United States Department of Agriculture
Natural Resources Conservation Service

OMB No. 0578-0030
NRCS-PDM-20

DAMAGE SURVEY REPORT (DSR)
Emergency Watershed Protection Program – Recovery

NRCS Entry Only
Eligible: YES X NO
Approved: YES X NO
Funding Priority Number (from Section 4) 1e
Limited Resource Area: YES NO X

Section 1A

Date of Report: 11/01/2005

DSR Number: 019-05-007R Project Number: BM-1

Section 1B Sponsor Information

Sponsor Name: District 8 Ward 1

Address: 2841 Goos Road

City/State/Zip: Lake Charles, LA

Telephone Number: (337) 855-4388 Fax: (337) 855-4388

Section 1C Site Location Information

County: Calcasieu State: LA Congressional District: 07

Latitude: 30.40284 Longitude: 93.18913

Latitude: ~~30.39774~~ 30.3983 Longitude: ~~93.12836~~ 93.15221 BB Section: 4 Township: 7S,8S Range: 8W

UTM Coordinates:

Drainage Name: Briar Marsh Bayou Reach: From Beginning to Welcome Rd (6,900 ft)

Damage Description: Small and large trees and branches in channel, impeding flow.

Section 1D Site Evaluation

All answers in this Section must be YES in order to be eligible for EWP assistance.

Site Eligibility	YES	NO	Remarks
Damage was a result of a natural disaster?*	✓		
Recovery measures would be for runoff retardation or soil erosion prevention?*	✓		
Threat to life and/or property?*	✓		
Event caused a sudden impairment in the watershed?*	✓		
Imminent threat was created by this event?**	✓		
For structural repairs, not repaired twice within ten years?**	✓		
Site Defensibility			
Economic, environmental, and social documentation adequate to warrant action (Go to pages 3, 4, 5 and 6 ***)	✓		
Proposed action technically viable? (Go to Page 9 ***)	✓		

Have all the appropriate steps been taken to ensure that all segments of the affected population have been informed of the EWP program and its possible effects? YES ✓ NO

Comments:

* Statutory
** Regulation
*** DSR Pages 3 through 5 are required to support the decisions recorded on this summary page. If additional space is needed on this or any other page in this form, add appropriate pages.

DSR NO: 019-05-007R

Section 1E Proposed Action

Describe the preferred alternative from Findings: Section 5 A:

Total installation cost identified in this DSR: Section 3: $ 91,750.00

Section 1F NRCS State Office Review and Approval

Reviewed By: _____ Date Reviewed: 11/28/05
State EWP Program Manager

Approved By: Donald W. Gohmert Date Approved: 11/29/05
State Conservationist

PRIVACY ACT AND PUBLIC BURDEN STATEMENT

NOTE: The following statement is made in accordance with the Privacy Act of 1974, (5 U.S.C. 552a) and the Paperwork Reduction Act of 1995, as amended. The authority for requesting the following information is 7 CFR 624 (EWP) and Section 216 of the Flood Control Act of 1950, Public Law 81-516, 33 U.S.C. 701b-1; and Section 403 of the Agricultural Credit Act of 1978, Public Law 95334, as amended by Section 382, of the Federal Agriculture Improvement and Reform Act of 1996, Public Law 104-127, 16 U.S.C. 2203. EWP, through local sponsors, provides emergency measures for runoff retardation and erosion control to areas where a sudden impairment of a watershed threatens life or property. The Secretary of Agriculture has delegated the administration of EWP to the Chief or NRCS on state, tribal and private lands.

Signing this form indicates the sponsor concurs and agrees to provide the regional cost-share to implement the EWP recovery measure(s) determined eligible by NRCS under the terms and conditions of the program authority. Failure to provide a signature will result in the applicant being unable to apply for or receive a grant the applicable program authorities. Once signed by the sponsor, this information may not be provided to other agencies. IRS, Department of Justice, or other State or Federal Law Enforcement agencies, and in response to a court or administrative tribunal.

The provisions of criminal and civil fraud statutes, including 18 U.S.C. 286, 287, 371, 641, 651, 1001; 15 U.S.C. 714m; and 31 U.S.C. 3729 may also be applicable to the information provided. According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0030. The time required to complete this information collection is estimated to average 117/1.96 minutes/hours per response, including the time for reviewing instructions, searching existing data sources, field reviews, gathering, designing, and maintaining the data needed, and completing and reviewing the collection information.

USDA NONDISCRIMINATION STATEMENT

"The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, martial status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programms.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202)720-2600 (vocie and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, SW., Washington, DC 20250-9410, or call (800)795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Civil Rights Statement of Assurance

The program or activities conducted under this agreement will be in compliance with the nondiscrimination provisions contained in the Titles VI and VII of the Civil Rights Act of 1964, as amended; the Civil Rights Restoration Act of 1987 (Public Law 100-259); and other nondiscrimination statutes: namely, Section 504 of the Rehabilitation Act of 1973, Title IX of the Amendments of 1972, the Age Discrimination Act of 1975, and the Americans with Disabilities Act of 1990. They will also be in accordance with regulations of the Secretary of Agriculture (7 CFR 15, 15a, and 15b), which provide that no person in the United States shall on the grounds of race, color, national origin, gender, religion, age or disability, be excluded from participation in, be denied the benefits of, or otherwise subjected to discrimination under any program or activity receiving Federal financial assistance from the U.S. Department of Agriculture or any agency thereof.

