
Feb-05	45.57	49.96	54.71	34.37	52.25
Mar-05	45.62	50.06	54.89	34.07	52.23
Apr-05	45.67	50.06	55.11	34.12	52.63
May-05	45.67	50.11	54.16	34.12	52.23
Jun-05					
Jul-05	45.03	50.59	50.00	37.02	50.43
Aug-05	45.63	50.19	50.00	36.92	50.43
Sep-05	45.43	50.28	50.00	37.02	50.43
Oct-05	46.93	50.09	50.00	36.62	50.43
Nov-05	46.93	49.99	50.00	36.62	50.43
Dec-05	47.03	49.79	50.00	36.32	50.43
Jan-06	47.13	49.49	50.00	36.52	50.43
Feb-06	46.84	50.45	50.00	36.62	50.43
Mar-06	46.78	49.89	53.59	36.32	51.03
Apr-06	44.69	48.28	52.83	37.50	50.43
May-06	44.69	47.85	50.00	37.10	50.43

Table 6
Rainfall, Southern Withlacoochee
SWFWMD

Month-Year	Actual Rainfall	Mean Rainfall
Jan-97	2.28	2.66
Feb-97	0.93	3.02
Mar-97	1.51	4.07
Apr-97	4.12	2.86
May-97	1.51	3.92
Jun-97	4.92	7.59
Jul-97	5.45	8.27
Aug-97	4.19	7.88
Sep-97	9.07	6.43
Oct-97	5.32	3.02
Nov-97	3.27	1.96
Dec-97	11.42	2.39
Jan-98	5.50	2.66
Feb-98	8.45	3.02
Mar-98	5.20	4.07
Apr-98	0.17	2.86
May-98	1.20	3.89
Jun-98	1.46	7.55
Jul-98	7.63	8.24
Aug-98	6.30	7.84
Sep-98	10.81	6.46
Oct-98	1.74	3.04
Nov-98	0.90	1.98
Dec-98	1.08	2.51
Jan-99	4.27	2.66
Feb-99	0.36	3.06
Mar-99	1.15	4.05
Apr-99	0.96	2.84
May-99	2.59	3.56
Jun-99	8.35	7.48
Jul-99	5.98	8.23
Aug-99	6.64	7.82
Sep-99	4.83	6.51
Oct-99	3.63	3.03
Nov-99	2.74	1.97
Dec-99	1.34	2.49
Jan-00	1.42	2.69
Feb-00	0.60	3.06
Mar-00	0.57	4.05
Apr-00	1.21	2.82
May-00	0.47	3.85
Jun-00	9.12	7.49
Jul-00	6.84	8.21
Aug-00	7.32	7.80
Sep-00	4.88	6.49
Oct-00	0.05	3.03
Nov-00	2.00	1.98
Dec-00	0.97	2.47

Month-Year	Actual Rainfall	Mean Rainfall
Jan-01	2.15	2.70
Feb-01	0.95	2.84
Mar-01	6.39	3.53
Apr-01	0.04	2.81
May-01	0.68	3.89
Jun-01	8.39	7.42
Jul-01	10.75	7.80
Aug-01	7.96	7.79
Sep-01	14.87	6.47
Oct-01	0.54	3.00
Nov-01	0.53	1.97
Dec-01	0.57	2.45
Jan-02	4.21	2.70
Feb-02	2.60	3.00
Mar-02	2.05	3.99
Apr-02	1.81	2.80
May-02	1.79	3.81
Jun-02	14.97	7.52
Jul-02	10.87	8.20
Aug-02	8.84	7.79
Sep-02	5.93	6.56
Oct-02	2.59	2.98
Nov-02	1.72	1.96
Dec-02	10.34	2.52
Jan-03	0.15	2.67
Feb-03	5.33	3.12
Mar-03	5.52	4.00
Apr-03	2.56	2.75
May-03	2.25	3.74
Jun-03	14.47	7.66
Jul-03	6.84	8.20
Aug-03	8.89	7.80
Sep-03	5.37	6.49
Oct-03	2.11	2.96
Nov-03	1.75	1.95
Dec-03	1.76	2.51
Jan-04	3.09	2.66
Feb-04	5.91	3.02
Mar-04	1.18	3.96
Apr-04	3.03	2.75
May-04	1.51	3.71
Jun-04	9.83	7.66
Jul-04	7.45	8.17
Aug-04	8.90	7.81
Sep-04	15.56	6.59
Oct-04	1.47	2.94
Nov-04	1.89	1.95
Dec-04	1.16	2.50

