



Draft Environmental Assessment

Forked Island/East Broussard Elementary School Flood Protection Project, Abbeville, LA

Vermilion Parish, Louisiana
HMGP 1603-0004

FEMA-1603-DR-LA

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TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
1.0 INTRODUCTION	1
1.1 Project Authority	1
1.2 Project Location	1
2.0 PURPOSE AND NEED	3
3.0 ALTERNATIVES	4
3.1 Alternative 1- No Action	4
3.2 Alternative 2- Proposed Action	4
3.3 Alternatives Eliminated From Further Consideration	6
4.0 AFFECTED ENVIRONMENT AND IMPACTS	7
4.1 Impact Summary	7
4.2 Water Resources	16
4.2.1 Hydrology and Floodplains	16
4.2.2 Surface Water and Water Quality	20
4.3 Noise	23
4.4 Public Safety and Access	24
4.5 Traffic and Transportation	24
5.0 CUMULATIVE IMPACTS	25
6.0 CONDITIONS AND MITIGATION MEASURES	26
7.0 PUBLIC INVOLVEMENT	28
8.0 AGENCY COORDINATION	28
9.0 LIST OF PREPARERS	28
10.0 REFERENCES	29

LIST OF FIGURES

Figure 1: Proposed Project Site Location in Vermilion Parish, Louisiana	2
Figure 2: Main Features of the Proposed Forked Island/East Broussard Elementary School Flood Protection Project	3
Figure 3: Project Effective DFIRM 22113C 0475F	16
Figure 4: Topographic Map of Surface Water Drainage in Project Area	21
Figure 5: Drainage Map of the Project Area	22
Figure 6: Project Vicinity Map	23

LIST OF TABLES

Table 1: Affected Environment and Environmental Consequences Matrix	8
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APPENDICES

- Appendix A Site Photographs
- Appendix B Agency Correspondence
- Appendix C 8-Step Process, FEMA Approval for Evaluation of a V-Zone Construction Project, Wave Run-up Model, Simplified H&H Study, and CLOMR Application
- Appendix D Public Notice

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LIST OF ACRONYMS

ABA	Architectural Barriers Act
ABFE	Advisory Base Flood Elevation
ACHP	Advisory Council on Historic Preservation
ADA	Americans with Disabilities Act of 1990, as Amended
AI	Agency Interest
BFE	Base Flood Elevation
BOD	Biochemical Oxygen Demand
BMP	Best Management Practices
CBRS	Coastal Barrier Resources System
C-CAP	Coastal Change Analysis Program
CFR	Code of Federal Regulations
CHHA	Coastal High Hazard Area
CLOMR	Conditional Letter of Map Revision
CWA	Clean Water Act
CY	Cubic Yard
DFIRM	Digital Flood Insurance Rate Map
DHH	Louisiana Department of Health and Hospitals
DMR	Discharge Monitoring Report
DOTD	Louisiana Department of Transportation and Development
EA	Environmental Assessment
EIS	Environmental Impact Statement
EPA	Environmental Protection Agency
FEMA	Federal Emergency Management Agency
FONSI	Finding of No Significant Impact
GOHSEP	Governor's Office of Homeland Security and Emergency Preparedness
GPD	Gallons per Day
GPM	Gallons per Minute
GSA	General Services Administration
H&H	Hydrology and Hydraulics
HMGP	Hazard Mitigation Grant Program
IBC	International Building Code
LDEQ	Louisiana Department of Environmental Quality
LDEQ EDMS	LDEQ Electronic Document Management System
LDEQ LUST	LDEQ Leaking Underground Storage Tank Database
LDEQ VRP	LDEQ Voluntary Remediation Program Database
LDNR	Louisiana Department of Natural Resources
LDWF	Louisiana Department of Wildlife and Fisheries
LPDES	Louisiana Pollutant Discharge Elimination System
MSL	Mean Sea Level
NAVD	North American Vertical Datum of 1988
NEPA	National Environmental Policy Act
NFIP	National Flood Insurance Program
NHPA	National Historic Preservation Act of 1966, as Amended

NOAA	National Oceanic and Atmospheric Administration
NRCS	Natural Resources Conservation Service
OSHA	Occupational Health and Safety Administration
PSF	Pounds per Square Foot
R.S.	(Louisiana Code) Revised Statute
SONRIS	Strategic Online Natural Resources Information System
TDH	Total Dynamic Head
TSS	Total Suspended Solids
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture
USFWS	United States Fish and Wildlife Service
WWTP	Waste Water Treatment Plant

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1.0 INTRODUCTION

1.1 Project Authority

In accordance with 44 Code of Federal Regulation (CFR) for the Federal Emergency Management Agency (FEMA), Subpart B – Agency Implementing Procedures, Section 10.9, an environmental assessment (EA) was prepared pursuant to Section 102 of the National Environmental Policy Act of 1969, as implemented by the regulations promulgated by the President’s Council on Environmental Quality (40 CFR Parts 1500-1508). The EA determines if the proposed construction of a concrete flood wall/earthen berm for flood protection at the Forked Island/East Broussard Elementary School in Abbeville, Louisiana will have the potential for significant adverse effects on the quality of the human and natural environment. The results of this EA will be used to make a decision whether to initiate preparation of an Environmental Impact Statement (EIS) or to prepare a Finding of No Significant Impact (FONSI).

Hurricane Katrina, a Category 4 hurricane with a storm surge above normal high tide levels, moved across the Louisiana, Mississippi and Alabama gulf coasts on August 29, 2005. Maximum sustained winds at landfall were estimated at 140 miles per hour. President Bush declared a major disaster for the State of Louisiana due to damages from Hurricane Katrina and signed a disaster declaration (FEMA-1603-DR-LA) on August 29, 2005, authorizing the Department of Homeland Security’s Federal Emergency Management Agency (FEMA) to provide federal assistance in designated areas of Louisiana. FEMA is administering this disaster assistance pursuant to the Robert T. Stafford Disaster Relief and Emergency Assistance Act (Stafford Act), PL 93-288, as amended. Section 404 of the Stafford Act authorizes FEMA’s Hazard Mitigation Program to provide funds to states and local governments to implement long-term hazard mitigation measures after a major disaster declaration.

1.2 Project Location

Vermilion Parish is located in Southwest Louisiana. It is a total of approximately 1,538 square miles, comprised of approximately 1,174 square miles of land and 365 square miles of water. It is bordered to the north by Lafayette, Acadia, and Jefferson Davis Parishes, to the east by Iberia Parish, to the south by the Gulf of Mexico, and to the west by Cameron Parish. The City of Abbeville is located in the northeast part of Vermilion Parish. Abbeville is the parish’s largest municipality and is the location of major parish government facilities, with approximately 11,854 people, according to 2005-2009 census estimated figures. The Forked Island/East Broussard Elementary School (subject property) is located at 19635 Columbus Road, Abbeville, Louisiana, (29.862872, -92.265361), approximately 11 miles southwest of Abbeville, Louisiana, approximately 9 miles south of Kaplan, Louisiana and approximately 10 miles northwest of Vermilion Bay on the Gulf of Mexico (Figures 1 and 2). The proposed project is located within Section 33, Township 13S, Range 2E.

Figure 1: Proposed Project Site Location in Vermilion Parish, Louisiana

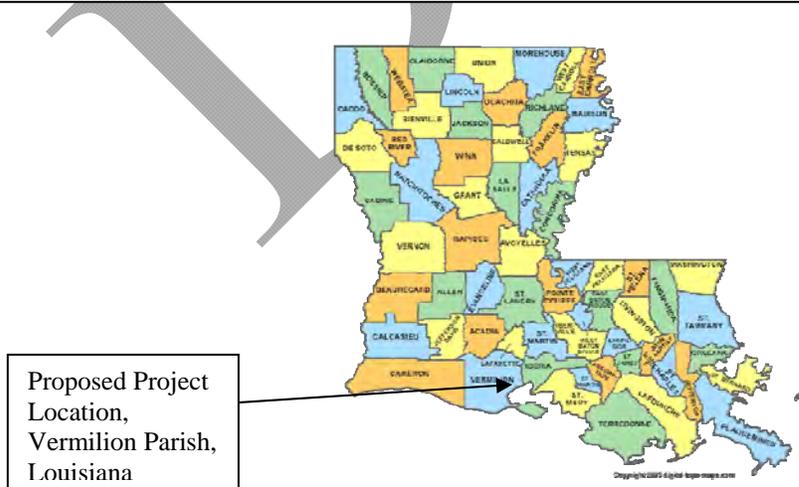
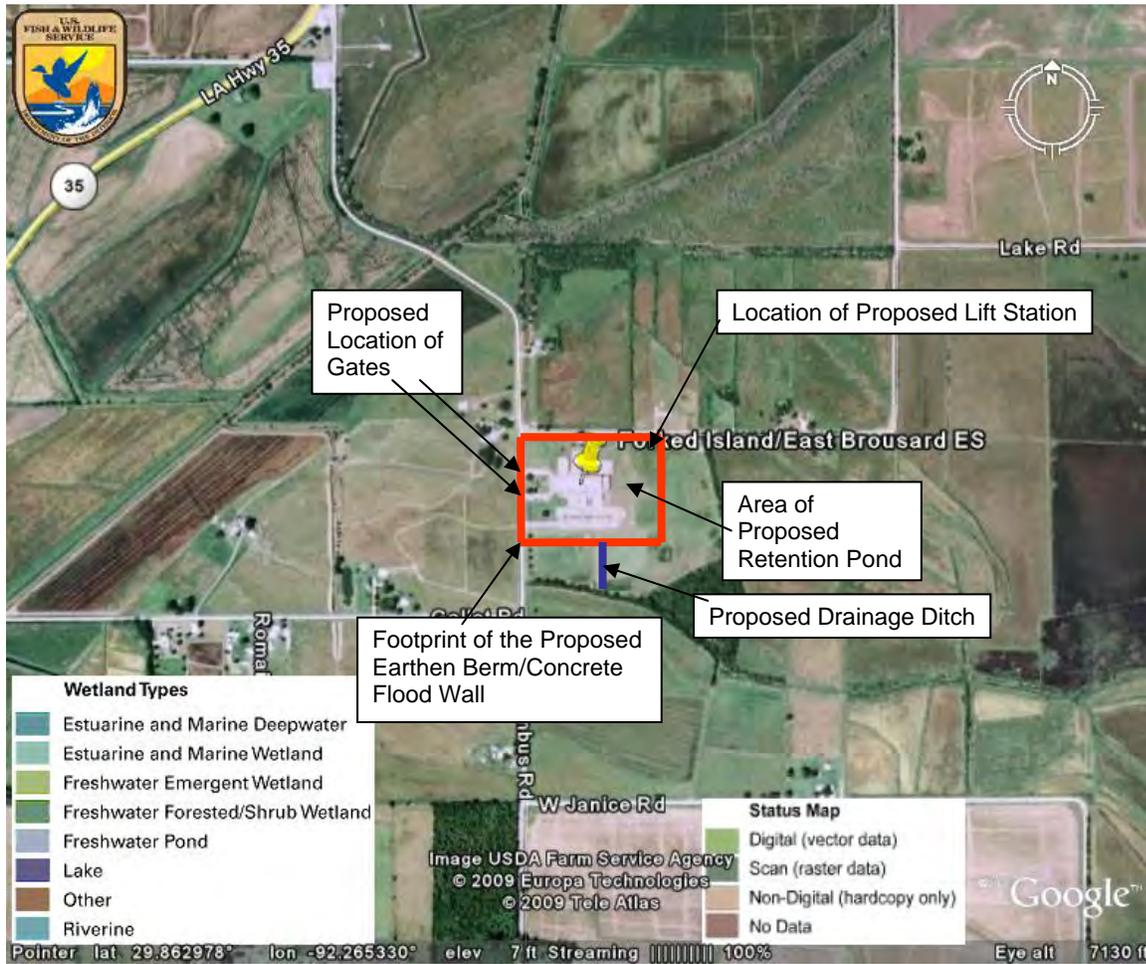


Figure 2: Main Features of the Proposed Forked Island/East Broussard Elementary School Flood Protection Project



2.0 PURPOSE AND NEED

The purpose of this project is to construct a flood wall at the Forked Island/East Broussard School to reduce flood damage to the structure and its contents caused by severe storms, tropical storms, and hurricanes. During and after Hurricane Rita, the steel-framed masonry main structure and ancillary structures were inundated with approximately 30 inches of storm surge and sustained wind damage. Extensive damages totaling approximately \$3,611,770 were incurred. Without retrofitting the existing structures to provide protection from future floodwaters, the approximately 280 elementary students (ranging from pre-kindergarten to the 8th grade) from the surrounding community could not be served, and would therefore require transport to other schools in the vicinity. This impact would cause a reduction in the quality of life for the community.

3.0 ALTERNATIVES

3.1 Alternative 1 - No Action

Under this alternative, Vermilion Parish would not construct the earthen berm/flood wall at the Forked Island/East Broussard Elementary School or install the required conveyance to reduce flooding. Consequently, the Forked Island/East Broussard Elementary School would continue to flood during severe storms, tropical storms, and hurricanes.

3.2 Alternative 2 – Construction of the ring earthen berm/flood wall at the Forked Island/East Broussard Elementary School (Proposed Action)

The Forked Island/East Broussard Elementary School is a facility that has suffered repetitive wind damage from various storms. The facility was flooded as a result of Hurricane Rita. The high water mark was 8.4 feet above mean seal level (msl). The main school building was constructed in 1979, and is a steel-framed masonry building which is 78,620 square feet in size. In addition, at the time of the proposed project submission in 2006, there were three temporary classrooms on site. The main structure consists of 13 classrooms, a home economics shop, an industrial arts shop, a gym with a locker room, six restrooms, an administrative area, a cafeteria/general assembly area, an auditorium, a kitchen with two walk-in freezers and a walk-in cooler, a library, a foyer, and a band room, and a weight room on the second level.

The school grounds have been cleared of native vegetation and leveled for construction of the structure, with shallow drainage ditches between the grounds and the roads to the west and north, and the athletic fields to the south. To the east of the school the land is open and uninterrupted agricultural land. Plans indicate a sewer line running east from the northeast corner to the existing sewage package plant, but this was not confirmable by surface inspection of the grounds. The ground surface was largely either sod or paved, with bare surfaces limited to the footprints of several trees placed around the school grounds. Two mounds are located along the west side of the school property, with one each between the southwest and northwest corners of the main building and Columbus Road. The mound to the south west was topped by a mature tree, while the one to northwest was topped by a sapling. Both mounds were low and broad at their tops, rising no more than three feet above the surrounding elevation.

This project proposes to construct approximately 2,120 linear feet of earthen berm and 540 linear feet of concrete floodwall around the perimeter of the facilities to protect the Forked Island/East Broussard Elementary School from future flooding. The fill material for the proposed floodwall is proposed to be hauled in by the successful bidder/contractor for the project and will be taken from a location off-site from the Forked Island/East Broussard Elementary School site. The construction of the proposed project would require the excavation of approximately 427 cubic yards (CY) of soil for flood protection structure, the excavation of 8,750 CY of soil for drainage, the installation of approximately 290 CY of monolithic cast-in place reinforced concrete for the flood wall, and approximately 110 tons of asphaltic concrete to replace and repair surface pavement. The contractor would seed approximately 5.0 acres and sod approximately 2.0 acres after construction work is completed. A resident inspector would be provided to ensure that all

design requirements are met during the construction phase of the project. Compaction tests would be made on the underlying materials, and concrete tests would be conducted on the poured concrete for the earthen berm.

The proposed project also includes an interior drainage system consisting of a duplex 3,500 gallon per minute electric (with backup power sources) low lift pump, an underground storm water collection system, and discharge piping. The pumping starting elevation would be 2.0 feet and the pumping stopping elevation would be -2.0 feet. The proposed project operation plan would incorporate all the provisions for interior drainage as required in 44 CFR Part 65.10(c)(2) of the NFIP regulations.

Additionally, the project would include the upgrade of the existing sewer pump station and sewage package plant to a 13,000 gallon per day (GPD) capacity extended aeration sewer treatment plant with a 336 gallon chlorine contact chamber to assure continued operation of the facility during flooding events. The upgraded sewage package plant would be located outside the floodwall, east of the school building near the existing lift station. The existing lift station would be abandoned and removed from the site by back filling the excavated area with soil. A new 60-inch concrete lift station would be constructed at the northeast corner of the property within the ring flood wall/berm. The 52 gallon per minute (GPM) at 56 total dynamic head (TDH) pumps and a generator would be installed near the new lift station.