DSR NO: 019-05-007R

Section 2 Environmental Evaluation

2A Resource Concerns	2B Existing Condition	2C Alternative Designation		
		Proposed Action	No Action	Alternative
		Debris removal using conventional equipment, access from one side of the channel	Leave debris in stream	Debris removal using conventional equipment, access from both sides of channel.
		2D Effects of Alternatives		
Soil				
Bank erosion	10 tons/acre - exposed soil due to damage	5 tons/acre - remove debris, allow revegeetation	10 tons/acre - potential for further damage from debris	5 t/ac - rem debris, allow reveg
Compaction	N/A	slight increase	no effect	moderate increase
Water				
Downstream water rights				
DO	excess debris decreases DO - potential problem	Removal of debris increases DO	Excess debris decreases DO - potential problem	Removal of debris increases DO
BOD	Raised BOD	Lower BOD	Raised BOD	Lower BOD
overall stream health	SVAP - 4	SVAP - 6	SVAP - 4	SVAP - 5
Air				
particulate matter/dust	no effect	slight increase	no effect	moderate increase
Plant				
Aquatic health/vigor	Poor due to water quality	Increase function with improved water quality	Poor due to water quality	Increase function with improved water quality
riparian plants habitat	Excess debris causing damage	Improved with debris removal	Slight increase over time	Improved with debris removal
Animal				
Aquatic habitat	Poor - low water quality	Restore hab for emerg aquatics	poor - low water quality	Restore hab for emerg aquatics
Upland habitat	loss of food and cover habitat	restore food and cover habitat	loss of food and cover habitat	restore food and cover habitat
Other				
Aesthetics	Poor due to clutter	Improved - remove clutter	Poor due to clutter	Slight improve - remove clutter
	Pools of stagnant water due to debris in channel	restore natural flow	Pools of stagnant water	restore natural flow

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Section 2E Special Environmental Concerns

Resource Consideration	Existing Condition	Alternatives and Effects		
		Proposed Action	No Action	Alternative
Clean Water Act Waters of the U.S.	CWA jurisdiciton-Poor water quality/Low DO High BOD	CWA permit needed-Improved water quality; improved BOD&DO	Poor water quality	CWA permit needed-Improved water quality; improved BOD&DO
Coastal Zone Management Areas	Water flow patterns altered	Water flow patterns restored; minimal adverse impacts as a result of project	Water flow patterns altered;	Water flow patterns restored; minimal impacts as a result of project
Coral Reefs	N/A			
Cultural Resources	(FOTG) state level review none observed on-site	(FOTG) state level review none observed on-site	(FOTG) state level review none observed on-site	(FOTG) state level review none observed on-site
Endangered and Threatened Species	(FOTG) (Federal/State lists) none observed on-site	(FOTG) (Federal/State lists) none observed on-site	(FOTG) (Federal/State lists) none observed on-site	(FOTG) (Federal/State lists) none observed on-site
Environmental Justice	N/A			
Essential Fish Habitat	(FOTG) No EFH	(FOTG) No EFH	(FOTG) No EFH	(FOTG) No EFH
Fish and Wildlife Coordination	State level review by project type with USFWS&LDWF; No channel modification proposed	State level review by project type with USFWS&LDWF; Will be addressed in CWA permit if needed	N/A	State level review by project type with USFWS&LDWF; Will be addressed in CWA permit
Floodplain Management	100-year floodplain function is impaired	100-year floodplain function restored	100-year floodplain function is impaired	100-year floodplain function restored
Invasive Species	Chinese tallow tree	Opening access may contribute to spread	Chinese tallow tree with potential for increase	Opening access may contribute to spread
Migratory Birds	Food&cover quality reduced	Food&cover quality improved	Food&cover quality reduced	Food&cover quality improved
Natural Areas	(FOTG) None present	(FOTG) None present	(FOTG) None present	(FOTG) None present
Prime and Unique Farmlands	(FOTG) None present	(FOTG) None present	(FOTG) None present	(FOTG) None present
Riparian Areas	Riparian habitat impacted by flooding due to debris accumulation	Riparian habitat improved by debris removal	Riparian habitat impacted by flooding due to debris accumulation	Riparian habitat improved by debris removal
Scenic Beauty	Debris has negative impact	Improves with debris removal	Debris has negative impact	Improves with debris removal
Wetlands	Wetland function impacted by debris altering hydrology	Debris removed from stream. Wetlands not adversely impacted.	Wetland function impacted by debris altering hydsrology	Debris removed from stream. Wetlands not adversely impact
Wild and Scenic Rivers	(FOTG) (LDWF scenic streams list) none present	(FOTG) (LDWF scenic streams list) none present	(FOTG) (LDWF scenic streams list) none present	(FOTG) (LDWF scenic streams list) none present

Completed By: Frank Chapman Date: 11/01/2005

DSR NO: 019-05-007R

Section 2F Economic 0.10

This section must be completed by each alternative considered (attach additional sheets as necessary).

