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 ☐ NO ☐
Approved: YES ☐ NO ☐
Funding Priority Number (from Section 4) ____
Limited Resource Area: YES ☐ NO ☐

Section 1A

Date of Report: 10/26/2005

DSR Number: 019-05-052R Project Number: GDD 4, W 3

Section 1B Sponsor Information

Sponsor Name: Gravity Drainage District 4 Ward 3

Address: 1204 Lakeshore Drive

City/State/Zip: Lake Charles/ LA 70601

Telephone Number: 337-433-1160 Fax: 433-7661

Section 1C Site Location Information

County: Calcasieu State: LA Congressional District: 07

Latitude Start: 30.17128 Stop: 30.16533 Longitude Start: 93.23824 Stop: 93.23693 Section: 24, 25 Township: 10-S Range: 9-W

UTM Coordinates: ____

Drainage Name: L-2 of W-20 Reach: Stanley Street, south past Club Road (2500 ft.)

Damage Description: Drainage is impeded by downed trees, brush and debris in channel and on banks

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: Local Gravity Drainage District has been consulted.

* 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.

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Section 1E Proposed Action

Describe the preferred alternative from Findings: Section 5 A:

Remove debris from channel and flood plain, accessing from one side of channel, dispose of debris in an approved land fill.

Total installation cost identified in this DSR: Section 3: $ 43,525.00

Section 1F NRCS State Office Review and Approval

Reviewed By: _____ Date Reviewed: _____
State EWP Program Manager

Approved By: _____ Date Approved: _____
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: 019-05-052R

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	20 tons/acre - exposed soil due to damage	5 tons/acre - remove debris, allow revegeetation	20 tons/acre - potential for further damage from debris	5 t/ac - rem debris, allow reveg
Compaction	N/A	slight increase due to equipment use	N/A	moderate increase equip. use
Water				
Downstream water rights				
DO	potential decrease in DO due to excess storm debris	increase DO through removal of excess storm debris	potential decrease in DO due to excess storm debris	potential decrease in DO due to excess storm debris
overall stream health	SVAP - 3	SVAP - 4	SVAP-2	SVAP-4
Air				
particulate matter/dust	no effect	slight inc due debris removal	no effect	moderate inc due to debris removal
Plant				
Aquatic health/vigor	Poor - low water quality	Increase function with improved water quality	Poor - low 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	Improve - remove clutter
Vectors	pools of stagnant water due to debris in channel	Restore natural flow- dc vec	pools of stagnant water	restore natural flow-dc vec

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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 Jurisdiction - decreased water quality and altered hydrology	CWA permit needed - improve water quality/ restore hydrology	continued decrease in water quality with debris composition and altered hydrology	CWA permit needed - improve water quality/ restore hydrology
Coastal Zone Management Areas	not within the Coastal Zone	N/A	N/A	N/A
Coral Reefs	no coral reefs present in project area	N/A	N/A	N/A
Cultural Resources	State level review - none observed on-site	State level review - none observed on-site	State level review - none observed on-site	State level review - none observed on-site
Endangered and Threatened Species	2 T&E spp listed for Parish in FOTG - none likely to occur on-site	N/A	N/A	N/A
Environmental Justice	Area is of median to high income properties	N/A	N/A	N/A
Essential Fish Habitat	(FOTG) No EFH	N/A	N/A	N/A
Fish and Wildlife Coordination	Debris in channel restricting water flow resulting in various impairments	Proposed action does not include modification of the channel	N/A	Alternative does not include modification of the channel
Floodplain Management	Project area occurs within 100-year floodplain with function impaired by excess debris	Debris removal restore floodplain function	Continued floodplain impairment	Debris removal restore floodplain function
Invasive Species	Chinese tallow, Japanese honeysuckle, Chinese privet, Mimosa w/in floodplain	No increase or decrease in invasive species due urban location	No increase or decrease in invasive species due urban location	No increase or decrease in invasive species due urban location
Migratory Birds	Slight decrease in available habitat due to storm event	No additional effects to MBTA habitat from proposed action due to urban location	Excess debris contribute to increased flooding and decrease in available habitat	No additional effects to MBTA habitat from proposed action due to urban location
Natural Areas	No natural areas present in project area	N/A	N/A	N/A
Prime and Unique Farmlands	Stream channel within urban setting	N/A	N/A	N/A
Riparian Areas	Slight decrease in the riparian zone along channel - urban setting with limited riparian area	No additional effects to riparian area from proposed action due to urban location	Continued damage contribute to decrease in riparian area	No additional effects to riparian area from alternative action due to urban location
Scenic Beauty	No designated areas of Scenic Beauty within project area	N/A	N/A	N/A
Wetlands	No wetlands in project area - Highly developed urban location	N/A	N/A	N/A
Wild and Scenic Rivers	One Scenic River in Parish but does not occur in project area	N/A	N/A	N/A