Month-Year	Actual Rainfall	Mean Rainfall
Jan-05	1.38	2.65
Feb-05	1.83	3.00
Mar-05	4.42	3.97
Apr-05	3.01	2.76
May-05	4.44	3.72
Jun-05	9.91	7.69
Jul-05	9.52	8.19
Aug-05	9.01	7.82
Sep-05	3.57	6.56
Oct-05	4.37	2.96
Nov-05	2.38	1.95
Dec-05	3.08	2.50
Jan-06	0.63	2.63
Feb-06	4.69	3.02
Mar-06	0.14	3.93
Apr-06	1.10	2.74
May-06		
Jun-06		
Jul-06		

Photo 1: Transect 3, view east across Corbett Sink. May 24, 2006.

Photo 2: Transect 3, view west across Corbett Sink. May 24, 2006.

Photo 3: Transect 4, view south toward west end of transect. May 24, 2006.

Photo 4: Transect 4, view north along transect. May 24, 2006.

Photo 5: Transect 6, view southeast into cypress swamp. May 24, 2006.

Photo 6: Transect 6. View northwest from southeast end of transect. May 24, 2006.

Photo 7: Vegetation Zonation. Transect 4, view to west. May 24, 2006.

P hoto 8: Vegetation Zonation. Transect 6, view to the southwest. May 24, 2006.

Appendix

Historical Vegetative Cover Charts for T4 - Corbett Run Marsh and T6 - Cypress Swamp

SOUTHEAST ENVIRONMENTAL SOLUTIONS, INC.
PLANT CITY, FLORIDA

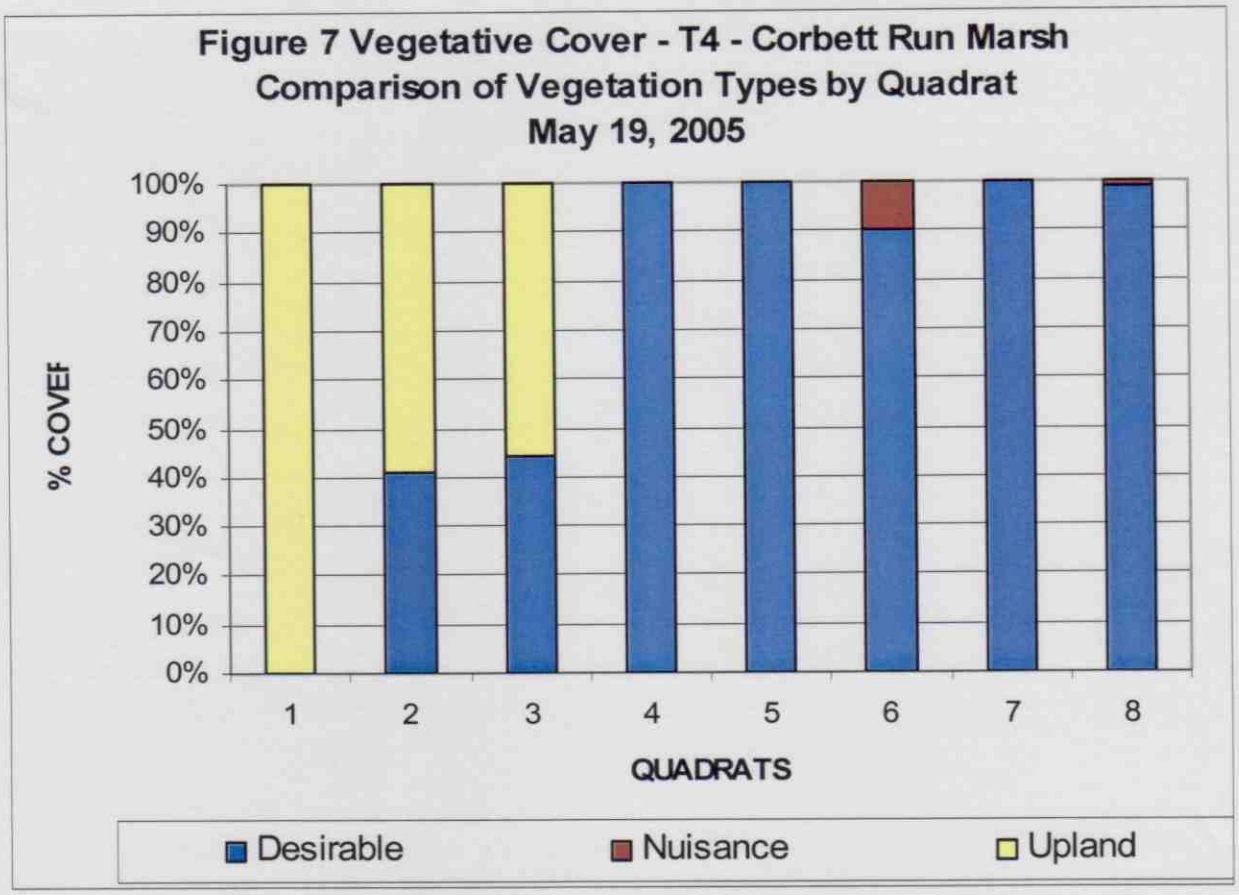
Figure 7 Vegetative Cover - T4 - Corbett Run Marsh
Comparison of Vegetation Types by Quadrat
May 19, 2005
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
% COVEF
1
2
3
4
5
6
7
8
QUADRATS
Desirable
Nuisance
Upland