	Future Damages ($)	Damage Factor (%)	Near Term Damage Reduction
Properties Protected (Private)			603,790.00
121 Households 72 homes @ $83,510	6,037,900.00	10	~~6,037,900.00~~
48 homes @ $27,518			
See att. Worksheet			
Properties Protected (Public)			
Business Losses			
Other			
			603,790.00
Total Near Term Damage Reduction $			~~6,037,900.00~~
Net Benefit (Total Near Term Damage Reduction minus Cost from Section 3)			~~5,793,381.00~~ 512,040.00

Completed By: Frank Chapman Date: 11/01/2005

Section 2G Social Consideration This section must be completed by each alternative considered

(attach additional sheets as necessary).

	YES	NO	Remarks
Has there been a loss of life as a result of the watershed impairment?	☐	✔	
Is there the potential for loss of life due to damages from the watershed impairment?	✔	☐	Emergency vehicles may not be able to get to the affected areas. Increased potential for children drowning in channel
Has access to a hospital or medical facility been impaired by watershed impairment?	☐	✔	If another event occurs, severe flooding is inevitable.
Has the community as a whole been adversely impacted by the watershed impairment (life and property ceases to operate in a normal capacity)	✔	☐	Impairment increased flooding impacts throughout the community
Is there a lack or has there been a reduction of public safety due to watershed impairment?	✔	☐	The next event would jeopardize public safety

Completed By: Frank Chapman Date: 11/01/2005

DSR NO: _____
019-05-007R

Section 2H Group Representation and Disability Information

This section is completed only for the preferred alternative selected.

Group Representation	Number
American Indian/Alaska Native Female Hispanic	
American Indian/Alaska Native Female Non-Hispanic	
American Indian/Alaska Native Male Hispanic	
American Indian/Alaska Native Male Non-Hispanic	
Asian Female Hispanic	
Asian Female Non-Hispanic	
Asian Male Hispanic	
Asian Male Non-Hispanic	
Black or African American Female Hispanic	
Black or African American Female Non-Hispanic	4
Black or African American Male Hispanic	
Black or African American Male Non-Hispanic	6
Hawaiian Native/Pacific Islander Female Hispanic	
Hawaiian Native/Pacific Islander Female Non-Hispanic	
Hawaiian Native/Pacific Islander Male Hispanic	
Hawaiian Native/Pacific Islander Male Non-Hispanic	
White Female Hispanic	1
White Female Non-Hispanic	183
White Male Hispanic	1
White Male Non-Hispanic	187
Total Group	382

Census tract(s) 22.01

Completed By: Frank Chapman Date: 11/01/2005

DSR NO: 019-05-007R

Section 2I. Required consultation or coordination between the lead agency and/or the RFO and another governmental unit including tribes:

Easements, permissions, or permits:

CWA permit, Water Quality Certification needed for the grubbing of stumps.

Mitigation Description:

Accessing debris from only one side of the channel. Debris will be removed from the project area and disposed of in an approved land fill. Proposed action will eliminate stagnant pools in the channel, reducing vector/disease potential. Action will be completed without interruption to reduce impact on wildlife.

Agencies, persons, and references consulted, or to be consulted:

Corps of Engineers
LA DEQ

DSR NO: 019-05-007R

Section 3 Engineering Cost Estimate

Completed By: Brandon Samson Date: 11/09/2005

This section must be completed by each alternative considered (attach additional sheets as necessary).

Proposed Recovery Measure (including mitigation)	Quantity	Units	Unit Cost ($)	Amount ($)
Proposed Action- Debris removal with conventional equipment				0.00
Mobilization & Demobilization	1	LS	10,000.00	10,000.00
Channel Obstruction Removal	6,900	LF	11.50	79,350.00
Seeding, Sprigging, & Mulching	3	Ac	800.00	2,400.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
Total Installation Cost (Enter in Section 1F)$				91,750.00

Unit Abbreviations:

AC	Acre	LS	Lump Sum
CY	Cubic Yard	SF	Square Feet
EA	Each	SY	Square Yard
HR	Hour	TN	Ton
LF	Linear Feet	Other (Specifiy)	

DSR NO: 019-05-007R

Section 4 NRCS EWP Funding Priority

Complete the following section to compute the funding priority for the recovery measures in this application (see instructions on page 10).

