ENVIRONMENTAL MONITORING REPORT

PENNSUCO MITIGATION PROJECT

Miami-Dade County, Sections 6, 16, 30, 32
Townships 52-South, 53-South, Range 39-East

Project: C-13604

Monitoring Performed:
June 17, 2006

Submitted:
July 2006

KCI Technologies, Inc.

Table of Contents

1.0 Introduction
2.0 Purpose
3.0 Site Location
4.0 Methodology
Figure 1: Location Map
Figure 2: Transect Locations
5.0 Results

Monitoring Data

Transect A
Narrative
Observations from June 17, 2006 Monitoring
Figure 3: Transect A
Collection Station Data Sheets

Transect B
Narrative
Observations from June 17, 2006 Monitoring
Figure 4:Transect B
Collection Station Data Sheets

Transect C
Narrative
Observations from June 17, 2006 Monitoring
Figure 5:Transect C
Collection Station Data Sheets

Transect DR
Narrative
Observations from June 17, 2006 Monitoring
Figure 6: Transect DR

Rainfall Data 2005-2006

1.0 Introduction

KCI Technologies, Inc. (KCI) has conducted the annual vegetative monitoring and data collection assessment for the Pennsuco Monitoring Mitigation Project, C-13604, administered by the South Florida Water Management District (SFWMD). The monitoring requires qualitative and quantitative assessments to document the success of the vegetative and hydrologic restoration. Restoration success can be gauged by reduction of exotic species and the recruitment of target native species, sawgrass in particular.

2.0 Purpose

The primary purpose of the monitoring program is to identify and describe the elements of the natural system, thus enabling the SFWMD to evaluate the success of exotic plant control activities over a five-year period. The vegetative success criteria outlined in the Draft Pennsuco Memorandum of Agreement (MOA) requires that after five-years: the percent cover of exotic invasive species is no greater than five percent, the percent cover of open water and obligate and facultative wetland woody shrub species is no greater than 20 percent, and the percent cover of native plant herbaceous obligate and facultative wetland species is no less than 80 percent.

3.0 Site Location

The Pennsuco Mitigation Area is composed of all or part of 11 blocks in Cell 26 of the East Coast Buffer and occupies approximately 13,000 acres in Miami-Dade County (Figure 1). The site is bordered on the west and north by Krome Avenue, to the south by the Tamiami Trail (US 41) and to the east by the Dade-Broward Levee. The SFWMD had been conducting invasive species eradication in these areas as a component of its restoration plan. The specific areas being monitored include Section 30, Township 52 South, Range 39 East; Section 5, Township 53 South, Range 39 East; Section 18, Township 53 South, Range 39 East; and Section 31, Township 53 South, Range 39 East.

4.0 Methodology

The monitoring was conducted along four one-mile transects as identified in Figure 1 of the SFWMD Statement of Work or as adjusted by SFWMD staff at the field visit prior to the initiation of work. Three of the four transects are located adjacent to Krome Avenue (A, C, DR) and were directly accessible. The remaining transect (B) is located one mile east of Krome Avenue (Figure 2, Table 1). Global Positioning System (GPS) was used to identify the two end points of each transect. The points were permanently marked by installing a 10-foot length of 3-inch PVC pipe, painted fluorescent orange, at each location. GPS and/or compass bearings were then used to identify data collection stations along each transect.

Table 1 Transect End Points

Transect	Latitude	Longitude
Begin "A"	25° 53' 12.76"	80° 29' 03.33"
End "A"	25° 53' 12.69"	80° 28' 04.91"
Begin "B"	25° 51' 20.39"	80° 28' 01.70"
End "B"	25° 51' 19.15"	80° 27' 03.30"
Begin "C"	25° 49' 48.07"	80° 28' 55.38"
End "C"	25° 49' 48.00"	80° 27' 57.00"
Begin "DR"	25° 47' 20.64"	80° 28' 46.31"
End "DR"	25° 47' 45.57"	80° 28' 09.88"

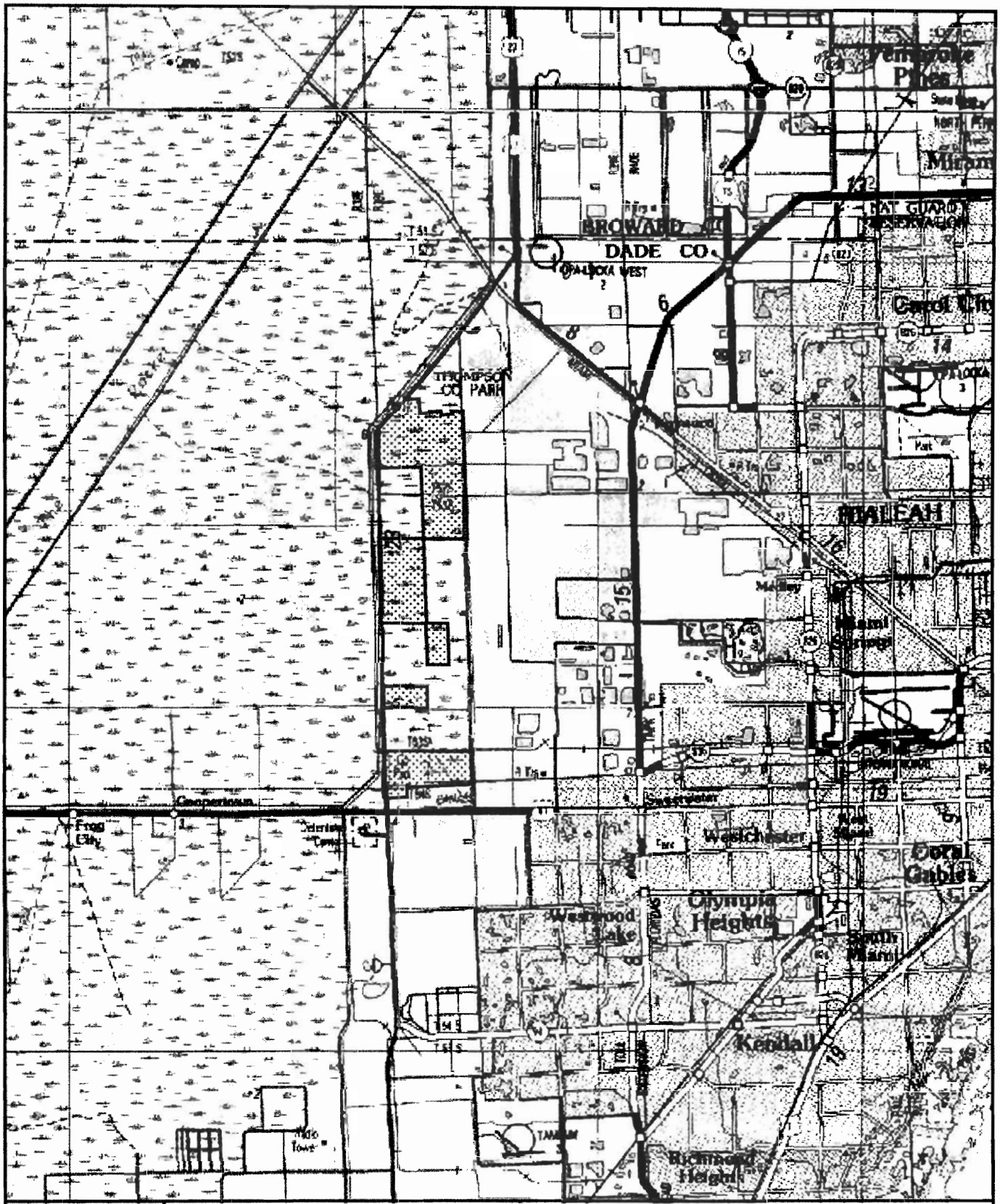

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Figure 1. Location Map

Restoration Area

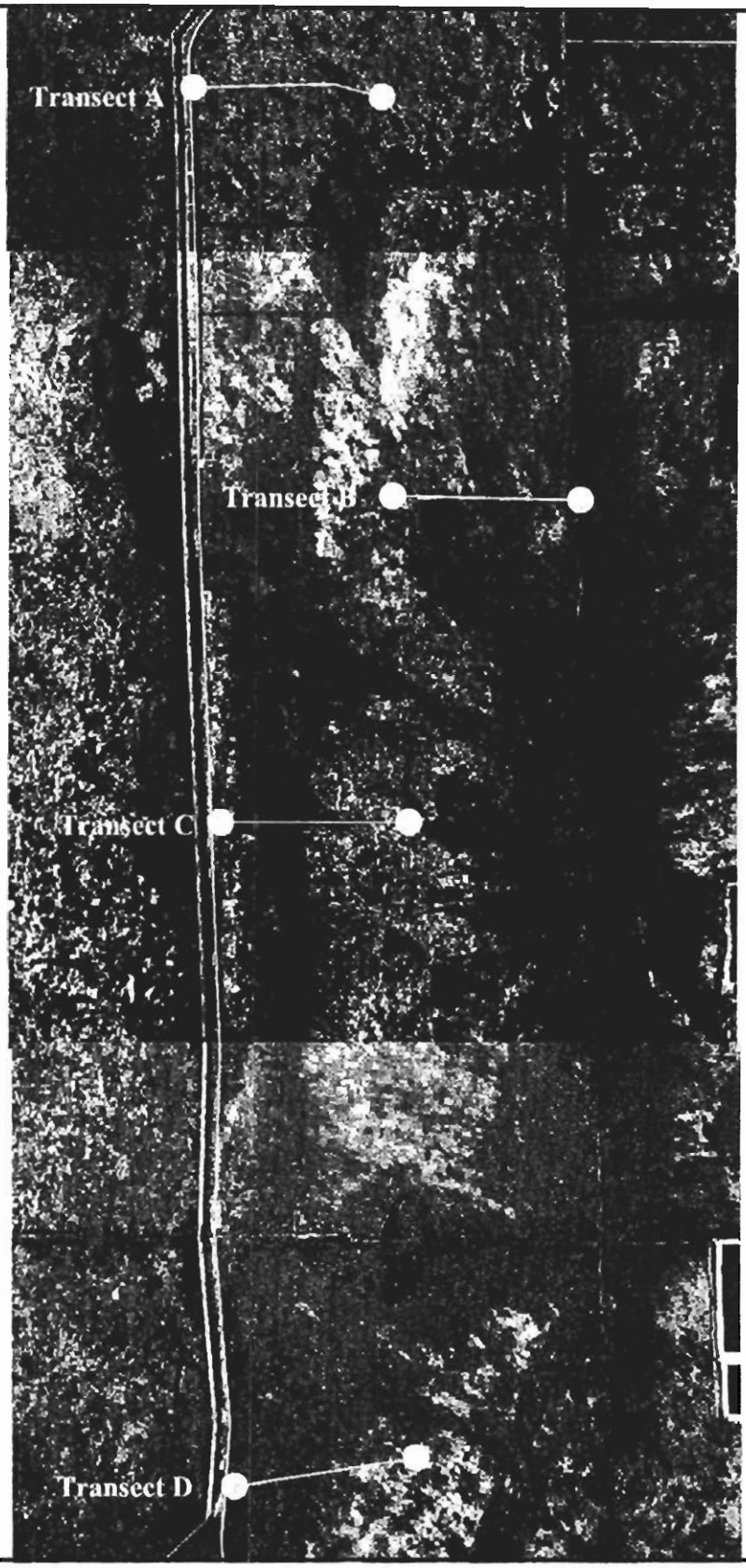

Figure 2. Transect Locations

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N

3000 0 3000 Feet

A total of 30 data collection stations, each measuring 4 square meters, were established at approximately equally spaced intervals of 176 feet along each transect. Collection stations at the end points of each transect were established three meters from the point marker. At each data collection point, the center of a four-meter square grid was marked by placing a 5-foot length of white ¾-inch PVC pipe in the substrate. Where feasible, a 4-meter square portable PVC frame with 4 individual 1-meter cells was utilized to estimate percent coverage; otherwise, visual assessments were made by assessing the area 1-meter in each direction from the central point of the collection station. Percent coverage was estimated in each of four layers, described as follows:

1. **Submerged Aquatics** – Herbaceous plants occurring below water surface.
2. **Herbaceous** – Non-woody plants occurring at or above the water surface and woody plants less than one meter in height
3. **Sapling/Vine** – Woody plants one to three meters in height and woody vines.
4. **Overstory** – Woody plants greater than three meters in height.

Coverage was documented at each of the 120 collection stations as a percent coverage with the total percent not exceeding 100 percent/layer. All species found were documented by scientific and common name, and entered onto field forms. Water level and/or soil saturation, observed aquatic macrofauna, wildlife utilization, and/or indicators of wildlife (i.e. tracks, scat, etc.) were recorded at data collection stations 7, 14, 21, and 28 of each transect. Observations also focused on whether saw grass (*Cladium jamaicense*) and Punk Trees (*Melaleuca quinquenervia*) were either alive or dead, due to eradication efforts. This distinction was not made for other vegetative types because of the significantly lower percentage of other vegetation present.

Photographs of the collection station were taken for reference from an elevated position. Panoramic photos were taken from each transect end point to qualitatively document the existing vegetation along the transect. Each panoramic photo included the end point of each transect with the 3-inch PVC pipe shown for reference.

Data for each transect was organized into spreadsheets and correlated with photographic references for each collection station. Summary percent coverages by species were calculated for each layer by dividing the area occupied by each individual species in the transect by the total area surveyed in the transect. This procedure is outlined in the following:

CT = Percentage of coverage by species per collection station
CA = Total area sampled per collection point (4 square meters)
PC = Total area covered by species per collection station (CT*CA)
TA = Total area sampled in transect (30 collection points x 4 square meters = 120 square meters)
TC = Total coverage by species per transect

TC = PC/TA

5.0 Results

The collected data were incorporated into individual spreadsheets for presentation. A narrative describing each transect followed by summary data and individual data is presented in the following section.

MONITORING DATA
June 17, 2006

TRANSECT A

Narrative

Transect A is located in Section 30, Township 52, Range 39 (Cell 26 – Pennsuco Exotic Treatment Area). It starts on the levee at Krome Avenue with point A1 (GPS Coordinates Latitude 25° 53' 12.76", Longitude 80° 29' 03.33") and continues east one mile to point A30 (GPS coordinates Latitude 25° 53' 12.69", Longitude 80° 28' 04.91"), which is west of the Dade-Broward Levee (Figure 3). Two community types were identified for transect A. Point A1 represents an upland levee community dominated by Shield Fern (*Thelypteris kunthii*) and Bushy Bluestem (*Andropogon glomeratus*). Points A2 through A30 represent a wet prairie community type dominated by Saw Grass (*Cladium jamaicense*). Previous control efforts focused primarily on Punk Trees (*Melaleuca quinquenervia*), and consisted of herbicidal treatment and a physical removal program, followed by a controlled burn.