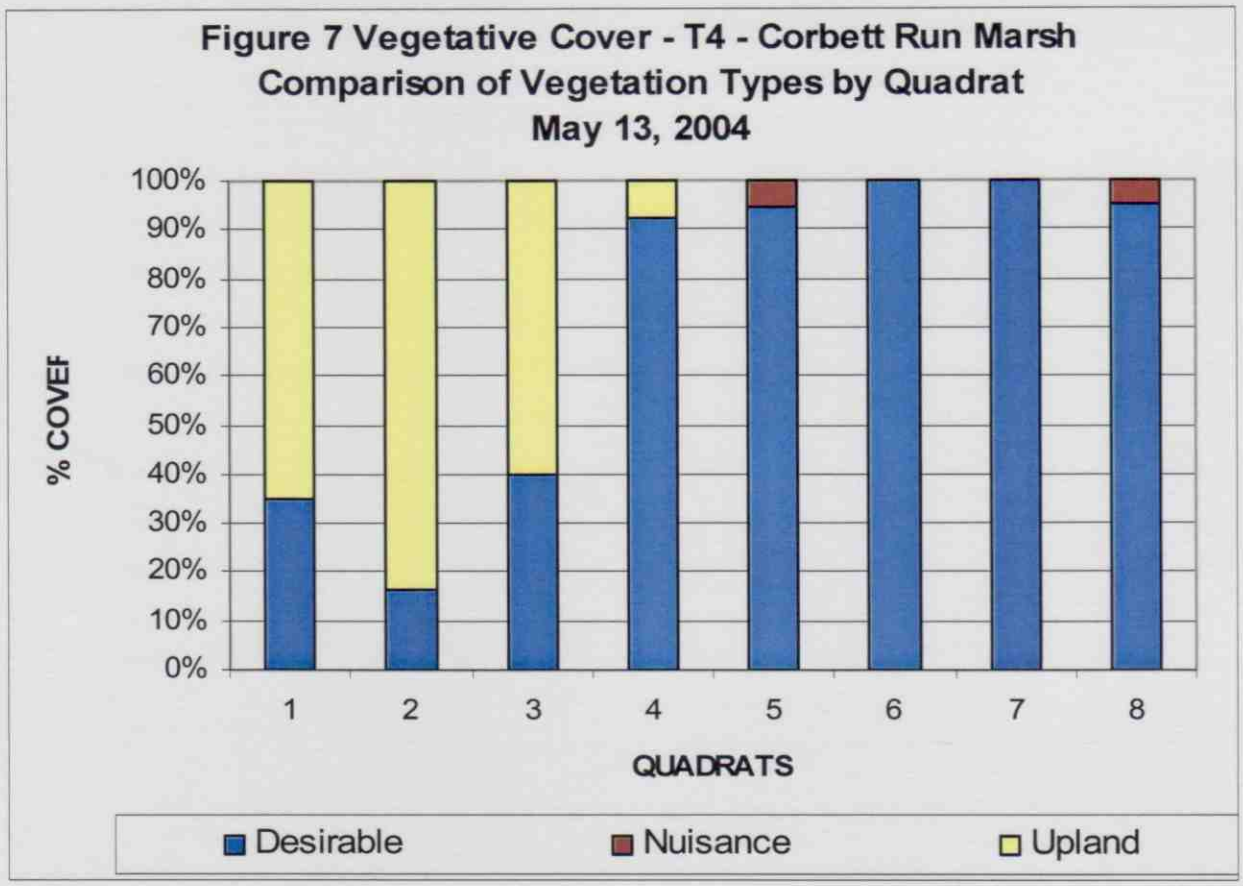
Figure 7 Vegetative Cover - T4 - Corbett Run Marsh
Comparison of Vegetation Types by Quadrat
May 13, 2004
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
% COVEF
1
2
3
4
5
6
7
8
QUADRATS
Desirable
Nuisance
Upland