Priority Ranking Criteria	**Yes**	**No**		**Ranking Number Plus Modifer**
1. Is this an exigency situation?	✔	☐		1e
2. Is this a site where there is serious, but not immediate threat to human life?	☐	☐		
3. Is this a site where buildings, utilities, or other important infrastructure components are threatened?	☐	☐		
4. Is this site a funding priority established by the NRCS Chief?	☐	☐		
The following are modifiers for the above criteria			**Modifier**	
a. Will the proposed action or alternatives protect or conserve federally-listed threatened and endangered species or critical habitat?				
b. Will the proposed action or alternatives protect or conserve cultural sites listed on the National Register of Historic Places?				
c. Will the proposed action or alternatives protect or conserve prime or important farmland?				
d. Will the proposed action or alternatives protect or conserve existing wetlands?				
a. Will the proposed action or alternatives maintain or improve current water quality conditions?			e	
f. Will the proposed action or alternatives protect or conserve unique habitat, including but not limited to, areas inhabited by State-listed species, fish and wildlife management area, or State identified sensitive habitats?				

Enter priority computation in Section 1A, NRCS Entry, Funding priority number.

Remarks:

DSR NO: 019-05-007R

Section 5A Findings

Finding: Indicate the preferred alternative from Section 2 (Enter to Section 1E):

I have considered the effects of the action and the alternatives on the Environmental Economic, Social; the Special Environmental Concerns; and the extraordinary circumstances (40 CFR 1508.27). I find for the reasons stated below, that the preferred alternative:

✓ Has been sufficiently analyzed in the EWP PEIS (reference all that apply)
Chapter 5.2.2.1.2
Chapter _____
Chapter _____
Chapter _____
Chapter _____

____ May require the preparation of an environmental assessment or environmental impact statement. The action will be referred to the NRCS State Office on this date:

NRCS representative of the DSR team Charles Stephens

Title: District Conservationist Date: 11-21-05

Section 5B Comments:

Section 5C

Sponsor Concurrence: Ellis Bennett

Sponsor Representative

Title: FOREMAN Date: 11-21-05

Section 6 Attachments:

A. Location Map
B. Site Plan or Sketches
C. Other (explain)

SECTION 6

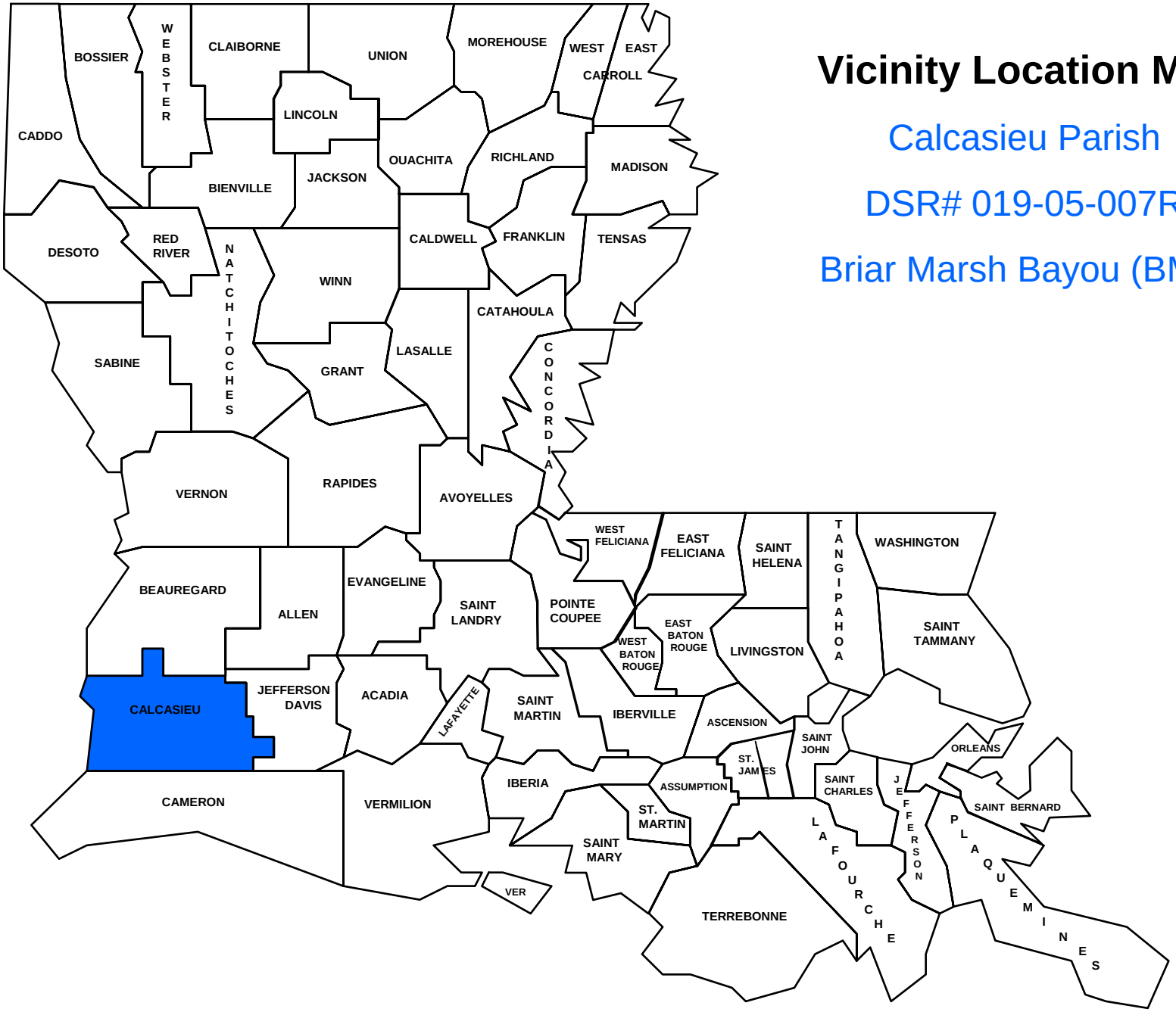
ATTACHMENTS

Vicinity Location Map

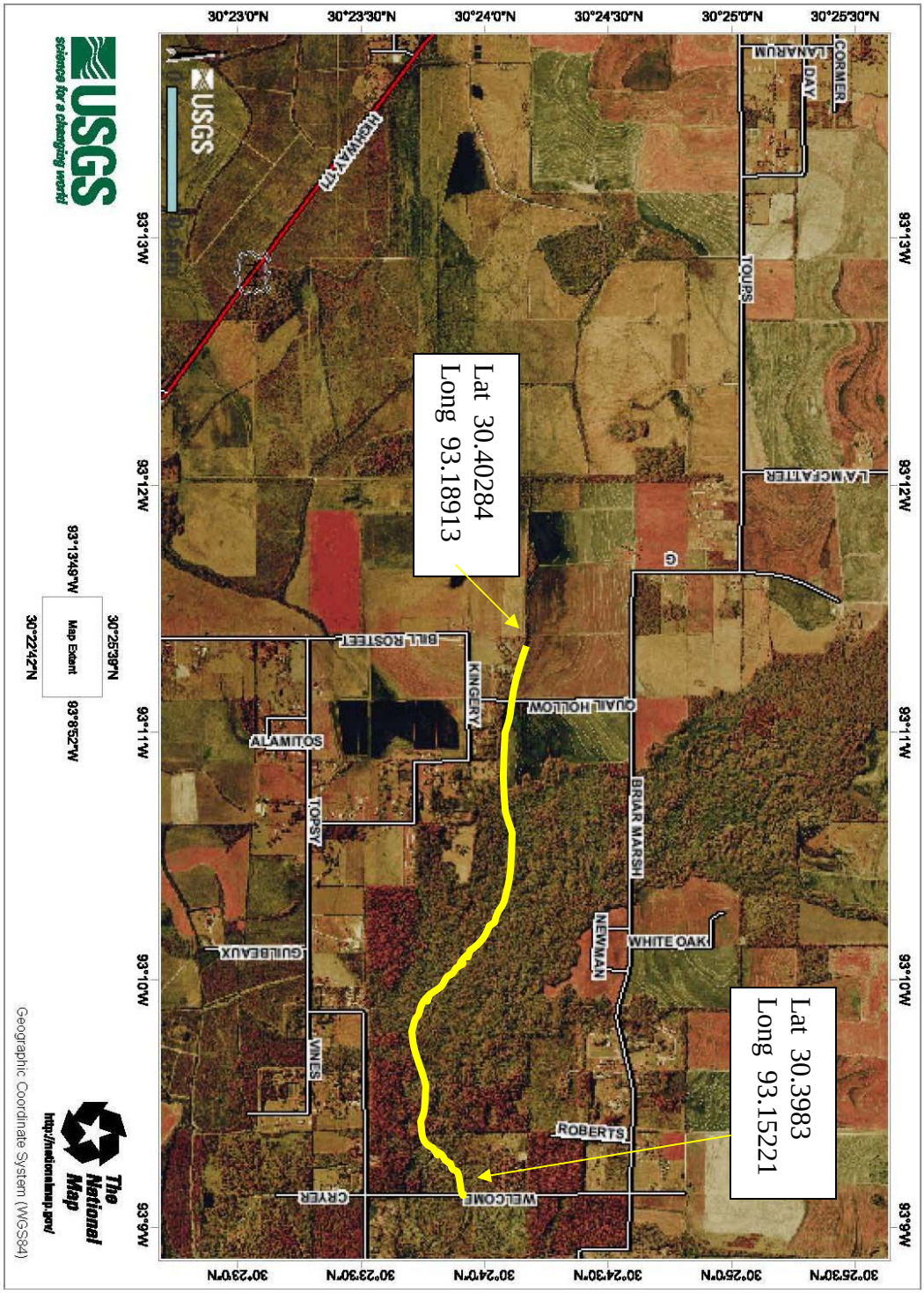
Calcasieu Parish

DSR# 019-05-007R

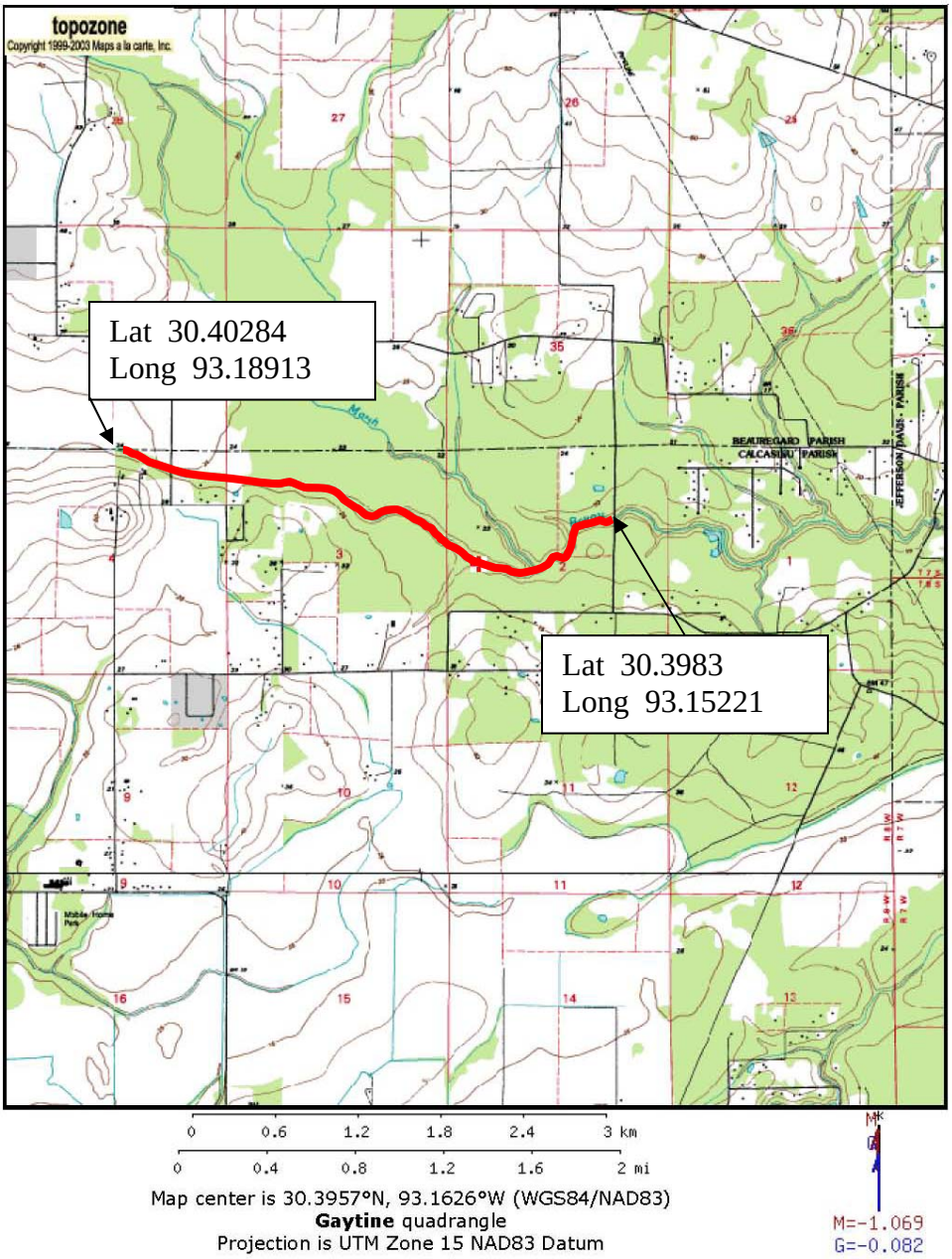
Briar Marsh Bayou (BM1)



