Attachment A

Wetland Valuation Assessment Results

COMMUNITY HABITAT SUITABILITY MODEL
Fresh Swamp

Project..... south swamp Acres: 1.2

Condition: Future With Project

Variable		TY 0 Class/Value	TY 0 SI	TY 1 Class/Value	TY 1 SI	TY 15 Class/Value	TY 15 SI
V1	Stand Structure	% Cover		% Cover		% Cover	
	Overstory	70	0.60	0			
	Scrub shrub	70		0			
	Herbaceous	10		0			
V2	Maturity	Age		Age		Age	
	(input age			1	0.00	1	0.00
	or	Cypress %		Cypress %		Cypress %	
		35					
	species	Cypress dbh		Cypress dbh		Cypress dbh	
	composition	12					
	and	Tupelo et al. %		Tupelo et al. %		Tupelo et al. %	
	dbh)	65					
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		6	0.44				
V3	Hydrology	Class		Class		Class	
		2	0.40	1	0.10	1	0.10
V4	Forest Size	Class		Class		Class	
		2	0.40	1		1	
V5	Surrounding Land Use	Values %		Values %		Values %	
	Forest / marsh	60	0.60	60	0.60	50	0.50
	Abandoned Ag						
	Pasture / Hay						
	Active Ag						
	Development	40		40		50	
V6	Disturbance						
	Type	Class		Class		Class	
		1	0.01				
	Distance	Class		Class		Class	
		1					
		HSI =	0.36	HSI =	0.00	HSI =	0.00

Project..... south swamp
FWP

Variable		TY 50 Class/Value	TY 50 SI	TY Class/Value	TY	TY Class/Value	TY
V1	Stand Structure	% Cover		% Cover		% Cover	
	Overstory						
	Scrub shrub						
	Herbaceous						
V2	Maturity	Age		Age		Age	
	(input age	1	0.00				
	or	Cypress %		Cypress %		Cypress %	
	species	Cypress dbh		Cypress dbh		Cypress dbh	
	composition						
	and	Tupelo et al. %		Tupelo et al. %		Tupelo et al. %	
	dbh)						
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
V3	Hydrology	Class		Class		Class	
		1	0.10				
V4	Forest Size	Class		Class		Class	
		1					
V5	Surrounding Land Use	Values %		Values %		Values %	
	Forest / marsh	50	0.50				
	Abandoned Ag						
	Pasture / Hay						
	Active Ag						
	Development	50					
V6	Disturbance						
	Type	Class		Class		Class	
		Class		Class		Class	
	Distance						
		HSI =	0.00	HSI =		HSI =	

COMMUNITY HABITAT SUITABILITY MODEL
Fresh Swamp

Project..... south swamp Acres: 1.2

Condition: Future Without Project

Variable		TY 0 Class/Value	SI	TY 1 Class/Value	SI	TY 15 Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover	
	Overstory	70	0.60	70	0.60		
	Scrub shrub	70		70			
	Herbaceous	10		10			
V2	Maturity	Age		Age		Age	
	(input age					1	0.00
	or	Cypress %		Cypress %		Cypress %	
		35		35			
	species	Cypress dbh		Cypress dbh		Cypress dbh	
	composition	12		12			
	and	Tupelo et al. %		Tupelo et al. %		Tupelo et al. %	
	dbh)	65		65			
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		6	0.44	6	0.44		
		Class		Class		Class	
V3	Hydrology	2	0.40	2	0.40	2	0.40
		Class		Class		Class	
V4	Forest Size	2	0.40	2	0.40	2	
V5	Surrounding Land Use	Values %		Values %		Values %	
	Forest / marsh	60	0.60	60	0.60	50	0.50
	Abandoned Ag						
	Pasture / Hay						
	Active Ag						
	Development	40		40		50	
V6	Disturbance						
		Class		Class		Class	
	Type	1	0.01	1	0.01		
		Class		Class		Class	
	Distance	1		1			
		HSI =	0.36	HSI =	0.36	HSI =	0.00

Project..... south swamp
FWOP

Variable		TY 50 Class/Value	SI	TY Class/Value	SI	TY Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover	
	Overstory						
	Scrub shrub						
	Herbaceous						
V2	Maturity	Age		Age		Age	
	(input age	1	0.00	1	0.00		
	or	Cypress %		Cypress %		Cypress %	
	species	Cypress dbh		Cypress dbh		Cypress dbh	
	composition						
	and	Tupelo et al. %		Tupelo et al. %		Tupelo et al. %	
	dbh)						
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		Class		Class		Class	
V3	Hydrology	2	0.40	2	0.40		
		Class		Class		Class	
V4	Forest Size	2		2			
V5	Surrounding Land Use	Values %		Values %		Values %	
	Forest / marsh	50	0.50	50	0.50		
	Abandoned Ag						
	Pasture / Hay						
	Active Ag						
	Development	50		50			
V6	Disturbance						
		Class		Class		Class	
	Type						
		Class		Class		Class	
	Distance						
		HSI =	0.00	HSI =	0.00	HSI =	