Observations from June 17, 2006 monitoring

The recent control efforts of Punk Tree saplings (*Melaleuca quinquenervia*) has shown a decrease in saplings throughout the transect. Punk Tree (*Melaleuca quinquenervia*) saplings were observed in several plots, indicating recent growth from the monitoring period in December 2005. After point A25, there were numerous Punk Tree (*Melaleuca quinquenervia*) saplings observed throughout the transect.

The entire transect was observed to be extremely dry due to the recent drought conditions. There was no standing water throughout the transect and the soils exhibited no moisture. No macrofauna or indicators of wildlife were noted.

In summary, the percent vegetative coverage, by layer, for this transect identified:

- In the submerged aquatics layer only, 1.0 percent Water-Hyssops *(Bacopa carolinaiana)* and 99 percent open/void.
- In the herbaceous species layer, 23 percent alive Saw Grass (*Cladium jamaicense)*, 14 percent dead Saw Grass, 5 percent alive Punk Tree (*Melaleuca quinquenervia*), 5 percent dead Punk Tree, 7 percent Capillary Hairsedge *(Bulbostylis ciliataefolia),* 6 percent Tracy's Beak Rush (*Rhynchospora tracyi*), 2 percent Southern Swamp Lily *(Crinum americanum),* 2 percent Arrowhead (*Sagittaria graminea*), 10 percent dead biomass, and 23 percent open/void.
- In the sapling/vine layer, 100 percent open/void.
- In the overstory layer, 100 percent open/void.

KCI TECHNOLOGIES

Figure 3. Transect A

End Points of Segment

Data Collection Locations

N

300 0 300 Feet

TRANSECT "A" Total Length 5280'

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	1.3%	1.0%
Bladderwort	*Utricularia foliosa*	0.0%	0.0%
Mermaid Weed	*Proserpinaca palustris*	0.0%	0.3%
Ludwigia	*Ludwigia repens*	0.5%	0.0%
Manatee Mudflower	*Micranthemum glomeratum*	0.7%	0.0%
Open/Void	*N/A*	97.5%	98.7%
	TOTAL	100.0%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	17.7%	22.8%
Saw Grass (Dead)	*Cladium jamaicense*	13.0%	13.8%
Punk Tree (Alive)	*Melaleuca quinquenervia*	1.3%	5.0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0.5%	5.0%
Bushy Bluestem	*Andropogon glomeratus*	0.5%	0.5%
Southern Swamp Lily	*Crinum americanum*	0.7%	2.2%
Pickerelweed	*Pontederia lanceolata*	0.2%	0.3%
Yellowtops	*Flaveria linearis*	0.2%	0.5%
Arrowhead	*Sagittaria graminea*	0.2%	1.5%
Floating-Heart	*Nymphoides aquatica*	1.2%	0.0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0.7%	6.7%
Tracy's Beak Rush	*Rhynchospora tracyi*	6.7%	5.5%
Button Bush	*Cephalanthus occidentalis*	0.2%	0.7%
Maiden-Cane	*Panicum hemitomum*	0.7%	0.0%
Shield Fern	*Thelypteris kunthii*	0.3%	1.3%
Swamp Fern	*Blechnum serrulatum*	0.8%	0.0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0.0%	0.3%
Water Cowbane (white flower)	*Oxypolis filiformis*	0.3%	1.0%
Dead Biomass	*N/A*	7.2%	9.7%
Open Water/Mud/Void	*N/A*	47.8%	23.2%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0.8%	0.0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	1.2%	0.0%
Elm	*Trema micrantha*	0.0%	0.0%
Saltmarsh morning glory (vine)	*N/A*	0.0%	0.2%
Open/Void	*N/A*	98.0%	99.8%
	TOTAL	100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0.0%	0.0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	1.7%	0.0%
Golden Fig	*Ficus Aurea*	0.0%	0.0%
Open/Void	*N/A*	98.3%	100.0%
	TOTAL	100%	100%

NOTES:

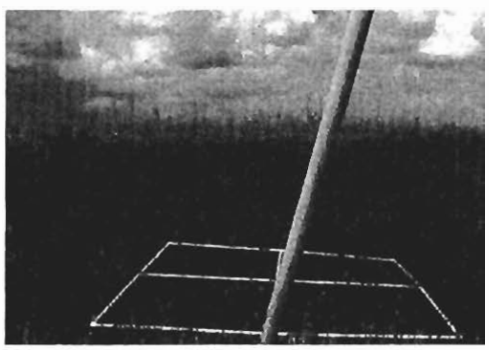
Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

0+00 Panoramic - Looking east

52+78 Panoramic - Looking West



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT	A-1	STATION	0+00

SUBMERGED AQUATICS		12/3/2005	6/17/2006
Common Name	**Scientific Name**	**% Coverage**	**% Coverage**
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

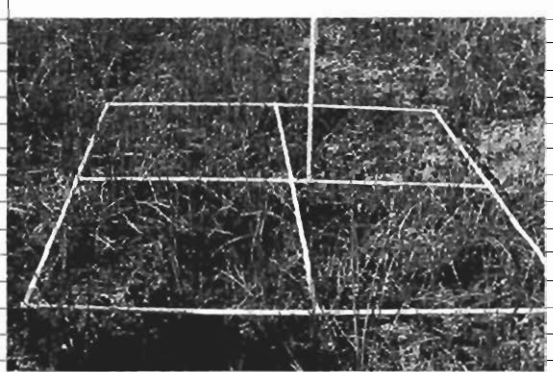
HERBACEOUS SPECIES			
Common Name	**Scientific Name**	**% Coverage**	**% Coverage**
Saw Grass (Alive)	*Cladium jamaicense*	0%	0%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Bushy Bluestem	*Andropogon glomeratus*	15%	15%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	5%	15%
Arrowhead	*Sagittaria graminea*	0%	0%
Floating-Heart	*Nymphoides aquatica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Button Bush	*Cephalanthus occidentalis*	5%	5%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	10%	40%
Swamp Fern	*Blechnum serrulatum*	25%	0%
Horned bladderwort (Rush/yellow flower)	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	40%	25%
Open Water/Mud/Void	*N/A*	0%	0%
	TOTAL	100%	100%

SAPLING / VINE			
Common Name	**Scientific Name**	**% Coverage**	**% Coverage**
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	15%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	85%	100%
	TOTAL	100%	100%

OVERSTORY			
Common Name	**Scientific Name**	**% Coverage**	**% Coverage**
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture	Dry soil
Aquatic Macrofauna	
Wildlife Indicators (tracks, scat, nests)	NONE



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-2 **STATION** 1+82

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	30%	55%
Saw Grass (Dead)	*Cladium jamaicense*	15%	25%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Floating-Heart	*Nymphoides aquatica*	5%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	15%	20%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	35%	0%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

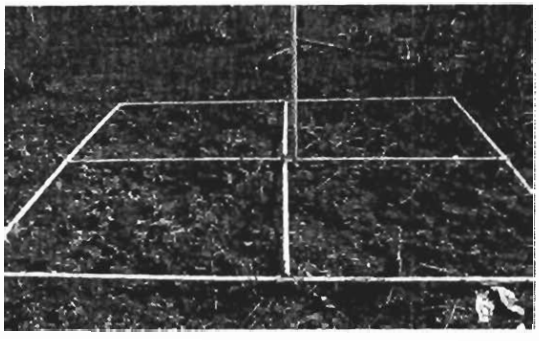
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-3 **STATION** 3+64

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	0%	0%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Floating-Heart	*Nymphoides aquatica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	20%	35%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	10%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	0%	15%
Open Water/Mud/Void	*N/A*	80%	40%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

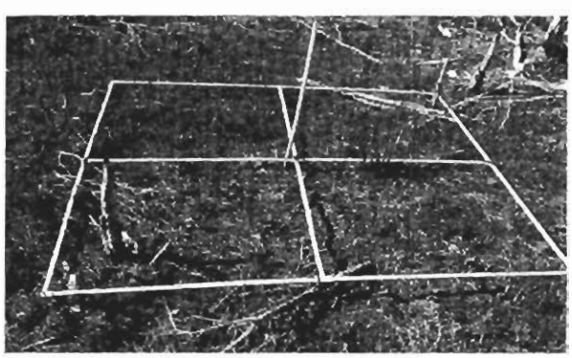
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-4 **STATION** 5+46

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	0%	0%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	5%
Pickerelweed	*Pontederia lanceolata*	0%	5%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Floating-Heart	*Nymphoides aquatica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	30%	45%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	40%	45%
Open Water/Mud/Void	*N/A*	30%	0%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Ipomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

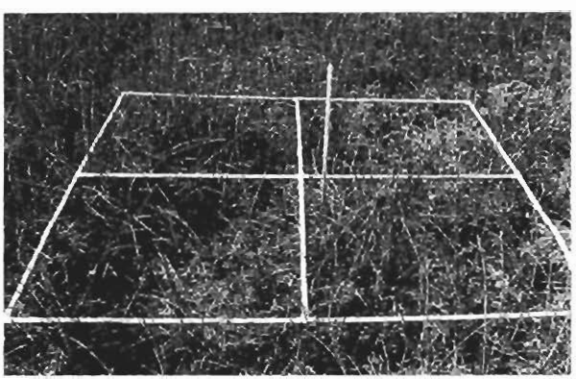
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-5 **STATION** 7+28

SUBMERGED AQUATICS **12/3/2005**

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	15%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	85%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	30%	40%
Saw Grass (Dead)	*Cladium jamaicense*	20%	50%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Floating-Heart	*Nymphoides aquatica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	50%	10%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

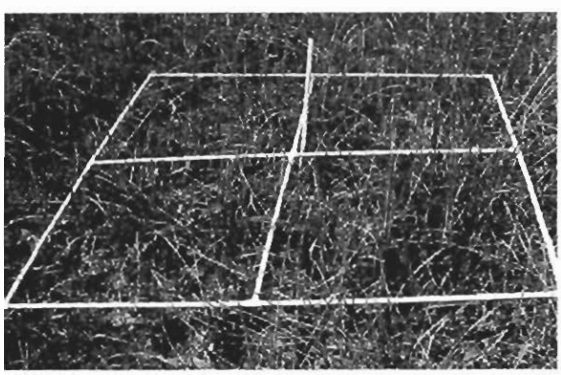
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-6 **STATION** 9+10

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	10%	25%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	15%	20%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Floating-Heart	*Nymphoides aquatica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	20%
Tracy's Beak Rush	*Rhynchospora tracyi*	20%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	55%	35%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

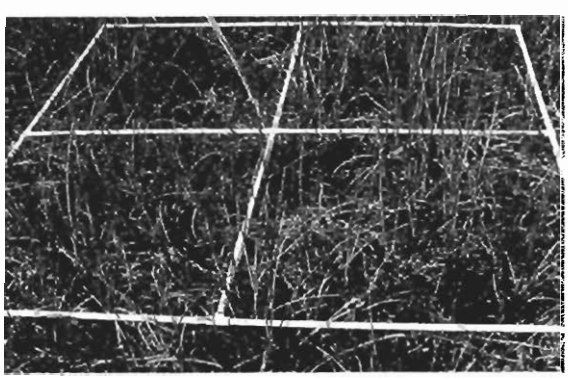
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: 1 alive Melaleuca tree

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-7 **STATION** 10+92

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	0%	5%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	95%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	45%	45%
Saw Grass (Dead)	*Cladium jamaicense*	20%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	5%	15%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Floating-Heart	*Nymphoides aquatica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	10%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	25%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	30%	5%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

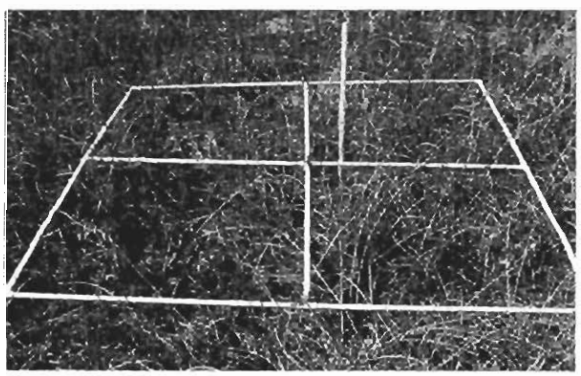
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture: Dry soil

Aquatic Macrofauna:

Wildlife Indicators (tracks, scat, nests): NONE



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-8 **STATION** 12+74

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	5%	0%
Open/Void	*N/A*	95%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	30%	60%
Saw Grass (Dead)	*Cladium jamaicense*	20%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Floating-Heart	*Nymphoides aquatica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	0%	30%
Open Water/Mud/Void	*N/A*	50%	10%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

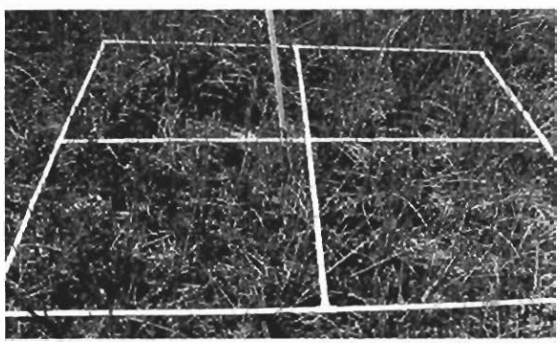
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-9 **STATION** 14+56

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	45%	45%
Saw Grass (Dead)	*Cladium jamaicense*	15%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Floating-Heart	*Nymphoides aquatica*	10%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	15%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	0%	30%
Open Water/Mud/Void	*N/A*	30%	10%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	5%
Open/Void	*N/A*	100%	95%
	TOTAL	100%	100%

OVERSTORY

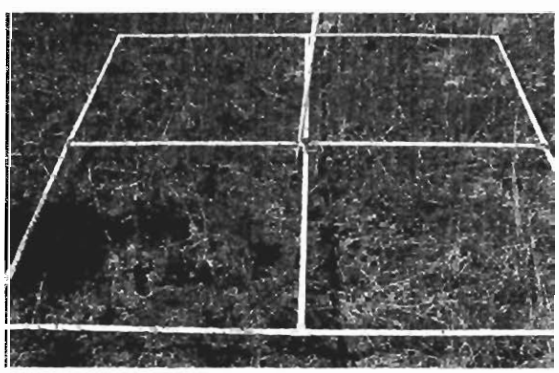
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-10 **STATION** 16+38