The proposed improvement would provide protection to 1.0 foot above the current established base flood elevation (BFE) (the 100-year or 0.1 percent chance event) of 13 feet above msl per the North American Vertical Datum 1988 (NAVD) for the project location, as shown on the new effective Digital Flood Insurance Rate Map (DFIRM), and is approximately 3.5 feet higher than the level of the floodwaters experienced during Hurricane Rita. The proposed area to be enclosed is approximately 12 acres and is approximately 5 feet above msl in elevation. In general, the earthen berm would be approximately 76 feet wide (40 feet on the inside, 30 feet on the outside, and 6 feet at the top), approximately 9.0 feet high, and 14.0 feet above mean sea level in elevation. The earthen berm would be sloped 4:1 on the landside (inside) and 3:1 on the floodside (outside). The concrete flood wall would also be approximately 9 feet high and 14 feet above mean sea level in elevation. There would be two gates along Columbus Road at the facility entrance; each would be 22 feet wide. The proposed project operation plan would incorporate all the provisions for closures devices as required in Paragraph 65.10(c)(1) of the NFIP regulations.

A retention pond would be constructed on the eastern portion of the site within the ring flood wall/berm. The retention pond would have protective fencing and would be sloped 5 percent. An existing drainage ditch runs south toward the southern edge of the property from the proposed earthen berm. This ditch would be cleaned to the outfall to match new inverts at a slope of 0.10 percent. The ditch would be approximately 28 feet wide with a 10 foot bottom, and would contain two 14-inch diameter steel pipes with flap gates and one 24-inch diameter storm drain pipe. The 24-inch drain pipe would be contained in a 7 foot high box culvert with a sluice gate. The ditch would be sloped 3:1 and covered with Department of Transportation and Development (DOTD) class 30# 12-inch thick rip rap, which would extend for 60 feet beyond

the end of the pipe. Some existing trees would need to be removed along the northern portion of the property to facilitate construction of the proposed ring flood protection earthen berm/concrete wall.

Site photographs taken during a site visit on December 1, 2009 are presented in Appendix A.

3.3 Alternatives Eliminated From Further Consideration

The following alternatives were considered by Vermilion Parish, but were eliminated from further consultation.

One alternative considered by the Vermilion Parish School Board was to demolish the existing slab-on-grade elementary school, elevate the site location to the BFE listed on the effective DFIRM panel for the project site with fill, and re-build the same size elementary school, (78,620 square feet) at the same location to serve community students. The estimated construction cost would be \$12,500,000. Although this alternative would provide protection from flood waters by raising the entire site and structures to elevation greater than the BFE, this alternative was dismissed due to the increase cost of the project, and the due to fact the placement of structural fill is not permitted in the V-zone. This alternative would also result in the students having to relocate to another school during the construction process.

Another potentially feasible alternative would be to relocate students to another elementary school within Vermilion Parish. Students were temporarily relocated to other schools after Hurricane Rita; however, there was severe overcrowding. This caused undue hardship on the students of the school that was not damaged. This alternative was not considered to be feasible because it is not a long term solution.

Another potentially feasible alternative would be to relocate the Forked Island/East Broussard Elementary School to a new location. The Forked Island/East Broussard students would have to relocate to another school during the reconstruction process. This alternative was not considered to be feasible due to costs of the project and inconvenience to the students and their families. In addition, given the fact the Forked Island/East Broussard Elementary School is surrounded in all directions by the 100-year floodplain, it would be very difficult for Vermilion Parish to identify a suitable location which would be outside of the 100- or 500-year floodplain.

Another alternative that was considered was to build a ring earthen berm/concrete flood wall to a height 1.0 feet above the current BFE and approximately 3.5 feet higher than the floodwaters experienced during Hurricane Rita. Although similar to the proposed alternative, this alternative differs from proposed alternative because this option would use a flood gate which must be closed manually. Although this option would cost less than the proposed alternative, this option was dismissed due to safety concerns, as someone would need to be physically located at the site to close the manual flood gates during hazardous weather conditions.

4.0 AFFECTED ENVIRONMENT AND IMPACTS

4.1 Impact Summary

The following matrix summarizes the results of the environmental review process (Table 1). Potential environmental impacts that were found to be negligible are not evaluated further. Resource areas that have the potential for impacts of minor, moderate, or major intensity are further developed in the following sections. Definitions of the impact intensity are described below:

Negligible: The resource area (e.g., geology) would not be affected, or changes would be either non-detectable or if detected, would have effects that would be slight and local. Impacts would be well below regulatory standards, as applicable.

Minor: Changes to the resource would be measurable, although the changes would be small and localized. Impacts would be within or below regulatory standards, as applicable. Mitigation measures would reduce any potential adverse effects.

Moderate: Changes to the resource would be measurable and have both localized and regional scale impacts. Impacts would be within or below regulatory standards, but historical conditions are being altered on a short-term basis. Mitigation measures would be necessary and the measures would reduce any potential adverse effects.

Major: Changes would be readily measurable and would have substantial consequences on a local and regional level. Impacts would exceed regulatory standards. Mitigation measures to offset the adverse effects would be required to reduce impacts, though long-term changes to the resource would be expected.

Table 1 - Affected Environment and Environmental Consequences Matrix

Resource Area	Impact Intensity				Impact Summary	Agency Coordination / Permits	Mitigation
	Negligible	Minor	Moderate	Major			
Geology, Soils, and Seismic Hazards	X				<p>Potential for short-term localized increase in soil erosion during construction.</p> <p>The U.S. Department of Agriculture (USDA-Natural Resources Conservation Service (NRCS) Alexandria, LA office has determined that the proposed project will not impact any Prime, Unique, or Local Important Farmland.</p> <p>Louisiana lies in an area of low seismic risk. There are three known subsurface faults in Vermilion Parish and no recorded historical earthquakes in St. James Parish. See Appendix B for maps of Louisiana geologic faults and historical earthquakes. The potential for seismic effects on the proposed concrete floodwall/earthen berm would be taken into account during the soil stability analysis and in construction planning, which would be conducted by a licensed engineer.</p>	<p>USDA-NRCS correspondence letter from Bart Devillier of the Abbeville, LA office, dated 8/29/2006. (See Appendix B)</p> <p>Louisiana Department of Environmental Quality (LDEQ) email dated 11/30/2009. (See Appendix B)</p> <p>Internet Resource: Earthquakes in Louisiana</p>	<p>Implement construction Best Management Practices (BMPs); install silt fences/straw bales to reduce sedimentation. Area soils would be covered and/or wetted during construction. If fill is stored on site as part of unit installation or removal, the contractor would be required to appropriately cover it. Construction contractor would be required to obtain applicable Louisiana Pollutant Discharge Elimination System (LPDES) permit, and implement stormwater pollution prevention plan. See also Section 6.0.</p>

Resource Area	Impact Intensity				Impact Summary	Agency Coordination / Permits	Mitigation
	Negligible	Minor	Moderate	Major			
Hydrology and Floodplains (Executive Order 11988)		X			<p>Effective DFIRMs for Vermilion Parish dated 1/19/2011 were reviewed for the proposed project site. The site is located within zones VE (EL 12) and VE (EL 13), which are within the 1 percent annual chance flood and Coastal High Hazard Areas (CHHA). Because the project is located within a FEMA-mapped VE zone, a wave run-up model was conducted for the project by Taylor Engineering, dated January 12, 2011. According to the model, the top of the wave run-up reaches a maximum of 12.7 feet NAVD. According to the design drawings, the run-up value results in a freeboard of approximately 1.3 feet. This analysis indicated that the proposed elevation of the concrete wall/earthen berm provides reasonable protection from the 100-year wave and run-up conditions. The applicant's contractor has also provided a "qualitative and a simplified, semi-quantitative" hydrology and hydraulics (H&H) study, which was conducted to determine impacts to the surrounding floodplain. Based on the report, dated February 19, 2009, "it is anticipated that the construction of the ring levee at the Forked Island/East Broussard School would not result in a significant increase in the surrounding BFE. It is more likely that the resulting BFE, if even measurable, would be several orders of magnitude less than 0.5 foot." See also Appendix C. See also Sections 4.2.1.</p>	Effective DFIRM Panel 22113C 0475F	The project area must be kept cleared so as not to interfere with floodplain functions. Contact the Vermilion Parish Floodplain Administrator to obtain all appropriate permits. See also Sections 4.2.1 and 6.0.
Wetlands (Executive Order 11990)	X				No U.S. Fish and Wildlife Service (USFWS)-mapped wetlands are present in the proposed project area. The U.S. Army Corps of Engineers (USACE) determined that the proposed project does not require a Department of the Army permit under Section 404 of the Clean Water Act (CWA).	Response letters from the USACE, dated 8/30/2006 and 6/16/2011. (See Appendix B)	Any changes or modifications to the proposed project will require a revised determination. Off-site locations of activities such as borrow, disposals, haul- and detour roads, and work mobilization site developments may be subject to USACE regulatory requirements. See also Section 6.0.

Resource Area	Impact Intensity				Impact Summary	Agency Coordination / Permits	Mitigation
	Negligible	Minor	Moderate	Major			
Surface Water and Water Quality		X			<p>Potential for short-term localized increase in sedimentation during construction.</p> <p>The applicant's design contractor, Sellers & Associates has received a permit from the Louisiana Department of Health and Hospitals (DHH) for the construction of the new 60-inch concrete lift station and 13,000 GPD extended aeration sewer treatment plant and associated pumps and chlorine contact chamber. The permit number is P-11-04-113-006 and was issued on March 25, 2011.</p> <p>According to LDEQ records, the Forked Island/East Broussard Elementary School has an LDEQ LPDES General Permit for Class II Sanitary Discharges. The site has one outfall location from which the site discharges treated sanitary wastewater. The maximum discharge of treated sanitary wastewater totals less than 25,000 GPD. The site is required to adhere to effluent limitations and monitoring requirements of the permit and report the findings to the LDEQ on quarterly basis. See also Section 4.2.2.</p>	<p>LDEQ email dated 11/30/2009.</p> <p>DHH letter dated 03/22/2011.</p> <p>LDEQ LPDES permit renewal letter (with attachments) dated 12/01/2008. (See Appendix B)</p>	<p>Contractor to contact the LDEQ to determine if a LPDES permit is required for the proposed project. The contractor must follow the requirements of DHH permit # P-11-04-113-006 obtained in March 2011 for construction of the concrete lift station and extended 13,000 GPD aeration sewer treatment plant. Implement construction BMPs, install silt fences/straw bales to reduce sedimentation.</p> <p>See also Sections 4.2.2 and 6.0.</p>
Groundwater	X				<p>Vermilion Parish overlies the Chicot Aquifer system, which is a Sole Source Aquifer. The Environmental Protection Agency (EPA) – Region VI determined that the project should not have an adverse effect on the quality of the ground water underlying the project site. According to the Department of Natural Resources (LDNR) Strategic Online Natural Resources Information System (SONRIS) database, there are four registered water wells located within the project vicinity. These registered water wells all are located across either Columbus Road or Lake Road from the proposed site. Three of these water wells appear to be associated with nearby residential structures for domestic use. The remaining well is labeled as being for irrigation. No registered water wells appear within the proposed project footprint. There are no groundwater areas of concern.</p>	<p>EPA-Region VI correspondence letters dated 8/22/2006 and 4/28/2011. (See Appendix B)</p> <p>LDEQ email dated 11/30/2009. (See Appendix B)</p> <p>LDNR SONRIS Database</p>	<p>The contractor should observe all precautions to protect the groundwater of the region.</p> <p>See also Section 6.0.</p>

Resource Area	Impact Intensity				Impact Summary	Agency Coordination / Permits	Mitigation
	Negligible	Minor	Moderate	Major			
Coastal Resources	X				According to the LDNR, the project is not located within the Louisiana Coastal Zone. The project is not located within the Coastal Barrier Resource System (CBRS).	LDNR response letters dated 2/1/2007 and 4/29/11. (See Appendix B) Effective DFIRM Panel 22113C 0475F (for CBRS)	
Air Quality	X				During construction, there is potential for short-term localized increase in vehicle emissions and dust particles. The Vermilion Parish airshed is in attainment for all criteria pollutants per the Clean Air Act.	LDEQ email dated 11/30/2009. (See Appendix B)	Vehicle operation times would be kept to a minimum. Area soils would be covered and/or wetted during construction to minimize dust. See also Section 6.0.
Vegetation and Wildlife	X				The proposed project located in an area which is sparsely developed and borders agricultural fields. The developed areas of the project site consist of maintained grassland or paved roadways and driveways. No long-term impacts to existing vegetation and wildlife are anticipated.	USFWS determination of no effect, dated 8/3/2006 and 4/29/2011. (See Appendix B)	
Threatened and Endangered Species (Endangered Species Act Section 7)	X				No impact to federally listed threatened or endangered species is anticipated. No impacts to critical habitats are anticipated. No impacts to rare, threatened, or endangered species or critical habitats are anticipated for the proposed project. No state or federal parks, wildlife refuges, scenic streams, or wildlife management areas are known at the specific site. The bald eagle is protected under the Bald and Golden Eagle Act. Bald eagles are known to occur in Vermilion Parish.	USFWS determination of no effect on Federal trust resources, dated 8/30/2006 and 4/29/2011. (See Appendix B) Louisiana Department of Wildlife and Fisheries (LDWF) letter dated 11/2/2006. (See Appendix B)	If a bald eagle or its nest is spotted within 1,500 feet of the project site during the months of October through mid-May, the applicant must cease construction activities and contact LDWF and USFWS immediately. All correspondence must be documented and remain in the project permanent files. See also Section 6.0.

Resource Area	Impact Intensity				Impact Summary	Agency Coordination / Permits	Mitigation
	Negligible	Minor	Moderate	Major			
Cultural Resources (National Historic Preservation Act [NHPA] Section 106)	X				A review of this project was conducted in accordance with FEMA's Louisiana Hazard Mitigation Grant Program (HMGP) Secondary Programmatic Agreement dated January 31, 2011 (LA HMGP PA). FEMA has determined that No Historic Properties are affected by the proposed undertaking. The State Historic Preservation Officer (SHPO) concurrence with this determination was dated May 19, 2011. Consultation with Participating Tribes (Jena Band of Choctaw Indians, Mississippi Band of the Choctaw Indians, and the Choctaw Nation of Oklahoma) was conducted per 36CFR Part 800.2(c)(2)(i)(B) and/or the 2011 LA HMGP PA. As none of the above-referenced tribes responded by June 1, 2011, tribal concurrence with this determination is assumed.	SHPO concurrence letter dated May 19, 2011. (See Appendix B)	If archaeological artifacts or features (prehistoric or historic) or human remains are discovered during the course of FEMA funded work at the project site, the Applicant must ensure that their Contractor stops work in the vicinity of the discovery and takes all reasonable measures to avoid and minimize harm to the discovery. The Applicant shall inform the Governor's Office of Homeland Security and Emergency Preparedness (GOHSEP) and FEMA of the discovery, and FEMA would deploy an archaeologist to the location to conduct a site condition assessment. The Applicant would not proceed with work until FEMA has completed consultation with the SHPO on the treatment of the discovery. The local Coroner's Office would assess the nature and age of the human skeletal remains. If the Coroner's Office determines that the human skeletal remains are older than 50 years of age, the Louisiana Division of Archaeology would take jurisdiction over the remains. Within twenty-four (24) hours, FEMA would notify the Louisiana Division of Archaeology (225-342-8170) of the finding. Within seventy-two (72) hours, FEMA would take the lead in working with the Louisiana Division of Archaeology and other interested parties, as necessary, to ensure compliance with the Louisiana Unmarked Human Burial Sites Preservation Act (Revised [R.S.] 8:671 <i>et seq.</i>) and other applicable laws. In addition, the Applicant must afford FEMA the opportunity to comply with the "Human Remains Policy" set forth by the Advisory Council on Historic Preservation (ACHP). See also Section 6.0.