SITE MAP
DSR 019-05-007R
BRIAR MARSH BAYOU (BM1)
Calcasieu Parish
Estimated Reach Length 6,900 LF



TOPO MAP
DSR 019-05-007R
BRIAR MARSH BAYOU (BM1)
Calcasieu Parish
Estimated Reach Length 6,900 LF

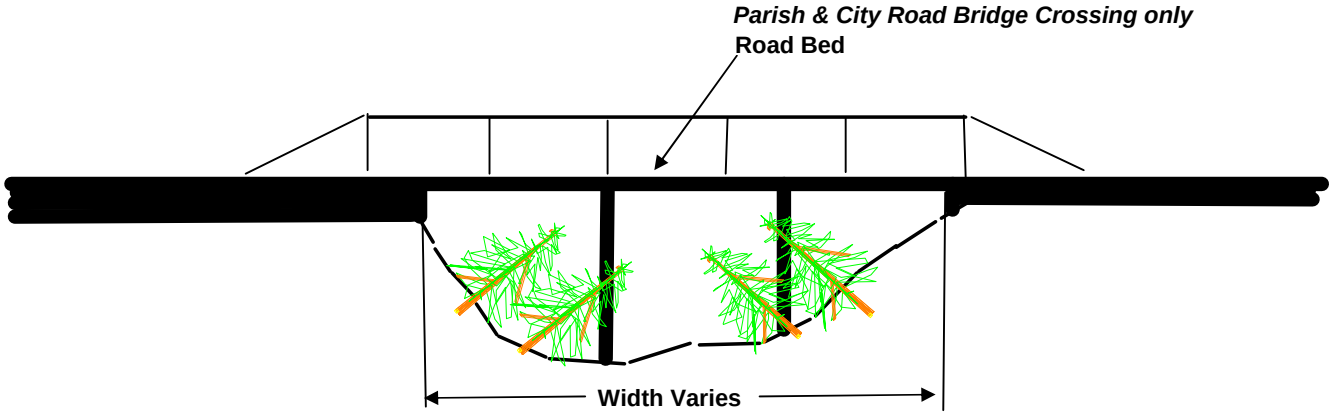


DSR NO: 019-05-007R

CHANNEL: BRIAR MARSH BAYOU (BM1)