Completed By: Monica Wallace Date: 10/25/2005

DSR NO: 019-05-052R

Section 2F Economic

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)	30,500,000.00	10	3,050,000.00
Properties Protected (Public)			
Business Losses	1,500,000.00	10.00	150,000.00
Other	500,000.00	10	50,000.00
	40,000.00	10	4,000.00
Total Near Term Damage Reduction $			3,254,000.00
Net Benefit (Total Near Term Damage Reduction minus Cost from Section 3)			3,210,475.00

Completed By: Daniel D. Claussen Date: 10/25/2005

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, impedment could impact Club Road

Completed By: Daniel D. Claussen Date: 10/25/2005

DSR NO: _____
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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	0
American Indian/Alaska Native Female Non-Hispanic	0
American Indian/Alaska Native Male Hispanic	0
American Indian/Alaska Native Male Non-Hispanic	2
Asian Female Hispanic	0
Asian Female Non-Hispanic	8
Asian Male Hispanic	0
Asian Male Non-Hispanic	8
Black or African American Female Hispanic	0
Black or African American Female Non-Hispanic	43
Black or African American Male Hispanic	0
Black or African American Male Non-Hispanic	44
Hawaiian Native/Pacific Islander Female Hispanic	0
Hawaiian Native/Pacific Islander Female Non-Hispanic	0
Hawaiian Native/Pacific Islander Male Hispanic	0
Hawaiian Native/Pacific Islander Male Non-Hispanic	0
White Female Hispanic	0
White Female Non-Hispanic	261
White Male Hispanic	0
White Male Non-Hispanic	262
Total Group	610

Census tract(s) 19.02 Blocks 3013,3023,4000

Completed By: Daniel D. Claussen Date: 10/25/2005

DSR NO: 019-05-052R

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 because of slight potential to grub stumps during debris removal.
404 Permit Required
Access will be from only one side sponsors are required to obtain permission from individual land owners.

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 landfill. Proposed action will eliminate stagnant pools in the channel, reducing vector/disease potential. Action will be completed without interruption to reduce impact on nearby residencies

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

Corps of Engineers - permit required
LA DEQ - certification required
LDWF - consultation only

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Section 3 Engineering Cost Estimate

Completed By: Daniel D. Claussen Date: 10/25/2005

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, accessing from one side of channel, dispose of debris in an approved land fill				0.00
Mobilization & Demobilization	1	LS	10,000.00	10,000.00
Channel Obstruction Removal	2,500	LF	13.25	33,125.00
Seeding, Sprigging, & Mulching	2	Ac	200.00	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)$				43,525.00

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: 019-05-052R

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?	✔	☐		1 d,e
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?			No	
b. Will the proposed action or alternatives protect or conserve cultural sites listed on the National Register of Historic Places?			No	
c. Will the proposed action or alternatives protect or conserve prime or important farmland?			No	
d. Will the proposed action or alternatives protect or conserve existing wetlands?			Yes	
a. Will the proposed action or alternatives maintain or improve current water quality conditions?			Yes	
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?			No	

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

Remarks:

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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

Title: Charles Stephens Date: 11-1-05

Section 5B Comments: Disposal site will be determined in cooperation with sponsor prior to bid letting.

Section 5C **Sponsor Concurrence:**

Sponsor Representative

Title: Michael L. Watts Date: 11/08/05

Section 6 Attachments:

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

- Accessing channel will be from either side, as directed by GDD4 W3 personnel, prior to commencement of work.
- Any damages to utilities, especially sewer + water, shall be repaired by the contractor, at his cost.
- All locations will be restored to pre storm conditions, as near as possible.

INSTRUCTIONS FOR COMPLETING THE NRCS-PDM-20, DSR

	Explanation of Requested Item	Who Completes
Section 1	Enter Site Sponsor, Location, Evaluation, Selected Alternative, and Reviewed and Approval Signatures.	NRCS completes with voluntary assistance from Sponsor except for NRCS only portion of Section 1A.
1A	Enter the Date, DSR Number, Project Number. For NRCS only enter Eligible Yes/No, Approved Yes/No, Funding Priority Number, and Limited Resource Area Yes/No.	
1B	Enter Sponsor Name, Address, Telephone, Fax	
1C	Enter site location County, State, Congressional District, Latitude, Longitude, Section, Township, Range, UTM Coordinates, Drainage Name, Reach within drainage, and Damage Description.	
1D	Enter Yes/No and any Remarks for the Site Evaluation information. Any No response means the site is not eligible for EWP assistance and no further information is necessary to complete the DSR. (See NEWPPM 390-502.03 and 390-502-04) Enter Yes/No regarding whether the affected public has been informed of the EWP program.	
1E	Enter the proposed treatment and the cost of installation.	NRCS only.
1F	NRCS Review and Approval.	

