

**USGS/USFWS Savannah Marsh Succession Model CART 2002 Predicted Ecological Community
44 Foot Deepening**

Values Based on EFDC and M2M Output using Historic Low Flow, Average Temperature, and Average Tidal Conditions
1 March through 1 October 2001 (2001 best represents low historic conditions from the available data set)
Existing Sea Level Conditions

March 2007

Legend

M2M011Mar1OctEFDC3

CART_2002

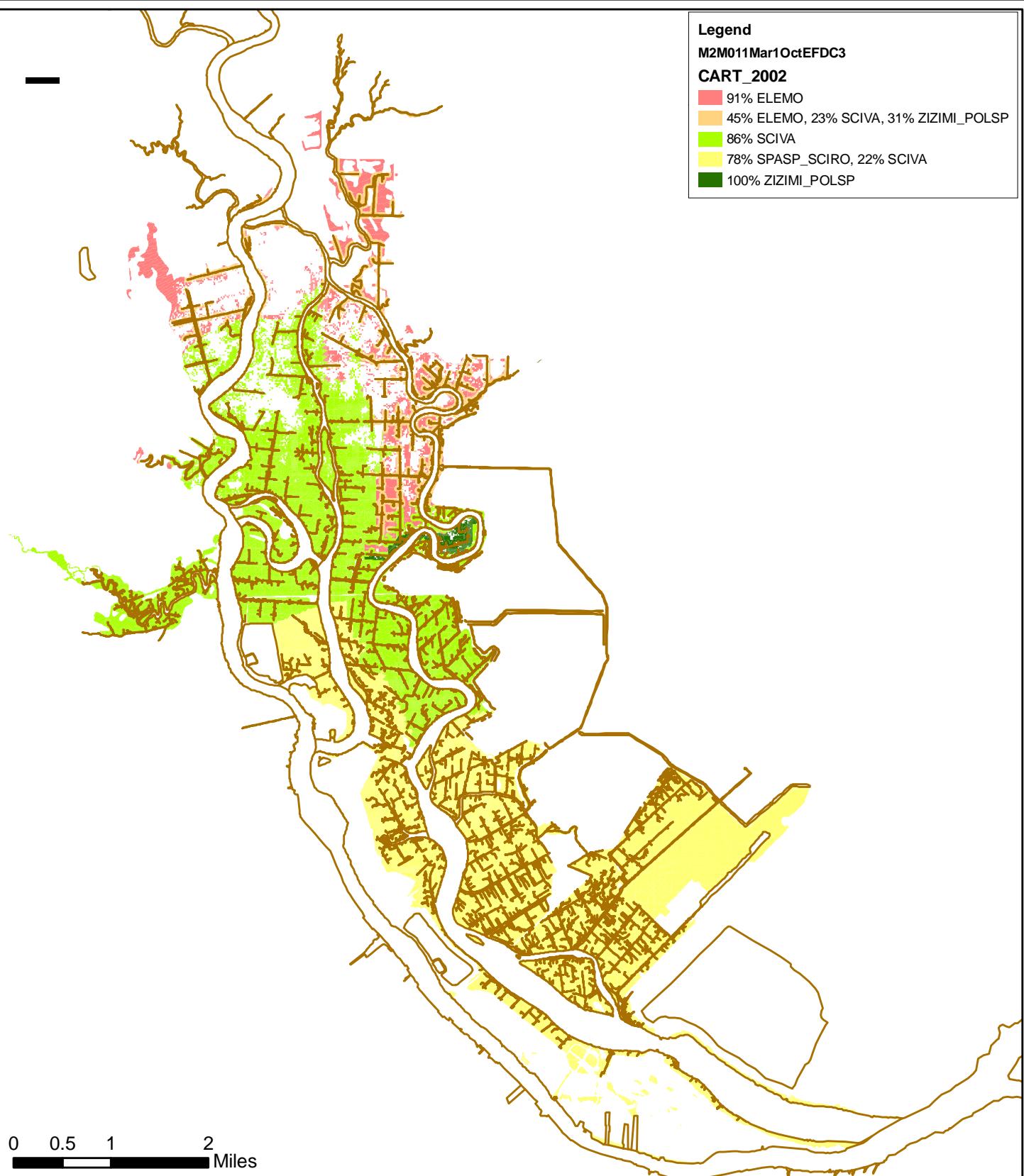
91% ELEMO

45% ELEMO, 23% SCIVA, 31% ZIZIMI_POLSP

86% SCIVA

78% SPASP_SCIRO, 22% SCIVA

100% ZIZIMI_POLSP

**Savannah Harbor Expansion Project - Wetland/Marsh Impact Evaluation**

**USGS/USFWS Savannah Marsh Succession Model CART 2002 Predicted Ecological Community
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Legend