PARISH/SPONSOR: GRAVITY DRAINAGE DISTRICT #8

Debris Removal



Note: Contract is to remove Debris from upstream and downstream Bridge which includes underside of bridge
Exception: All Crossing which cross State or Federal highways are not included in contract

Typical Road Bridge Crossing
Not to Scale

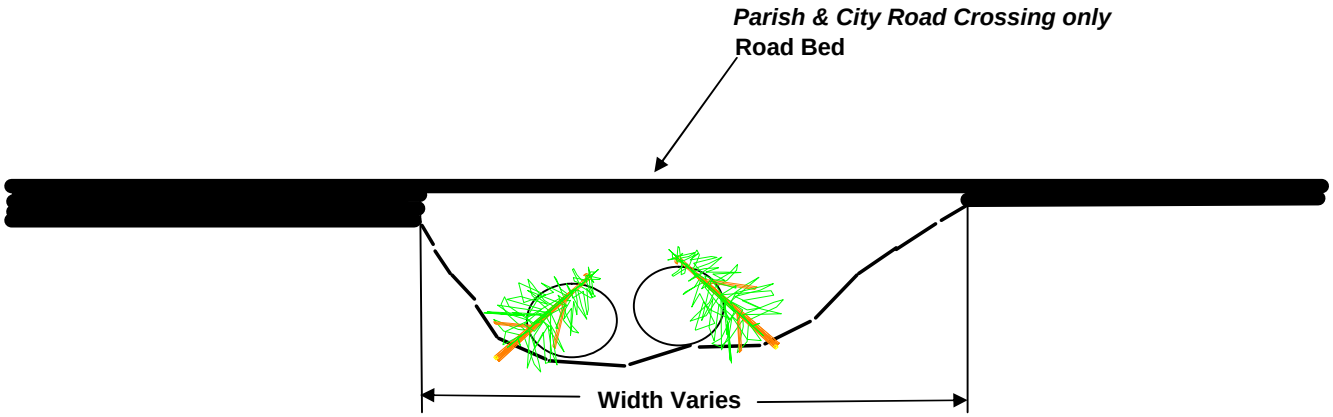
Notice:
48 Hours Before Digging
Call 1-800-272-3020

DSR NO: 019-05-007R

CHANNEL: BRIAR MARSH BAYOU (BM1)

PARISH/SPONSOR: GRAVITY DRAINAGE DISTRICT #8

Debris Removal



Note: Contract is to remove Debris from upstream and downstream Culverts which includes inside of culverts
Exception: All Crossing which cross State or Federal highways are not included in contract

Typical Road Culvert type Crossing
Not to Scale

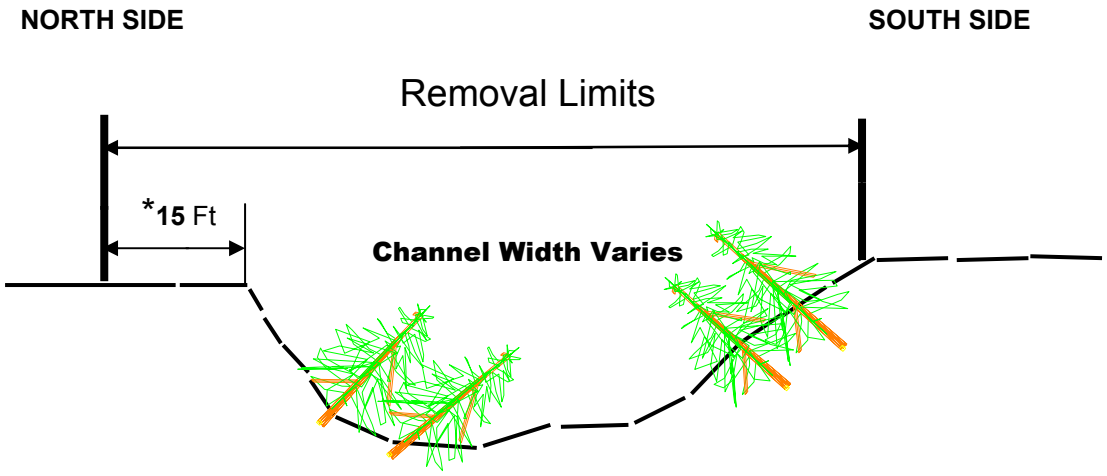
Notice:
48 Hours Before Digging
Call 1-800-272-3020

DSR No: 019-05-007R

CHANNEL: BRIAR MARSH BAYOU (BM1)