	Explanation of Requested Item	Who Completes
Section 2	Use available natural resource, economic, and social, information, including the EWP Programmatic Environmental Impact Statement (PEIS), to briefly describe the effects of the alternatives to the proposed action including the "no action" alternative. Typically, the proposed action and no action are the alternatives considered for EWP recovery measures due to the focus on repairing or preventing damages within a watershed. However, in cases where additional alternatives are considered, include all pertinent information to adequately address the additional alternatives (e.g., proposed action would be bio-engineering for bank stabilization, no action alternative, and an additional alternative may be riprap for bank stabilization). Do not leave blanks where a consideration is not applicable, use NA to indicate the factor was considered but not applicable for the alternative.	NRCS completes with voluntary assistance from Sponsor.
2A	List all resource concerns which are relevant to the area of the proposed action and alternatives. Refer to National Bulletin 450-5-8 TCH-COMPLETING AND FILING MEASUREMENT UNITS FOR RESOURCE CONCERNS IN THE FIELD OFFICE TECHNICAL GUIDE (FOTG). Note: the affected area may extend beyond the construction foot print (ex. where water quality or water rights are affected downstream of the site).	
2B	Provide a brief description of the present condition of each resource concern listed in 2A. Quantify conditions where possible. Reference accompanying photo documentation.	
2C	Briefly summarize the practice/system of practices being proposed, as well as the "no action" alternative, and any other alternatives being considered. The "no action" alternative is the predicted future condition if no action is taken.	
2D	Document the efforts of the proposed action and alternatives for the considerations listed in 2A. Reference applicable quality criteria, information in the CPPE, and quantify effects whenever possible. Consider both long-term and short-term effects. Consider any effects which may be individually minor but cumulatively significant at a larger scale or over an extended time period. Clearly define the differences between proposed action, no action, and the other alternatives.	

2E	Enter Special Environmental Concerns for Clean Water Act Waters of the U.S., Coastal Zone Management Areas, Coral Reefs, Cultural Resources, Endangered and Threatened Species, Environmental Justice, Essential Fish Habitat, Fish and Wildlife Coordination, Floodplain Management, Invasive Species, Migratory Birds, Natural Areas, Prime and Unique Farmlands, Riparian Areas, Scenic Beauty, Wetlands, and Wild and Scenic Rivers for each alternative considered. In the case where the selected alternative from Section 5A impacts a Special Environmental Concern, additional information, coordination, permitting or mitigation may be required and adequate documentation should be prepared and attached to the DSR to identify how NRCS or the Sponsor addressed the concern	
2F	Identify Property Protected both private and public, business losses and other economic impacts considered for each alternative. Enter the dollar value of the potential future damages if no action is taken in the Future Damage (5) column. This would be the estimate of the value lost if the EWP recovery measure is not installed. Use the repair cost or damage dollar method to determine the estimate of future damages. The repair cost method uses the costs to return the impaired property, good, or services based on their original pre-event condition or value. The damage dollar method uses an estimate of the future damage to value (e.g. if the structure is condemned, then enter the value of the structure). Enter the estimated amount based upon existing information or information furnished by the sponsor, contractors or others with specific knowledge for recovery from natural disasters for each alternative considered. Often market values for properties or services can be obtained from personnel at the local county/parish tax assessment office. The DSI team needs to determine the Damage Factor (%) which is a coefficient that indicates the degree of damage reduction to a property that is attributed to the effect of the proposed EWP recovery measures. Use an appropriate estimate of how much of the damage the EWP recovery measure will avoid for the alternative being considered. If the recovery measures from a single site will prevent 100 percent of the damage use 100 percent. The Near Term Damage Reduction is the Future Damage ($) times the Damage Factor (%). Sum the Near Term Damage Reduction values to calculate the Total Near Term Damage Reduction. Enter the Net Benefit which is computed by subtracting the Cost from section 3 from the total near term damage reduction. The economic section must be completed for each alternative considered. Attach additional sheets as necessary.	
2G	Enter information to describe the potential social impacts and considerations for each alternative. Answer Yes or No and any remarks necessary to adequately address each question. The information may be obtained through interviews with community leaders, government officials or sponsors. Factors such as road closures, loss of water, electricity, access to emergency services are used when answering whether the community as a whole has been impaired. This information is part of the environmental evaluation portion of the DSR but may be pertinent in Section 4 regarding priorities. The Social Considerations Section must be completed for each alternative considered. Attach additional sheets as necessary.	
2H	Enter the Group Representation Information for the preferred alternative. Use the most recent census tract information based upon where the EWP recovery measures are located.	Sponsor completes.