M2M011Mar1OctEFDC4

CART_2002

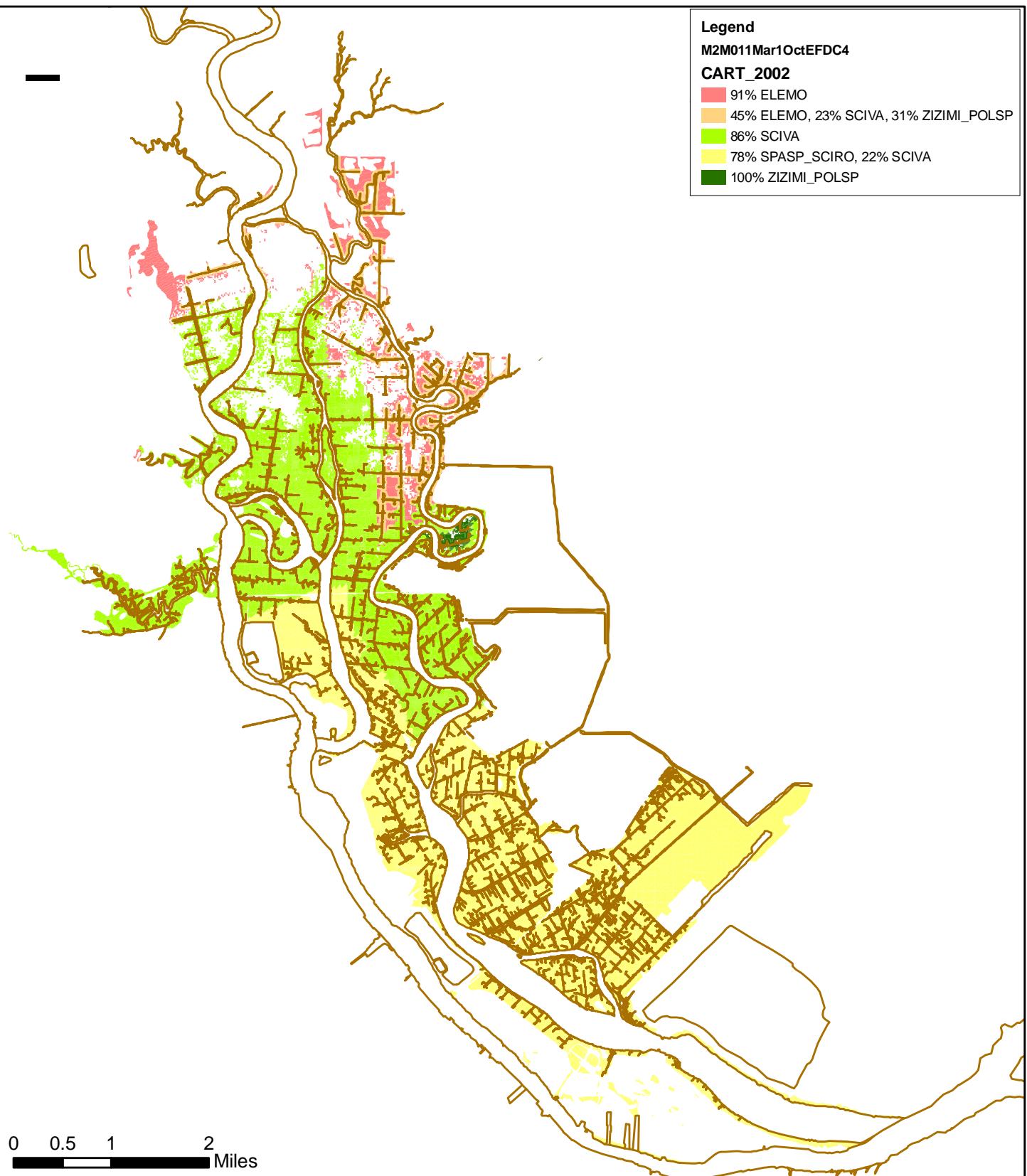