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	5%	0%
Open/Void	*N/A*	95%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	40%	40%
Saw Grass (Dead)	*Cladium jamaicense*	20%	45%
Punk Tree (Alive)	*Melaleuca quinquenervia*	5%	5%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	5%	5%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Floating-Heart	*Nymphoides aquatica*	5%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	5%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	25%	0%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

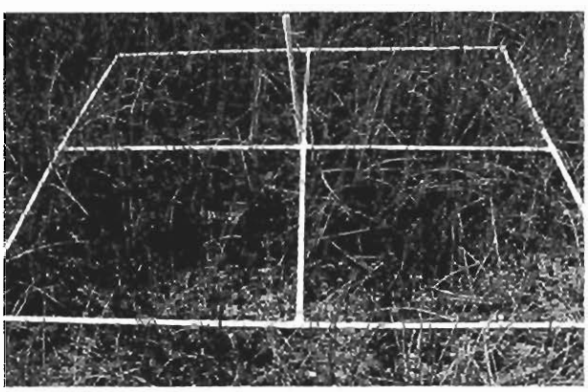
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-11 **STATION** 18+20

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	0%	0%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Floating-Heart	*Nymphoides aquatica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	45%
Tracy's Beak Rush	*Rhynchospora tracyi*	35%	25%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	10%	15%
Open Water/Mud/Void	*N/A*	55%	15%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-12 **STATION** 20+02

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	5%	10%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	95%	90%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	50%	60%
Saw Grass (Dead)	*Cladium jamaicense*	20%	25%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	5%
Floating-Heart	*Nymphoides aquatica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	30%	10%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

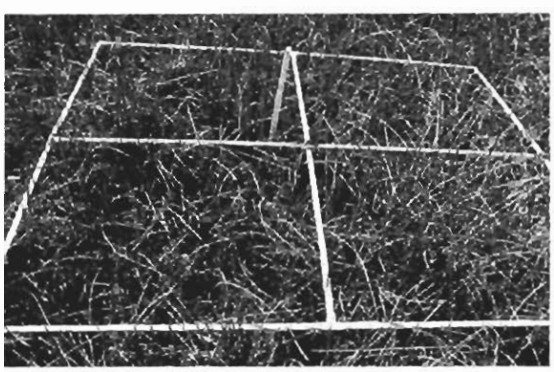
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-13 **STATION** 21+84

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	0%	0%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	10%	30%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Floating-Heart	*Nymphoides aquatica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	90%	70%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

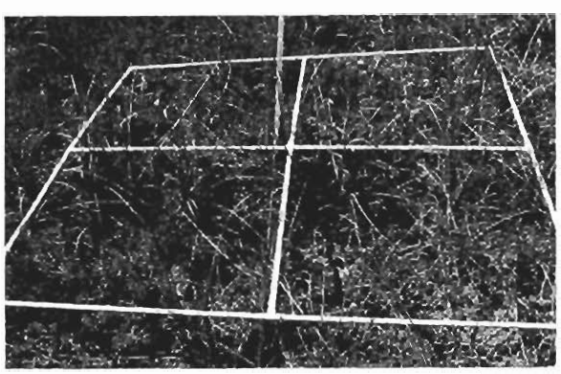
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-14 **STATION** 23+66

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	40%	55%
Saw Grass (Dead)	*Cladium jamaicense*	45%	45%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Floating-Heart	*Nymphoides aquatica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	15%	0%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

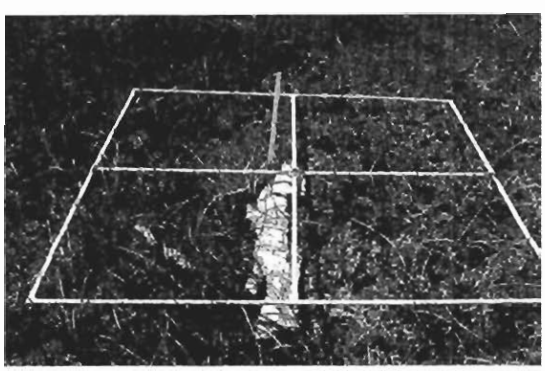
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture: Dry Soil

Aquatic Macrofauna:

Wildlife Indicators (tracks, scat, nests): NONE



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-15 **STATION** 25+48

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	20%	25%
Saw Grass (Dead)	*Cladium jamaicense*	15%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	10%
Floating-Heart	*Nymphoides aquatica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	20%
Tracy's Beak Rush	*Rhynchospora tracyi*	30%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	0%	30%
Open Water/Mud/Void	*N/A*	35%	15%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-16 **STATION** 27+30

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	15%	30%
Saw Grass (Dead)	*Cladium jamaicense*	15%	15%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	5%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	15%
Floating-Heart	*Nymphoides aquatica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	20%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	5%
Dead Biomass	*N/A*	15%	0%
Open Water/Mud/Void	*N/A*	35%	30%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Ipomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

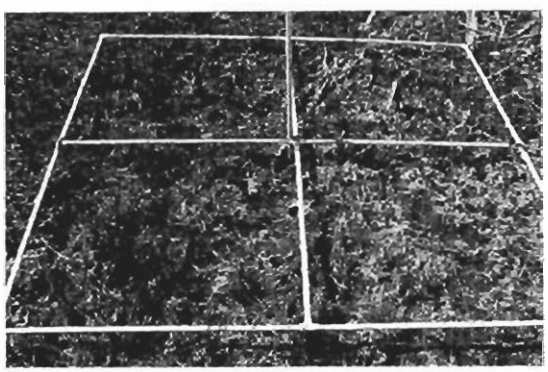
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-17 **STATION** 29+12

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	10%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	10%	0%
Open/Void	*N/A*	80%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	20%	40%
Saw Grass (Dead)	*Cladium jamaicense*	15%	20%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	10%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Floating-Heart	*Nymphoides aquatica*	10%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane	*Oxypolis filiformis*	10%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	45%	30%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

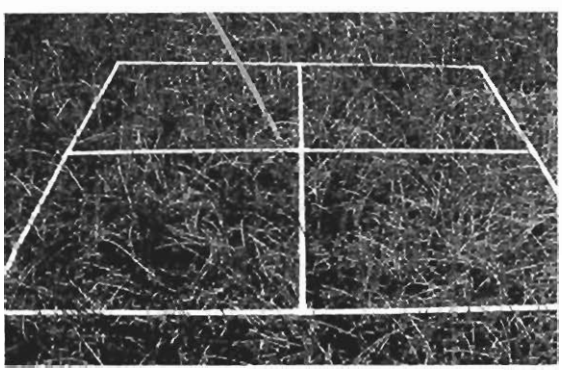
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-18 **STATION** 30+94

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	15%	10%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	85%	90%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	0%	0%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	5%	5%
Floating-Heart	*Nymphoides aquatica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	25%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	10%	10%
Open Water/Mud/Void	*N/A*	85%	60%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

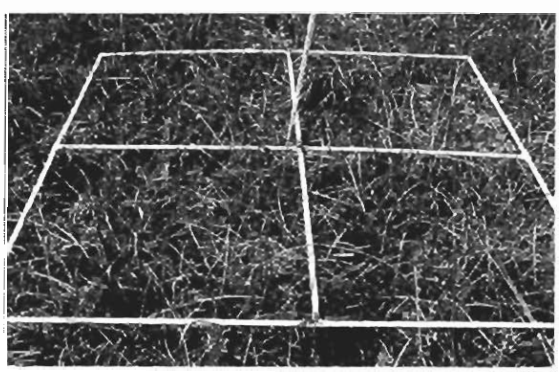
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-19 **STATION** 32+76

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	30%	25%
Saw Grass (Dead)	*Cladium jamaicense*	65%	75%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Floating-Heart	*Nymphoides aquatica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	5%	0%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Ipomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

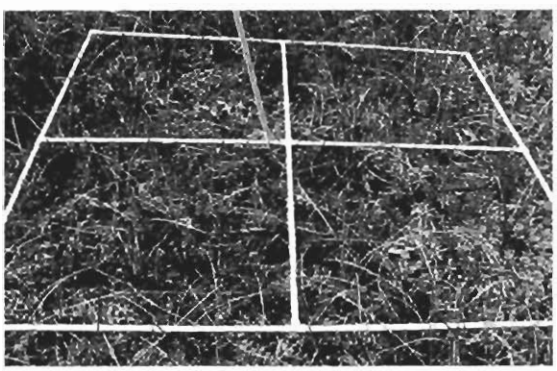
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-20 **STATION** 34+58

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	35%	25%
Saw Grass (Dead)	*Cladium jamaicense*	45%	55%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	5%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	5%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	5%
Floating-Heart	*Nymphoides aquatica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	5%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	20%	0%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

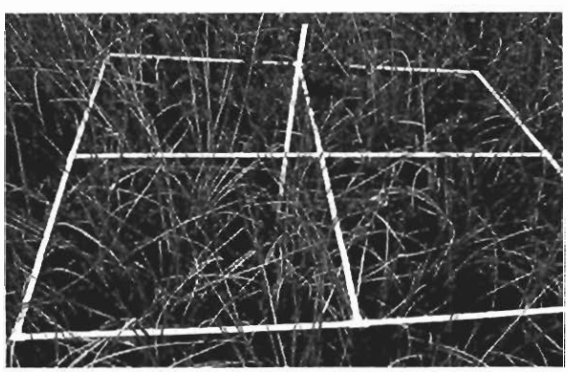
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-21 **STATION** 36+40

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	5%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	95%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	25%	20%
Saw Grass (Dead)	*Cladium jamaicense*	15%	50%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Floating-Heart	*Nymphoides aquatica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	5%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	10%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	60%	15%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: 1 alive Melaleuca tree

Water Level / Soil Moisture: Dry soil

Aquatic Macrofauna:

Wildlife Indicators (tracks, scat, nests): NONE

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-22 **STATION** 38+22

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	10%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	90%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	10%	15%
Saw Grass (Dead)	*Cladium jamaicense*	0%	10%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	30%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Floating-Heart	*Nymphoides aquatica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	10%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	35%	0%
Open Water/Mud/Void	*N/A*	55%	35%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-23 **STATION** 40+04

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	0%	0%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	65%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Floating-Heart	*Nymphoides aquatica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	5%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	100%	30%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Ipomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	45%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	55%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-24 **STATION** 41+86

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	0%	0%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	45%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	5%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Floating-Heart	*Nymphoides aquatica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	35%	0%
Open Water/Mud/Void	*N/A*	65%	50%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-25 **STATION** 43+68

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	0%	0%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	5%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	15%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Floating-Heart	*Nymphoides aquatica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	15%
Tracy's Beak Rush	*Rhynchospora tracyi*	10%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	90%	65%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

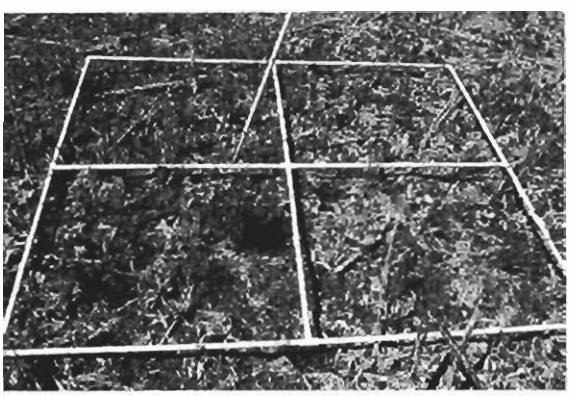
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	5%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	95%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-26 **STATION** 45+50

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	5%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	95%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	0%	0%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	10%	15%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	10%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Floating-Heart	*Nymphoides aquatica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	15%
Tracy's Beak Rush	*Rhynchospora tracyi*	20%	5%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	0%	10%
Open Water/Mud/Void	*N/A*	70%	45%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	5%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Ipomoea sagitlata*	0%	0%
Open/Void	*N/A*	95%	100%
	TOTAL	100%	100%

OVERSTORY

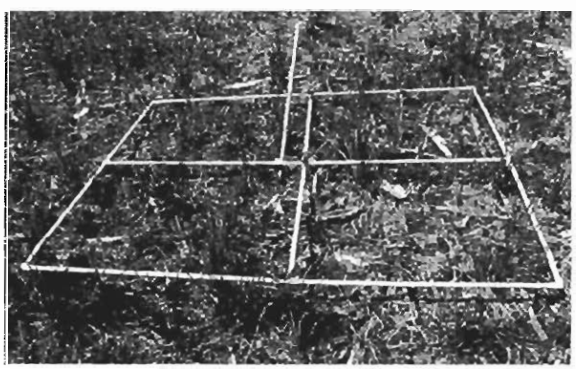
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-27 **STATION** 47+32

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	0%	0%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	5%	5%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	10%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Floating-Heart	*Nymphoides aquatica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	20%	25%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	75%	60%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: 1 alive Melaleuca tree

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-28 **STATION** 49+14

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	10%	20%
Saw Grass (Dead)	*Cladium jamaicense*	25%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	10%	20%
Punk Tree (Dead)	*Melaleuca quinquenervia*	5%	0%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Floating-Heart	*Nymphoides aquatica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	0%	50%
Open Water/Mud/Void	*N/A*	50%	10%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

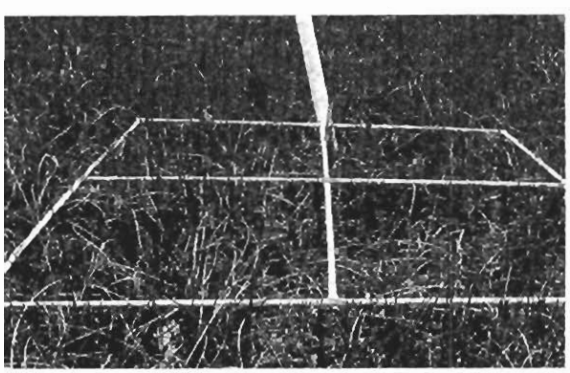
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture: Dry soil

Aquatic Macrofauna:

Wildlife Indicators (tracks, scat, nests): None



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-29 **STATION** 50+96

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	10%	20%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	25%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Floating-Heart	*Nymphoides aquatica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	10%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	10%
Maiden-Cane	*Panicum hemitomum*	20%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	30%	15%
Open Water/Mud/Void	*N/A*	40%	20%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	20%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	20%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	60%	100%
	TOTAL	100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-30 **STATION** 52+78

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Water-Hyssops	*Bacopa caroliniana*	0%	5%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Proserpinaca palustris*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	95%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw-grass (Alive)	*Cladium jamaicense*	35%	40%
Saw-grass (Dead)	*Cladium jamaicense*	20%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	10%	15%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Bushy Bluestem	*Andropogon glomeratus*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweeds	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	5%
Floating-Heart	*Nymphoides aquatica*	5%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Water Cowbane (white flower)	*Oxypolis filiformis*	0%	0%
Dead Biomass	*N/A*	0%	15%
Open Water/Mud/Void	*N/A*	30%	25%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Ipomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

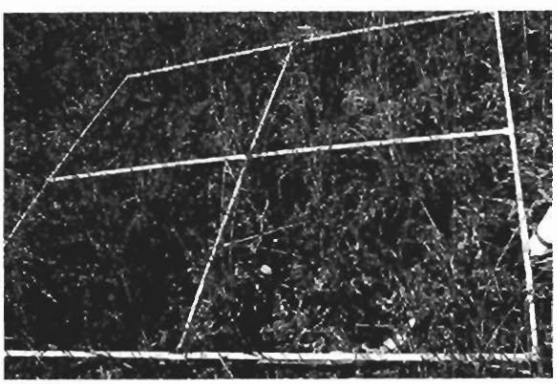
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



TRANSECT B

Narrative

Transect B is located in Section 5, Township 53, Range 39 (Cell 26 – Pennsuco Exotic Treatment Area). It starts at point B1 approximately one mile east of Krome Avenue (GPS Coordinates Latitude 25° 51' 20.39", Longitude 80° 28' 01.70"), and extends one mile east to Point B30 at the Dade-Broward Levee (Figure 4). One community type, wet prairie primarily dominated by Saw Grass (*Cladium jamaicense*), was identified for transect B. Previous control efforts consisted of herbicidal treatment and a physical removal program, followed by a controlled burn. A fire burned throughout this transect in the summer of 2004. During the recent monitoring it was observed that the Saw Grass has recovered from the burn and is steadily growing.

Observations from June 17, 2006 monitoring

The entire transect was observed to be extremely dry due to the recent drought conditions. There was no standing water throughout the transect and the soils exhibited no moisture. No macrofauna or indicators of wildlife were noted.

Most of the Punk Tree vegetative communities were dead, due to enhancement efforts, which called for eradication of exotic and invasive species.

In summary, the percent vegetative coverage, by layer, for this transect identified:

- In the submerged aquatics layer, 2.0 percent Water-Hyssops *(Bacopa carolinaiana)* and 98 percent open/void.
- In the herbaceous species layer, 42 percent alive Saw Grass, 4 percent dead Saw Grass, 10 percent Tracy's Beak Rush (*Rhynchospora tracyi*), 3 percent Arrowhead (*Sagittaria graminea*), 4 percent Southern Swamp Lily (*Crinum americanum),* 4 percent Button Bush *(Cephalanthus occidentaisi)*, Southern Water Hyssop (*Amaranthus australis*), 2 percent Paragrass (*Urochloa mutica*) and 25 percent open/void.
- In the sapling/vine layer, 100 percent open/void.
- In the overstory layer, 100 percent open/void.

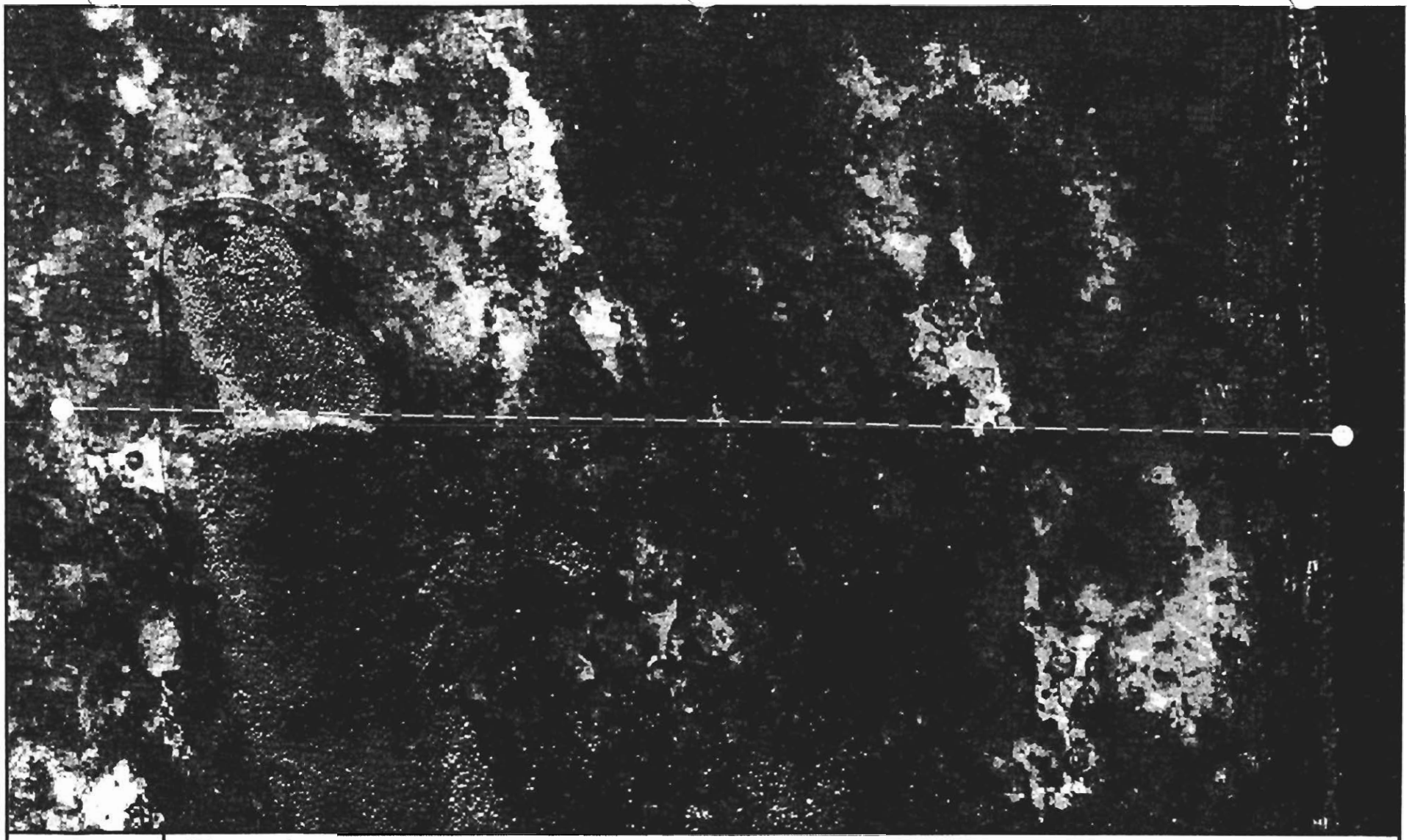


Figure 4. Transect B

End Points of Segment

Data Collection Locations

N

300 0 300 Feet

KCI TECHNOLOGIES

Pennsuco Monitoring Project - Summary Sheet

TRANSECT "B" **Total Length** 5280'

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0.0%	0.0%
Bladderwort	*Utricularia foliosa*	0.0%	0.0%
Water-Hyssops	*Bacoda caroliniana*	0.0%	2.0%
Ludwigia	*Ludwigia repens*	0.0%	0.0%
Manatee Mudflower	*Micranthemum glomeratum*	1.8%	0.0%
Open/Void	*N/A*	98.2%	98.0%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	23.5%	42.2%
Saw Grass (Dead)	*Cladium jamaicense*	4.2%	4.3%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0.3%	0.7%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0.0%	1.0%
Southern Swamp Lily	*Crinum americanum*	3.3%	4.0%
Pickerelweed	*Pontederia lanceolata*	1.2%	0.3%
Yellowtops	*Flaveria linearis*	0.0%	0.0%
Arrowhead	*Sagittaria graminea*	3.7%	3.2%
Duck Potato	*Sagittaria latifolia*	0.3%	0.0%
Paragrass	*Urochloa mutica*	1.7%	1.8%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0.0%	0.2%
Cattail	*Typha latifolia*	0.0%	0.0%
Button Bush	*Cephalanthus occidentalis*	1.5%	3.7%
Maiden-Cane	*Panicum hemitomum*	1.0%	0.0%
Tracy's Beak Rush	*Rhynchospora tracyi*	8.2%	10.0%
Swamp Fern	*Blechnum serrulatum*	0.0%	0.0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0.0%	0.2%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0.0%	3.0%
Swamp Cabbage	*Sabal palmetto*	0.0%	0.0%
Dead Biomass	*N/A*	0.7%	0.0%
Open Water/Mud/Void	*N/A*	50.2%	25.2%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0.0%	0.0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0.0%	0.0%
Elm	*Trema micrantha*	0.0%	0.0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0.0%	0.2%
Open/Void	*N/A*	100.0%	99.8%
	TOTAL	100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0.0%	0.0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	3.8%	0.0%
Golden Fig	*Ficus Aurea*	0.0%	0.0%
Open/Void	*N/A*	96.2%	100.0%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

0+00 Panoramic - Looking East

52+78 Panoramic - Looking West

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-1 **STATION** 0+00

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	30%	55%
Saw Grass (Dead)	*Cladium jamaicense*	20%	25%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flower)	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	0%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	50%	20%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Ipomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

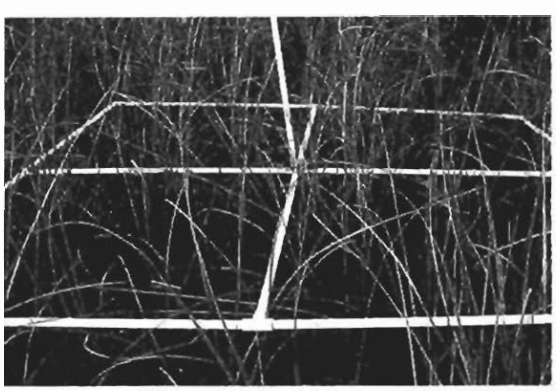
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture: Dry soil

Aquatic Macrofauna:

Wildlife Indicators (tracks, scat, nests): None



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-2 **STATION** 1+82

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	10%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	5%	0%
Open/Void	*N/A*	95%	90%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	55%	70%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	10%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	20%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	0%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	35%	10%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

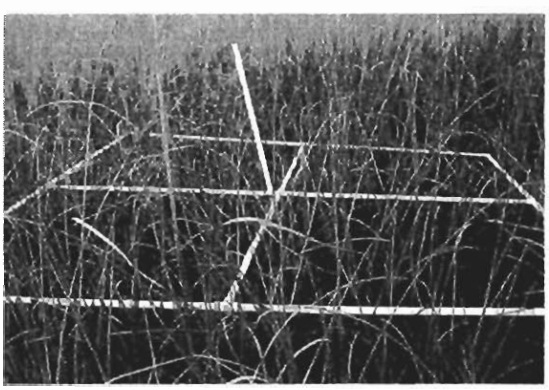
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-3 STATION 3+64

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	30%	55%
Saw Grass (Dead)	*Cladium jamaicense*	10%	10%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	10%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	0%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	60%	25%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

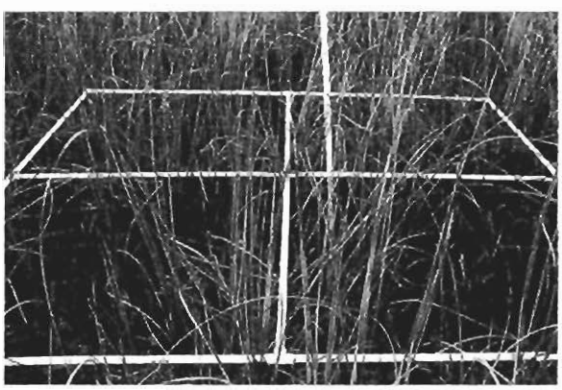
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-4 **STATION** 5+46

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	30%	75%
Saw Grass (Dead)	*Cladium jamaicense*	10%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	10%	10%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	0%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	50%	15%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-5 **STATION** 7+28

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	30%	55%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	10%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	0%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	60%	45%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

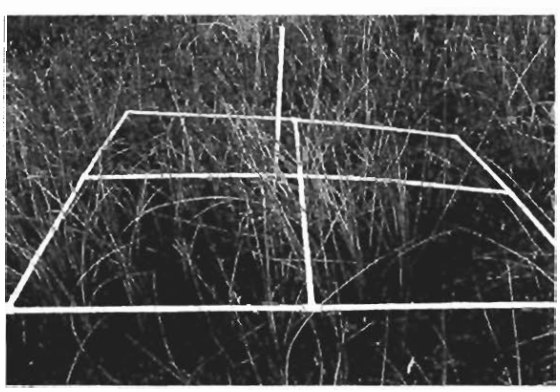
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-6 **STATION** 9+10

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	25%	45%
Saw Grass (Dead)	*Cladium jamaicense*	10%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	5%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	0%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	65%	50%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-7 **STATION** 10+92

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	0%	10%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	10%	15%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	5%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	30%	50%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	0%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	10%	0%
Open Water/Mud/Void	*N/A*	50%	20%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture: Dry Soil

Aquatic Macrofauna:

Wildlife Indicators (tracks, scat, nests): None

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-8 **STATION** 12+74

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	0%	0%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	40%	25%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	10%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	30%	60%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	0%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	20%	15%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	15%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	85%	100%
	TOTAL	100%	100%

NOTES: No picture was taken due to it raining

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-9 **STATION** 14+56

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	0%	0%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	10%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	15%	10%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	25%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	0%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	85%	55%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	75%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	25%	100%
	TOTAL	100%	100%

NOTES: No picture was taken due to it raining

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-10 **STATION** 16+38

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	0%	0%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	20%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	40%	10%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	25%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	0%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	10%	0%
Open Water/Mud/Void	*N/A*	50%	45%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	25%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	75%	100%
	TOTAL	100%	100%

NOTES: No picture was taken due to it raining

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-11 **STATION** 18+20

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	40%	60%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	15%	10%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	15%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	10%	15%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	0%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	35%	0%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Ipomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