2I	Enter whether easement, permissions, or permits, and mitigation will require consultation or coordination for the selected alternative (e.g., Clean Water Act section 404 permit, Endangered Species Act section 10 permits, and any State or county permits or requirements). Describe mitigation to be applied that will offset any adverse impacts and attach any documentation from other agencies regarding mitigation requirements.	NRCS completes with voluntary assistance from Sponsor.

	Explanation of Requested Item	**Who Completes**
Section 3	Enter Proposed Recovery Measure(s) including Quantity, Units, Unit Cost, and Total Amount Cost. Enter sum of all Proposed Recovery Measure Costs to calculate Total Costs. Enter Total Installation Costs in Section 1F. The Engineering Cost Estimate must be completed for each alternative considered. Attach additional sheets as necessary.	NRCS completes with voluntary assistance from Sponsor.

	Explanation of Requested Item	**Who Completes**
Section 4	This section is used to determine the Funding Priority for the preferred alternative and sequence for initiating recovery measures. Enter Yes/No for questions 1 through 4 and enter the number (exigency 1, serious threat to human life 2, etc.) in the right column, Ranking Number Plus Modifier. Complete the Modifier portion by placing the alphabetic indicator a. through f. in the Modifier column. Complete the Ranking Number Plus Modifier column by entering the alphabetic indictor(s) that exists within the site. The number of the site designates the priority (e.g., a site with a designation of 2 is a higher priority that a site with a designation of 3). The modifiers increase the priority for the same numeric site (e.g., a site with a designation of 1a, would be a higher priority than a site with a designation of 1, a site with a designation of 2bc would be a higher priority than a site designated as 2b). Enter the Funding Priority in Section 1A.	NRCS completes with voluntary assistance from Sponsor.

	Explanation of Requested Item	**Who Completes**
Section 5	Enter the Findings, Rationale Supporting Findings, NRCS Representative signature and Comments, and Concurrence signature by the Sponsor(s).	NRCS completes.
5A	Indicate the preferred alternative and check the applicable finding being made. The NRCS Representative signs indicating the Finding selected. If the proposed action was adequately addressed in the PEIS, check all appropriate chapter paragraphs.	
5B	Enter any additional Comments.	
5C	Sponsor(s) review and concurrence.	Sponsor(s) signature.

Section 6	Include attachments for location map, site sketch or plan and other information as needed.	NRCS completes with voluntary assistance from Sponsor.