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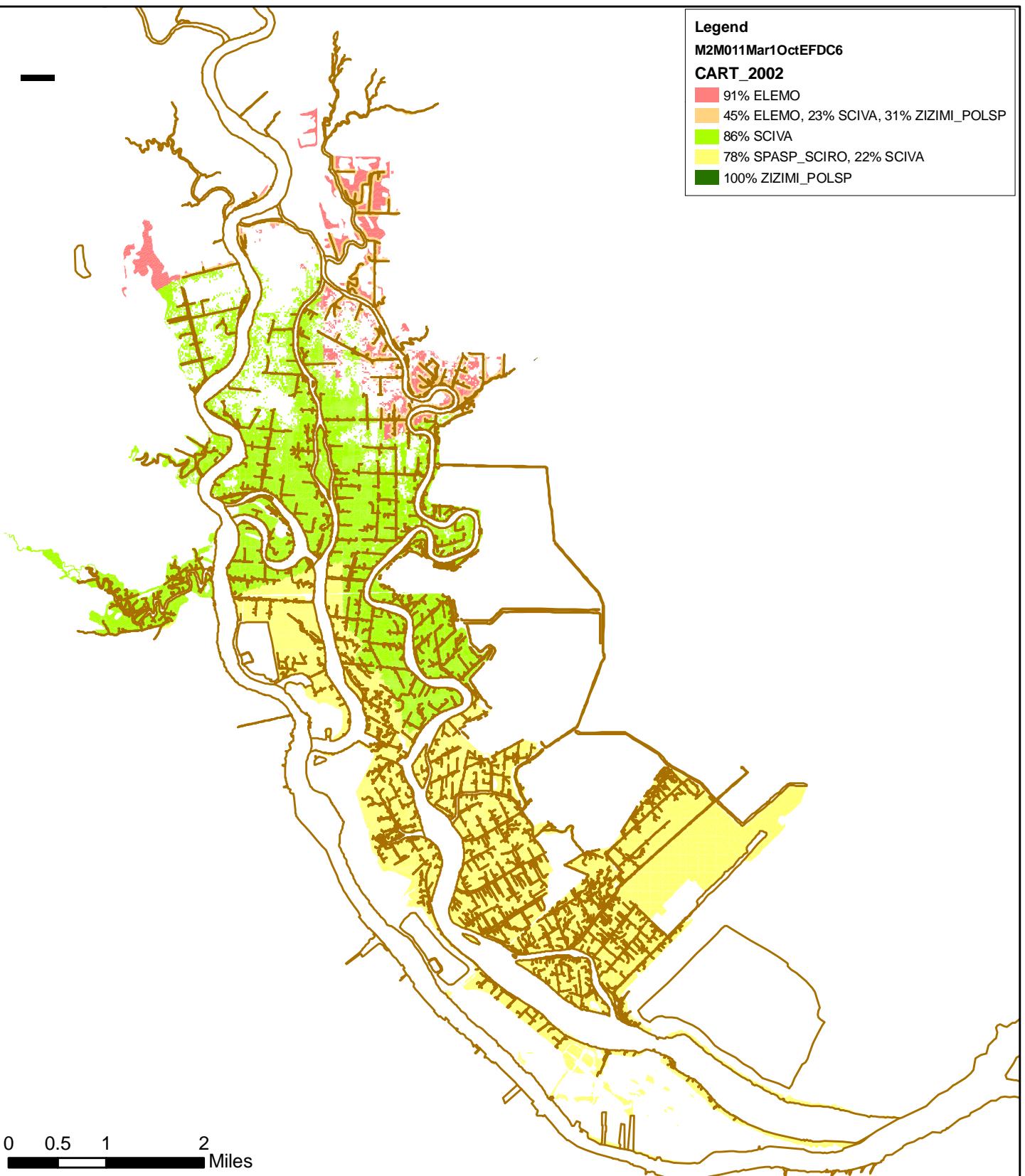
100% ZIZIMI_POLSP