Resource Area	Impact Intensity				Impact Summary	Agency Coordination / Permits	Mitigation
	Negligible	Minor	Moderate	Major			
Environmental Justice (Executive Order 12898)/Socioeconomics	X				<p>According to the American Census, Data for year 2005-2009 (5-year estimates), the percentage of families in Abbeville, LA below the poverty level is 25.0%. This figure for the U.S. as a whole is 9.9%. The median per capita income Abbeville, LA is \$17,156. This figure for the U.S. as a whole is \$27,041. The year 2005-2009 estimates demographic census data for Abbeville, LA are as follows: White: 53.1%, African American: 39.9%, Hispanic: 2.1%, and Asian: 4.2%. The comparable census demographic for the U.S. as a whole are: White: 74.5%, African American: 12.4%, Hispanic: 15.1%, and Asian: 4.4%.</p> <p>According to the School Tree. Org web site, of the 280 students attending the Forked Island/East Broussard Elementary School, 276 are Caucasian (98.6%) and 4 are African-American (1.4%). The Statewide average figures are 49% Caucasian, 48% African American, and 3% Hispanic, Asian, or American Indian.</p> <p>Of the 280 students attending the school, 56 students (20.0%) are on the reduced fee lunch program, and 102 students (36.4%) are on the free lunch program. The average figures for the State of Louisiana are 8.5% on the reduced fee lunch program and 52.1% on the free lunch program.</p> <p>The proposed work has no potential to adversely impact any population.</p>	U.S. Census Bureau, American Fact Finder, Data for Abbeville, Louisiana School Tree.Org Internet Site	
Noise		X			<p>During the construction period there will be a short-term increase in noise levels. Vermilion Parish does not have any specific noise ordinances. City of Abbeville noise ordinances prohibits the erection (including excavating), demolition, alteration, or repair of any building in any residential district or section between the hours of 6 P.M. and 7 A.M. except in the case of urgent necessity. In addition, the creation of any excessive noise adjacent to any school while the same is in use, which unreasonably interferes with the working of school activities is prohibited.</p> <p>See also Section 4.3.</p>	Vermilion Parish, Louisiana – Code of Ordinances City of Abbeville, Louisiana Code of Ordinances Chapter 13, Sec. 13-16. - Noise (b)(8) and (b)(9)	Although the Forked Island/East Broussard Elementary School site is not located within the City of Abbeville proper, it is recommended that work schedule at the site follow the City of Abbeville Code of Ordinances for noise. According to these ordinances, the following noise reduction measures should be considered: using a 7 A.M. to 6 P.M., Monday through Friday, construction schedule. See also Sections 4.3 and 6.0.

Resource Area	Impact Intensity				Impact Summary	Agency Coordination / Permits	Mitigation
	Negligible	Minor	Moderate	Major			
Public Safety and Access/Americans with Disabilities Act of 1990, as Amended (ADA)		X			<p>Based on information obtained during the site visit, should the school need to be evacuated due to a fire or other event, a staging area/area of rescue of sufficient size is available for student and faculty assembly on the property, inside the proposed flood concrete wall/earthen berm. In addition, the proposed earthen berm has been designed to be sloped in such a way to allow for persons in wheelchairs or having other special needs to be evacuated over the berm, should this be required.</p> <p>Under the Proposed Action Alternative, construction activities could present safety risks to those performing the activities. To minimize risks to safety and human health, all construction activities would be performed using qualified personnel trained in all appropriate safety precautions, including the proper use of the appropriate equipment. Additionally, all activities will be conducted in a safe manner in accordance with the standards specified in Occupational Safety and Health Administration (OSHA) regulations. To alert motorists and pedestrians of project activities, appropriate signage and barriers would be on site prior to and during construction activities. The construction of earthen berm at the Fork Island/East Broussard School is not likely to result in adverse effects to the safety of the residents of Vermilion Parish.</p> <p>See also Section 4.4.</p>	Architectural Barriers Act (ABA)	<p>The contractor would place fencing around the work area perimeters to protect nearby residents from vehicular traffic. To minimize worker and public health and safety risks from project construction and closure, all construction and closure work would be done using qualified personnel trained in the proper use of construction equipment, including all appropriate safety precautions. Additionally, all activities would be conducted in a safe manner in accordance with the standards specified in OSHA regulations and the USACE safety manual.</p> <p>The contractor would post appropriate signage and fencing to minimize potential adverse public safety concerns.</p> <p>See also Sections 4.4 and 6.0.</p>
Traffic and Transportation		X			<p>Traffic volumes along the respective work areas would increase temporarily during work activities.</p> <p>Surface traffic on the affected areas of Columbus Road and Lake Road would be impacted by construction work on or near these streets.</p> <p>See also Section 4.5.</p>		<p>Appropriate signage and barriers should be in place prior to construction activities in order to alert pedestrians and motorists of project activities and traffic pattern changes.</p> <p>The contractor would implement traffic control measures, as necessary.</p> <p>See also Sections 4.5 and 6.0.</p>

Resource Area	Impact Intensity				Impact Summary	Agency Coordination / Permits	Mitigation
	Negligible	Minor	Moderate	Major			
Hazardous Materials and Toxic Wastes	X				<p>EPA and LDEQ hazardous materials database searches queried for the project work areas. No sites of concern were identified by the database search within the proposed project work areas. No environmental conditions of concern were observed during field reconnaissance within the project area.</p> <p>There are two aboveground propane gas tanks at the proposed site, located inside the proposed footprint of the earthen berm/concrete floodwall. These propane tanks are fenced off to discourage trespassing. The proposed action should have no effect on these tanks.</p> <p>The LDNR SONRIS database was queried for the project work areas. There are no registered oil/gas wells or oil/gas fields located within or near the project area.</p> <p>No impacts related to hazardous materials and wastes are anticipated.</p>	<p>EPA Envirofacts Database EPA EnviroMapper EPA Brownfields Database LDEQ Electronic Document Management System (EDMS) LDEQ Voluntary Remediation Program (VRP) Database LDEQ Louisiana State Brownfields Database LDNR SONRIS Database LDEQ Leaking Underground Storage Tank (LUST) Database LDEQ Authorized Debris Sites Database</p> <p>Email from the LDEQ dated 11/30/2009. (See Appendix B)</p>	<p>If hazardous materials are unexpectedly encountered in the project area during the proposed construction operations, appropriate measures for the proper assessment, remediation, management and disposal of the contamination would be initiated in accordance with applicable federal, state, and local regulations. The contractor would be required to take appropriate measures to prevent, minimize, and control the spill of hazardous materials in the construction area.</p> <p>See also Section 6.0.</p>

4.2 Water Resources

4.2.1 Hydrology and Floodplains

Executive Order 11988 (Floodplain Management) requires federal agencies to avoid or minimize development in the floodplain except when there are no practicable alternatives. Vermilion Parish enrolled in the National Flood Insurance Program (NFIP) on May 31, 1977.

The proposed project is located within zones VE (EL 12) and VE (EL 13), which are the 100-year or 1 percent annual chance flood with velocity hazard or wave action, according to effective DFIRM panel 22113C 0475F, with an effective date of January 19, 2011 (Figure 3). This flood zone is also described as the coastal high hazard area (CHHA). These flood zones are subject to high velocity waters including, but not limited to, hurricane wave wash or tsunamis.

Figure 3: Project Effective DFIRM 22113C 0475F



Historically, the proposed project site was located in an AE zone. According to FIRM panel 220221 0400D dated May 15, 1985, the proposed project site was located in zone A8 (EL 9). The Advisory BFE (ABFE) was zone AE (EL 10), according to ABFE panel LA-Z53, dated March 2006. The ABFE maps were created for the Louisiana coastal parishes after Hurricanes Katrina and Rita to provide homeowners and public officials with assistance in elevating, reconstructing, retrofitting, or repairing their structures after these events.

Alternative 1- No Action: The No Action alternative would have no effect on floodplains.

Alternative 2 – Construction of the ring earthen berm/flood wall at the Forked Island/East Broussard Elementary School (Proposed Action): The proposed project is located in Zones VE (EL 12) and VE (EL 13). To comply with Executive Order 11988, Floodplain Management, FEMA is required to follow the procedure outlined in 44 CFR Part 9 to assure that alternatives to the proposed action have been considered. This process, also known as the "Eight Step Planning Process," has been applied to this mitigation project and is described in Appendix C. The proposed action must be coordinated with the local floodplain manager as well as comply with local floodplain ordinances. For the purposes of this study, there are no practical alternatives to the proposed action.

According to 44 CFR Part 9.11(d)(1): “There shall be no new construction or substantial improvement in a floodway, and no new construction in a coastal high hazard area,” otherwise known as a V zone or CHHA. Although there are certain exceptions to this regulation, the proposed project initially did not meet the exception criteria. Therefore, FEMA initially considered the proposed project not in compliance with FEMA E.O. 11988 regulations and the proposed project was therefore not eligible HMGP funding. Vermilion Parish appealed this decision.

In response to the Vermilion Parish appeal, in a letter from FEMA dated November 16, 2009, to Mark Cooper of GOHSEP FEMA reversed the initial denial decision: “Upon additional consideration of the site location in a Velocity (VE) Zone, we concluded that the proposed action was not in compliance with our regulations, and on September 8, 2009 we notified your office that the project was not eligible for additional funding based on policy guidance regarding new construction and substantial improvements in Coastal High Hazard Areas, or ‘V-Zones’. Our determination was that the proposed berm constituted new construction in a high flood hazard area, which is prohibited. However after evaluating the entire project, which proposes to place a berm as a retrofit measure to an existing facility, FEMA has reversed our decision and has placed this project back into review for the remaining proposed actions.” A copy of this letter is presented in Appendix C.

On April 30, 2009, at the request of GOHSEP, the FEMA HMGP, and as a regulatory requirement, the applicant submitted a Conditional Letter of Map Revision (CLOMR) application package to the FEMA National Service Provider. The CLOMR application requested a letter from FEMA commenting on whether the project, if built as proposed, would justify a DFIRM panel revision, or proposed hydrology changes (44 CFR, Parts 60, 65, and 72). However, on June 24, 2009, a letter from GOHSEP to the FEMA HMGP indicated that the applicant would be removing the CLOMR application from the project. The applicant indicated that the “submittal of this document is not feasible due to time constraints to gather information and increased labor costs associated with this task.” Copies of these documents are presented in Appendix C.

According to information provided by the applicant's construction contractor in CLOMR discussed above, the following information pertains to the proposed floodwall and earthen berm foundation stability during flooding conditions:

- International Building Code (IBC) 2003 stipulations were used for the analysis;
- Stability analysis provides for overturning and sliding;
- The 1 percent annual-chance significant wave height is 7.0 feet;
- Wind loading at $P_w = 50$ pounds per square foot (psf); and
- The computed design maximum bearing pressure for a sustained load is 1,291 psf and for a short term load is 826 psf.

The following information pertains to the proposed floodwall and earthen berm potential foundation settlement during flooding conditions:

- Anticipated potential settlement due to foundation consolidation has been determined and incorporated into the specified construction elevations to maintain the established freeboard;
- Gravity flow (interior watershed) and historical ponding probability was analyzed; and
- Interior drainage has been analyzed based on the probability of interior and exterior flooding and capacities of pumping and outlet facilities to provide the established flood protection.

The following information pertains to the proposed floodwall and earthen berm foundation design parameters during flooding conditions:

- Breaking wave forces were not incorporated into the design of the proposed structure;
- The expected settlement rate at the site of the proposed structure is less than 1 inch;
- The proposed structure would not be overtopped during the 1 percent chance annual event;
- Geotechnical analysis of potential failure in the landward (inside) direction by rotational gravity slip was performed for maximum loads associated with minimum seaward water level, no wave actions, saturated soil conditions behind the proposed structure, and maximum toe scour;
- Engineering analyses of landward sliding, landward overturning, and of foundation adequacy using maximum pressures developed in the sliding and overturning calculations were performed;
- Geotechnical analyses were performed investigating the potential failure in the seaward (outside) direction by rotational gravity slip or foundation failure due to inadequate bearing strength;

To date, the design, maintenance, and impacts of the proposed have not been reviewed and approved by the community, and any Federal, State, or local agencies having jurisdiction over flood control and coastal activities in proposed project area.

Because the project is located within a FEMA-mapped VE zone or CHHA, a wave run-up model was conducted for the project by Taylor Engineering, dated January 12, 2011 to determine whether the proposed project would provide the protection required from wave-induced flooding. The wave run-up study included wave height analyses, including waves running from south to north and from east to west, a wave run-up analysis with a 2 percent wave run-up, and wave run-up velocities using information from *Estimation of Overtopping Flow Velocities on Earthen Levees due to Irregular Waves*, (USACE, 2008), to obtain a reasonable estimate of potential wave run-up velocities. According to the model, the top of the wave run-up reaches a maximum of 12.7 feet NAVD. According to the design drawings, which indicate that the proposed project would provide protection to 14 feet above msl, the run-up value results in a freeboard of approximately 1.3 feet. Freeboard, as defined in CFR 44 Part 59.1, is a factor of safety, usually defined in feet above the BFE, which tends to compensate for many unknown factors that could contribute to the experiencing of actual flood heights greater the flood height calculated for a selected size flood, such as wave action and the hydrological effect of development within the watershed. This analysis indicates that the proposed elevation of the berm provides reasonable protection from the 100-year wave and run-up conditions. A copy of wave run-up data is presented in Appendix C.

The applicant's contractor has also provided a "qualitative and a simplified, semi-quantitative" H&H study, which was conducted to determine potential impacts to the surrounding areas within the floodplain. Based on this report, dated February 19, 2009, "it is anticipated that the construction of the ring levee at the Forked Island/East Broussard School would not result in a significant increase in the surrounding base flood elevation (BFE). It is more likely that the resulting BFE, if even measurable, would be several orders of magnitude less than 0.5 foot." A copy of this letter is presented in Appendix C.

The construction of the earthen berm/concrete floodwall would result in added fill within the floodplain; however, the amount of fill relative to the area of the floodplain is minimal. Flood flows would be minimally impeded and redirected by construction of the proposed flood control structure, which would enclose 12 acres of land. In addition, during a flooding event, water that would normally occupy the area within the flood control structure would be pumped outside of, and away from, the flood control structure. However, according the Applicant's hydrology and hydraulic studies, the construction of the floodwall will have minimal potential to impact the area immediately surrounding the school structure and the floodplain in general.

Implementing the proposed action is not likely to encourage further development near or adjacent to the Forked Island/East Broussard Elementary School as the flood protection would only be provided to the proposed project site. The construction of the floodwall will be coordinated and comply with the local floodplain administrator. All required permits will be obtained and kept for permanent documentation.

By implementing the proposed activity, flood hazards at the Forked Island/East Broussard Elementary School would be significantly reduced. There are no wetlands in the immediate proposed project area that would be affected by the proposed action.

If the Applicant does not implement the proposed action; the Forked Island/East Broussard Elementary School structure would continue to experience flood damage. If the Applicant chooses to relocate the Forked Island/East Broussard Elementary School students (Alternative 4) or reconstruct a new physical elementary school structure in an alternative location (Alternative 5); parish citizens with school-age would likely leave the project area to live closer to school that their children would be attending. This may impact Vermilion Parish by reducing the tax base; thereby reducing funding for other essential services in the project area.

According to the proposed project DFIRM panel 22113C0475F, and adjoining DFIRM panels 22113C0325F (to the north of the proposed project site), 22113C0350F (to the northeast of the proposed project site), and 22113C0500F (to the east of the proposed project site), the vast majority of Vermilion Parish within a reasonable commuting distant of the current Forked Island/East Broussard Elementary School location lies within the 100-year or 500-year floodplain (see 8-Step Process in Appendix C). There are no other practicable alternate locations outside the floodplain available. Student relocation (Alternative 4) and physical structure relocation to another site (Alternative 5) would cause inconvenience and hardship to area residents and would be very costly to the parish and to American taxpayers. For Alternative 5, it would be very difficult for Vermilion Parish to identify a suitable location which would be outside of the 100- or 500-year floodplain. If the Forked Island/East Broussard Elementary School would be physically relocated outside the 100- or 500-year floodplain, it would no longer be able to serve the needs of the students in the southern part of Vermilion Parish. Alternatives consisting of locating the proposed project outside the floodplain or taking “no action” are not practicable.