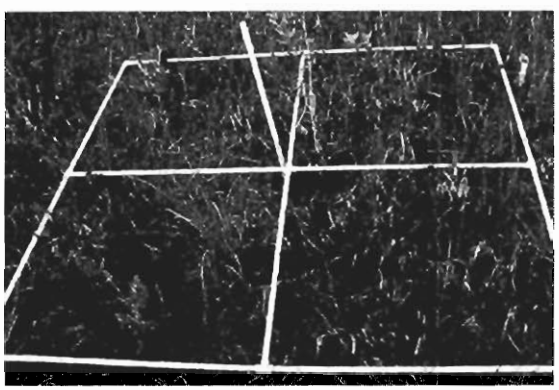
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-12 **STATION** 20+02

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	10%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	10%	0%
Open/Void	*N/A*	90%	90%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	20%	65%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Duck Potato	*Sagittaria latifolia*	10%	0%
Paragrass	*Urochloa mutica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	15%	10%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	0%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	55%	25%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-13 **STATION** 21+84

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	10%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	90%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	25%	55%
Saw Grass (Dead)	*Cladium jamaicense*	0%	10%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	5%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	10%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	75%	20%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	5%
Open/Void	*N/A*	100%	95%
	TOTAL	100%	100%

OVERSTORY

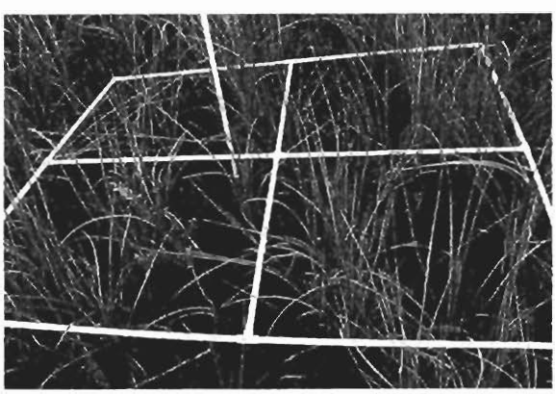
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-14 **STATION** 23+66

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	20%	25%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	5%	15%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	10%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	20%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	0%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	65%	40%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

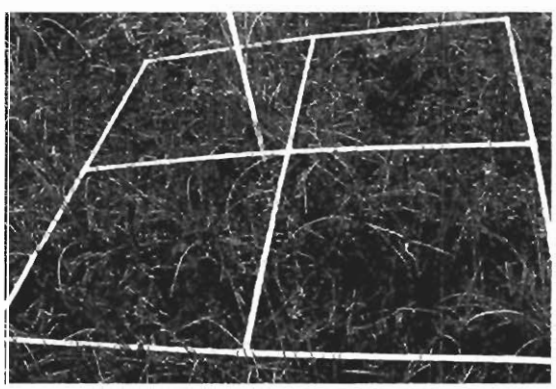
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture: Dry Soil

Aquatic Macrofauna:

Wildlife Indicators (tracks, scat, nests): None



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-15 **STATION** 25+48

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	30%	55%
Saw Grass (Dead)	*Cladium jamaicense*	0%	10%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	5%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	0%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	70%	30%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

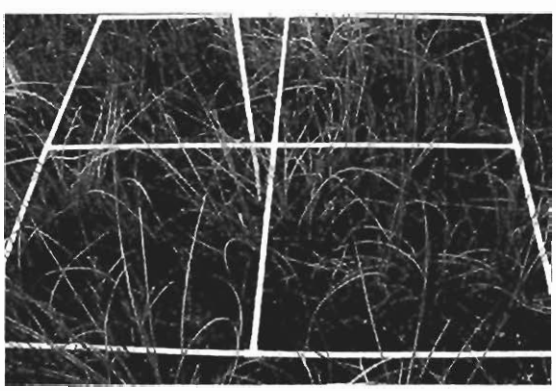
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-16 **STATION** 27+30

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	20%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	30%	0%
Open/Void	*N/A*	70%	80%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	20%	25%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	10%	10%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	15%	10%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	20%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	15%
Open Water/Mud/Void	*N/A*	45%	20%
	TOTAL	90%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

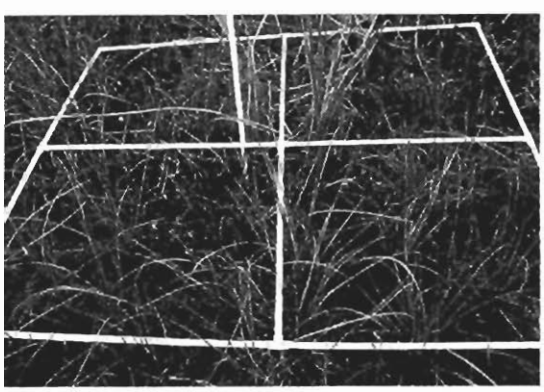
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests) Grasshopper was observed in plot



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-17 **STATION** 29+12

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	15%	40%
Saw Grass (Dead)	*Cladium jamaicense*	5%	5%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	0%	5%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	25%	35%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	0%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	55%	15%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

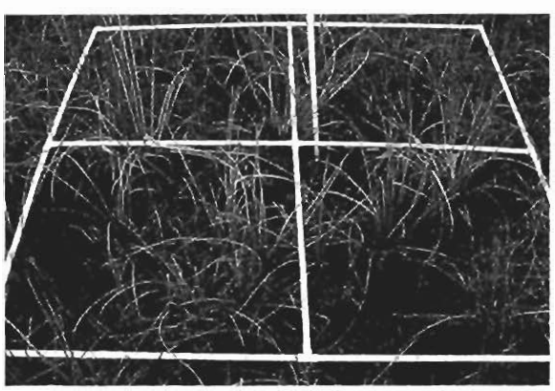
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-18 **STATION** 30+94

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	40%	50%
Saw Grass (Dead)	*Cladium jamaicense*	0%	10%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	0%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	60%	40%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

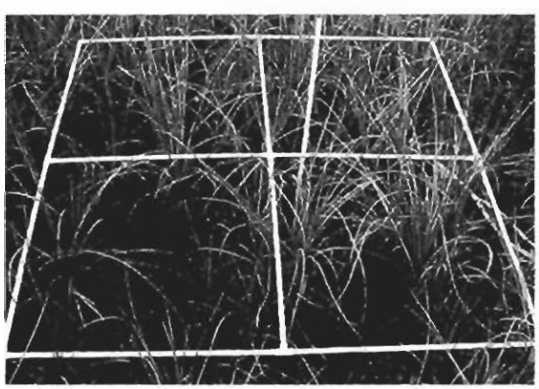
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-19 STATION 32+76

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	10%	0%
Open/Void	*N/A*	90%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	35%	60%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	5%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	20%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	0%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	5%
Open Water/Mud/Void	*N/A*	65%	10%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-20 STATION 34+58

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	40%	45%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	10%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	15%	30%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	25%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	10%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	5%
Open Water/Mud/Void	*N/A*	10%	10%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

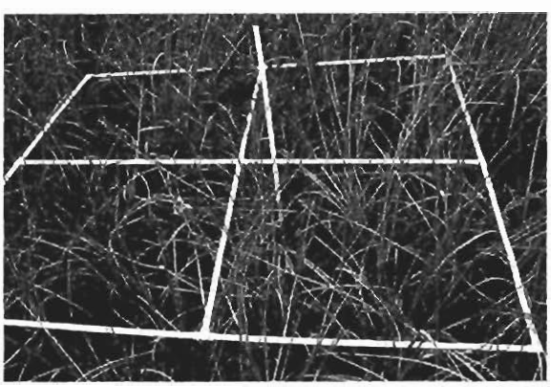
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-21 **STATION** 36+40

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	35%	55%
Saw Grass (Dead)	*Cladium jamaicense*	30%	30%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	5%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	0%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	30%	15%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

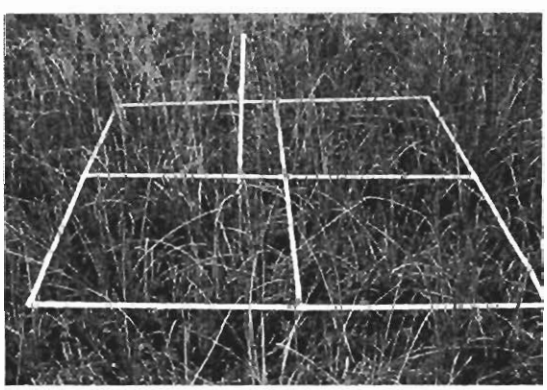
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture: Dry Soil

Aquatic Macrofauna:

Wildlife Indicators (tracks, scat, nests): None



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-22 **STATION** 38+22

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	5%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	95%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	40%	80%
Saw Grass (Dead)	*Cladium jamaicense*	10%	5%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	5%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	50%	10%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-23 **STATION** 40+04

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	5%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	95%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	30%	35%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	10%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	10%
Open Water/Mud/Void	*N/A*	70%	45%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	0%
	TOTAL	100%	100%

OVERSTORY

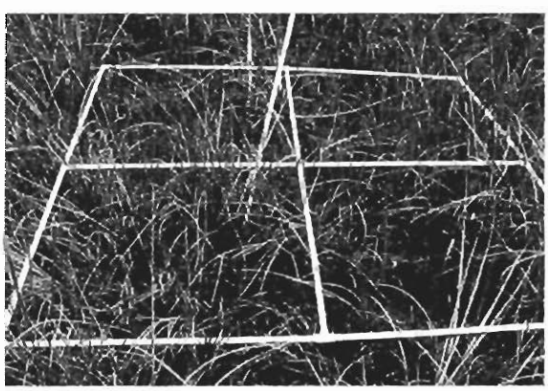
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-24 **STATION** 41+86

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	0%	0%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	0%	15%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	100%	80%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	0%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	5%
Open Water/Mud/Void	*N/A*	0%	0%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

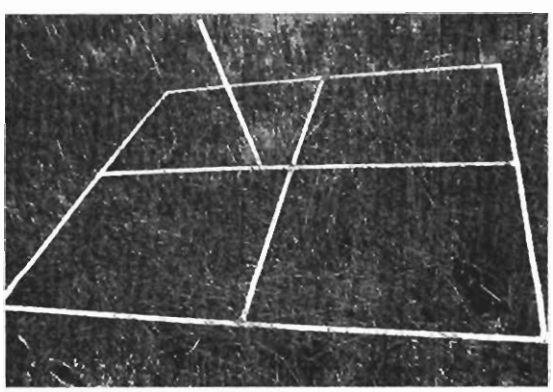
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-25 **STATION** 43+68

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	25%	35%
Saw Grass (Dead)	*Cladium jamaicense*	0%	10%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	10%	10%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	5%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	0%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	60%	45%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

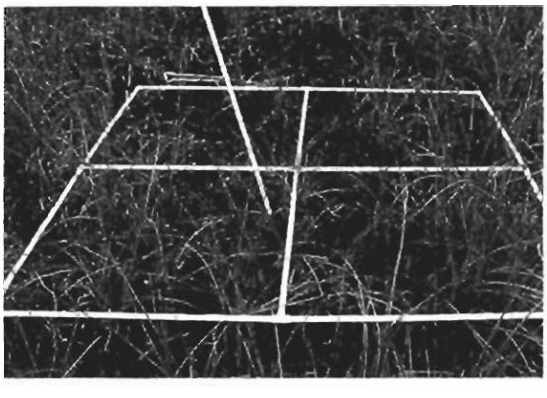
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-26 **STATION** 45+50

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	25%	65%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	15%	20%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	5%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	10%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	0%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	50%	10%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

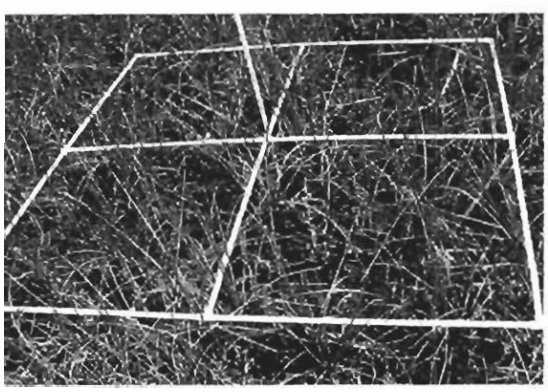
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-27 STATION 47+32

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	25%	65%
Saw Grass (Dead)	*Cladium jamaicense*	30%	15%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	5%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	0%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	40%	20%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

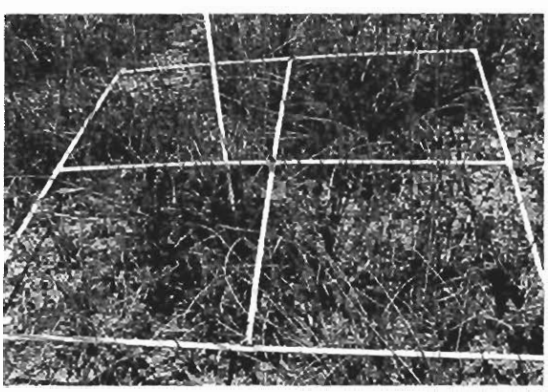
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-28 **STATION** 49+14

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	10%	35%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	30%	20%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	5%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	60%	40%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

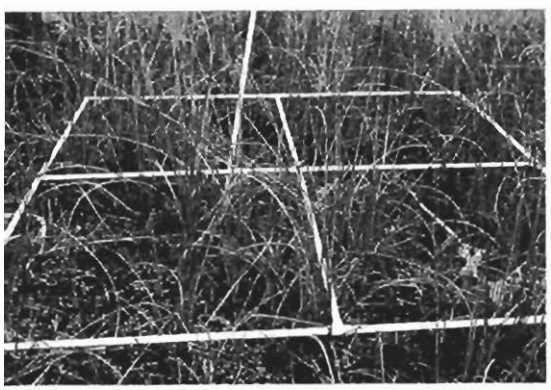
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture: Dry Soil

Aquatic Macrofauna:

Wildlife Indicators (tracks, scat, nests): None



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-29 **STATION** 50+96

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	20%	25%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	15%	10%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	0%	15%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	0%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	65%	50%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