**Savannah Harbor Expansion Project - Wetland/Marsh Impact Evaluation**

**USGS/USFWS Savannah Marsh Succession Model CART 2002 Predicted Ecological Community
46 Foot Deepening**

Values Based on EFDC and M2M Output using Historic Low Flow, Average Temperature, and Average Tidal Conditions
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Existing Sea Level Conditions

March 2007

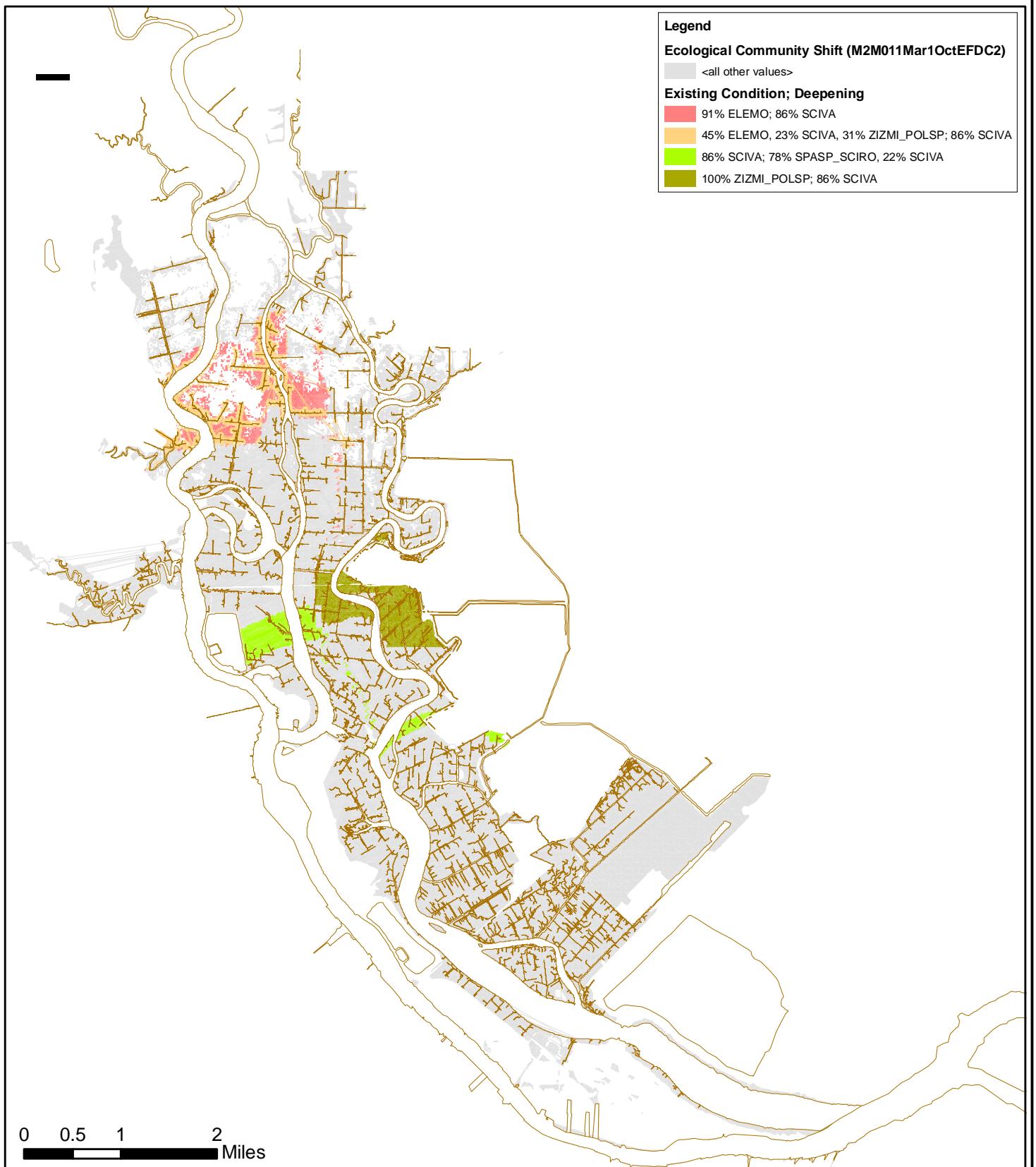


Savannah Harbor Expansion Project - Wetland/Marsh Impact Evaluation

USGS/USFWS Savannah Marsh Succession Model CART 2002 Predicted Ecological Community
48 Foot Deepening

Values Based on EFDC and M2M Output using Historic Low Flow, Average Temperature, and Average Tidal Conditions
1 March through 1 October 2001 (2001 best represents low historic conditions from the available data set)
Existing Sea Level Conditions