AAHU CALCULATION, Fresh Swamp

Project: south swamp

Future With Project			Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	1.2	0.36	0.43	
1	1.2	0.00	0.00	0.22
15	1.2	0.00	0.00	0.00
50	1.2	0.00	0.00	0.00
			Total CHUs =	0.22
			AAHUs =	0.00

Future Without Project			Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	1.2	0.36	0.43	
1	1.2	0.36	0.43	0.43
15	1.2	0.00	0.00	3.04
50	1.2	0.00	0.00	0.00
		0.00		
			Total CHUs =	3.48
			AAHUs =	0.07

NET CHANGE IN CHUs DUE TO PROJECT	
A. Future With Project CHUs =	0.22
B. Future Without Project CHUs =	3.48
Net Change (FWP - FWOP) =	-3.26

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHUs =	0.00
B. Future Without Project AAHUs =	0.07
Net Change (FWP - FWOP) =	-0.07

COMMUNITY HABITAT SUITABILITY MODEL
Bottomland Hardwoods

Project..... hwy 45 Acres: 3.8

Condition: Future With Project

Variable		TY 0 Class/Value	TY 0 SI	TY 1 Class/Value	TY 1 SI	TY 15 Class/Value	TY 15 SI
V1	Species Assoc.	Class 5	1.00	Class 1		Class 1	
V2	Maturity (input age or dbh, not both)	Age 40 dbh	0.80	Age 1 dbh	0.00	Age 1 dbh	0.00
V3	Understory / Midstory	Understory % 10 Midstory % 30	0.70	Understory % 1 Midstory % 1		Understory % 1 Midstory % 1	
V4	Hyrology	Class 3	1.00	Class 3	1.00	Class 3	1.00
V5	Forest Size	Class 5	1.00	Class 5		Class 5	
V6	Surrounding Land Use	Values %		Values %		Values %	
	Forest / marsh	40	0.40	50	0.50	50	0.50
	Abandoned Ag Pasture / Hay Active Ag Development	60		50		50	
V7	Disturbance						
	Type	Class 2	0.26	Class 2	0.26	Class 2	0.26
	Distance	Class 1		Class 1		Class 1	
		HSI =	0.77	HSI =	0.04	HSI =	0.04

Project..... hwy 45
FWP

Variable		TY 50 Class/Value	TY 50 SI	TY Class/Value	TY SI	TY Class/Value	TY SI
V1	Species Assoc.	Class 1		Class		Class	
V2	Maturity (input age or dbh, not both)	Age 1 dbh	0.00	Age dbh		Age dbh	
V3	Understory / Midstory	Understory % 1 Midstory % 1		Understory % Midstory %		Understory % Midstory %	
V4	Hyrology	Class 3	1.00	Class		Class	
V5	Forest Size	Class 5		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %	
	Forest / marsh	40	0.40				
	Abandoned Ag Pasture / Hay Active Ag Development	60					
V7	Disturbance						
	Type	Class 2	0.26	Class		Class	
	Distance	Class 1		Class		Class	
		HSI =	0.04	HSI =		HSI =	

COMMUNITY HABITAT SUITABILITY MODEL
Bottomland Hardwoods

Project..... hwy 45 Acres: 3.8

Condition: Future Without Project

Variable		TY 0 Class/Value	TY 0 SI	TY 1 Class/Value	TY 1 SI	TY 15 Class/Value	TY 15 SI
V1	Species Assoc.	Class 5	1.00	Class 5	1.00	Class 1	
V2	Maturity (input age or dbh, not both)	Age 40 dbh	0.80	Age 41 dbh	0.82	Age 1 dbh	0.00
V3	Understory / Midstory	Understory % 10 Midstory % 30	0.70	Understory % 10 Midstory % 30	0.70	Understory % 10 Midstory % 30	
V4	Hyrology	Class 3	1.00	Class 3	1.00	Class 3	1.00
V5	Forest Size	Class 5	1.00	Class 5	1.00	Class 5	
V6	Surrounding Land Use	Values %		Values %		Values %	
	Forest / marsh	40	0.40	40	0.40	40	0.40
	Abandoned Ag Pasture / Hay Active Ag Development	60		60		60	
V7	Disturbance						
	Type	Class 2	0.26	Class 2	0.26	Class 2	0.26
	Distance	Class 1		Class 1		Class 1	
		HSI =	0.77	HSI =	0.78	HSI =	0.04