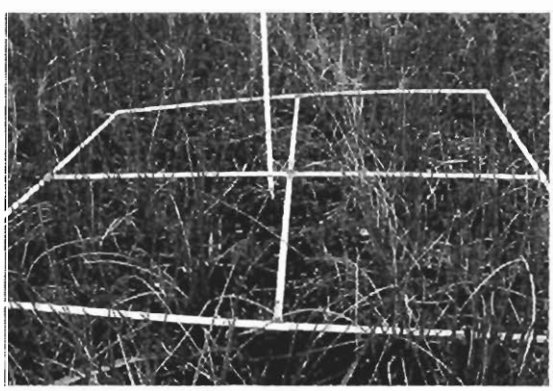
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT B-30 **STATION** 52+78

SUBMERGED AQUATICS **12/3/2005**

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Water-Hyssops	*Bacoda caroliniana*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudflower	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	10%	25%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	10%	35%
Pickerelweed	*Pontederia lanceolata*	20%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	10%
Duck Potato	*Sagittaria latifolia*	0%	0%
Paragrass	*Urochloa mutica*	0%	20%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	30%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	10%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Southern Water Hyssop (Red stem)	*Amaranthus australis*	0%	0%
Swamp Cabbage	*Sabal palmetto*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	20%	10%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Horned bladderwort (Rush/yellow flower)	*Utricularia cornuta*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

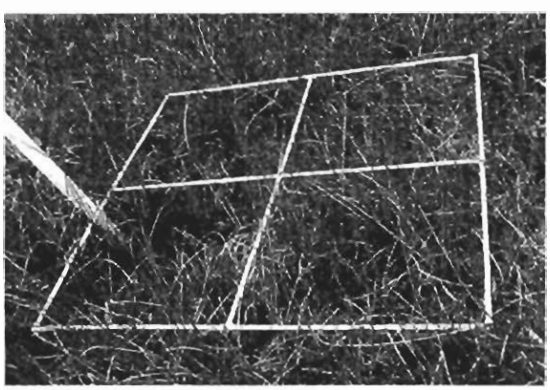
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



TRANSECT C

Narrative

Transect C is located in Section 18, Township 53, Range 39 (Cell 26 – Pennsuco Exotic Treatment Area). It starts on the levee at Krome Avenue with point C1 (GPS Coordinates Latitude 25° 53' 12.76", Longitude 80° 29' 03.33") and continues east one mile to point C30 (GPS coordinates Latitude 25° 53' 12.69", Longitude 80° 28' 04.91"), which is west of the Dade-Broward Levee (Figure 5). Two community types were identified for transect C. Point C1 represents an upland levee community dominated by Swamp Fern (*Blechnum serrulatum*) and Shield Fern (*Thelypteris kunthii*) in the herbaceous layer. Points C2 through C30 represent a wet prairie community type dominated by Saw Grass (*Cladium jamaicense*). A fire burned throughout this transect in the summer of 2004. During the recent monitoring it was observed that the Saw Grass is recovering from the burn and gradually growing back.

Observations from June 17, 2006 monitoring

The vegetative community consisted primarily of Saw Grass, with 41% coverage. The majority of the transect resulted in 27% open-void.

The entire transect was observed to be extremely dry due to the recent drought conditions. There was no standing water throughout the transect and the soils exhibited no moisture. No macrofauna or indicators of wildlife were noted.

In summary, the percent vegetative coverage by layer, for this transect identified:

- In the submerged aquatics layer, 2 percent Manatee Mudgrass (*Micranthemum glomeratum*), 2 percent Ludwigia (*Ludwigia repens*) and 97 percent open/void.
- In the herbaceous species layer, 41 percent alive Saw Grass (*Cladium jamaicense*), 10 percent dead Saw Grass (*Cladium jamaicense*), 3 percent Maiden-cane (*Panicum hemitomum*), 1 percent Southern Swamp Lily (*Crinum americanum)*, 1 percent Shield Fern (*Thelypteris kunthii*), 2 percent Swamp Fern (*Blechrum serrulatum*), 2 percent Chinese Ladder Brake Fern (*Pteris vittata*), 2 percent Horned bladderwort (*Utricularia cornuta*), 8 percent Tracy's Beak Rush (*Rhynchospora tracyi*), 1 percent dead Punk Tree (*Melaleuca quinquenervia*), 2 percent dead biomass, and 27 percent open/void.
- In the sapling/vine layer, 100 percent open/void.
- In the overstory layer, 100 percent open/void.

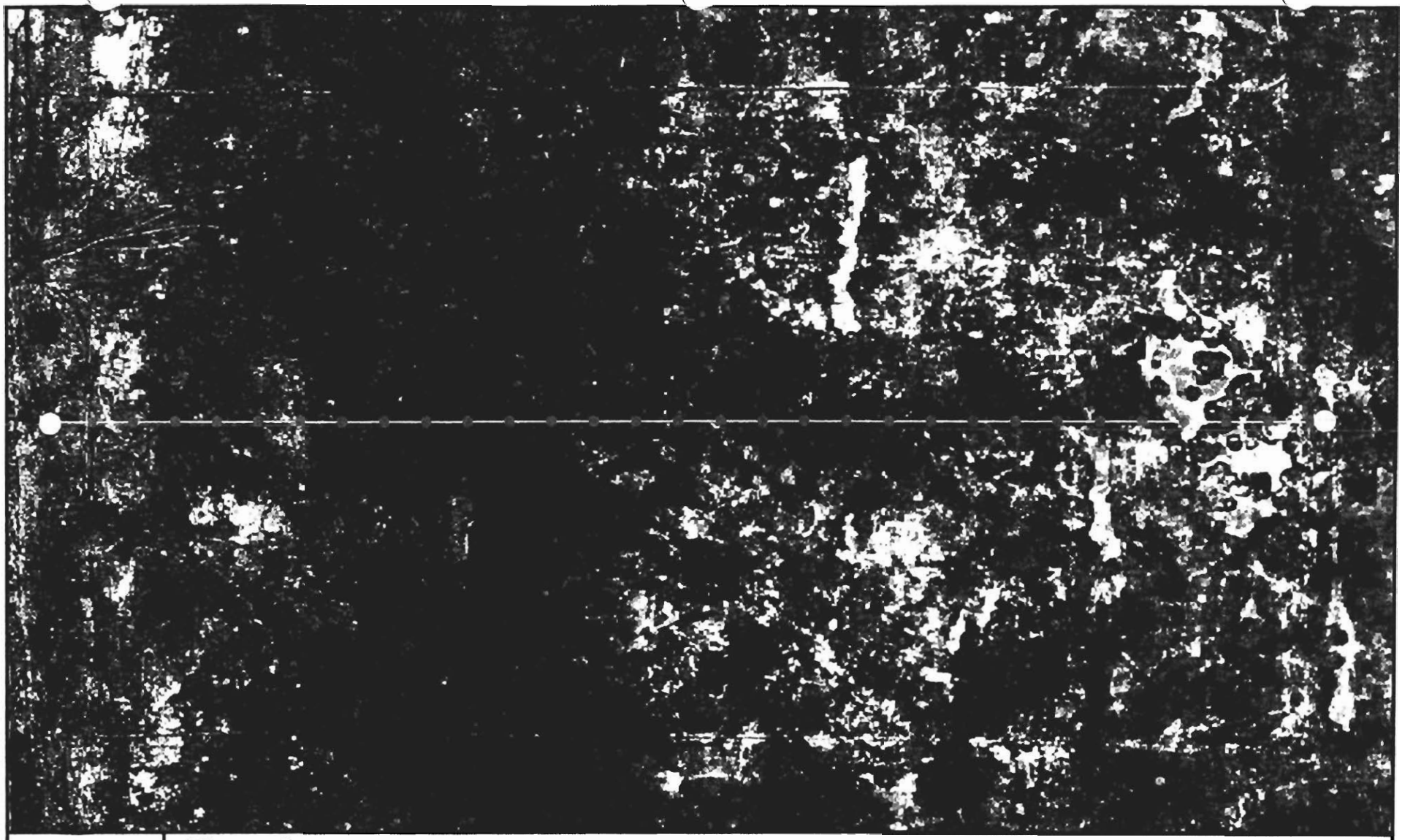


Figure 5. Transect C

End Points of Segment

Data Collection Locations

N

300 0 300 Feet

KCI TECHNOLOGIES

Pennsuco Monitoring Project - Summary Sheet

TRANSECT "C" Total Length 5280'

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0.0%	0.0%
Bladderwort	*Utricularia foliosa*	0.0%	0.0%
Bladderwort	*Utricularia purpurea*	0.0%	0.0%
Ludwigia	*Ludwigia repens*	0.0%	1.8%
Manatee Mudgrass	*Micranthemum glomeratum*	7.0%	1.5%
Open/Void	*N/A*	93.0%	96.7%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	32.0%	40.2%
Saw Grass (Dead)	*Cladium jamaicense*	9.2%	10.0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0.0%	0.0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0.0%	0.7%
Southern Swamp Lily	*Crinum americanum*	3.0%	1.2%
Pickerelweed	*Pontederia lanceolata*	0.2%	0.2%
Yellowtops	*Flaveria linearis*	0.0%	0.0%
Arrowhead	*Sagittaria graminea*	0.2%	0.8%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	1.2%	0.0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0.0%	0.0%
Cattail (Alive)	*Typha latifolia*	0.0%	0.0%
Cattail (Dead)	*Typha latifolia*	0.0%	0.0%
Button Bush	*Cephalanthus occidentalis*	0.0%	0.0%
Maiden-Cane	*Panicum hemitomum*	0.0%	3.3%
Shield Fern	*Thelypteris kunthii*	0.8%	1.2%
Swamp Fern	*Blechnum serrulatum*	1.0%	1.7%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0.0%	1.7%
Horned bladderwort (Rush/yellow flower)	*Utricularia cornuta*	0.0%	1.7%
Tracy's Beak Rush	*Rhynchospora tracyi*	1.0%	8.2%
Giant Leather Fern	*Acrostichum danaeifolium*	0.0%	0.3%
Unknown C3	*N/A*	0.0%	0.3%
Dead Biomass	*N/A*	1.8%	1.8%
Open Water/Mud/Void	*N/A*	49.3%	27.0%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0.0%	0.0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0.0%	0.0%
Elm	*Trema micrantha*	0.0%	0.0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0.0%	0.5%
Open/Void	*N/A*	100.0%	99.5%
	TOTAL	100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0.0%	0.0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0.7%	0.0%
Golden Fig	*Ficus Aurea*	0.0%	0.0%
Elm	*Trema micrantha*	0.0%	0.0%
Open/Void	*N/A*	99.3%	100.0%
	TOTAL	100%	100%

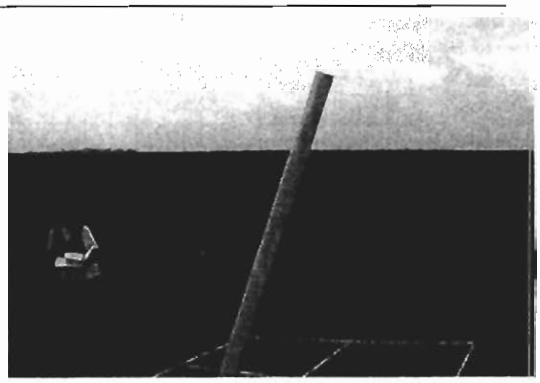
NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

0+00 Panoramic - Looking east



52+78 Panoramic - Looking West

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-1 **STATION** 0+00

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudgrass	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	0%	0%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	15%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	25%	20%
Swamp Fern	*Blechnum serrulatum*	30%	50%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	5%
Horned bladderwort (Rush/yellow flower)	*Utricularia cornuta*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	10%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	25%	0%
Open Water/Mud/Void	*N/A*	20%	0%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	20%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	80%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture: Dry soil

Aquatic Macrofauna:

Wildlife Indicators (tracks, scat, nests): None

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-2 **STATION** 1+82

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudgrass	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	80%	65%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	20%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	35%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	0%	0%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

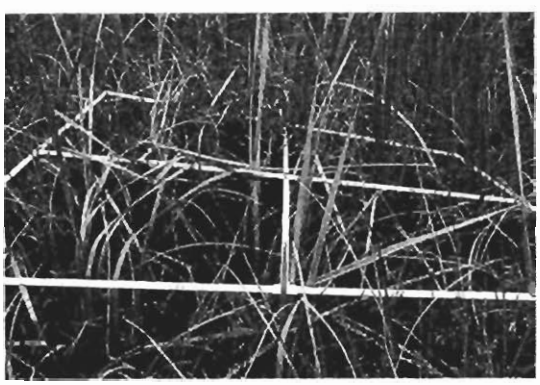
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-3 **STATION** 3+64

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudgrass	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	60%	85%
Saw Grass (Dead)	*Cladium jamaicense*	20%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	10%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	15%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	10%	0%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

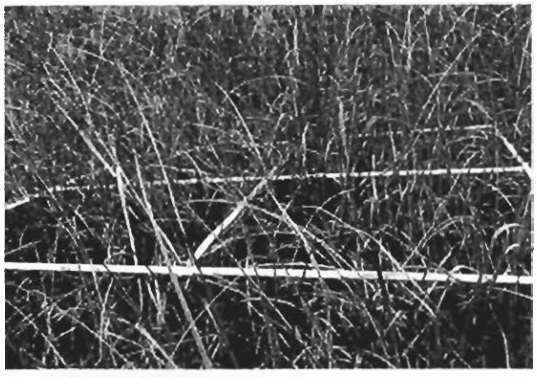
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-4 **STATION** 5+46

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudgrass	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	45%	65%
Saw Grass (Dead)	*Cladium jamaicense*	10%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	20%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	5%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	15%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	5%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	25%	10%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

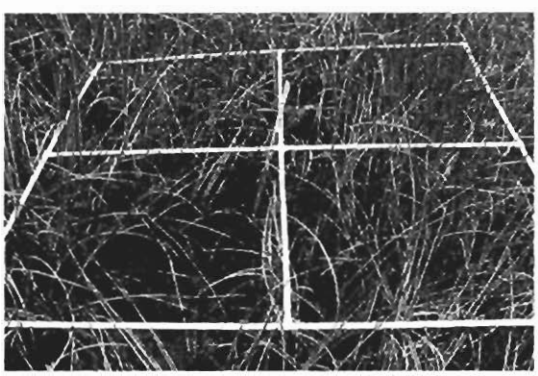
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-5 **STATION** 7+28

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudgrass	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	25%	45%
Saw Grass (Dead)	*Cladium jamaicense*	10%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	5%	5%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	5%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	30%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	0%	15%
Open Water/Mud/Void	*N/A*	60%	0%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-6 **STATION** 9+10