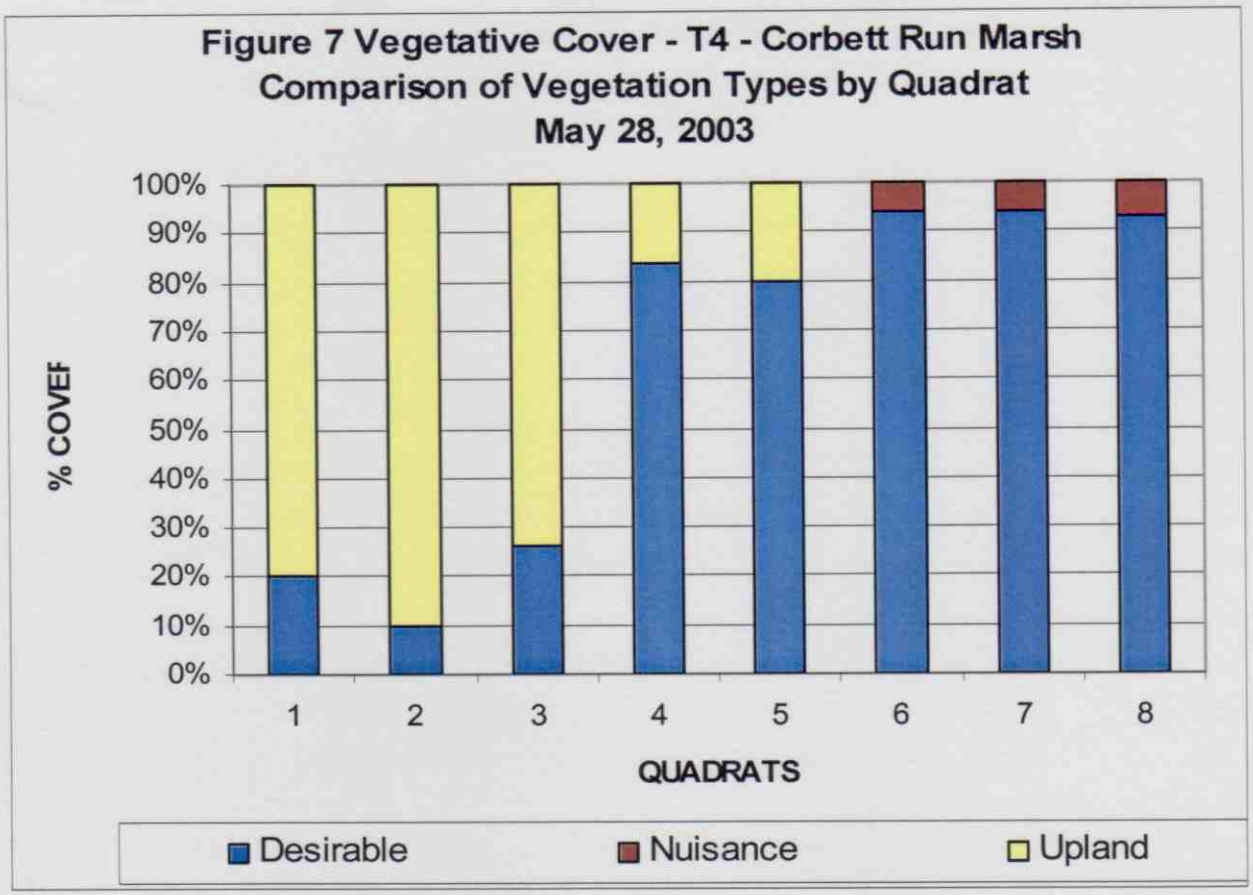
Figure 7 Vegetative Cover - T4 - Corbett Run Marsh
Comparison of Vegetation Types by Quadrat
May 28, 2003
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
% COVEF
1
2
3
4
5
6
7
8
QUADRATS
Desirable
Nuisance
Upland

