

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Fresh/Intermediate Marsh

Increment Analysis

Project.....Hwy. 384 Hydrologic Restoration (PCS-25)
 Increment 1
 Condition: Future Without Project

Marsh type acres:
 Fresh..... 322
 Intermediate..

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	45	0.51	43	0.49	11	0.20
V2	% Aquatic	70	0.73	40	0.46	20	0.28
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 100	 0.20	% 100	 0.20	% 100	 0.20
V4	Hydrology Class 1 Class 2 Class 3 Class 4	% 100	 0.50	% 100	 0.50	% 100	 0.50
V5	%OW <= 1.5ft	80	0.90	80	0.90	70	0.80
V6	Salinity (ppt) fresh intermediate	1	1.00	2	1.00	5	0.10
V7	Access Value	0.00	0.30	0.00	0.30	1.00	1.00
		HSI = 0.53		HSI = 0.48		HSI = 0.29	

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 Fresh..... 322
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Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	45	0.51	45	0.51	45	0.51
V2	% Aquatic	70	0.73	70	0.73	70	0.73
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	%	0.20	%	0.20	%	0.20
		100		100		100	
V4	Hydrology Class 1 Class 2 Class 3 Class 4	%	0.50	%	0.50	%	0.50
		100		100		100	
V5	%OW <= 1.5ft	80	0.90	80	0.90	80	0.90
V6	Salinity (ppt) fresh intermediate	1	1.00	1	1.00	1	1.00
V7	Access Value	0.00	0.30	0.00	0.30	0.00	0.30
		HSI = 0.53		HSI = 0.53		HSI = 0.53	

Increment Analysis

AAHU CALCULATION

Project: Hwy. 384 Hydrologic Restoration (PCS-25)
Increment 1

Future With Project			Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	322	0.53	171.65	
1	322	0.53	171.65	171.65
20	322	0.53	171.65	3261.35
AAHU's =			171.65	

Future Without Project			Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	322	0.53	171.65	
1	322	0.48	154.81	163.23
20	322	0.29	94.90	2372.23
AAHU's			126.77	

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	171.65
B. Future Without Project AAHU's =	126.77
Net Change (FWP - FWOP) =	44.88

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Brackish Marsh

Project..... Hwy. 384 Hydrologic Restoration (PCS-25) Marsh type acres..... 328
 Area 2 (brackish)

Condition: Future With Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	39	0.45	39	0.45	39	0.45
V2	% Aquatic	0	0.30	5	0.34	33	0.53
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 100	 0.20	% 100	 0.20	% 100	 0.20
V4	Hydrology Class 1 Class 2 Class 3	% 100	 1.00	% 100	 1.00	% 100	 1.00
V5	%OW <= 1.5ft	90	0.80	90	0.80	90	0.80
V6	Salinity (ppt)	10	1.00	9	1.00	7	1.00
V7	Access Value	1.00	1.00	0.60	0.64	0.60	0.64
		HSI = 0.55		HSI = 0.51		HSI = 0.56	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Brackish Marsh

Project..... Hwy. 384 Hydrologic Restoration (PCS-25) Marsh type acres..... 328

Area 2 (brackish)

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	39	0.45	39	0.45	27	0.34
V2	% Aquatic	0	0.30	0	0.30	0	0.30
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	%	0.20	%	0.20	%	0.20
		100		100		100	
V4	Hydrology Class 1 Class 2 Class 3	%	1.00	%	1.00	%	1.00
		100		100		100	
V5	%OW <= 1.5ft	90	0.80	90	0.80	92	0.76
V6	Salinity (ppt)	10	1.00	10	1.00	12	0.70
V7	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI = 0.55		HSI = 0.55		HSI = 0.49	

AAHU CALCULATION

Project: Hwy. 384 Hydrologic Restoration (PCS-25)
 Area 2 (brackish)

Future With Project			Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	328	0.55	179.53	
1	328	0.51	168.89	174.21
20	328	0.56	183.65	3349.12
			AAHU's =	176.17

Future Without Project			Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	328	0.55	179.53	
1	328	0.55	179.53	179.53
20	328	0.49	160.55	3230.75
			AAHU's	170.51

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	176.17
B. Future Without Project AAHU's =	170.51
Net Change (FWP - FWOP) =	5.65