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudgrass	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	60%	55%
Saw Grass (Dead)	*Cladium jamaicense*	15%	25%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	5%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	15%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	25%	0%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

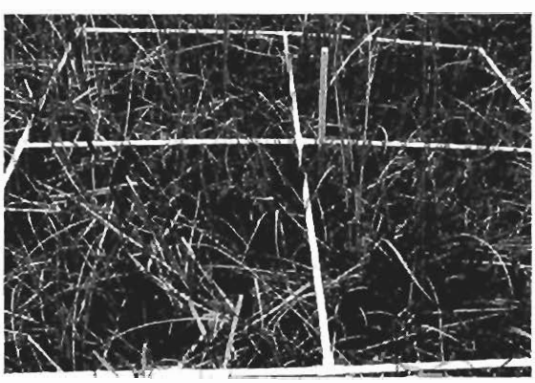
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-7 **STATION** 10+92

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudgrass	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	55%	75%
Saw Grass (Dead)	*Cladium jamaicense*	20%	20%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	5%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	25%	0%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

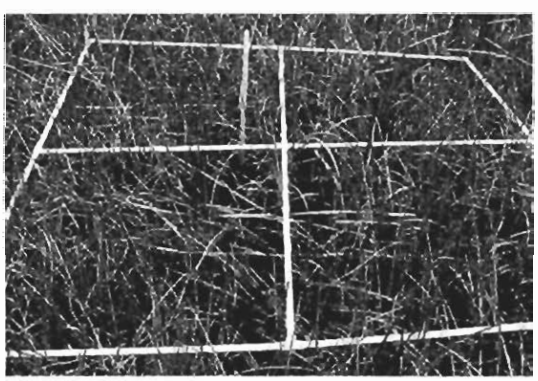
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture: Dry Soil

Aquatic Macrofauna:

Wildlife Indicators (tracks, scat, nests): Green frog observed in PVC pipe



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-8 **STATION** 12+74

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudgrass	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	50%	70%
Saw Grass (Dead)	*Cladium jamaicense*	25%	25%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	5%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	25%	0%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	5%
Open/Void	*N/A*	100%	95%
	TOTAL	100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-9 **STATION** 14+56

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	5%
Manatee Mudgrass	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	95%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	25%	40%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	5%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	5%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	30%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	70%	25%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

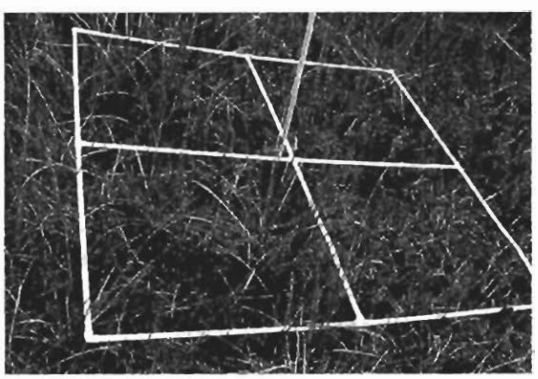
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-10 **STATION** 16+38

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	5%
Manatee Mudgrass	*Micranthemum glomeratum*	5%	0%
Open/Void	*N/A*	95%	95%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	40%	60%
Saw Grass (Dead)	*Cladium jamaicense*	20%	15%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	20%
Southern Swamp Lily	*Crinum americanum*	10%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	30%	5%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

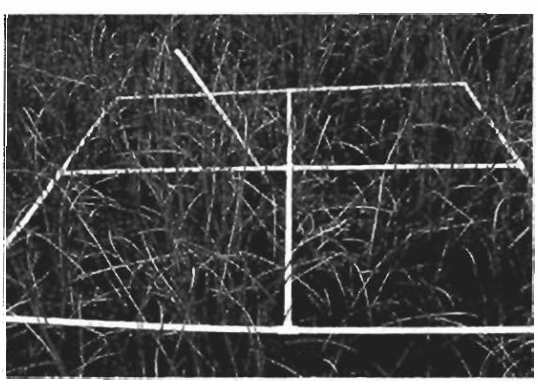
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-11 **STATION** 18+20

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudgrass	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	30%	50%
Saw Grass (Dead)	*Cladium jamaicense*	5%	15%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	5%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	20%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	60%	15%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

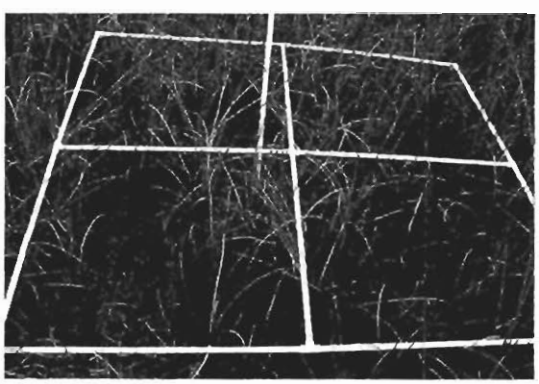
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-12 **STATION** 20+02

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudgrass	*Micranthemum glomeratum*	45%	45%
Open/Void	*N/A*	55%	55%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	35%	65%
Saw Grass (Dead)	*Cladium jamaicense*	10%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	5%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	55%	30%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

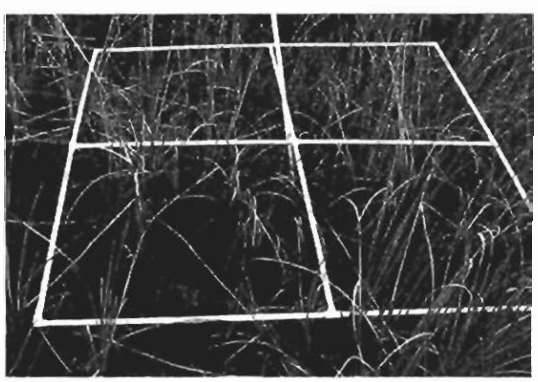
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests) Green frog observed in plot



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-13 **STATION** 21+84

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	15%
Manatee Mudgrass	*Micranthemum glomeratum*	45%	0%
Open/Void	*N/A*	55%	85%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	20%	35%
Saw Grass (Dead)	*Cladium jamaicense*	0%	10%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	5%
Tracy's Beak Rush	*Rhynchospora tracyi*	10%	30%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	70%	20%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

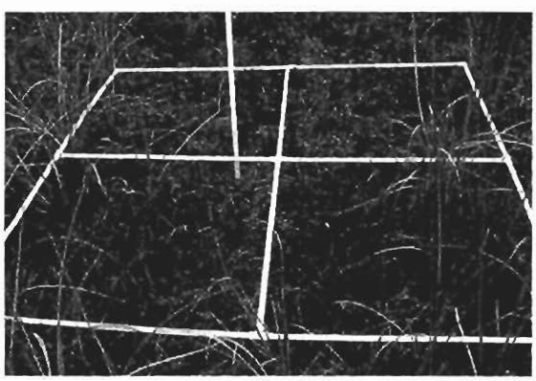
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-14 **STATION** 23+66

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudgrass	*Micranthemum glomeratum*	35%	0%
Open/Void	*N/A*	65%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	30%	45%
Saw Grass (Dead)	*Cladium jamaicense*	5%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	10%	20%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	0%	15%
Open Water/Mud/Void	*N/A*	55%	20%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

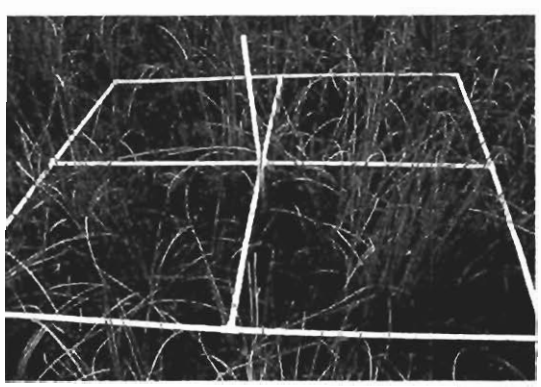
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture: Dry Soil

Aquatic Macrofauna:

Wildlife Indicators (tracks, scat, nests): None



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-15 **STATION** 25+48

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudgrass	*Micranthemum glomeratum*	25%	0%
Open/Void	*N/A*	75%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	40%	60%
Saw Grass (Dead)	*Cladium jamaicense*	0%	15%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	60%	25%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

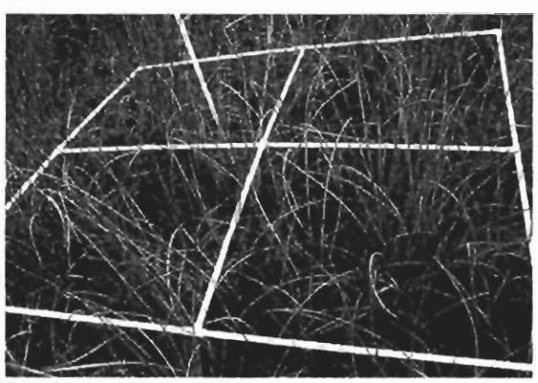
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-16 **STATION** 27+30

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudgrass	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	25%	35%
Saw Grass (Dead)	*Cladium jamaicense*	5%	15%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	70%	50%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

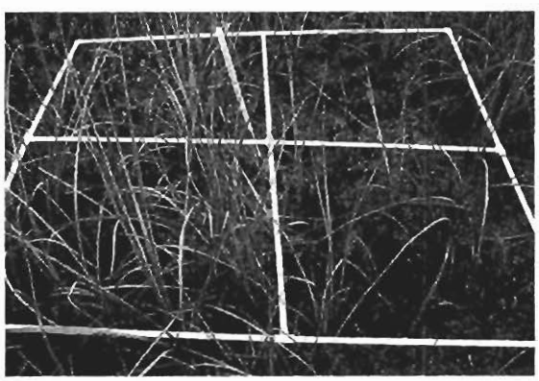
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-17 **STATION** 29+12

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	5%
Manatee Mudgrass	*Micranthemum glomeratum*	20%	0%
Open/Void	*N/A*	80%	95%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	15%	20%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	10%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	5%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	85%	65%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

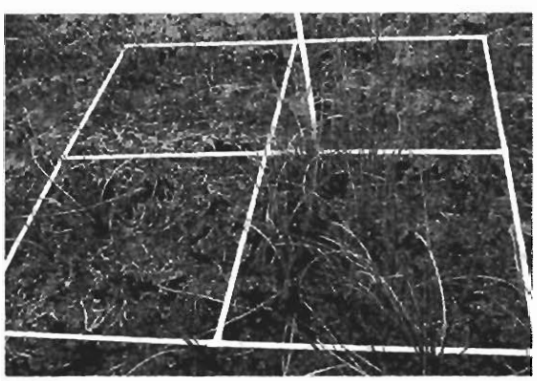
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-18 **STATION** 30+94

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudgrass	*Micranthemum glomeratum*	35%	0%
Open/Void	*N/A*	65%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	25%	20%
Saw Grass (Dead)	*Cladium jamaicense*	0%	5%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	5%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	75%	70%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

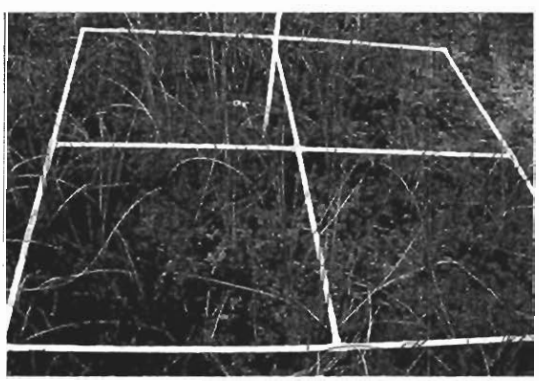
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-19 **STATION** 32+76

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudgrass	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	15%	20%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	10%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Duck Potato	*Sagittaria latifolia*	10%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	5%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	30%	0%
Open Water/Mud/Void	*N/A*	45%	65%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-20 **STATION** 34+58

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudgrass	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	20%	25%
Saw Grass (Dead)	*Cladium jamaicense*	25%	20%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	5%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	5%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	50%	50%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

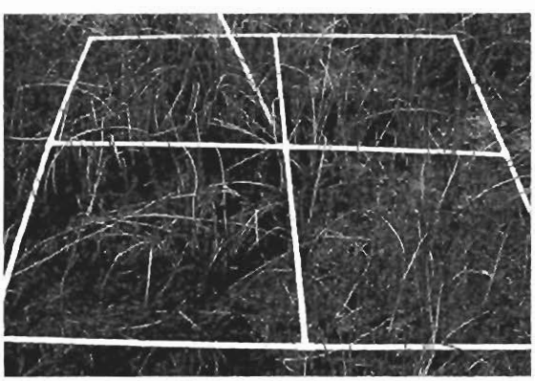
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-21 **STATION** 36+40

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	10%
Manatee Mudgrass	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	90%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	30%	30%
Saw Grass (Dead)	*Cladium jamaicense*	0%	0%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	5%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	10%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	20%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	55%	50%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

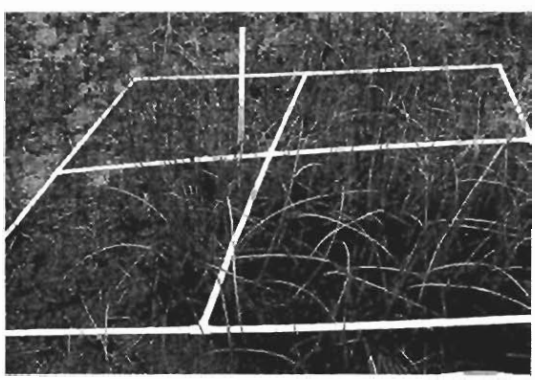
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture: Dry Soil

Aquatic Macrofauna:

Wildlife Indicators (tracks, scat, nests): None



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-22 **STATION** 38+22

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudgrass	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	40%	30%
Saw Grass (Dead)	*Cladium jamaicense*	20%	20%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	5%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	15%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	35%	35%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

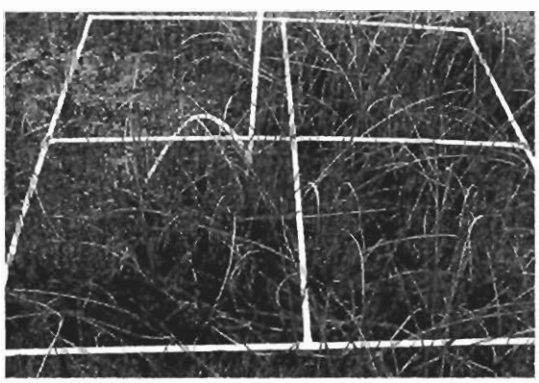
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: 1/2 foot below ground surface is saturated, dry on ground