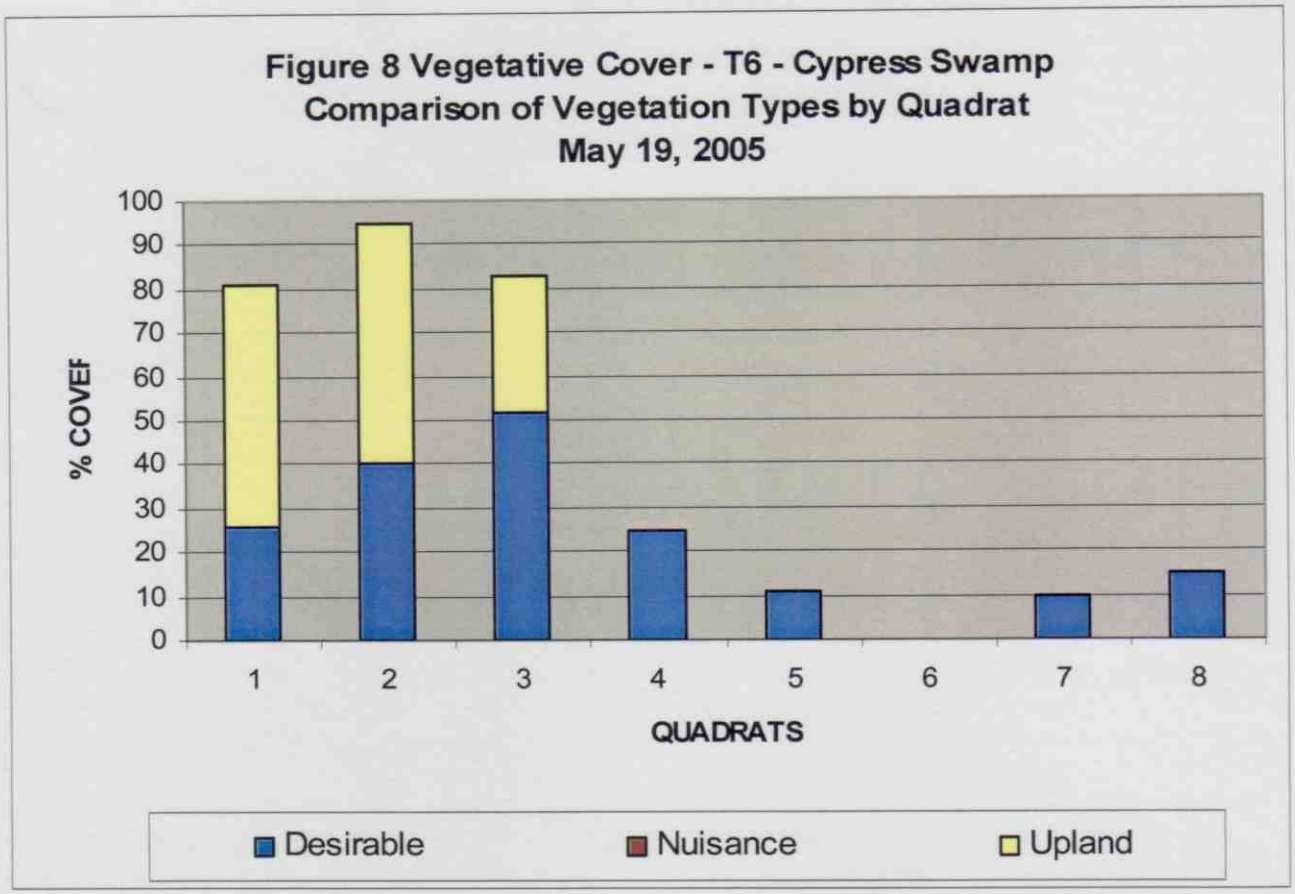
Figure 8 Vegetative Cover - T6 - Cypress Swamp
Comparison of Vegetation Types by Quadrat
May 19, 2005
% COVEF
100
90
80
70
60
50
40
30
20
10
0
1
2
3
4
5
6
7
8
QUADRATS
Desirable
Nuisance
Upland