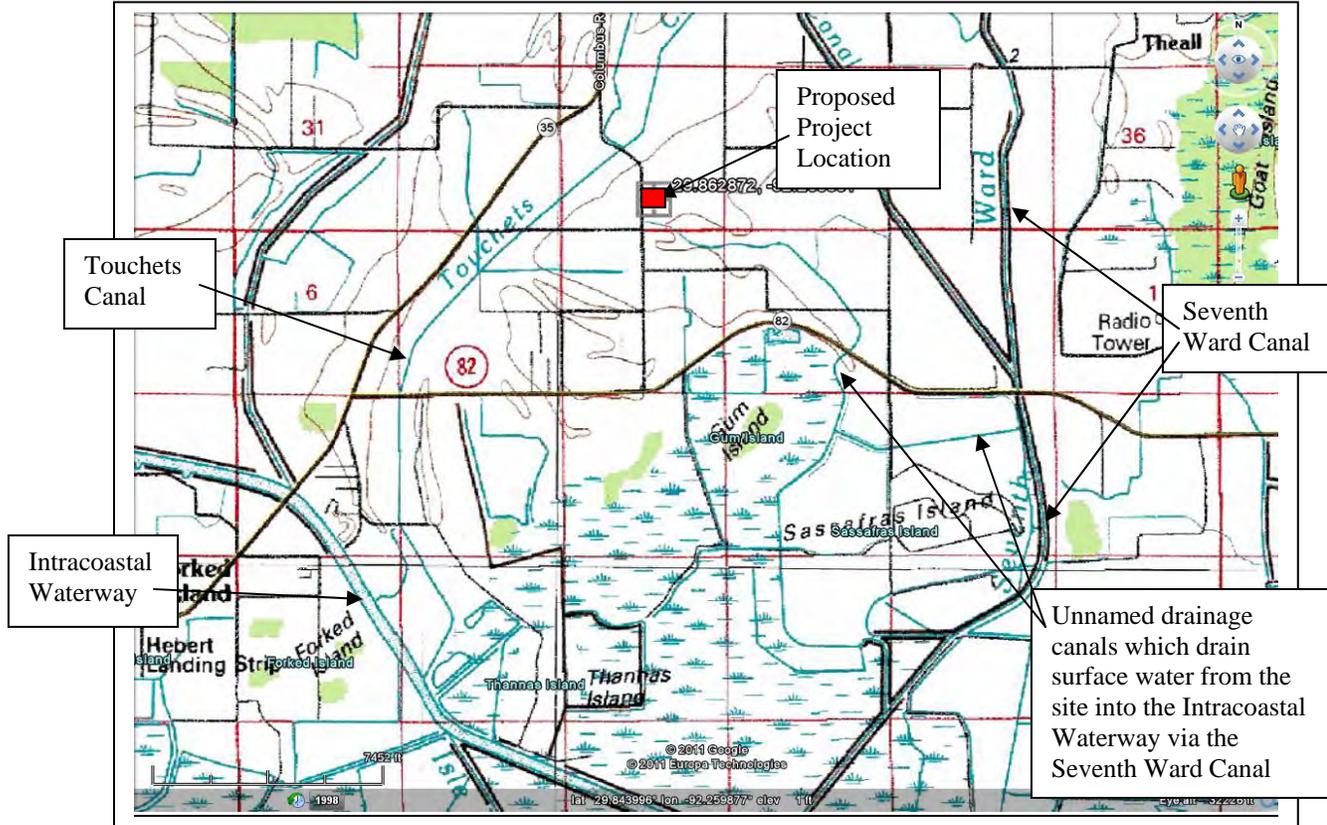
The proposed action will reduce or eliminate possible flood hazards at the Forked Island/East Broussard Elementary School, with minimal increase of flood elevations at nearby and adjacent areas. There are no wetlands in the immediate proposed project area that would be affected by the proposed action.

4.2.2 Surface Water and Water Quality

An unnamed canal located south of the Forked Island/East Broussard Elementary School is the primary drainage of surface water from the project site (Figure 4). This canal drains into another unnamed drainage canal located approximately 2.2 miles to the southeast is shown on the 7.5' series topographic map for Forked Island, LA. This drainage canal drains into the Seventh Ward Canal, then to the Intracoastal Waterway (Figure 5). The closest named waterway is Touchets Canal, which appears to be a channelized man-made drainage feature. Touchets Canal is approximately 0.4 miles northwest of the school, and also discharges into the Intracoastal Waterway (Figure 5). The Intracoastal Waterway drains into the Fresh Water Bayou Canal and ultimately into the Gulf of Mexico.

According to LDEQ records, the Forked Island/East Broussard Elementary School (LDEQ Agency Interest [AI] # 43800) has a LPDES General Permit (Number LAG540762) for Class II Sanitary Discharges, which was renewed on July 1, 2008. The school's on-site Waste Water Treatment Plant (WWTP) has one outfall location from which the Forked Island/East Broussard

Figure 5: Drainage Map of the Project Area



Alternative 1- No Action: The No Action alternative would not change site drainage or have an effect on the surface water quality of the area.

Alternative 2 – Construction of the ring earthen berm/flood wall at the Forked Island/East Broussard Elementary School (Proposed Action): During construction there is the potential to impact surface waters through minor erosion and sedimentation. In order to minimize impacts to waters of the U.S., the contractor is required to implement BMPs that meet the LDEQ permitting specifications for storm water discharge regulated under Section 402 of the CWA. This includes designing the site with specific construction measures to reduce or eliminate run-off impacts. Any adverse effects to water quality associated with the construction of the projects would be short term and minimized by the measures described above.

The applicant's design contractor, Sellers & Associates, has received a permit for the construction of the new 60-inch concrete lift station, and the addition of the 52 GPM at 56 TDH duplex grinder pumps, the 13,000 GPD extended aeration sewer treatment plant, and a 336 gallon chlorine contact chamber from the Louisiana DHH. The permit number is P-11-04-113-006 and it was issued on March 22, 2011. A copy of the agency correspondence is presented in Appendix B.

4.3 Noise

Noise is generally described as unwanted sound. The closest noise receptors to the project site are less than 500 feet from the Forked Island/East Broussard Elementary School, including the elementary school itself, and several residential structures located across Columbus Road and Lake Road. The area immediately surrounding the facility is rural, with mainly agricultural fields and sparse residential development. Noise levels within and adjacent to the project area would increase during construction activities as a result of construction equipment and vehicular activity. The immediate project area is depicted in Figure 6.

Figure 6: Project Vicinity Map



Alternative 1- No Action: The No Action alternative would have no effect on noise in the project area.

Alternative 2 – Construction of the ring earthen berm/flood wall at the Forked Island/East Broussard Elementary School (Proposed Action): Construction of the flood wall would result in an increase in noise. The increase is expected to be temporary and would not affect any sensitive receptors. According to City of Abbeville Code of Ordinances, the following noise reduction measures should be considered: using a 7 A.M. to 6 P.M., Monday through Friday, construction schedule.

4.4 Public Safety and Access

Facilities that are federally funded must comply with accessibility standards under the Architectural Barriers Act (ABA). The ABA applies to facilities designed, built, altered, or leased with federal funds. Several agencies maintain ABA standards, which are being revised according to guidelines the Board jointly updated under the ABA and the ADA. The General Services Administration (GSA) updated its ABA standards, which apply to most facilities covered by the ABA (except postal, residential, and military facilities). Per Section F202.2 of the ABA Standards which covers additions to existing structures, each addition to an existing building or facility shall comply with the requirements for new construction.

In addition, construction activities could present safety risks to those performing the activities and any other persons who attempt to enter the site during construction activities.

Alternative 1- No Action: The No Action alternative would have no effect on site accessibility.

Alternative 2 – Construction of the ring earthen berm/flood wall at the Forked Island/East Broussard Elementary School (Proposed Action): Based on information obtained during the site visit and the size of the student and faculty population, should the school need to be evacuated due to a fire or other event, a staging area/area of rescue of sufficient size is available for student and faculty assembly on the property, inside the proposed concrete flood wall/earthen berm. In addition, the earthen berm has been designed to be sloped in such a way to allow for persons in wheelchairs or having other special needs to be evacuated over the berm, should this be required.

Under the Proposed Action Alternative, construction activities could present safety risks to those performing the activities. To minimize risks to safety and human health, all construction activities would be performed using qualified personnel trained in all appropriate safety precautions, including the proper use of the appropriate equipment. Additionally, all activities would be conducted in a safe manner in accordance with the standards specified in OSHA regulations. To alert motorists and pedestrians of project activities, appropriate signage and barriers would be on site prior to and during construction activities. The construction of earthen berm/concrete flood wall at the Forked Island/East Broussard School is not likely to result in adverse effects to the safety of the residents of Vermilion Parish.

4.5 Traffic and Transportation

The proposed site is located in a sparsely developed, moderate traffic volume area.

Alternative 1- No Action: The No Action alternative would have no effect on traffic.

Alternative 2 – Construction of the ring earthen berm/flood wall at the Forked Island/East Broussard Elementary School (Proposed Action): Construction at the proposed project site would have a temporary effect on traffic by increasing the number of heavy machinery vehicles on Columbus Road and Lake Road. Construction traffic should be closely monitored and

controlled as appropriate. All construction activities would be conducted in a safe manner in accordance with OSHA requirements.

Surface traffic within the school campus would be impacted during the construction of the proposed earthen berm/concrete flood wall. The contractor would implement traffic control measures as necessary. During construction activities, the construction site(s) would be fenced off to discourage trespassers

5.0 CUMULATIVE IMPACTS

Cumulative impacts are those effects on the environment that result from the incremental effect of the action when added to past, present, and reasonably foreseeable future actions, regardless of what agency (federal or nonfederal) or person undertakes such other actions. Cumulative effects can result from individually minor but collectively significant actions taking place over a period of time. The impact of Hurricanes Katrina, Rita, Gustav, and Ike in Vermilion Parish resulted in either wind or flood damage to many structures. There have been other projects to repair other structures to pre-disaster condition with upgrades to codes and standards. In addition, a concrete flood wall was constructed at the Dozier Elementary School in Erath, Louisiana; this flood wall was completed in January 2010. An earthen berm/flood wall similar to the proposed project is planned for the Seventh Ward Elementary School in Abbeville, Louisiana.

According to the National Oceanic and Atmospheric Administration (NOAA) Coastal Change Analysis Program (C-CAP) Land Cover Atlas, from 1996 to 2006, the percent of developed land parish wide in Vermilion has increased from 2.15% to 2.17%, and the percentage of impervious surface area has increased from 0.68% to 0.69%. Within the same timeframe, the percentage of forested land parish-wide has decreased from 4.38% to 4.13%, and the percentage of Vermilion Parish that is wetland has decreased from 35.43% to 35.10%. In 1996, Vermilion Parish had 564.26 square miles of agricultural land. In 2006, Vermilion Parish had 565.88 square miles of agricultural land, for a net gain of 1.62 square miles of land (+ 0.29% change) used for agriculture.

The cumulative impact to the natural resources within Vermilion Parish would be small and not likely to adversely affect the Parish as a whole. The human environment of Vermilion Parish would be impacted by reducing the flood hazards within the Forked Island/East Broussard Elementary School area, while not significantly affecting the flood hazards in the surrounding area. On a whole the human environment of Vermilion Parish would benefit by the project.

6.0 CONDITIONS AND MITIGATION MEASURES

Based upon the studies and consultations undertaken in this environmental assessment, several conditions and mitigation measures must be taken by the applicant prior to and during project implementation.

- The contractor must follow the requirements of DHH permit # P-11-04-113-006 dated March 22, 2011 for construction of the concrete lift station and extended 13,000 GPD aeration sewer treatment plant. The LDEQ may require further treatment to protect water quality. Construction must begin within two years of the date referenced above or a new permit must be obtained from the DHH. After construction is completed, the applicant's design engineering firm must submit a Confirmation Letter to DHH certifying that the project was constructed in accordance with the plans and specifications approved by the DHH. This letter is required prior to occupancy of the facility. The owner of treatment system must obtain all necessary permits and rights-of-way for treatment facility effluent to reach public waters.
- LDEQ has stormwater general permits for construction areas equal to or greater than one acre. It is recommended that the LDEQ Water Permit Division be contacted at (225) 219-3181 to determine whether the proposed improvements require one of these permits. The contractor is required to implement BMPs that meet the LDEQ permitting specifications for storm water discharge regulated under Section 402 of the CWA.
- Any changes or modifications to the proposed project would require a revised USACE determination. Off-site locations of activities such as borrow, disposals, haul-and detour-roads and work mobilization site developments may be subject to the Department of the Army regulatory requirements and may have an impact to a Department of Army project.
- If any solid or hazardous wastes, or soils and/or groundwater contaminated with hazardous constituents are encountered during the project, notification to LDEQ's Single-Point-of-Contact (SPOC) at (225) 219-3640 is required. Additionally, precautions should be taken to protect workers from these hazardous constituents.
- The applicant would be responsible for contacting the USFWS if there is a change in the scope of work, the project necessitates removal of mature pine trees, construction activities have not been initiated within one year, or if any new bald eagle nests are observed in proximity to the proposed project activities during the next nesting season (October 1 through mid-May). If the projects have not been initiated within one year, follow up consultation is required with the USFWS prior to construction.

- Construction traffic should be closely monitored and controlled as appropriate. All construction activities would be conducted in a safe manner in accordance with OSHA requirements. To alert motorists and pedestrians of project activities, appropriate signage and barriers would be on site prior to and during construction activities. During construction activities, the construction site(s) would be fenced off to discourage trespassers.
- If archaeological artifacts or features (prehistoric or historic) are discovered during the course of FEMA funded work at the Forked Island/East Broussard School, the Applicant must ensure that their Contractor stops work in the vicinity of the discovery and takes all reasonable measures to avoid and minimize harm to the discovery. The Applicant shall inform GOHSEP and FEMA of the discovery and FEMA will deploy an archaeologist to the location to conduct a site condition assessment. The Applicant would not proceed with work until FEMA has completed consultation with the SHPO on the treatment of the discovery.
- In addition, if human remains are discovered during the course of FEMA funded work, the Applicant and the Applicant's Contractor are responsible for immediately halting work within the vicinity of the human remains finding. The Applicant will immediately notify GOHSEP, FEMA, the local Police Department, and the local Coroner's Office of the discovery. The local Coroner's Office will assess the nature and age of the human skeletal remains. If the Coroner's Office determines that the human skeletal remains are older than 50 years of age, the Louisiana Division of Archaeology will take jurisdiction over the remains. Within twenty-four (24) hours, FEMA will notify the Louisiana Division of Archaeology (225-342-8170) of the finding. Within seventy-two (72) hours, FEMA will take the lead in working with the Louisiana Division of Archaeology and other interested parties, as necessary, to ensure compliance with the Louisiana Unmarked Human Burial Sites Preservation Act (R.S. 8:671 *et seq.*) and other applicable laws. In addition, the Applicant must afford FEMA the opportunity to comply with the "Human Remains Policy" set forth by the ACHP.
- Any change to the approved scope of work will require reevaluation under Section 106.
- The applicant must follow all applicable local, state, and federal laws, regulations and requirements and obtain and comply with all required permits and approvals prior to initiating work.

Failure to comply with these conditions may make part or all of these projects ineligible for FEMA funding.

7.0 PUBLIC INVOLVEMENT

The public will be invited to comment on the proposed action. A legal notice was published in the following newspapers: The *Lafayette Daily Advertiser* from December 7 to December 11, 2011. Additionally the Environmental Assessment was made available at the Vermilion Parish Library (Kaplan Branch) from December 7 to December 26, 2011. The Environmental Assessment was published on FEMA's and the Parish's official websites. A copy of the Public Notice is attached in Appendix D.