SECTION 6

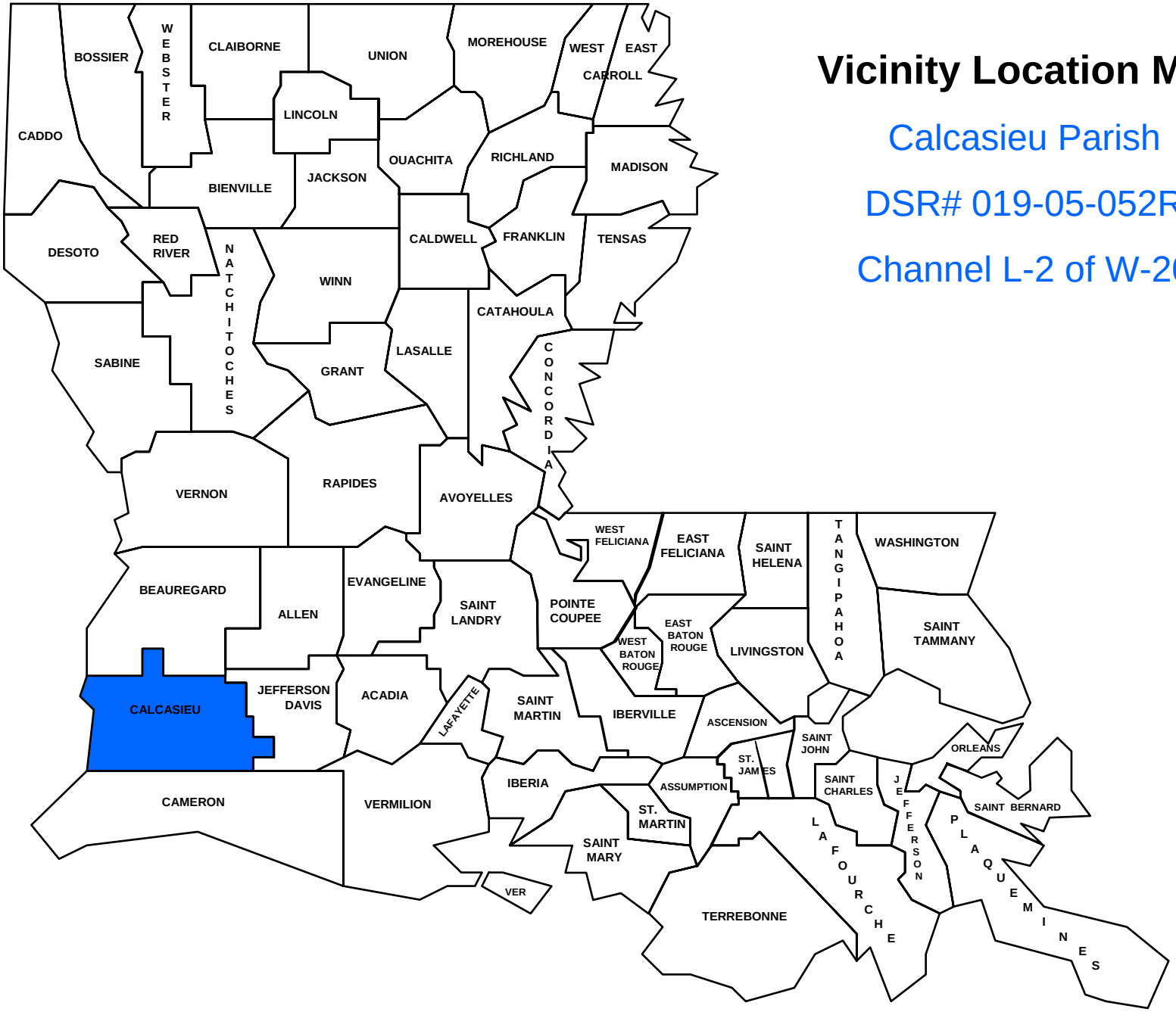
ATTACHMENTS

Vicinity Location Map

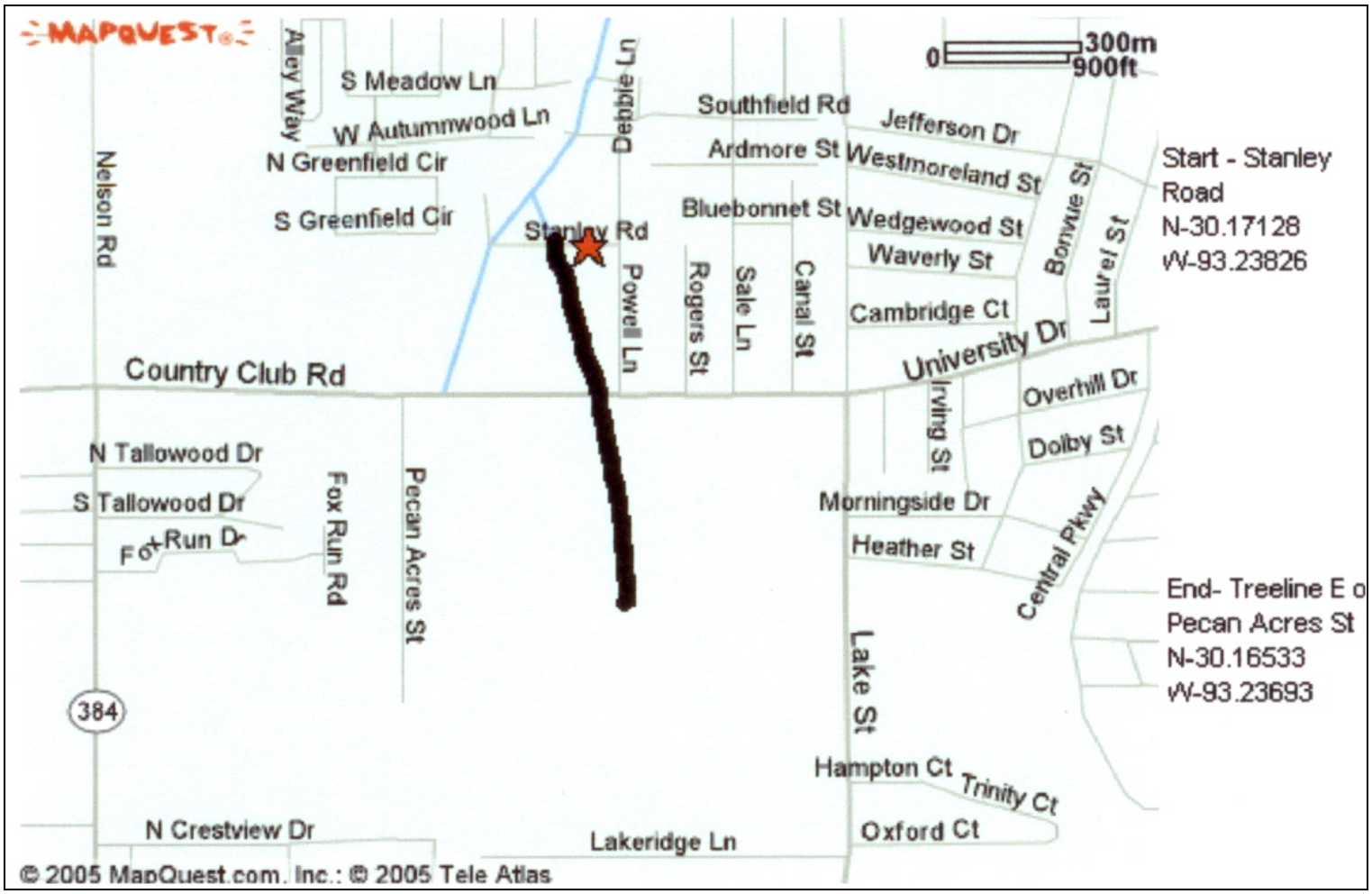
Calcasieu Parish

DSR# 019-05-052R

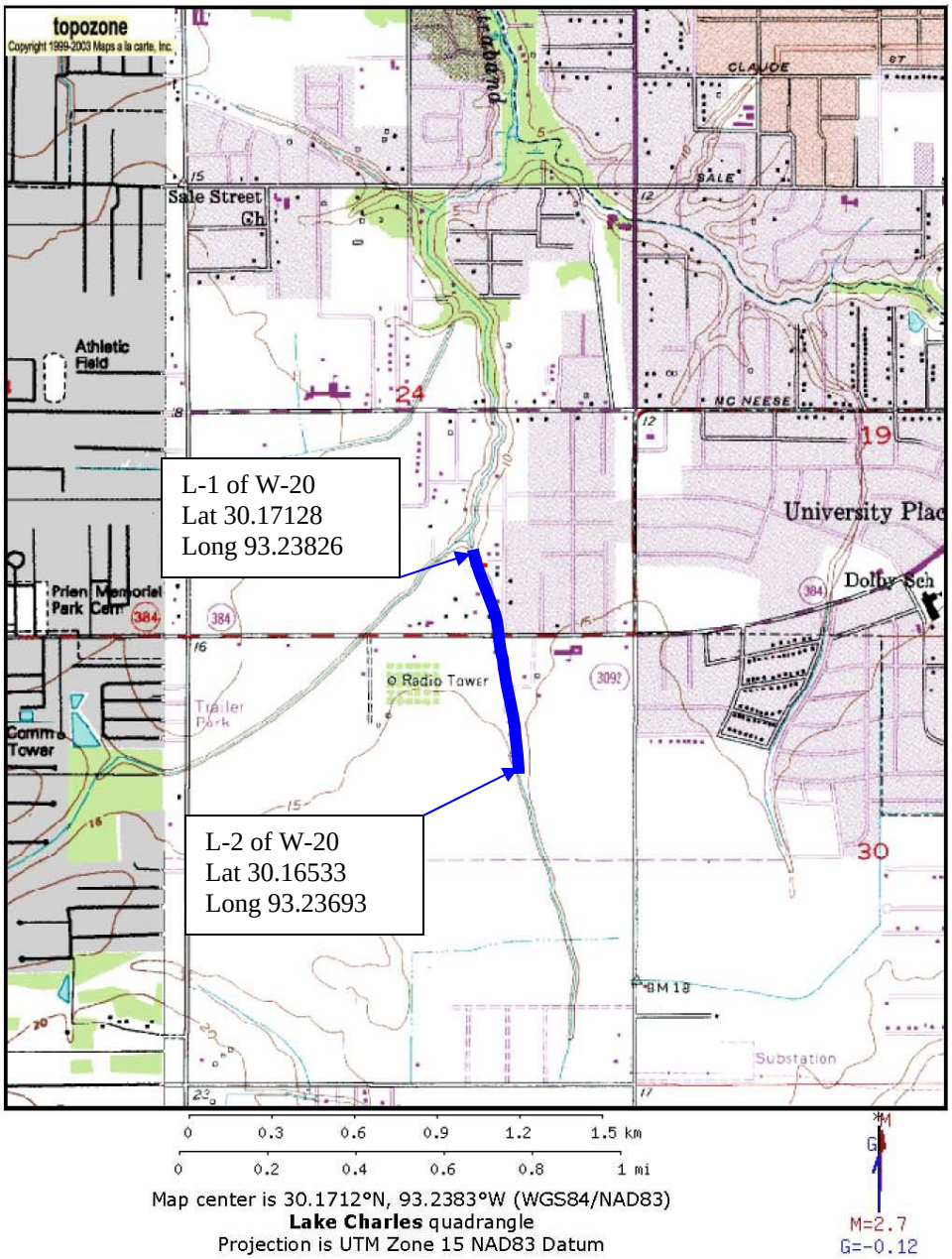
Channel L-2 of W-20



SITE MAP
DSR 019-05-052R
Channel L-2 of W-20
Calcasieu Parish
Estimated Reach Length 2,500 LF



TOPO MAP
DSR 019-05-052R
Channels L-2 & W-20
Calcasieu Parish
Estimated Total Reach Length 2,500 LF