PARISH/SPONSOR: GRAVITY DRAINAGE DISTRICT #8

Debris Removal



Typical Section Not to Scale

Notice:
48 Hours Before Digging
Call 1-800-272-3020

***Note**: *Rights of way on north side only, except in locations where structures do not permit as concurred in by the COTR*

Exception *it may be possible that trees which were located outside of the the rightaway may have fallen into the right of way, these trees will be remove which may be located outside of the right of way.*

Channel Obstruction Evaluation

SITE INFORMATION			
Parish: CALCASIEU		Site: BRIAR MARSH CHANNEL	
City: GILLIS			
Sponsor:		Reach:	From - 6+00
Date: 10/24/05			To - 199+06
Evaluation Team:			SEE ATTACHED MAP

PHOTO NUMBERS AND BRIEF DESCRIPTION		WAYPOINTS (CIRCLE location and record in Decimal Degrees	
Photo #	Description	Start Work (D/S end)	N 30.40284 W093.18913
	SEE ATTACHED PHOTOS AND DESCRIPTIONS	Midstream	
		End Work (U/S end)	~~W~~N 30.39774 W093.12836

NEARBY AND UPSTREAM STRUCTURES (Fill in Numbers, Values, and Size			
CHURCHES	SCHOOLS	PUBLIC FACILITIES	
No. of Churches SEE ATTACHED	No. of Schools	No. of Public Facilities	
~~HOMESITES~~		BUSINESSES	
No. of Homesites		No. of Businesses	
Average Value of Homes (X $1,000)		Size of Businesses	S M L

STREAM CROSSINGS (CIRCLE type and write material, size and length		
TYPE	MATERIAL	NUMBER, SIZE, & LENGTH
Bridge		
Culverts		
Other or None		

UTILITIES (CHECK the location of the utilities in the area and CIRCLE stream orientation)			
	Overhead (Power, Cable, etc.)	U/S	D/S
	Buried (Gas, Sewer, water, etc.)	U/S	D/S
	Elevated Cross channel (Water, Gas, etc.)	U/S	D/S
Remarks:			

CHANNEL CHARACTERISTICS (CHECK appropriate box for slope and fill in dimensions information				FLOW
SLOPES		DIMENSIONS		Is Water Flowing?
✓	1.5 : 1 or steeper	Top Width (ft.)	40'	YES NO
	1.5 : 1 through 3 : 1 Slope	Bottom Width (ft.)	15'	Is debris accumulating? (i.e. Leaves, Trash)
	Flatter than 3 : 1	Depth (ft.)	12'	YES NO

STATEMENT OF PROBLEM (CHECK the boxes as needed, and CIRCLE the size of debris that applies)						BLOCKAGE
DEBRIS	IN CHANNEL	ACROSS CHANNEL	SIZE OF DEBRIS			% of X-Section Obstructed:
Pine Trees						
Hardwoods	✓	✓	Light	Moderate	Heavy	Less than 25% 26%-50% 51%-75% 76%-100%
Shrubs						
Other (explain)						

WORK METHOD AND LOCATION (CHECK the box that best applies,	
	Within Channel Floating Equipment (i.e. Barge or Marsh Buggy)
	Within Channel Non - Floating Equipment (Excavator/Track-hoe, Spider, etc)
	From Top Banks
~~ACCESS TO SITE~~	(Explain access issues and possible difficulties)

Calcasieu Parish Briar Marsh Bayou, Gillis, LA	**DSR No:** 019-05-007R **Section 5 Engineering Cost Estimate Worksheet** **Preferred Method**	Selected Alternative
Completed By: Brandon Samson		**Date:** 9-Nov-05

Type of Work: Debris Removal

Location of Work:

Township(s)	Range(s)	Section(s)	Quadrangle(s)
			Hammond, Ponchatoula

	Briar Marsh Bayou	
	Latitude	*Longitude*
Downstream Start:	30.39835	93.15221
Upstream End:	30.40284	93.18913

Estimated Length of Work Segment (ft): 6,900

Item No.	Proposed Recovery Measure	Quantity	Units	Unit Cost	Amount
1	Mobilization & Demobilization	1	LS	$10,000.00	$10,000
2	Channel Obstruction Removal	6,900	LF	$11.50	$79,350
3	Seeding, Sprigging and Mulching	3	AC	$800.00	$2,400
4					$0
5					$0

Note: Estimated cost of debris removal includes labor and hauling of material to landfill.

Total Estimated Construction Cost **$91,750**

Performance Time:

Production Rate	Segment Length	Production Time	Contract Time
750 Ft/Day	6,900 Ft	9.20 Days	10 Days

Estimated Cost of Equipment with Labor *(Per Mike Kennedy's Email 09/22/04)*

Description of Work:	Cost per LF
Light	$11.50

Estimated Cost of Seeding with Labor

Segment Length	Segment Width	No.of Segment	Acres	Cost per Ac	**Total Cost**
6,900 Ft.	15 Ft.	1	3	$800	$2,400

Comments:

Proposed Action - debris removal using conventional equipment, access from one side of channel.

Eng worksheet Preferred