8.0 AGENCY COORDINATION

Environmental Protection Agency (EPA)
U.S. Fish and Wildlife Service (USFWS)
U.S. Army Corps of Engineers (USACE)
Louisiana Department of Environmental Quality (LDEQ)
Louisiana Department of Natural Resources (LDNR)
Louisiana Department of Wildlife and Fisheries (LDWF)
Louisiana Department of Health and Hospitals (DHH)
USDA Natural Resources Conservation Service (NRCS)
Louisiana State Historic Preservation Office/r (SHPO)
Tribal Historic Preservation Office/r and/or cultural offices

9.0 LIST OF PREPARERS

Laurel Rohrer, Environmental Specialist, URS – Contractor Support to FEMA
Federal Emergency Management Agency, Louisiana Recovery Office

Melanie Pitts, Environmental Specialist
Federal Emergency Management Agency, Louisiana Recovery Office

Tiffany Spann-Winfield, Deputy Environmental Liaison Officer
Federal Emergency Management Agency, Louisiana Recovery Office

Gail Lazarus, Historic Preservation Supervisor
Federal Emergency Management Agency, Louisiana Recovery Office

David Gilmour, Historic Preservation Specialist/Archaeologist, URS – Contractor Support to FEMA
Federal Emergency Management Agency, Louisiana Recovery Office

Mark Martinkovic, Historic Preservation Specialist/Archaeologist, URS – Contractor Support to FEMA
Federal Emergency Management Agency, Louisiana Recovery Office

Daniell Digiuseppe, Historic Preservation Specialist/Historic Structures-Architect
Federal Emergency Management Agency, Louisiana Recovery Office

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APPENDIX A
SITE PHOTOGRAPHS



Photo 1 - Existing drainage ditch flowing south from the school site to an unnamed drainage ditch



Photo 2 - Residence located west of the Forked Island/East Broussard Elementary School, across Columbus Road



Photo 3 - View of Forked Island/East Broussard Elementary School from Columbus Road



Photo 4 - View of surrounding land to the west showing agricultural land and low density residential areas



Photo 5 - View along Columbus Road looking south at the Forked Island/East Broussard Elementary School entrance and the proposed flood wall gate areas



Photo 6 - View of Forked Island/East Broussard Elementary School from Columbus Road, looking southeast



Photo 7 - View of Forked Island/East Broussard Elementary School from the intersection of Columbus Road and Lake Road showing trees that will be removed to construct the flood wall and the Forked Island/East Broussard Elementary School, looking southeast



Photo 8 - View of land east of the school, looking southeast



Photo 9 - View of Forked Island/East Broussard Elementary School, looking southwest



Photo 10 - View of parking area and ball fields south of the Forked Island/East Broussard Elementary School building



Photo 11 - View of propane tanks at the Forked Island/East Broussard Elementary School site



Photo 12 – Another view of propane tanks at the Forked Island/East Broussard Elementary School site

Draft

APPENDIX B

AGENCY CORRESPONDENCE



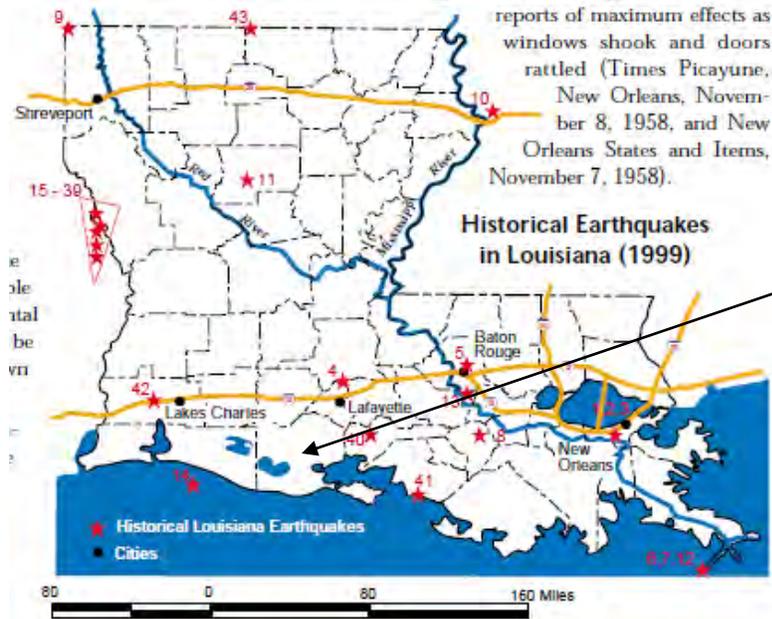
Scotlandville, and Denham Springs. So far as is known, movement along this and other fault systems within the thick sedimentary basin fill of Louisiana is related to a process of gradual creep as opposed to the sudden breaking of rock associated with earthquakes. No detected earthquakes have definitely been attributed to any of the specific mapped fault systems.

Although Louisiana lies in an area of low seismic risk, a number of historical earthquakes have occurred in our state. They have tended to be of low magnitude and occur with low frequency. Figure 3 shows earthquake locations in Louisiana from the U.S. Geological Survey's historical record (this and additional earthquake information is accessible and can be queried at http://www.nrc.cr.usgs.gov/neis/epic/epic_rect.html). Table 2 lists the plotted earthquakes.

Approximate Proposed Project Location

Figure 2. Generalized subsurface faults in Louisiana. North Louisiana faults are from Gulf Coast Association of Geological Societies and American Association of Petroleum Geologists (1972; used with permission). The dashed lines in south Louisiana, rather than representing discrete faults, mark the approximate northernmost edges of different zones of growth faults having different ages of formation (from Murray 1961; used with permission of the author).

Geologic Faults in Louisiana



reports of maximum effects as windows shook and doors rattled (Times Picayune, New Orleans, November 8, 1958, and New Orleans States and Items, November 7, 1958).

Approximate Proposed Project Location

Figure 3. Historical felt earthquake locations in and around Louisiana, from the U.S. Geological Survey's historical record (http://www.nrc.cr.usgs.gov/neis/epic/epic_rect.html).

Historical Earthquake Locations in Louisiana



AI 43800

Bobby Jindal
GOVERNOR

Bruce D. Greenstein
SECRETARY

State of Louisiana
Department of Health and Hospitals
Office of Public Health

March 22, 2011

RECEIVED
By SBSCAP

MAR 25 2011

Attn: Vermilion Parish School Board
220 South Jefferson Street
Abbeville, LA 70510

OFFICE OF THE SECRETARY

Mr. Eugene Sellers, P.E.
Sellers & Associates, Inc.
148B Easy Street
Lafayette, LA 70506-3095

RE: Forked Island/E. Broussard Elementary School
New Lift 60" Concrete Lift Station and Sewer Treatment Plant
Duplex Grinder Pumps: 52 gpm @ 56 TDH
13,000 gpd Extended Aeration Sewer Treatment Plant
336 gal Chlorine Contact Chamber
Outfall Coordinates: 29°51'46.73"N, 92°15'55.78"W
Vermilion Parish
Permit #: P-11-04-113-006

Dear Applicant:

Plans and specifications for the above named project have been reviewed and found to be in substantial conformity with applicable provisions of the Sanitary Code.

This approval of plans and specifications takes into consideration only the health aspects and sanitary features of the design. It does not take into account the requirements of any other regulatory agency. Please note that the Louisiana Department of Environmental Quality (LDEQ) may require further treatment to protect water quality.

This permit is given with the stipulation that the sewer treatment facilities, will be owned, operated, and maintained by the Vermilion Parish School Board, 220 South Jefferson Street, Abbeville, LA 70510.

The plans and specifications are being sent to the Vermilion Parish Health Unit.

This permit is automatically cancelled if construction of the project has not been started within two (2) years after the date of this letter.

[Faint, illegible text]

[Faint, illegible text]

825 Kaliste Saloom Rd. • Brandywine 3rd • Sto. 100 • Lafayette, Louisiana 70508
Phone 337/262-5311 • Fax 337/262-5638 • WWW.DHH.LA.GOV

"An Equal Opportunity Employer"

RE: Forked Island/E. Broussard Elementary School
New Lift 60" Concrete Lift Station and Sewer Treatment Plant
Duplex Grinder Pumps: 52 gpm @ 56 TDH
13,000 gpd Extended Aeration Sewer Treatment Plant
336 gal Chlorine Contact Chamber
Outfall Coordinates: 29°51'46.73" N; 92°15'55.78" W
Vermilion Parish
Permit #: P-11-04-113-006
Page 2

After construction is completed, the responsible party for the design of the project shall submit a Confirmation Letter to this office certifying that the project was constructed in accordance with the plans and specifications approved by this office. As of February 1, 2007 this Confirmation Letter shall be required prior to occupancy.

If construction commences before a permit is granted, a Notice of Violation will be issued for the project. A letter of "no objection" will not be issued on any pre-constructed project unless the project fully complies with the requirements of the Sanitary Code.

In the event that it is determined at some point in the future that a design error escaped our detection during our review of these plans and specifications, that oversight shall not relieve you, the applicant, of the responsibility for complete compliance with the applicable requirements of the Louisiana Administrative Code [particularly, LAC 51 (Public Health Sanitary Code) and LAC 48 (Public Health - General), specifically including correcting the violations inadvertently overlooked.

Please be advised that an effluent discharge permit from the Louisiana Department of Environmental Quality (LDEQ) is required prior to operation of this wastewater treatment facility. The LDEQ permitting office can be reached at (225) 219-3181. Approval of design will in no way guarantee that the plant will meet discharge requirements of an LDEQ permit. Details of the LDEQ permit discharge requirements for your receiving stream should be obtained from LDEQ in advance of the design.

Please be advised that it is the responsibility of the owner of the treatment system to obtain all necessary permits and rights-of-way for the treatment facility effluent to reach public waters. No letter of approval or "no objection" will be issued without proof of such right-of-ways.

At the direction of the State Health Officer.

Sincerely,


Amanda A. Laughlin, P.E.
Region IV Engineering

xc: Jody Guidry, Region IV Sanitarian Regional Director
Vicky Toups, Vermilion Parish Sanitarian Manager
Sewage Program Administrator, Central Office
Yanfu Zhao, P.E., LDEQ, Office of the Secretary

BOBBY JINDAL
GOVERNOR



HAROLD LEGGETT, PH.D.
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Permit Number: LAG540762
Agency Interest Number: 43800

December 1, 2008

Mr. Randy Schexnayder
Forked Island E Broussard School
P.O. Box 520
Abbeville, Louisiana 70510

RE: Renewal of Coverage under LPDES General Permit for Class II Sanitary Discharges

Dear Mr. Schexnayder:

The Louisiana Pollutant Discharge Elimination System (LPDES) Class II Sanitary General Permit previously issued to your facility expired on February 29, 2008. The Class II permit has been reissued with an effective date of July 1, 2008. For eligible facilities, notification of automatic coverage under this new permit is being provided by means of this letter. Pursuant to the Louisiana Environmental Quality Act (La R.S. 30:2001 et seq), authorization under the reissued permit, is hereby extended to

Forked Island E Broussard School
19635 Columbus Rd
Abbeville LA 70510

to discharge treated sanitary wastewater. This permit replaces and cancels the prior version of the permit, which was previously issued to your facility. If you are no longer operating, ownership has changed, or your discharge flow has increased, you are required to provide this information in a letter to this Office so that the appropriate action concerning your permit can be addressed.

Please note that your permit number will remain the same. To ensure that all correspondence regarding this facility is properly filed into the Department's Electronic Document Management System, you must reference your Agency Interest number AI 43800 and LPDES general permit authorization number LAG540762 on all future correspondence to this Department, including Discharge Monitoring Reports.

The permittee shall follow the Effluent Limitations and Monitoring Requirements established in Appendix A, which is attached to this permit. Appendix A is facility specific and details which schedule(s) from Part I of the permit will apply to the facility. Please note that any schedule in Part I of the permit that is **NOT** listed in Appendix A shall **NOT APPLY** to this particular facility.

Monitoring results should continue to be reported to the Enforcement Division on a Discharge Monitoring Report (DMR) form. A copy of the form is attached for your use. Copies of DMRs should be sent to the Enforcement Division, Office of Environmental Compliance, Louisiana Department of Environmental Quality, P.O. Box 4312, Baton Rouge, Louisiana 70821-4312.

Your facility will be assessed an Annual Maintenance and Surveillance Fee in the amount of \$264.00, to be invoiced separately by the agency. An Oyster Sanitation Fee will also be assessed to applicable discharges in the following basins: Atchafalaya River, Barataria, Lake Pontchartrain, Mississippi River, and Terrebonne. Annual fee amounts are subject to adjustment at a later date by promulgation of changes in the Louisiana Administrative Code. Pursuant to LAC 33.IX.1309.I, LAC 33.IX.6509.A.1 and LAC 33.I.1701, you must pay any outstanding fees to the Department. Therefore, you are encouraged to verify your facility's fee status by contacting LDEQ's Office of Management and Finance, Financial Services Division at (225) 219-3863. Any outstanding fees must be remitted via a check to the Louisiana Department of Environmental Quality within thirty (30) days after the effective date of your permit. Failure to pay the full amount due in the manner and time prescribed could result in enforcement actions as prescribed in the Environmental Quality Act, including, but not limited to revocation or suspension of this permit, and/or a civil penalty.

For all sanitary treatment plants, the plans and specifications must be approved by the Department of Health and Hospitals, Office of Public Health, P.O. Box 4489, Baton Rouge, Louisiana 70821-4489, (225) 342-7395.

Please be advised that according to LA R.S. 48:385, any direct discharge to a state highway ditch, cross ditch, or right-of-way shall require approval from the Louisiana Department of Transportation and Development, P.O. Box 94245, Baton Rouge, Louisiana 70804, (225) 379-1927, and from the Department of Health and Hospitals, Office of Public Health, P.O. Box 4489, Baton Rouge, Louisiana 70821-4489, (225) 342-7395.

Should you have any questions concerning the general permit, please feel free to contact Afton Bessix at (225) 219-3096 or Rachel Davis at (225) 219-3081.

Sincerely,



Tom Killeen, Environmental Scientist Manager
Municipal and General Water Permits Section

Attachments: DMR Form and Permit (Parts I-III and Appendices A-C)

cc: Cover Letter and all Attachments

IO-W

Louisiana Department of Environmental Quality
Office of Environmental Services

APPENDIX A

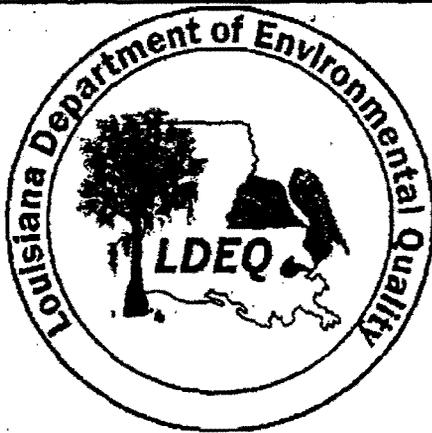
Louisiana Pollutant Discharge Elimination System (LPDES)
General Permit LAG540762

Forked Island E Broussard School
19635 Columbus Rd
Abbeville LA 70510

In accordance with Part II, Section N, monitoring results shall be reported on a Discharge Monitoring Report (DMR) per the schedule specified. A DMR form must be completed for each wastewater discharge point (outfall) listed below. Instructions are provided on the back of the DMR form.

When completing a DMR form, the permittee shall place the discharge number of the corresponding wastewater discharge point in the "Discharge Number" box. The following is a list of the wastewater discharge point(s) from your facility with the assigned discharge number, discharge location, and the final effluent limitations and monitoring requirements:

Discharge Number	Discharge Location	Discharge Description	Final Effluent Limitations and Monitoring Requirements
Outfall 001	At the point of discharge from the sewage treatment facility	Treated sanitary wastewater	Part I, Section B, Schedule A, Page 4 of 16



OFFICE OF ENVIRONMENTAL SERVICES
Water Discharge Permit

FINAL

GENERAL PERMIT NUMBER LAG540000
Agency Interest Number 90682

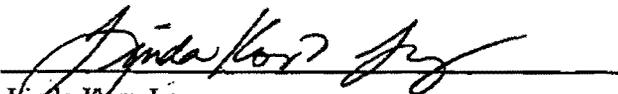
Class II Sanitary Discharge General Permit

In accordance with the Clean Water Act of 1987 and the Louisiana Environmental Quality Act (La. R.S. 30:2001, et seq.: "The Act") and the Rules effective or promulgated under the authority of the Act, this Louisiana Pollutant Discharge Elimination System General Permit is issued. This permit authorizes persons who meet the requirements of Part I A and have been approved by the Office to discharge to waters of the State treated sanitary wastewater and/or other accepted wastewater types totaling less than 25,000 gallons per day maximum expected flow in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Parts I, II, and III of this permit.

This permit becomes effective March 1, 2003

This permit expires five (5) years from the effective date.

Issued this 24th day of February, 2003


Linda Korn Levy
Assistant Secretary

SECTION A. APPLICABILITY

Facilities covered by this general permit are those discharging treated sanitary wastewater and/or other accepted wastewater types in quantities less than 25,000 GPD maximum expected flow as calculated using the sewage loading guidelines in the state sanitary code or from an alternative approved data source and which are required to meet a secondary level of treatment. "Accepted wastewater types" include those wastewaters with effluent characteristics which are not significantly different from sanitary wastewaters and which may be successfully treated by biological means to meet effluent limitations. Facilities covered include, but are not limited to, residential subdivisions, trailer parks, on-site residential laundry facilities, coin operated laundromats, restaurants, schools, shopping centers, and office buildings.