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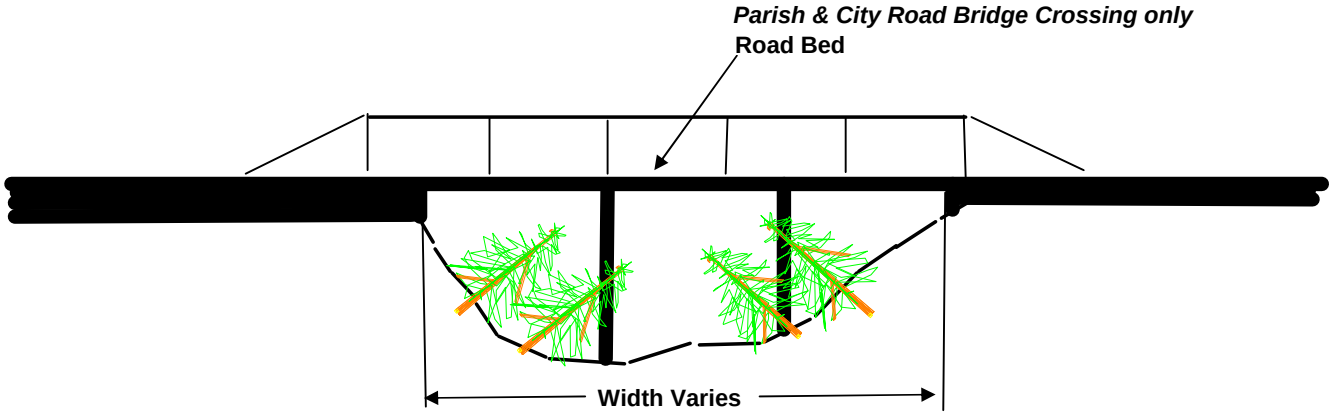
DSR NO: 019-05-052R

CHANNEL: L-2 of W-20

PARISH/SPONSOR: Gravity Drainage District #4

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

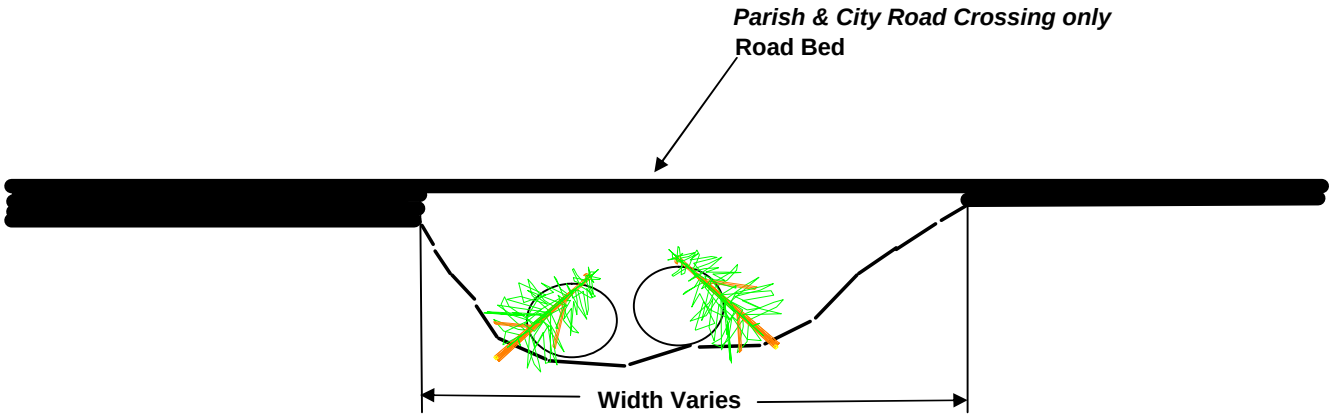
Notice:
48 Hours Before Digging
Call 1-800-272-3020