Project..... hwy 45
FWP

Variable		TY 50 Class/Value	TY 50 SI	TY Class/Value	TY SI	TY Class/Value	TY SI
V1	Species Assoc.	Class 1		Class		Class	
V2	Maturity (input age or dbh, not both)	Age 1 dbh	0.00	Age dbh		Age dbh	
V3	Understory / Midstory	Understory % 10 Midstory % 30		Understory % Midstory %		Understory % Midstory %	
V4	Hyrology	Class 3	1.00	Class		Class	
V5	Forest Size	Class 5		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %	
	Forest / marsh	40	0.40				
	Abandoned Ag Pasture / Hay Active Ag Development	60					
V7	Disturbance						
	Type	Class 2	0.26	Class		Class	
	Distance	Class 1		Class		Class	
		HSI =	0.04	HSI =		HSI =	

AAHU CALCULATION, Bottomland Hardwoods

Project: hwy 45

Future With Project			Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	3.8	0.77	2.94	
1	0	0.04	0.00	1.01
15	0	0.04	0.00	0.00
50	0	0.04	0.00	0.00
			Total CHUs =	1.01
			AAHUs =	0.02

Future Without Project			Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	3.8	0.77	2.94	
1	3.8	0.78	2.96	2.95
15	0	0.04	0.00	14.18
50	0	0.04	0.00	0.00
			Total CHUs =	17.12
			AAHUs =	0.34

NET CHANGE IN CHUs DUE TO PROJECT	
A. Future With Project CHUs =	1.01
B. Future Without Project CHUs =	17.12
Net Change (FWP - FWOP) =	-16.11

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future With Project AAHUs =	0.02
B. Future Without Project AAHUs =	0.34
Net Change (FWP - FWOP) =	-0.32

COMMUNITY HABITAT SUITABILITY MODEL
Bottomland Hardwoods

Project..... Fisher North diagonal Acres: 4.2

Condition: Future With Project

Variable		TY 0 Class/Value	TY 0 SI	TY 1 Class/Value	TY 1 SI	TY 50 Class/Value	TY 50 SI
V1	Species Assoc.	Class 2		Class 1		Class 1	
V2	Maturity (input age or dbh, not both)	Age 6 dbh	0.04	Age 1 dbh	0.00	Age 1 dbh	0.00
V3	Understory / Midstory	Understory % 10 Midstory % 90		Understory % 1 Midstory % 1		Understory % 1 Midstory % 1	
V4	Hyrology	Class 3	1.00	Class 3	1.00	Class 3	1.00
V5	Forest Size	Class 5		Class 5		Class 5	
V6	Surrounding Land Use	Values %		Values %		Values %	
	Forest / marsh	50	0.50	50	0.50	50	0.50
	Abandoned Ag Pasture / Hay Active Ag Development	50		50		50	
V7	Disturbance						
	Type	Class 2	0.50	Class 2	0.50	Class 2	0.50
	Distance	Class 2		Class 2		Class 2	
		HSI =	0.17	HSI =	0.05	HSI =	0.05

Project..... Fisher North diagonal
FWP

Variable		TY Class/Value	TY SI	TY Class/Value	TY SI	TY Class/Value	TY SI
V1	Species Assoc.	Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age dbh		Age dbh		Age dbh	
V3	Understory / Midstory	Understory % Midstory %		Understory % Midstory %		Understory % Midstory %	
V4	Hyrology	Class		Class		Class	
V5	Forest Size	Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %	
	Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development						
V7	Disturbance						
	Type	Class		Class		Class	
	Distance	Class		Class		Class	
		HSI =		HSI =		HSI =	

COMMUNITY HABITAT SUITABILITY MODEL
Bottomland Hardwoods

Project..... Fisher North diagonal Acres: 4.2

Condition: Future Without Project

Variable		TY 0 Class/Value	TY 0 SI	TY 1 Class/Value	TY 1 SI	TY 50 Class/Value	TY 50 SI
V1	Species Assoc.	Class 2		Class 2		Class 4	0.80
V2	Maturity (input age or dbh, not both)	Age 6 dbh	0.04	Age 6 dbh	0.04	Age 56 dbh	1.00
V3	Understory / Midstory	Understory % 10 Midstory % 90		Understory % 10 Midstory % 90		Understory % 10 Midstory % 30	0.70
V4	Hyrology	Class 3	1.00	Class 3	1.00	Class 3	1.00
V5	Forest Size	Class 5		Class 5		Class 5	1.00
V6	Surrounding Land Use	Values %		Values %		Values %	
	Forest / marsh	50	0.50	50	0.50	40	0.40
	Abandoned Ag Pasture / Hay Active Ag Development	50		50		60	
V7	Disturbance Type	Class 2	0.50	Class 2	0.50	Class 2	0.50
	Distance	Class 2		Class 2		Class 2	
		HSI =	0.17	HSI =	0.17	HSI =	0.81