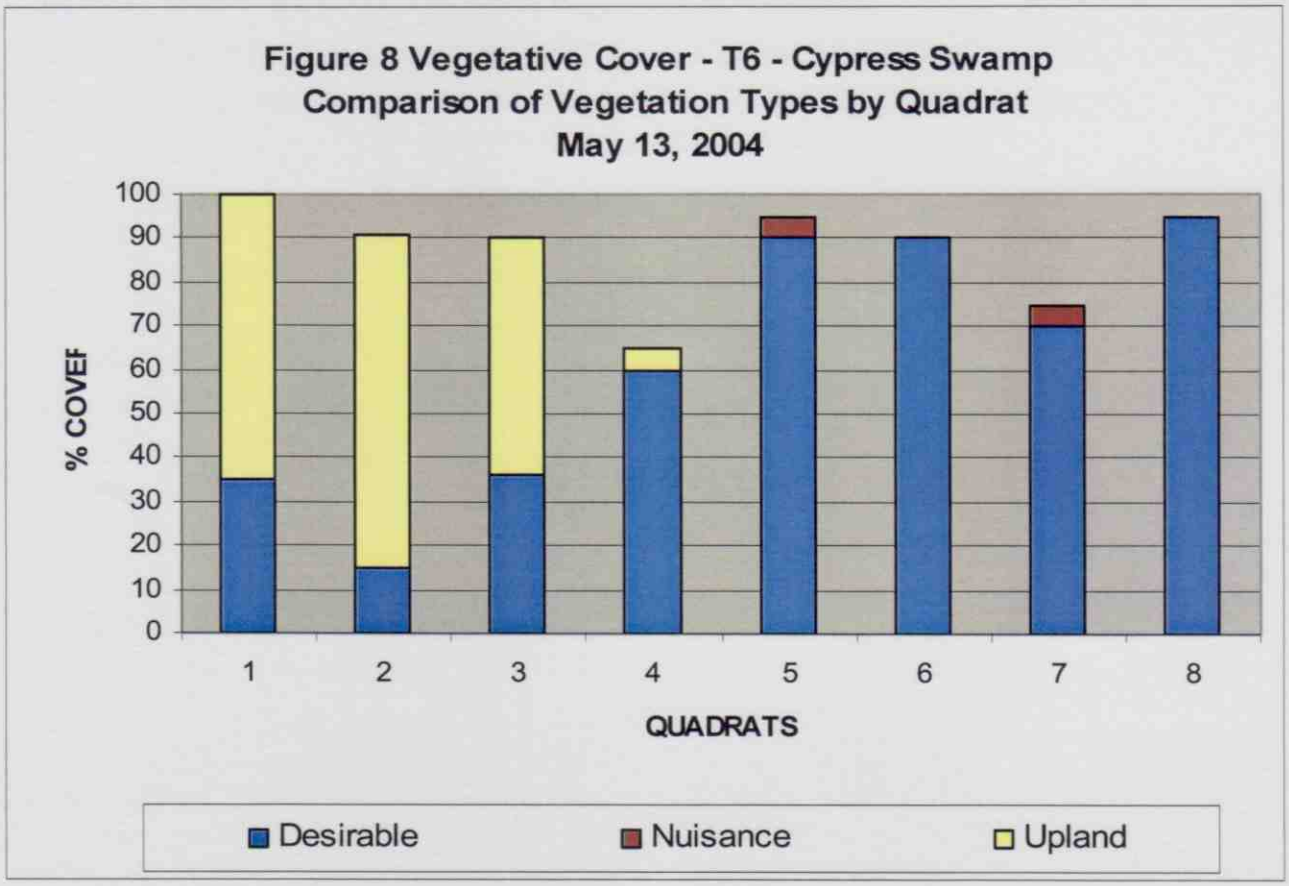
Figure 8 Vegetative Cover - T6 - Cypress Swamp
Comparison of Vegetation Types by Quadrat
May 13, 2004
% COVEF
100
90
80
70
60
50
40
30
20
10
0
1
2
3
4
5
6
7
8
QUADRATS
Desirable
Nuisance
Upland