All persons operating a source or conducting an activity that results in a treated sanitary wastewater discharge as described above are eligible for coverage under this general permit and will become permittees authorized to discharge upon written notification by this Office of coverage under this general permit. Notice of intent (NOI) to be covered under this general permit should be made using form WPS-G which may be obtained by calling (225) 765-0036 or on the internet at <http://www.deq.state.la.us/permits/lpdes/index.htm>. Existing dischargers who had coverage under the previous Class II General Sanitary Permit will automatically receive coverage under this new permit, if applicable. Existing dischargers, not covered under the previous Class II General Sanitary Permit, who are eligible for this permit must submit a NOI within thirty (30) days of the effective date of this permit. Proposed facilities desiring coverage under this permit must submit a NOI at least thirty (30) days prior to commencement of discharge. Authorization to discharge for both of these categories (existing and proposed) will only be granted upon written notification by this office. Any permittee covered by an individual permit may request that the individual permit be canceled if the permitted source or activity is also eligible for coverage by this general permit. Upon written acceptance of that request by this Office, the permittee will be covered by this general permit.

This general permit shall not apply to:

1. discharges other than those described above;
2. facilities which do not conform with the regulations set forth in the Louisiana Sanitary Code;
3. facilities which receive unacceptable wastewater types from industrial and/or other sources; and
4. facilities which have been assigned limitations in the Louisiana Water Quality Management Plan or an approved Waste Load Allocation (from a previous study or from the current updates from the Total Maximum Daily Loads) that are different from those in this permit.
5. sanitary discharges at operations classed as new sources or new dischargers, if the discharge will cause or contribute to the violation of water quality standards (LAC 33:IX.2317.A.9).

SECTION B. EFFLUENT LIMITATIONS

During the period beginning with the written notification of coverage under this permit and lasting through the expiration date of this general permit, all permittees covered under this general permit are authorized to discharge treated sanitary wastewater and/or other accepted wastewater totaling less than 25,000 gallons per day maximum expected flow from Outfall 001 (if there is more than one outfall, see the attached Appendix A for the specifics of each outfall) in accordance with the following limitations:

FINAL EFFLUENT LIMITATIONS

EFFLUENT CHARACTERISTICS EACH OUTFALL	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	MONTHLY AVERAGE	WEEKLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
FLOW - gpd	N/A	REPORT	1/3 months	Measure
BOD ₅ mg/L	30	45	1/3 months	Grab
TSS ¹ mg/L	30	45	1/3 months	Grab
OIL & GREASE ² mg/L	N/A	15	1/3 months	Grab
FECAL COLIFORM ^{3&4} COLONIES/100 ml	200	400	1/3 months	Grab
pH - Allowable Range (Standard Units)	6.0 (Minimum)	9.0 (Maximum)	1/3 months	Grab

¹ If the treatment unit is an oxidation pond, the monthly average limitation shall be 90 mg/L and the weekly average limitation shall be 135 mg/L.

² Required only for discharges which include food service waste.

³ If chlorination is chosen as a disinfection method, see Part II, Section H.

⁴ If this discharge is located in an oyster propagation area, fecal coliform limitations will be 14 colonies/100 ml monthly average and 43 colonies/100 ml weekly average. Instructions will be given in the cover letter of this permit if these more stringent fecal coliform limitations are required.

There shall be no discharge of floating solids or visible foam in other than trace amounts, nor of free oil or other oily materials, nor of toxic materials in quantities such as to cause acute toxicity to aquatic organisms. Furthermore, there shall be no visible sheen or stains attributable to this discharge.



DEPARTMENT OF THE ARMY
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS
P. O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

AUG 30 2006

REPLY TO
ATTENTION OF

Operations Division
Operations Manager
Completed Works

Ms. Elizabeth S. Girouard
Sellers & Associates, Inc.
148B Easy Street
Lafayette, Louisiana 70506-3095

Dear Ms. Girouard:

This is in response to your letter dated August 3, 2006, on behalf of the Vermilion Parish Police Jury, concerning the construction of the Forked Island/East Broussard Elementary School flood protection project, as part of the FEMA Hazard Mitigation Grant Program, in Vermilion Parish, Louisiana.

We have reviewed your request for potential Department of the Army regulatory requirements and impacts on any Department of the Army projects.

We do not anticipate any adverse impacts to any Corps of Engineers' projects.

Based on review of maps, aerial photography, and soils data, we have determined that this property is not in a wetland subject to Corps of Engineers' jurisdiction. A Department of the Army permit under Section 404 of the Clean Water Act will not be required for the deposition or redistribution of dredged or fill material on this site.

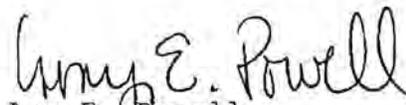
Off-site locations of activities such as borrow, disposals, haul-and detour-roads and work mobilization site developments may be subject to Department of the Army regulatory requirements and may have an impact on a Department of the Army project.

This determination of permit requirements is valid for a period of five years from the date of this letter unless new information warrants a revision prior to the expiration date. In addition, any changes or modifications to the proposed project may require a revised determination.

Please contact Dr. John Bruza, of our Regulatory Branch by telephone at (504) 862-1288, or by e-mail at John.D.Bruza@mvn02.usace.army.mil for questions concerning wetlands determinations or need for on-site evaluations. Questions concerning regulatory permit requirements may be addressed to Mr. Ronnie Duke by telephone at (504) 862-2261 or by e-mail at Ronnie.W.Duke@mvn02.usace.army.mil.

Future correspondence concerning this matter should reference our account number MVN-2006-2992-SQ. This will allow us to more easily locate records of previous correspondence, and thus provide a quicker response.

Sincerely,

A handwritten signature in cursive script that reads "Amy E. Powell". The signature is written in black ink and is positioned above the printed name.

Amy E. Powell
Solicitation of Views Manager



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

August 22, 2006

Ms. Elizabeth S. Girouard
Sellers & Associates, Inc.
148B Easy St.
Lafayette, LA 70506-3095

Dear Ms. Girouard:

Thank you for your August 3, 2006, letters requesting our evaluation of the potential environmental impacts, which might result from the following projects:

Vermilion Parish, Louisiana

**File No. 7240-10
Water Treatment Retrofitting
Delcambre, Louisiana**

**File No. 7242-02
Construction of Police
and Fire Station
Erath, Louisiana**

**File No. 7343-01
Retrofitting Project
Forked Island/East
Broussard Elementary
Forked Island, Louisiana**

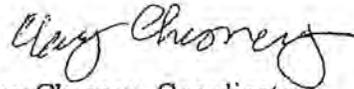
**File No. 7343-01
Retrofitting Project
7th Ward School
Vermilion Parish**

The projects, proposed for financial assistance through the Federal Emergency Management Agency are located on the Chicot aquifer system which has been designated a sole source aquifer by the EPA. They are potentially eligible for review by EPA. Based on the information provided for the projects, we have determined that the projects, as proposed, should not have an adverse effect on the quality of the ground water underlying the project sites.

This approval of the proposed projects does not relieve the applicant from adhering to other State and Federal requirements, which may apply. This approval is based solely upon the potential impact to the quality of ground water as it relates to the EPA's authority pursuant to Section 1424(e) of the Safe Drinking Water Act.

If you have any questions on this letter or the sole source aquifer program please contact me at (214) 665-7128.

Sincerely yours,



Clay Chesney, Coordinator
Sole Source Aquifer Program
Ground Water/UIC Section

cc: Howard Fielding, Program Manager

United States
Department of
Agriculture

Natural Resources
Conservation Service
Phone 337-893-5664 Ext.3
Fax 337-893-9225

PO Box 68
Abbeville, LA
70511-0068

To: Sellers & Associates, Inc.
100 Thomas Street
Abbeville, LA 70510

Date: August 29, 2006

Re: Vermilion Parish police Jury
FEMA Hazard Mitigation Grant Program
Forked Island/E. Broussard Elementary
File No. 7343-01

Dear Ms. Girouard,

Our office has reviewed the proposed project and we find that the project will not impact any on-going or existing NRCS projects; nor will it impact any Prime, Unique or Local Important Farmland. One item to consider is this: the project site is located in a 100 year flood plain. To levee off an area in the flood plain will displace flood waters with the next flooding event. And that could create a problem with the surrounding residences.

Please call if you have any questions.

Sincerely,



Bart Devillier
District Conservationist



State of Louisiana

Department of Wildlife & Fisheries
Post Office Box 98000
Baton Rouge, LA 70898-9000
(225) 765-2800

Kathleen Babineaux Blanco
Governor

Janice A. Lansing
Acting Secretary

Date November 2, 2006

Name Elizabeth Girouard
Company Sellers & Associates
Street Address 148B Easy St.
City, State, Zip Lafayette, LA 70506

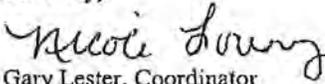
Project FEMA Hazard Mitigation Grant Project
Forked Island / E. Broussard Elementary
Vermilion Parish Police Jury
File No. 7343-01

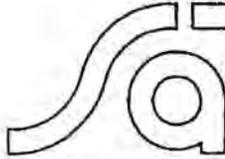
Invoice Number 06110209

Personnel of the Habitat Section of the Fur and Refuge Division have reviewed the preliminary data for the captioned project. After careful review of our database, no impacts to rare, threatened, or endangered species or critical habitats are anticipated for the proposed project. No state or federal parks, wildlife refuges, scenic streams, or wildlife management areas are known at the specified site within Louisiana's boundaries.

The Louisiana Natural Heritage Program (LNHP) has compiled data on rare, endangered, or otherwise significant plant and animal species, plant communities, and other natural features throughout the state of Louisiana. Heritage reports summarize the existing information known at the time of the request regarding the location in question. The quantity and quality of data collected by the LNHP are dependent on the research and observations of many individuals. In most cases, this information is not the result of comprehensive or site-specific field surveys; many natural areas in Louisiana have not been surveyed. This report does not address the occurrence of wetlands at the site in question. Heritage reports should not be considered final statements on the biological elements or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments. LNHP requires that this office be acknowledged in all reports as the source of all data provided here. If at any time Heritage tracked species are encountered within the project area, please contact the LNHP Data Manager at 225-765-2643. If you have any questions, or need additional information, please call 225-765-2357.

Sincerely,

for 
Gary Lester, Coordinator
Natural Heritage Program



Sellers & Associates, Inc.

ENGINEERS

SURVEYORS

ELIZABETH S. GIROUARD, PRESIDENT
TODD A. VINCENT, VICE PRESIDENT

EUGENE M. SELLERS, PE., P.L.S.
WARREN P. BEEDLE, PE., P.L.S.
TODD A. VINCENT, M.S., PE., P.L.S.
ELIZABETH S. GIROUARD, C.E.
DANA MONTET SIMON, M.S., PE.
LARRY A. CRAMER, PE.
A. DAVID SUIRE, PE.
STEVE A. DRONET, E.I.
JORDAN P. HORNE, E.I.
WILBERT J. GUIDRY, P.L.S.

August 3, 2006

Ms. Debbie A. Fuller, Supervisor
U.S. FISH AND WILDLIFE SERVICE
646 Cajundome Boulevard, Suite 400
Lafayette, Louisiana 70506



RE: Vermilion Parish Police Jury
FEMA Hazard Mitigation Grant Program
Forked Island/E. Broussard Elementary
File Number: 7343-01

Dear Ms. Fuller:

The Vermilion Parish Police Jury proposed a retrofitting project utilizing a levee and flood wall to protect the affected public elementary school from flood waters. This project proposes to construct approximately 2,120 linear feet of levees and 540 linear feet of concrete floodwall around the perimeter of the facilities to protect the school from future flooding. This project will also greatly reduce the risk of disruption of school services and the major repair and displacement costs associated with the damages as was incurred with Hurricane Rita. A project map is enclosed showing the location of the proposed project.

In order for this project to be considered for Federal Assistance, the project must be evaluated for environmental impacts. Please review your data to determine if the proposed project may have any impacts on the environment.

A prompt review and response to this inquiry by August 24, 2006, would be greatly appreciated.

This project has been reviewed for effects to Federal trust resources under our jurisdiction and currently protected by the Endangered Species Act of 1973 (Act). The project, as proposed,
 Will have no effect on those resources
 Is not likely to adversely affect those resources.

This finding fulfills the requirements under Section 7(a)(2) of the Act.

Debbie A. Fuller Aug 9, 2006
Acting Supervisor Date

Louisiana Field Office
U.S. Fish and Wildlife Service

Sincerely,

SELLERS AND ASSOCIATES, INC.

Elizabeth S. Girouard
ELIZABETH S. GIROUARD

ESG\th\7343\7343-01\FIEB ltr-Agency_080306.wpd
c: Vermilion Parish Police Jury

State of Louisiana



KATHLEEN BABINEAUX BLANCO
GOVERNOR

SCOTT A. ANGELLE
SECRETARY

DEPARTMENT OF NATURAL RESOURCES
OFFICE OF COASTAL RESTORATION AND MANAGEMENT

February 1, 2007

Dana Montet Simon
Sellers & Associates, Inc.
100 Thomas St.
Abbeville, LA 70510

RE: **C20060619**, Coastal Zone Consistency
Vermilion Parish Police Jury
FEMA - Federal Assistance
HMGP to construct a berm and flood wall to protect Forked Island/E. Broussard Elementary
School
Vermilion Parish, Louisiana

Dear Ms. Simon:

The above referenced project has been reviewed for consistency with the approved Louisiana Coastal Resources Program (LCRP) as required by Section 307 of the Coastal Zone Management Act of 1972, as amended. It has been determined that the captioned project falls outside the Coastal Zone and has no significant effects on the Coastal Zone. The granting of financial assistance for this project, as proposed in the application, is consistent with the LCRP. The actual implementation of the project may require a Corps of Engineers Section 404/Section 10 Permit or other state or Federal authorization. It should be noted that another project in the same area may be deemed to impact the Coastal Zone and require consistency review. For this reason we request that you continue to submit applications to this Department for any other projects in the area. If you have any questions concerning this determination please contact Jeff Harris of the Consistency Section at (225) 342-7591 or 1-800-267-4019.

Sincerely,

Handwritten signature of Jim Rives.

Jim Rives
Acting Administrator

JR/JDH/paw

cc: Venise Ortego, LDWF



FEMA

U.S. Department of Homeland Security
DR-1603-LA
1250 Poydras Street, 17th Floor
New Orleans, LA 70113

November 23, 2009

Ms. Diane Hewitt
Performance Management
LDEQ/Community and Industry Relations
Business and Community Relations
Office of the Secretary
P.O. Box 4301 (602 North 5th Street)
Baton Rouge, LA 70821-4301

Subject: Vermilion Parish Government
Abbeville, Louisiana
Forked Island/East Broussard Elementary School Flood Wall Project
NEMIS # 1603-0004 FEMA-1603-DR-LA

Dear Ms. Hewitt,

FEMA is considering providing Hazard Mitigation Grant Program funding for the attached project in relation to Hurricanes Katrina and Rita (FEMA-1603/1607-DR-LA). Please review the attached project description to determine whether your office has any objections to the proposed project and whether the sub-applicant will need to obtain any permits from your office. The applicant is the Vermilion Parish Government. We would appreciate your comments on this project within fifteen days. If we do not receive comments from you within this time period, we will assume that you have no concerns or issues with the proposed project. If appropriate, FEMA will add the condition that the applicant will be required to obtain applicable permits from your office.

Please contact Laurel Rohrer, Environmental Specialist by phone at (540) 842-3300, by mail at 1250 Poydras Street, 17th Floor, New Orleans, LA 70113, or by email at laurel.rohrer@associates.dhs.gov with any questions.

Sincerely,

FW

Cynthia Teeter
Environmental Liaison Officer
FEMA 1603/1607-DR-LA

Attachments: Project Description Scope of Work
Vicinity Map with Latitude and Longitude
Vicinity Map with Major Project Features Shown

This project entails construction of a flood wall and associated drainage improvements to reduce flooding at the Forked Island/East Broussard Elementary School, which is located at 19635 Columbus Road, Abbeville, LA (29.862872, -92.265361). The area to be enclosed is approximately 12 acres. Please see the scope of work below.

Damage Description:

On September 24, 2005, storm surge caused by Hurricane Rita inundated large portions of southwest Louisiana causing extensive flood damage to structures in Vermillion Parish. This project entails construction of a flood wall and associated drainage improvements to reduce flooding at the Forked Island/East Broussard Elementary School, which is located at 19635 Columbus Road, Abbeville, LA (29.862872, -92.265361).