Project..... Fisher North diagonal
FWP

Variable		TY Class/Value	TY SI	TY Class/Value	TY SI	TY Class/Value	TY SI
V1	Species Assoc.	Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age dbh		Age dbh		Age dbh	
V3	Understory / Midstory	Understory % Midstory %		Understory % Midstory %		Understory % Midstory %	
V4	Hyrology	Class		Class		Class	
V5	Forest Size	Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %	
	Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development						
V7	Disturbance Type	Class		Class		Class	
	Distance	Class		Class		Class	
		HSI =		HSI =		HSI =	

AAHU CALCULATION, Bottomland Hardwoods

Project: Fisher North diagonal

Future With Project			Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	4.2	0.17	0.71	
1	0	0.05	0.00	0.27
50	0	0.05	0.00	0.00
			Total CHUs =	0.27
			AAHUs =	0.01

Future Without Project			Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	4.2	0.17	0.71	
1	4.2	0.17	0.71	0.71
50	4.2	0.81	3.39	100.35
			Total CHUs =	101.06
			AAHUs =	2.02

NET CHANGE IN CHUs DUE TO PROJECT	
A. Future With Project CHUs =	0.27
B. Future Without Project CHUs =	101.06
Net Change (FWP - FWOP) =	-100.79

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future With Project AAHUs =	0.01
B. Future Without Project AAHUs =	2.02
Net Change (FWP - FWOP) =	-2.02

COMMUNITY HABITAT SUITABILITY MODEL
Fresh Swamp

Project..... behind school Acres: 1.2

Condition: Future With Project

Variable		TY 0 Class/Value	SI	TY 1 Class/Value	SI	TY 50 Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover	
	Overstory	33	0.50	0			
	Scrub shrub	25		0			
	Herbaceous	65		0			
V2	Maturity	Age		Age		Age	
	(input age			1	0.00	1	0.00
	or	Cypress %		Cypress %		Cypress %	
		100					
	species	Cypress dbh		Cypress dbh		Cypress dbh	
	composition	10					
	and	Tupelo et al. %		Tupelo et al. %		Tupelo et al. %	
	dbh)	0					
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		0	0.45				
V3	Hydrology	Class		Class		Class	
		2	0.40	1	0.10	1	0.10
V4	Forest Size	Class		Class		Class	
		5	1.00	5		1	
V5	Surrounding Land Use	Values %		Values %		Values %	
	Forest / marsh	60	0.60	60	0.60	40	0.40
	Abandoned Ag						
	Pasture / Hay						
	Active Ag						
	Development	40		40		60	
V6	Disturbance						
		Class		Class		Class	
	Type	3	0.65				
		Class		Class		Class	
	Distance	2					
		HSI =	0.51	HSI =	0.00	HSI =	0.00

Project..... behind school
FWP

Variable		TY Class/Value	SI	TY Class/Value		TY Class/Value	
V1	Stand Structure	% Cover		% Cover		% Cover	
	Overstory						
	Scrub shrub						
	Herbaceous						
V2	Maturity	Age		Age		Age	
	(input age						
	or	Cypress %		Cypress %		Cypress %	
	species	Cypress dbh		Cypress dbh		Cypress dbh	
	composition						
	and	Tupelo et al. %		Tupelo et al. %		Tupelo et al. %	
	dbh)						
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
V3	Hydrology	Class		Class		Class	
V4	Forest Size	Class		Class		Class	
V5	Surrounding Land Use	Values %		Values %		Values %	
	Forest / marsh						
	Abandoned Ag						
	Pasture / Hay						
	Active Ag						
	Development						
V6	Disturbance						
		Class		Class		Class	
	Type						
		Class		Class		Class	
	Distance						
		HSI =		HSI =		HSI =	