March 2007

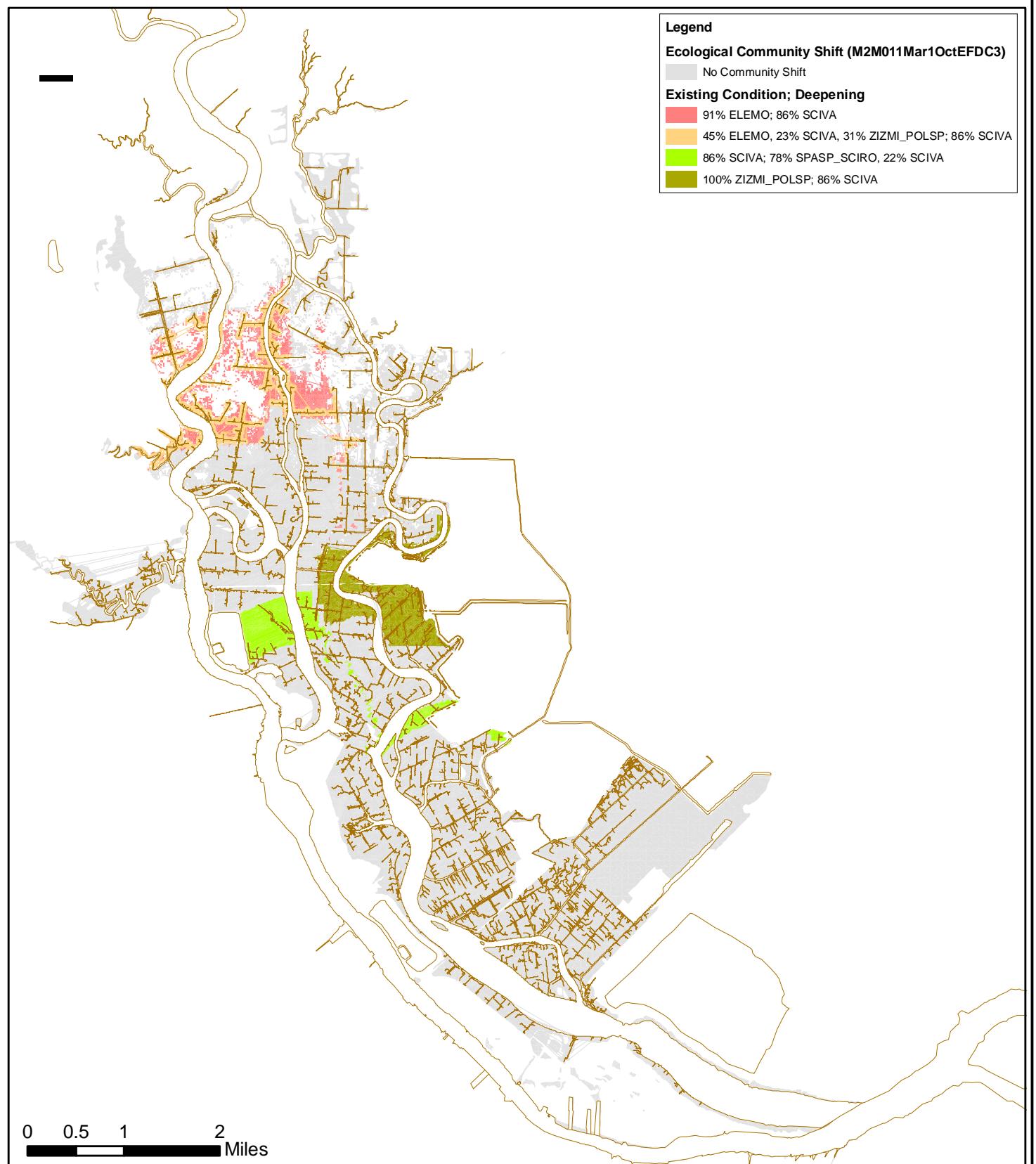


Savannah Harbor Expansion Project - Wetland/Marsh Impact Evaluation

**USGS/USFWS Savannah Marsh Succession Model CART 2002 Predicted Ecological Community Shift
44 Foot Deepening**

Values Based on EFDC and M2M Output using Historic Low Flow, Average Temperature, and Average Tidal Conditions
1 March through 1 October 2001 (2001 best represents lowhistoric conditions from the available data set)
Existing Sea Level Conditions