Scope of work:

This project proposes to construct approximately 2,120 linear feet of earthen berm and 540 linear feet of concrete floodwall around the perimeter of the facilities to protect the Forked Island/East Broussard Elementary School from future flooding. The fill material for the proposed floodwall is proposed to be hauled in by the successful bidder/contractor for the project and will be taken from a location off-site from the Forked Island/East Broussard Elementary School site. The project also includes an interior drainage system consisting of a duplex 3,500 gallon per minute electric low lift pump, an underground storm water collection system, and discharge piping. Additionally, the project will include upgrading the existing sewer pump station and package sewage plant to assure continued operation of the facility during flooding events. The proposed improvement will provide protection to 4.0 feet above the current established base flood elevation (BFE) (100-year event) and 1.0 foot above the BFE of 13 feet as shown on the new preliminary DFIRM, and is approximately 3.5 feet higher than the level of the floodwaters experienced during Hurricane Rita. The area to be enclosed is approximately 12 acres. In general, the earthen berm will be approximately 76 feet wide (40 feet on the landside, 30 feet on the floodside, and 6 feet at the top), 9 feet high, and 14 feet above mean sea level in elevation. The berm will be sloped 4 to 1 on the landside and 3 to 1 on the floodside. The concrete flood wall will also be 9 feet high and 14 feet above mean sea level in elevation. There will be two gates along Columbus Road; each will be 22 feet wide. A retention pond will be constructed on the eastern portion of the site within the ring flood wall/berm. The retention pond will have protective fencing and will sloped 5 percent. A lift station will be constructed at the northeast corner of the property within the ring flood wall/berm. A drainage ditch will be constructed to run to the south toward the southern edge of the property and an existing ditch from the south wall of the earthen berm. The ditch will be approximately 28 feet wide, and contain two 14 inch diameter steel pipes and one 24 inch diameter storm drain pipe. The 24 inch drain pipe will be contained in a 7 foot high box culvert with a sluice gate. The ditch will be sloped 3 to 1. Some trees will need to be removed along the northern portion of the property.

Project Vicinity Map



Vicinity Map with Major Project Features Shown



Rohrer, Laurel (CTR)

From: Diane Hewitt [Diane.Hewitt@LA.GOV]
Sent: Monday, November 30, 2009 11:50
To: 'laurel.rohrer@associates.dhs.gov'
Subject: DEQ SOV: 91123/2685 Forked Island/E. Broussard ES

November 30, 2009

Ms. Cynthia Teeter, ELO
 FEMA
 1250 Poydras St., 17th St.
 New Orleans, LA 70113
laurel.rohrer@associates.dhs.gov

RE:
 91123/2685 Forked Island/E. Broussard ES
 FEMA
 Vermillion Parish

Dear Ms. Teeter:

The Department of Environmental Quality (LDEQ), Offices of Environmental Assessment and Environmental Services have received your request for comments on the above referenced project. Please take any necessary steps to obtain and/or update all necessary approvals and environmental permits regarding this proposed project.

There were no objections based on the information in the document submitted to us. However, the following comments have been included below. Should you encounter a problem during the implementation of this project, please notify LDEQ's Single-Point-of-contact (SPOC) at (225) 219-3640.

The Office of Environmental Services/Permits Division recommends that you investigate the following requirements that may influence your proposed project:

- If your project results in a discharge to waters of the state, submittal of a Louisiana Pollutant Discharge Elimination System (LPDES) application may be necessary.
- If the project results in a discharge of wastewater to an existing wastewater treatment system, that wastewater treatment system may need to modify its LPDES permit before accepting the additional wastewater.
- LDEQ has stormwater general permits for construction areas equal to or greater than one acre. It is recommended that you contact the LDEQ Water Permit Division at (225) 219-3181 to determine if your proposed improvements require one of these permits.
- All precautions should be observed to control nonpoint source pollution from construction activities.
- If any of the proposed work is located in wetlands or other areas subject to the jurisdiction of the U.S. Army Corps of Engineers, you should contact the Corps directly to inquire about the possible necessity for permits. If a Corps permit is required, part of the application process may involve a water quality certification from LDEQ.
- All precautions should be observed to protect the groundwater of the region.
- Please be advised that water softeners generate wastewaters that may require special limitations depending on local water quality considerations. Therefore if your water system improvements include water softeners, you are advised to contact the LDEQ Water Permits to determine if special water quality-based limitations will be necessary.
- Any renovation or remodeling must comply with LAC 33:III.Chapter 28.Lead-Based Paint Activities, LAC

11/30/2009

33:III.Chapter 27.Asbestos-Containing Materials in Schools and State Buildings (includes all training and accreditation), and LAC 33:III.5151.Emission Standard for Asbestos for any renovations or demolitions.

- If any solid or hazardous wastes, or soils and/or groundwater contaminated with hazardous constituents are encountered during the project, notification to LDEQ's Single-Point-of-Contact (SPOC) at (225) 219-3640 is required. Additionally, precautions should be taken to protect workers from these hazardous constituents.

Currently, Vermillion Parish is classified as an attainment parish with the National Ambient Air Quality Standards for all criteria air pollutants.

Please forward all future requests to Ms. Diane Hewitt, LDEQ/Performance Management/ P.O. Box 4301, Baton Rouge, LA 70821-4301, and your request will be processed as quickly as possible.

If you have any questions, please feel free to contact me at (225) 219-4079 or by email at diane.hewitt@la.gov. Permitting questions should be directed to the Office of Environmental Services at (225) 219-3181.

Sincerely,

Diane Hewitt
Performance Management
LDEQ/Community and Industry Relations
Business and Community Outreach Division
Office of the Secretary
P.O. Box 4301 (602 N. 5th Street)
Baton Rouge, LA 70821-4301
Phone: 225-219-4079
Fx: 225-325-8208
E-mail: diane.hewitt@la.gov

Rohrer, Laurel (CTR)

From: Rohrer, Laurel (CTR)
Sent: Wednesday, April 27, 2011 11:01 AM
To: 'bart.devillier@la.usda.gov'; 'cmichon@wld.la.gov'; 'karl.morgan@la.gov';
'nick.tamara@epamail.epa.gov'
Subject: Solicitation of Views Request - Vermilion Parish Flood Protection Project
Attachments: NEMIS 1603-0004 Vermilion Parish - Forked Island ES Flood Wall Project SOW.doc

Agency

U.S. Department of Homeland Security
Federal Emergency Management

FEMA-DR 1603/1607 LA
1 Seine Ct, 4th Floor
New Orleans, LA 70114



FEMA

April 27, 2011

MEMORANDUM TO: See Distribution

SUBJECT: Scoping Notification/Solicitation of Views

To Whom It May Concern:

The Department of Homeland Security's Federal Emergency Management Agency (FEMA) is mandated by the U.S. Congress to administer Federal disaster assistance pursuant to the Robert T. Stafford Disaster Relief and Emergency Assistance Act (Stafford Act), PL 93-288, as amended. Section 406 of the Stafford Act authorizes FEMA's Hazard Mitigation Program to provide funds to states and local governments to implement long-term hazard mitigation measures after a major disaster declaration.

The attached scope of work and aerial maps correspond to a proposed project for which FEMA funding has been requested.

On August 29, 2005, storm surge caused by Hurricane Katrina inundated large portions of southeast Louisiana causing extensive flood damage to structures in Vermilion Parish. The proposed flood protection project would occur at the Forked Island/East Broussard Elementary School in Abbeville, LA. Please note that in August 2006, the applicant's construction contractor, Sellers & Associates, consulted with your agency regarding this project; however, for various reasons, the project has not yet been approved, and construction has not yet begun. Due to the time lag of nearly five years, FEMA is re-consulting to be sure that no changes to the original decisions are warranted.

To ensure compliance with the National Environmental Policy Act (NEPA), Executive Orders (EOs), and other applicable Federal regulations, we will be preparing an Environmental Assessment (EA). To assist us in preparation of the EA, we request that your office review the attached documents for a determination as to the requirements of any formal consultations, regulatory permits, determinations, or authorizations.

Please respond within 30 calendar days of the date of this scoping notification. If our office receives no comments at the close of this period, we will assume that your agency does not object to the project as proposed.

Comments may be faxed to (504) 762-2353, emailed to Laurel.Rohrer@associates.dhs.gov or mailed to the attention of Laurel Rohrer, Environmental Department, at the address above.

For questions regarding this matter, please contact Laurel Rohrer, Environmental Specialist at (504) 762-2205.

Tiffany Winfield,
Environmental Supervisor

Distribution: USEPA, LWFD, LDNR, NRCS

LAUREL ROHRER, CFM, CHMM, REM
URS CORPORATION, NEPA ENVIRONMENTAL SPECIALIST
CONTRACTOR SUPPORT TO THE HAZARD MITIGATION GRANT PROGRAM
1 SEINE CT, NEW ORLEANS, LA 70114
DESK: 504-762-2205
FAX: 504-762-2353

Laurel Rohrer, CFM, CHMM, REM (CTR)

URS Corporation, Contractor
NEPA Environmental Specialist - Hazard Mitigation Grant Program
Federal Emergency Management Agency
4th Floor, Room 4049, FEMA Louisiana Recovery Office
1 Seine Court, 4th Floor
New Orleans, LA 70114
Office: (504) 762-2205
Cell: (504) 842-3300
Fax: (504) 762-2353
Email: laurel.rohrer@associates.dhs.gov

This project entails construction of a flood wall and associated drainage improvements to reduce flooding at the Forked Island/East Broussard Elementary School, which is located at 19635 Columbus Road, Abbeville, LA (29.862872, -92.265361). The area to be enclosed is approximately 12 acres. Please see the scope of work below.

Damage Description:

On September 24, 2005, storm surge caused by Hurricane Rita inundated large portions of southwest Louisiana causing extensive flood damage to structures in Vermillion Parish. This project entails construction of a flood wall and associated drainage improvements to reduce flooding at the Forked Island/East Broussard Elementary School, which is located at 19635 Columbus Road, Abbeville, LA (29.862872, -92.265361).

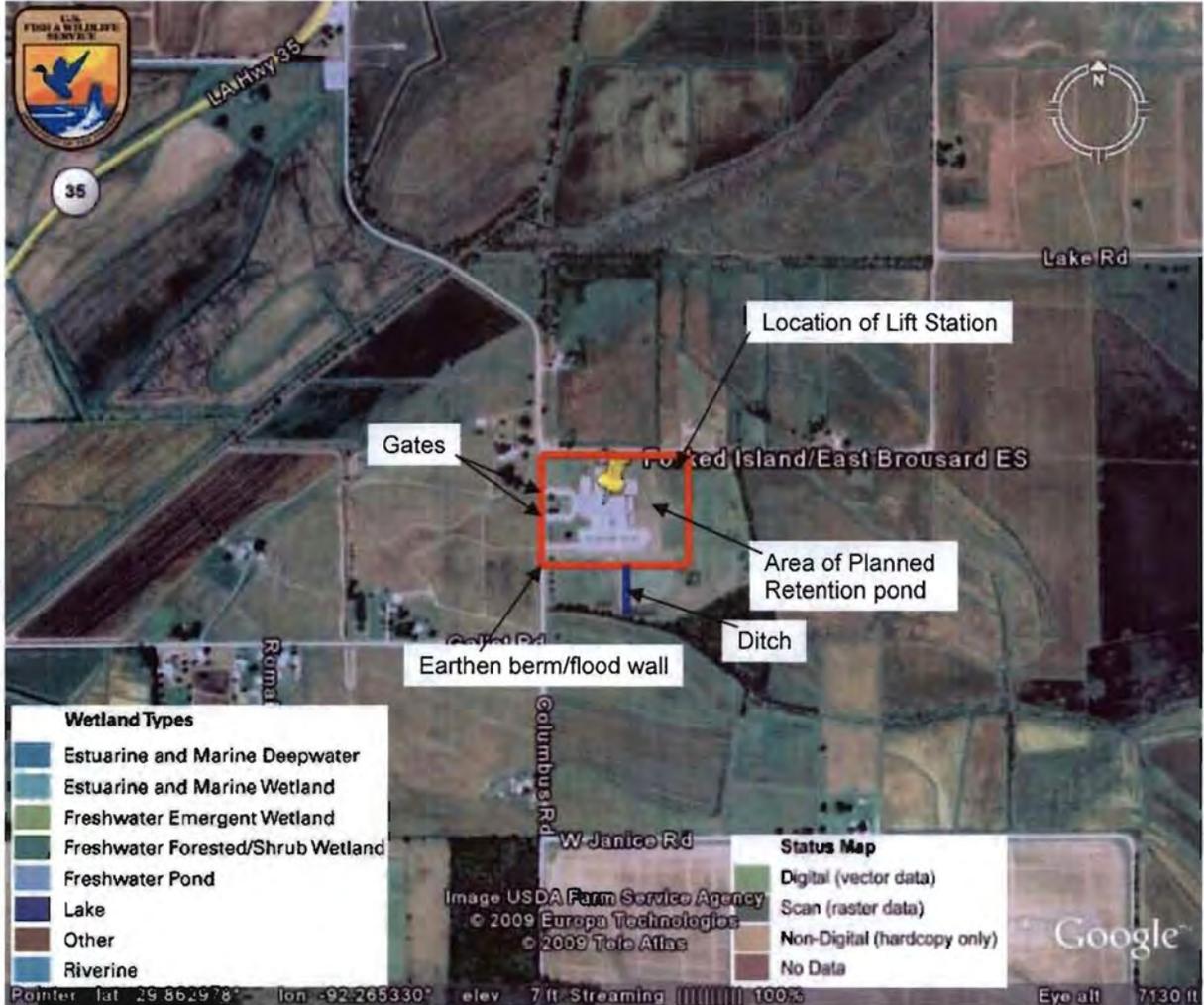
Scope of work:

This project proposes to construct approximately 2,120 linear feet of earthen berm and 540 linear feet of concrete floodwall around the perimeter of the facilities to protect the Forked Island/East Broussard Elementary School from future flooding. The fill material for the proposed floodwall is proposed to be hauled in by the successful bidder/contractor for the project and will be taken from a location off-site from the Forked Island/East Broussard Elementary School site. The project also includes an interior drainage system consisting of a duplex 3,500 gallon per minute electric low lift pump, an underground storm water collection system, and discharge piping. Additionally, the project will include upgrading the existing sewer pump station and package sewage plant to assure continued operation of the facility during flooding events. The proposed improvement will provide protection to 4.0 feet above the current established base flood elevation (BFE) (100-year event) and 1.0 foot above the BFE of 13 feet as shown on the effective DFIRM, and is approximately 3.5 feet higher than the level of the floodwaters experienced during Hurricane Rita. The area to be enclosed is approximately 12 acres. In general, the earthen berm will be approximately 76 feet wide (40 feet on the landside, 30 feet on the floodside, and 6 feet at the top), 9 feet high, and 14 feet above mean sea level in elevation. The berm will be sloped 4 to 1 on the landside and 3 to 1 on the floodside. The concrete flood wall will also be 9 feet high and 14 feet above mean sea level in elevation. There will be two gates along Columbus Road; each will be 22 feet wide. A retention pond will be constructed on the eastern portion of the site within the ring flood wall/berm. The retention pond will have protective fencing and will sloped 5 percent. A lift station will be constructed at the northeast corner of the property within the ring flood wall/berm. A drainage ditch will be constructed to run to the south toward the southern edge of the property and an existing ditch from the south wall of the earthen berm. The ditch will be approximately 28 feet wide, and contain two 14 inch diameter steel pipes and one 24 inch diameter storm drain pipe. The 24 inch drain pipe will be contained in a 7 foot high box culvert with a sluice gate. The ditch will be sloped 3 to 1. Some trees will need to be removed along the northern portion of the property.

Project Vicinity Map



Vicinity Map with Major Project Features Shown





State of Louisiana
DEPARTMENT OF NATURAL RESOURCES
OFFICE OF COASTAL MANAGEMENT

04/29/2011

U.S. DEPARTMENT OF HOMELAND SECURITY - FEMA
1 SEINE CT., 4TH FLOOR
NEW ORLEANS, LA 70114

RE: P20110540, Solicitation of Views
DEPARTMENT OF HOMELAND SECURITY - FEMA
Description: Construct flood protection project at the Forked Island/East Broussard Elementary School at 19635 Columbus Rd. in Abbeville
Location: Lat 29° 51' 46.34"N / Long -92° 15' 55.3"W; 19635 Columbus Road Abbeville,
Vermilion Parish, LA

Dear Laurel Rohrer:

We have received your Solicitation of Views for the above referenced project, which has been found to be outside the Louisiana Coastal Zone. Therefore, pursuant to the provisions of LA R.S. 49:214.25.E, a Coastal Use Permit will not be required.

This determination is valid for two (2) years from the date of this letter. If the proposed activity is not initiated within this 2-year period, this determination will expire and the applicant will be required to submit a new application.