COMMUNITY HABITAT SUITABILITY MODEL
Fresh Swamp

Project..... behind school Acres: 1.2

Condition: Future Without Project

Variable		TY 0 Class/Value	TY 0 SI	TY 1 Class/Value	TY 1 SI	TY 50 Class/Value	TY 50 SI
V1	Stand Structure	% Cover		% Cover		% Cover	
	Overstory	33	0.50	33	0.50	33	0.50
	Scrub shrub	25		25		25	
	Herbaceous	65		65		65	
V2	Maturity (input age or species composition and dbh)	Age		Age		Age	
		Cypress %		Cypress %		Cypress %	
		100		100		100	
		Cypress dbh		Cypress dbh		Cypress dbh	
		10		10		15	
		Tupelo et al. %		Tupelo et al. %		Tupelo et al. %	
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
			0.45		0.45		0.93
V3	Hydrology	Class 2	0.40	Class 2	0.40	Class 2	0.40
V4	Forest Size	Class 5	1.00	Class 5	1.00	Class 5	1.00
V5	Surrounding Land Use	Values %		Values %		Values %	
	Forest / marsh	60	0.60	60	0.60	40	0.40
	Abandoned Ag						
	Pasture / Hay						
	Active Ag						
	Development	40		40		60	
V6	Disturbance						
	Type	Class 3	0.65	Class 3	0.65	Class 3	0.65
	Distance	Class 2		Class 2		Class 2	
		HSI =	0.51	HSI =	0.51	HSI =	0.62

Project..... behind school
FWOP

Variable		TY Class/Value	TY SI	TY Class/Value	TY SI	TY Class/Value	TY SI
V1	Stand Structure	% Cover		% Cover		% Cover	
	Overstory						
	Scrub shrub						
	Herbaceous						
V2	Maturity (input age or species composition and dbh)	Age		Age		Age	
		Cypress %		Cypress %		Cypress %	
		Cypress dbh		Cypress dbh		Cypress dbh	
		Tupelo et al. %		Tupelo et al. %		Tupelo et al. %	
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
V3	Hydrology	Class		Class		Class	
V4	Forest Size	Class		Class		Class	
V5	Surrounding Land Use	Values %		Values %		Values %	
	Forest / marsh						
	Abandoned Ag						
	Pasture / Hay						
	Active Ag						
	Development						
V6	Disturbance						
	Type	Class		Class		Class	
	Distance	Class		Class		Class	
		HSI =		HSI =		HSI =	

AAHU CALCULATION, Fresh Swamp

Project: behind school

Future With Project			Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	1.2	0.51	0.61	
1	0	0.00	0.00	0.20
50	0	0.00	0.00	0.00
			Total CHUs =	0.20
			AAHUs =	0.00

Future Without Project			Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	1.2	0.51	0.61	
1	1.2	0.51	0.61	0.61
50	1.2	0.62	0.74	33.22
			Total CHUs =	33.83
			AAHUs =	0.68

NET CHANGE IN CHUs DUE TO PROJECT	
A. Future With Project CHUs =	0.20
B. Future Without Project CHUs =	33.83
Net Change (FWP - FWOP) =	-33.63

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHUs =	0.00
B. Future Without Project AAHUs =	0.68
Net Change (FWP - FWOP) =	-0.67

Attachment B

State Historic Preservation Officer Coordination Letter

KATHLEEN BABINEAUX BLANCO
LIEUTENANT GOVERNOR

State of Louisiana

OFFICE OF THE LIEUTENANT GOVERNOR
DEPARTMENT OF CULTURE, RECREATION & TOURISM
OFFICE OF CULTURAL DEVELOPMENT
DIVISION OF ARCHAEOLOGY

PHILLIP J. JONES
SECRETARY

GERRI HOBDY
ASSISTANT SECRETARY

August 7, 1997

Mr. Brian S. Hava
Coastal Engineering and
Environmental Consultants, Inc.
615 Fourth Street
Westwego, Louisiana 70094

Re: Draft Phase I CRM Report
Cultural Resources Survey,
Fisher School Basin,
Jefferson Parish, Louisiana
Earth Search, Inc.

Dear Mr. Hava:

Receipt is acknowledged of your letter dated July 15, 1997, transmitting two copies of the referenced report. We have completed our review of the document and have the following comments to offer.

The report meets the report writing standards of the Louisiana Archaeological Code and we have only a few technical comments, which are attached to this letter. Concerning the Phase I survey results, we concur with the findings of the archaeological contractor that significant cultural resources should not be affected by construction of the proposed flood protection project. Consequently, we have no objections to its implementation.

Upon finalization of the report, please transmit two copies of the document for our CRM library. Thank you for your cooperation in addressing project effect on cultural resources.

Sincerely,

Gerri Hobdy
State Historic Preservation Officer

c: Dr. Jill-Karen Yakubik
Earth Search, Inc.

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