March 2007

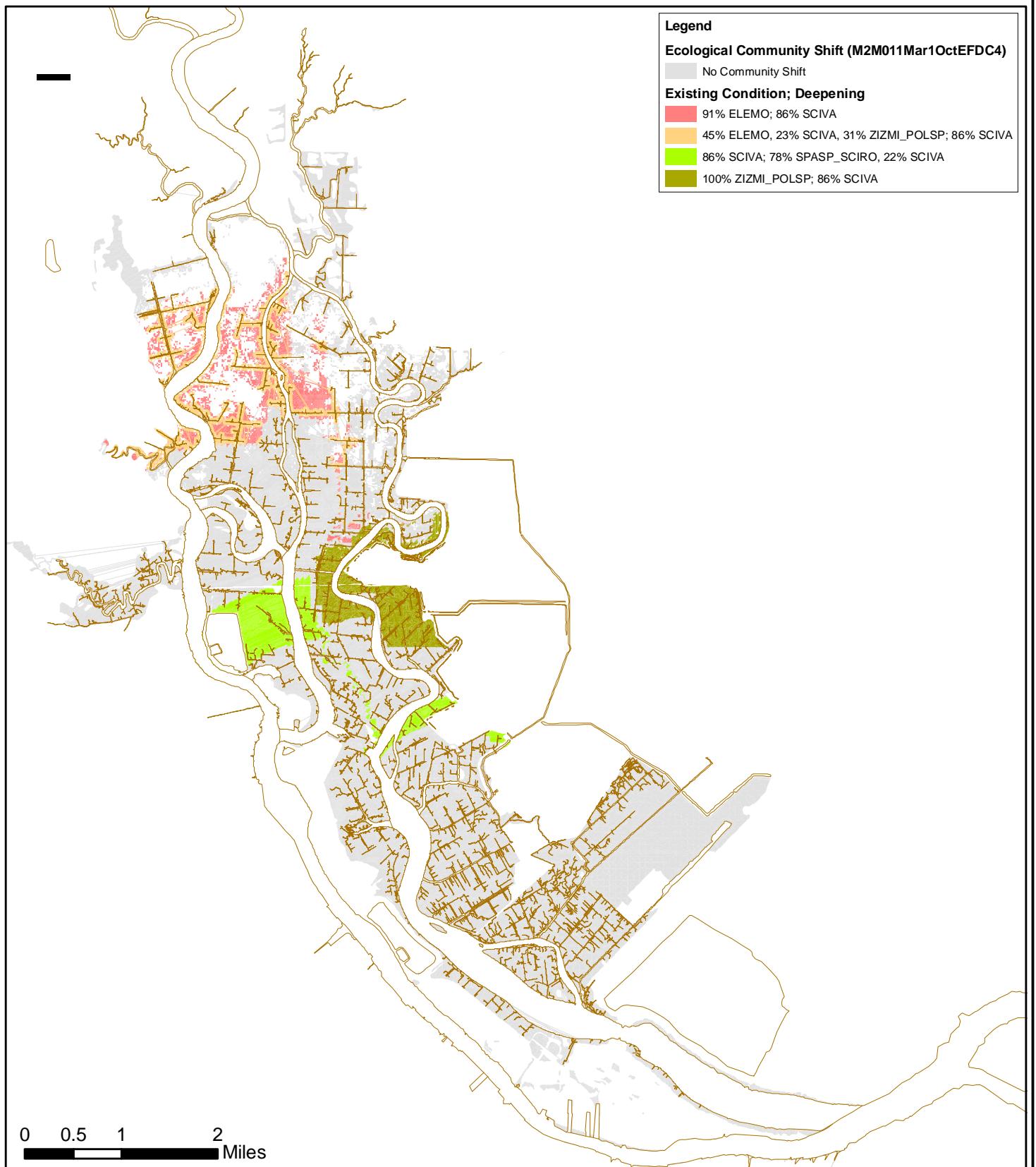


Savannah Harbor Expansion Project - Wetland/Marsh Impact Evaluation

**USGS/USFWS Savannah Marsh Succession Model CART 2002 Predicted Ecological Community Shift
45 Foot Deepening**

Values Based on EFDC and M2M Output using Historic Low Flow, Average Temperature, and Average Tidal Conditions
1 March through 1 October 2001 (2001 best represents lowhistoric conditions from the available data set)
Existing Sea Level Conditions