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-23 **STATION** 40+04

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudgrass	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	15%	15%
Saw Grass (Dead)	*Cladium jamaicense*	10%	10%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	10%	20%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	65%	55%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

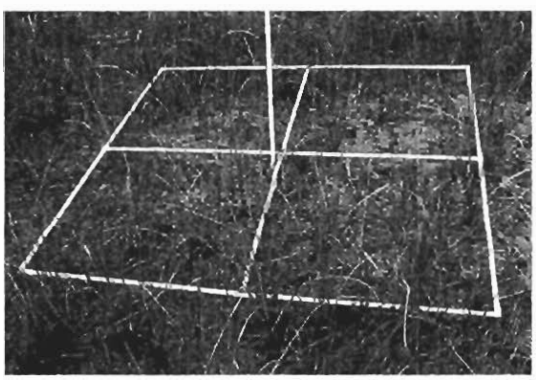
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests) Butterfly observed in plot



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-24 **STATION** 41+86

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudgrass	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	15%	20%
Saw Grass (Dead)	*Cladium jamaicense*	0%	5%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	5%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	5%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	80%	70%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

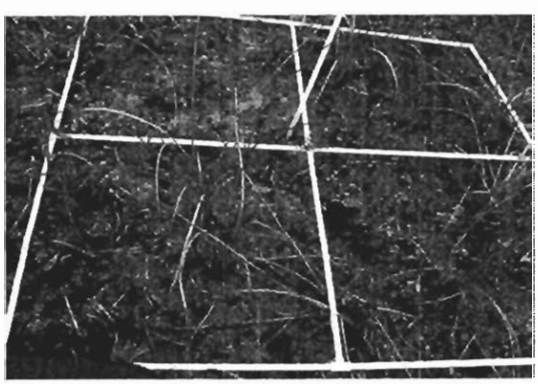
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-26 **STATION** 45+50

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudgrass	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	30%	30%
Saw Grass (Dead)	*Cladium jamaicense*	5%	10%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	5%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	10%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	0%	15%
Open Water/Mud/Void	*N/A*	65%	30%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

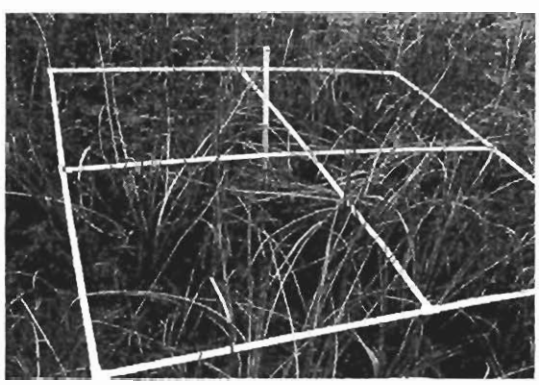
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-25 STATION 43+68

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudgrass	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	35%	25%
Saw Grass (Dead)	*Cladium jamaicense*	0%	15%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	5%	5%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	5%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	0%	10%
Open Water/Mud/Void	*N/A*	60%	40%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

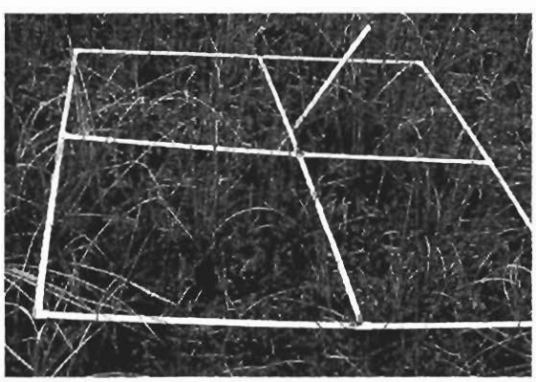
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-27 STATION 47+32

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudgrass	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	20%	25%
Saw Grass (Dead)	*Cladium jamaicense*	0%	5%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	5%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	80%	65%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	5%
Open/Void	*N/A*	100%	95%
	TOTAL	100%	100%

OVERSTORY

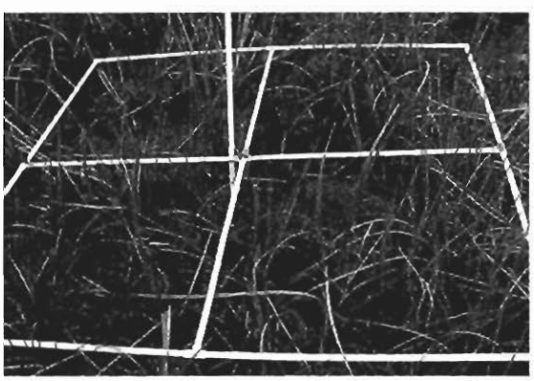
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-28 **STATION** 49+14

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	5%
Manatee Mudgrass	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	95%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	15%	15%
Saw Grass (Dead)	*Cladium jamaicense*	0%	10%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	10%	0%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	10%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	70%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	65%	5%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

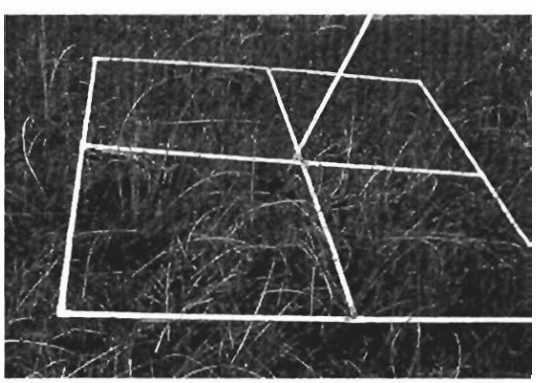
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture: Dry Soil

Aquatic Macrofauna:

Wildlife Indicators (tracks, scat, nests): None



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-29 **STATION** 50+96

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	10%
Manatee Mudgrass	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	90%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	25%	35%
Saw Grass (Dead)	*Cladium jamaicense*	55%	45%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	5%	5%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	5%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	0%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	0%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	15%	10%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

OVERSTORY

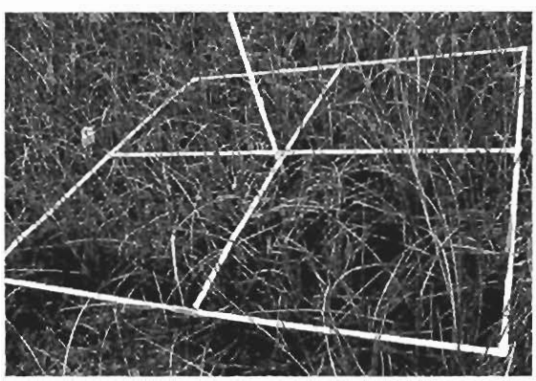
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-30 **STATION** 52+78

SUBMERGED AQUATICS

Common Name	Scientific Name	12/3/2005 % Coverage	6/17/2006 % Coverage
Mermaid Weed	*Proserpinaca palustris*	0%	0%
Bladderwort	*Utricularia foliosa*	0%	0%
Bladderwort	*Utricularia purpurea*	0%	0%
Ludwigia	*Ludwigia repens*	0%	0%
Manatee Mudgrass	*Micranthemum glomeratum*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	*Cladium jamaicense*	40%	45%
Saw Grass (Dead)	*Cladium jamaicense*	15%	15%
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Southern Swamp Lily	*Crinum americanum*	0%	15%
Pickerelweed	*Pontederia lanceolata*	0%	0%
Yellowtops	*Flaveria linearis*	0%	0%
Arrowhead	*Sagittaria graminea*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	0%
Capillary Hairsedge	*Bulbostylis ciliataefolia*	0%	0%
Cattail (Alive)	*Typha latifolia*	0%	0%
Cattail (Dead)	*Typha latifolia*	0%	0%
Button Bush	*Cephalanthus occidentalis*	0%	0%
Maiden-Cane	*Panicum hemitomum*	0%	0%
Shield Fern	*Thelypteris kunthii*	0%	0%
Swamp Fern	*Blechnum serrulatum*	0%	0%
Chinese Ladder Brake (Fern)	*Pteris vittata*	0%	0%
Horned bladderwort (Rush/yellow flowe	*Utricularia cornuta*	0%	0%
Tracy's Beak Rush	*Rhynchospora tracyi*	0%	20%
Giant Leather Fern	*Acrostichum danaeifolium*	0%	0%
Unknown C3	*N/A*	0%	5%
Dead Biomass	*N/A*	0%	0%
Open Water/Mud/Void	*N/A*	45%	0%
	TOTAL	100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Elm	*Trema micrantha*	0%	0%
Saltmarsh morning glory (vine)	*Lpomoea sagitlata*	0%	5%
Open/Void	*N/A*	100%	95%
	TOTAL	100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	*Melaleuca quinquenervia*	0%	0%
Punk Tree (Dead)	*Melaleuca quinquenervia*	0%	0%
Golden Fig	*Ficus Aurea*	0%	0%
Elm	*Trema micrantha*	0%	0%
Open/Void	*N/A*	100%	100%
	TOTAL	100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____

TRANSECT DR

Narrative

Transect DR is a relocated transect due to the previous D transect being a treated area. Transect DR is located in Section 31, Township 53, Range 39 east (Cell 26 - Pennsuco Exotic Treatment Area). It starts at point DR1 approximately one mile east of Krome Avenue (GPS Coordinates Latitude 25° 47' 20.64", Longitude 80° 28' 46.31") and continues southwest to point DR30 (GPS coordinates Latitude 25° 47' 45.57", Longitude 80° 28' 09.88"), (Figure 6). One community type, wet prairie, primarily dominated by Saw Grass (*Cladium jamaicense*) in the herbaceous layer and Punk Tree *(Melaleuca quinquenervia)* in the sapling/vine layer was identified for transect DR.

SFWMD requested that the existing D transect location be relocated to an untreated area during the November 2003 monitoring period. The transect was established at approximately equally spaced intervals of 150 feet along the transect. The transect was shortened due to dense upland area which was not easily accessible.

Observations from June 17, 2006 monitoring

Transect DR could not be monitored due to conditions at the site. Overall the site was fairly dry and was not easily accessible by airboat or ATV's.

Figure 6. Transect D

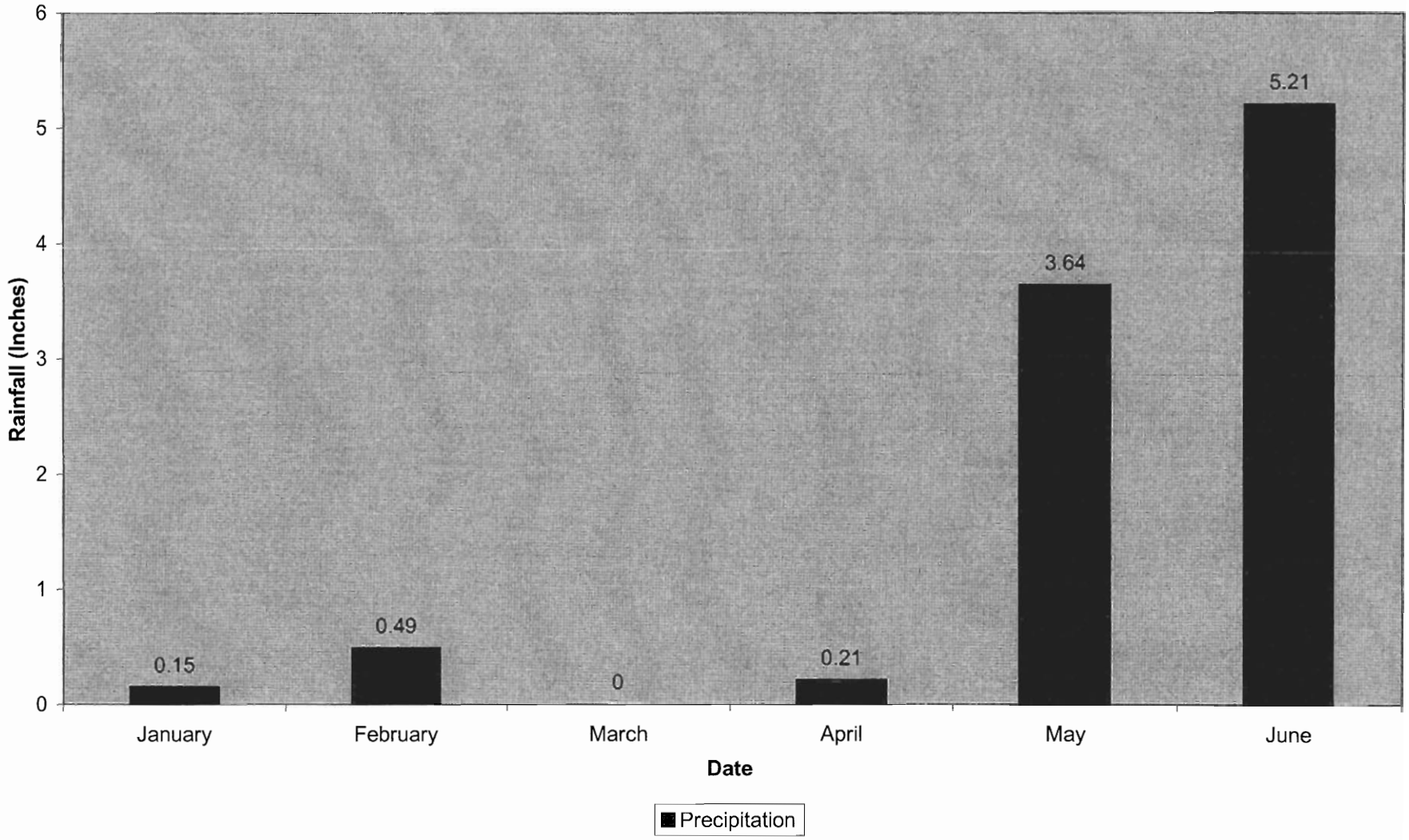
End Points of Segment

Data Collection Locations

N

300 0 300 Feet

KCI TECHNOLOGIES

RAINFALL DATA 2006

Monthly Precipitation (January-June 2006)
OASIS RANGER STN, FL