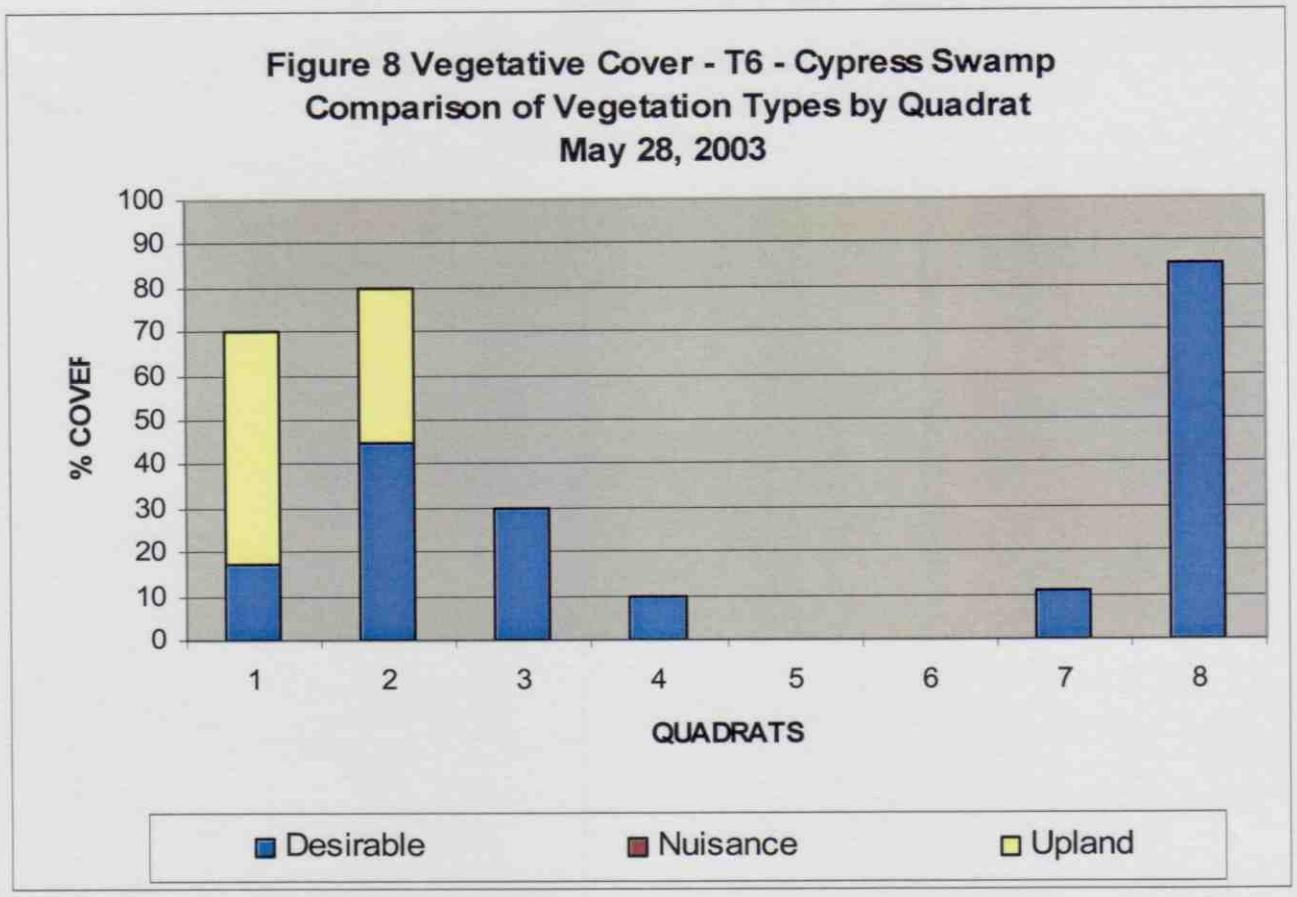
Figure 8 Vegetative Cover - T6 - Cypress Swamp
Comparison of Vegetation Types by Quadrat
May 28, 2003
% COVEF
100
90
80
70
60
50
40
30
20
10
0
1
2
3
4
5
6
7
8
QUADRATS
Desirable
Nuisance
Upland