March 2007

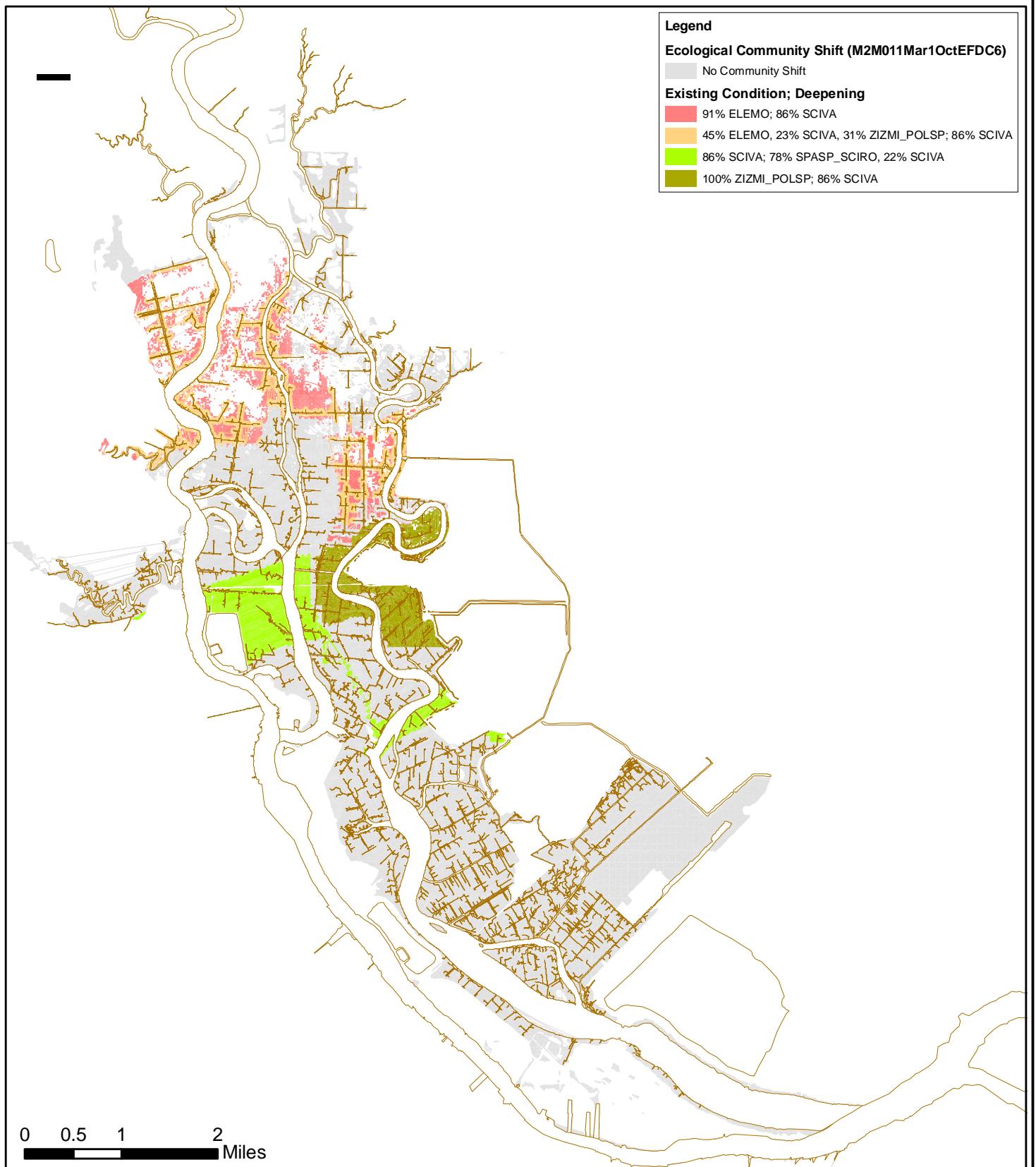


Savannah Harbor Expansion Project - Wetland/Marsh Impact Evaluation

**USGS/USFWS Savannah Marsh Succession Model CART 2002 Predicted Ecological Community Shift
46 Foot Deepening**

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Existing Sea Level Conditions

March 2007



Savannah Harbor Expansion Project - Wetland/Marsh Impact Evaluation

**USGS/USFWS Savannah Marsh Succession Model CART 2002 Predicted Ecological Community Shift
48 Foot Deepening**

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March 2007

Savannah Harbor Expansion Project
USGS/USFWS MSM Wetland/Marsh Impact Evaluation
Predicted Vegetation Community Shifts

Community CART2002	No Deepening Low Flow Associated Acreages	44 ft Deepening Low Flow Associated Acreages	Net Change (net negative), net positive
91% Elemo	868	614	(254)
100% Zizmi_Polsp	476	144	(332)
45% Elemo,23% Sciva, 31% Zizmi_Polsp	1069	781	(288)
86% Sciva	2390	3062	672
78% Spasp_Sciro, 22% Sciva	4043	4245	202
TOTAL	7978	8847	

Community CART2002	No Deepening Low Flow Associated Acreages	45 ft Deepening Low Flow Associated Acreages	Net Change (net negative), net positive
91% Elemo	868	549	(319)