DSR NO: 019-05-052R

CHANNEL: L-2 of W-20

PARISH/SPONSOR: Gravity Drainage District #4

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

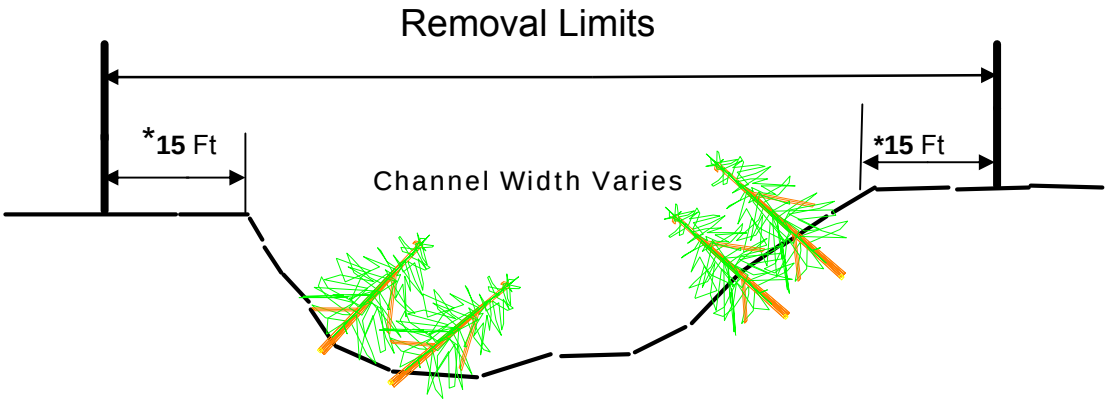
Notice:
48 Hours Before Digging
Call 1-800-272-3020

DSR NO: 019-05-052R

CHANNEL: L-2 of W-20

PARISH/SPONSOR: Gravity Drainage District #4

Debris Removal



Typical Section Not to Scale

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***Note** :Rights of way on both sides*

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

Calcasieu Parish Channel Channel L-2 of W-20 Stanley St Crossing South to End of Tree Vegetation	**DSR No:** 019-05-052R **Section 5 Engineering Cost Estimate Worksheet**	Selected Alternative
Completed By: Daniel D. Claussen		**Date:** 25-Oct-05

Type of Work: Debris Removal

Location of Work:

Township(s)	Range(s)	Section(s)	Quadrangle(s)
10S	9W	24,25	Lake Charles

	Stanley St		*End of Work*			
	Latitude	*Longitude*	*Latitude*	*Longitude*	*Latitude*	*Longitude*
Downstream Start:	30.17128	93.23826	30.16533	93.23693		
Upstream End:						

Estimated Length of Work Segment (ft): 2,500

Item No.	Proposed Recovery Measure	Quantity	Units	Unit Cost	Amount
1	Mobilization & Demobilization	1	LS	$10,000.00	$10,000
2	Channel Obstruction Removal	2,500	LF	$13.25	$33,125
3	Seeding, Sprigging and Mulching	2	AC	$200.00	$400
4					$0
5					$0

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

Total Estimated Construction Cost **$43,525**

Performance Time:

Production Rate	Segment Length	Production Time	Contract Time
750 Ft/Day	2,500 Ft	3.33 Days	4 Days

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

Description of Work: Light with Complexities

Cost per LF
$13.25

Estimated Cost of Seeding with Labor

Segment Length	Segment Width	No.of Segment	Acres	Cost per Ac	**Total Cost**
2,500 Ft.	15 Ft.	2	2	$200	$400

Comments:

Selected Alternative involves both sides of channel and 15 ft. of top bank and removing only debris obstructing channel section, NOT floodplains. Measured 15' from Centerline to either side. Work will extend from Stanley Road South through Club Road till edge of treeline. Clearing along bank will be required in areas impacted south of Club Road.

Channel Obstruction Evaluation

SITE INFORMATION			
Parish: Calcasieu	Site: 019-05-052R		
City: LAKE CHARLES			
Sponsor: GOD 4 W3	Reach:	From - Stanley St	
Date: 25Oct05		To - S of County St	
Evaluation Team: CLAUSSEN			

PHOTO NUMBERS AND BRIEF DESCRIPTION		WAYPOINTS (CIRCLE location and record in Decimal Degrees	
Photo #	Description	Start Work (D/S end)	N 30.16533
	SEE ATTACHED	Midstream	
		End Work (U/S end)	W 93.23693

NEARBY AND UPSTREAM STRUCTURES (Fill in Numbers, Values, and Size					
CHURCHES		SCHOOLS		PUBLIC FACILITIES	
No. of Churches	1	No. of Schools	0	No. of Public Facilities	6
HOMESITES		BUSINESSES			
No. of Homesites	305	No. of Businesses	3		
Average Value of Homes (X $1,000)	100,000	Size of Businesses	(S) M L		

STREAM CROSSINGS (CIRCLE type and write material, size and length		
TYPE	MATERIAL	NUMBER, SIZE, & LENGTH
Bridge	CONCRETE	1-50'-40'
Culverts	CMP	2-3'-Unk
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 informatio				FLOW	
SLOPES		DIMENSIONS		Is Water Flowing?	
	1.5 : 1 or steeper	Top Width (ft.)	30	YES	(NO)
X	1.5 : 1 through 3 : 1 Slope	Bottom Width (ft.)	10	Is debris accumulating? (i.e. Leaves, Trash)	
	Flatter than 3 : 1	Depth (ft.)	4	(YES)	NO

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

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)
X	From Top Banks
ACCESS TO SITE	(Explain access issues and possible difficulties)
Heavily Wooded South of Club Road Clearing will be needed	