100% Zizmi_Polsp	476	80	(396)
45% Elemo,23%Sciva, 31%Zizmi_Polsp	1069	673	(396)
86% Sciva	2390	3211	821
78% Spasp_Sciro, 22% Sciva	4043	4333	290
TOTAL	8847	8847	

Community CART2002	No Deepening Low Flow Associated Acreages	46 ft Deepening Low Flow Associated Acreages	Net Change (net negative), net positive
91% Elemo	868	493	(375)
100% Zizmi_Polsp	476	48	(428)
45% Elemo,23% Sciva, 31% Zizmi_Polsp	1069	610	(459)
86% Sciva	2390	3275	885
78% Spasp_Sciro, 22% Sciva	4043	4420	377
TOTAL	8847	8847	

Community CART2002	No Deepening Low Flow Associated Acreages	48 ft Deepening Low Flow Associated Acreages	Net Change (net negative), net positive
91% Elemo	868	365	(503)
100% Zizmi_Polsp	476	0	(476)
45% Elemo,23% Sciva, 31% Zizmi_Polsp	1069	423	(646)
86% Sciva	2390	3482	1092
78% Spasp_Sciro, 22% Sciva	4043	4576	532
TOTAL	8847	8847	

* Values Based on EFDC and M2M Marsh Pore Water Salinity Input for Historic Low Flow, Average Temperature, and Tidal Conditions.

1 March through 1 October 2001 (2001 best represents low historic conditions from the available data set)

Existing Sea Level Conditions

**APPENDIX C
SENSITIVITY ANALYSIS #2A
ECOLOGICAL COMMUNITY MAPS &
ECOLOGICAL COMMUNITY SHIFT MAPS**