This determination has been made on the basis of information provided by your application. If it is later established that you furnished erroneous data, you may be directed to alter or modify your plans, to remove structures you have installed, and/or to restore the work area to pre-project conditions at your own expense. If it is established that you knowingly furnished erroneous data, you could also be subject to legal action.

The drawings submitted with your referenced application are attached hereto and made a part of the record. If you have any questions regarding this authorization, please contact our office at (225) 342-7591 or (800) 267-4019.

Sincerely,



Greg Ducote
For Karl L. Morgan, Acting

Administrator
Greg Ducote/jbp

Attachments

Final Plats:

1) [P20110540](#) [Final Plats](#) [04/27/2011](#)

cc: Pete Serio, COE w/plats
Dave Butler, LDWF w/plats
Peggy Rooney, OCM w/plats
Stephen Broussard, LED w/plats
Charlie Mestayer, CMD/FI w/plats

Rohrer, Laurel (CTR)

From: Rohrer, Laurel (CTR)
Sent: Wednesday, April 27, 2011 11:10 AM
To: 'Amy.E.Powell@useace.army.mil'
Subject: Solicitation of Views Request - Vermilion Parish Flood Protection Project
Attachments: NEMIS 1603-0004 Vermilion Parish - Forked Island ES Flood Wall Project SOW.doc

Amy,

Vermilion Parish is requesting HMGP funding to construct a flood wall/berm around the Forked Island/East Broussard Elementary School in Abbeville, LA. The attached scope of work and aerial maps correspond to the proposed project.

Please note that in August 2006, the applicant's construction contractor, Sellers & Associates, consulted with your agency regarding this project; however, for various reasons, the project has not yet been approved, and construction has not yet begun. Due to the time lag of nearly five years, FEMA is re-consulting to be sure that no changes to the original decisions are warranted. The original SOV response is listed as account # MVN-2006-2992-SQ.

Please respond within 30 calendar days of the date of this scoping notification. If our office receives no comments at the close of this period, we will assume that your agency does not object to the project as proposed.

Comments may be faxed to (504) 762-2353, emailed to Laurel.Rohrer@associates.dhs.gov or mailed to the attention of Laurel Rohrer, Environmental Department, at the address above.

For questions regarding this matter, please contact Laurel Rohrer, Environmental Specialist at (504) 762-2205.

Laurel Rohrer, CFM, CHMM, REM (CTR)

URS Corporation, Contractor

NEPA Environmental Specialist - Hazard Mitigation Grant Program

Federal Emergency Management Agency

4th Floor, Room 4049, FEMA Louisiana Recovery Office

1 Seine Court, 4th Floor

New Orleans, LA 70114

Office: (504) 762-2205

Cell: (540) 842-3300

Fax: (504) 762-2353

Email: laurel.rohrer@associates.dhs.gov

This project entails construction of a flood wall and associated drainage improvements to reduce flooding at the Forked Island/East Broussard Elementary School, which is located at 19635 Columbus Road, Abbeville, LA (29.862872, -92.265361). The area to be enclosed is approximately 12 acres. Please see the scope of work below.

Damage Description:

On September 24, 2005, storm surge caused by Hurricane Rita inundated large portions of southwest Louisiana causing extensive flood damage to structures in Vermillion Parish. This project entails construction of a flood wall and associated drainage improvements to reduce flooding at the Forked Island/East Broussard Elementary School, which is located at 19635 Columbus Road, Abbeville, LA (29.862872, -92.265361).

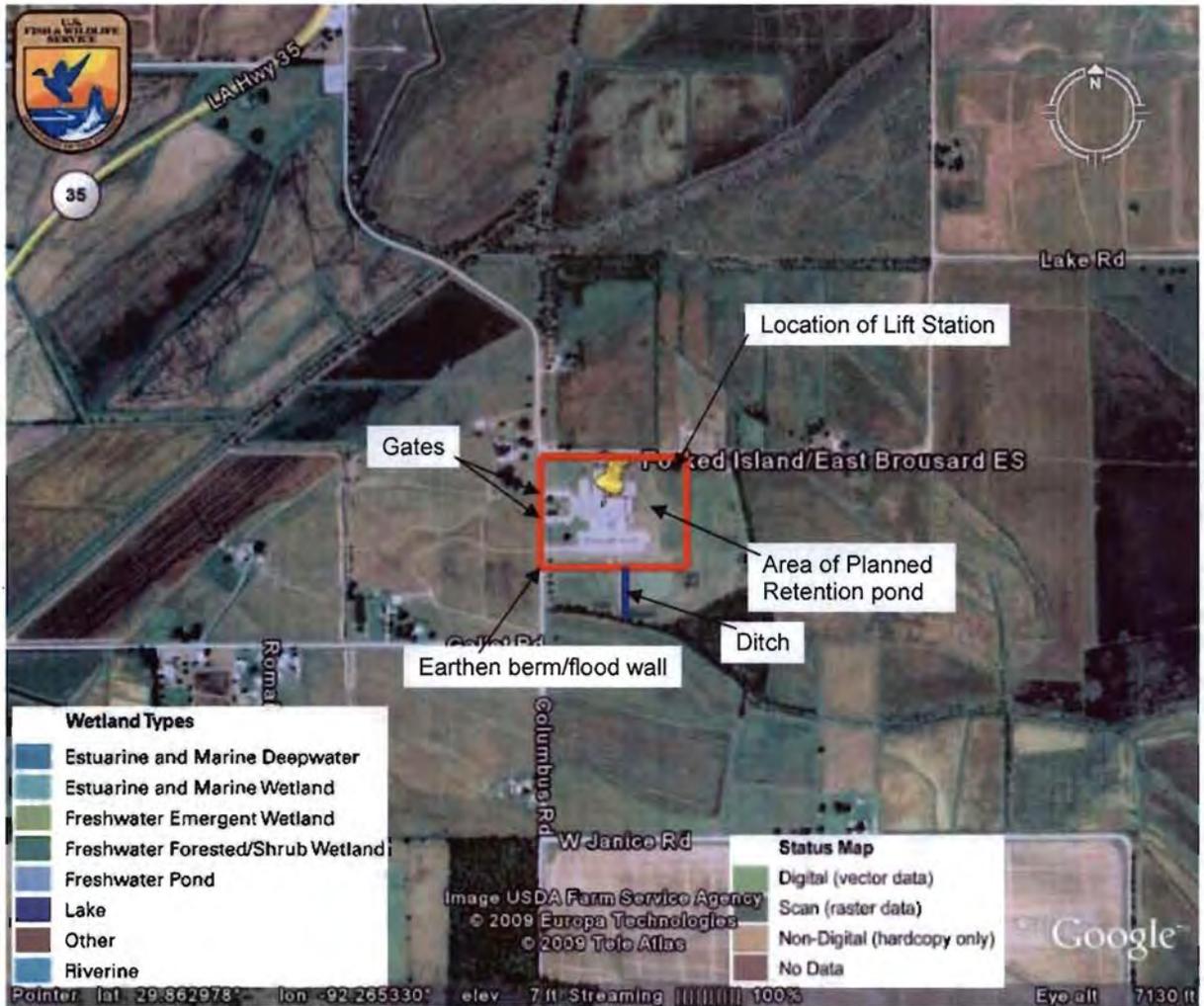
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Project Vicinity Map



Vicinity Map with Major Project Features Shown



1603-0004



DEPARTMENT OF THE ARMY
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

REPLY TO
ATTENTION OF

JUN 16 2011

Operations Division
Surveillance and Enforcement Section

Ms. Laurel Rohrer
FEMA
1 Seine Ct., 4th Floor
New Orleans, Louisiana 70114

Dear Ms. Rohrer:

Reference is made to your application for a Department of the Army (DA) permit to construct a flood protection project on property located in Section 33, Township 13 South, Range 2 East, Vermilion Parish, Louisiana.

Based on review of recent maps, aerial photography, soils data, and the information provided with your application, we have determined that the specific site of your project is not in a wetland subject to U.S. Army Corps of Engineers' jurisdiction. A DA permit under Section 404 of the Clean Water Act will not be required for the deposition or redistribution of dredged or fill material on this site. Therefore, we are returning your application. Any changes or modifications to the proposed project will require a revised determination.

You are advised that this approved jurisdictional determination is valid for a period of 5 years from the date of this letter unless new information warrants revision prior to the expiration date or the District Commander has identified, after public notice and comment, that specific geographic areas with rapidly changing environmental conditions merit re-verification on a more frequent basis.

Should there be any questions concerning these matters, please contact Mr. Brian Oberlies at (504) 862-2275 and reference our Account No. MVN-2011-01165-SY. The New Orleans District Regulatory Branch is committed to providing quality and timely service to our customers. In an effort to improve customer service, please complete and return the enclosed Customer Service Survey

Sincerely,

Pete J. Serio
Chief, Regulatory Branch

Enclosures

Vicinity Map with Major Project Features Shown



USACE	
FSV / IH	Date: <u>6-7-2011</u>
Botanist: <u>Bew</u>	
Requestor: <u>ROHRER</u>	
# <u>MVN-2011-01165-SY</u>	
<input type="checkbox"/> - NON-WETLAND	

APPROVED
 JURISDICTIONAL DETERMINATION



Louisiana Department of Natural Resources
Office of Coastal Management (OCM)

Joint Permit Application

For Work Within the Louisiana Coastal Zone



U.S. Army Corps Of Engineers (COE)
New Orleans District

Print Application

Permit Number: P20110540

Date Received: 04/27/2011

Step 1 of 15 - Applicant Information

Applicant/Company Name: Department of Homeland Security - **Applicant Type:** FEMA GOVERNMENT AGENCY

Mailing Address: 1 Seine Court
4th Floor
New Orleans, LA 70114

Contact Information: Laurel Rohrer

Daytime: 504 762 2205 **Fax:** 504 762 2353 **Contact Email:** Laurel.Rohrer@associates.dhs.gov

Step 2 of 15 - Agent Information

Company Name:

Mailing Address:

Contact Information:

Daytime: **Fax:** **Contact Email:**

Step 3 of 15 - Permit Type

Coastal Use Permit (CUP) Solicitation of Views (SOV) Request for Determination (RFD)

Step 4 of 15 - Pre-Application Activity

a. Have you participated in a Pre-Application or Geological Review Meeting for the proposed project?

No Yes Date meeting was held:

Attendees:

APPROVED JURISDICTIONAL DETERMINATION FORM

U.S. Army Corps of Engineers

To view the unedited version of the form go to: <http://www.mvn.usace.army.mil/regulatory/finalform.htm>.

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 6-7-2011

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: MVN 2011-01165-SY

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: Louisiana County/parish/borough: Vermilion City:
Center coordinates of site (lat/long in degree decimal format): Lat. 29.862982° N, Long. -92.265390° W.
Universal Transverse Mercator:

Name of nearest waterbody: Touchets Canal
Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows:
Name of watershed or Hydrologic Unit Code (HUC): 0808020 Mermentau LA
[X] Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
[] Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

[X] Office (Desk) Determination. Date: 6-7-2011
[] Field Determination. Date(s):

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There are no "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

SECTION III: CWA ANALYSIS. Not Applicable

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

- [X] Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Ms. Laurel Rohrer, FEMA.
[X] Data sheets prepared/submitted by or on behalf of the applicant/consultant.
[] Office concurs with data sheets/delineation report.
[] Office does not concur with data sheets/delineation report.
[] Data sheets prepared by the Corps:
[] Corps navigable waters' study:
[X] U.S. Geological Survey Hydrologic Atlas:
[] USGS NHD data.
[X] USGS 8 and 12 digit HUC maps.
[X] U.S. Geological Survey map(s). Cite scale & quad name:Forked Island; 1:24K.
[X] USDA Natural Resources Conservation Service Soil Survey. Citation:NRCS web soil survey.
[] National wetlands inventory map(s). Cite name:
[] State/Local wetland inventory map(s):
[] FEMA/FIRM maps:
[] 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
[X] Photographs: [X] Aerial (Name & Date):98,04,05,08.
or [] Other (Name & Date):
[] Previous determination(s). File no. and date of response letter:
[] Applicable/supporting case law:
[] Applicable/supporting scientific literature:
[] Other information (please specify):

B. ADDITIONAL COMMENTS TO SUPPORT JD: The entire project site consist of uplands.

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: Ms. Laurel Rohrer	File Number: 2011-01165-SY	Date: JUN 16 2011
Attached is:		See Section below
	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A
	PROFFERED PERMIT (Standard Permit or Letter of permission)	B
	PERMIT DENIAL	C
X	APPROVED JURISDICTIONAL DETERMINATION	D
	PRELIMINARY JURISDICTIONAL DETERMINATION	E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at http://www.usace.army.mil/cecw/pages/rec_materials.aspx or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact: Rob Heffner (504-862-1288)
Chief, Surveillance & Enforcement Section
U.S. Army Corps of Engineers
P.O. Box 60627
New Orleans, LA 70160

If you only have questions regarding the appeal process you may also contact: James B. Wiseman, Jr.
Administrative Appeals Review Officer
USACE – Mississippi Valley Division
P.O. Box 80
Vicksburg, MS 39181-0080
(601) 634-5820

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

Signature of appellant or agent.	Date:	Telephone number:
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Rohrer, Laurel (CTR)

From: Rohrer, Laurel (CTR)
Sent: Wednesday, April 27, 2011 11:32 AM
To: 'seth_bordelon@fws.gov'
Subject: Solicitation of Views Request - Vermilion Parish Flood Protection Project
Attachments: 1603-0004 Vermilion Parish USFWS Consultation letter.doc

Mr. Bordelon,

Vermilion Parish is requesting HMGP funding to construct a flood wall/berm around the Forked Island/East Broussard Elementary School in Abbeville, LA. The attached scope of work and aerial maps correspond to the proposed project.

Please note that in August 2006, the applicant's construction contractor, Sellers & Associates, consulted with your agency regarding this project; however, for various reasons, the project has not yet been approved, and construction has not yet begun. Due to the time lag of nearly five years, FEMA is re-consulting to be sure that no changes to the original decisions are warranted.

Please respond within 30 calendar days of the date of this scoping notification. If our office receives no comments at the close of this period, we will assume that your agency does not object to the project as proposed.

Comments may be faxed to (504) 762-2353, emailed to Laurel.Rohrer@associates.dhs.gov or mailed to the attention of Laurel Rohrer, Environmental Department, at the address above.

For questions regarding this matter, please contact Laurel Rohrer, Environmental Specialist at (504) 762-2205.

Laurel Rohrer, CFM, CHMM, REM (CTR)

URS Corporation, Contractor

NEPA Environmental Specialist - Hazard Mitigation Grant Program

Federal Emergency Management Agency

4th Floor, Room 4049, FEMA Louisiana Recovery Office

1 Seine Court, 4th Floor

New Orleans, LA 70114

Office: (504) 762-2205

Cell: (504) 842-3300

Fax: (504) 762-2353

Email: laurel.rohrer@associates.dhs.gov



FEMA

U.S. Department of Homeland Security
DR-1603-LA
1 Seine Court, 4th Floor
New Orleans, LA 70114
504-762-2000
504-762-2353 (Fax)

April 27, 2011

Mr. Seth Bordelon
Fish and Wildlife Biologist
U.S. Fish and Wildlife Service
646 Cajundome Blvd., Ste. 400
Lafayette, LA 70506

Subject: Vermilion Parish Government
Abbeville, Louisiana
Forked Island/East Broussard Elementary School Flood Protection Construction
NEMIS # 1603-0004 FEMA-1603-DR-LA

Dear Mr. Bordelon:

FEMA is considering providing Hazard Mitigation Grant Program funding for the attached project in relation to Hurricanes Katrina and Rita (FEMA-1603/1607-DR-LA). Please review the following project located at the Fork Island/East Broussard Elementary School, Abbeville, LA, for effects to all federal trust resources. We would appreciate your comments on this project within thirty days. If we do not receive comments from you within this time period, we will assume that you have no concerns or issues with the proposed project. If appropriate, FEMA will condition funding approval or funding continuance based on the applicant's obtaining applicable permits from your office.

Please contact Laurel Rohrer, Environmental Specialist by phone at (540) 842-3300, by mail at 1 Seine Court, 4th Floor, New Orleans, LA 70114, or by email at laurel.rohrer@associates.dhs.gov with any questions.

Sincerely,

Tiffany Winfield
Environmental Supervisor
FEMA 1603/1607-DR-LA

Attachments: Project Description
Project Location Maps
Project Wetland Map

Mr. Bordelon,

This project entails construction of a flood wall and associated drainage improvements to reduce flooding at the Forked Island/East Broussard Elementary School, which is located at 19635 Columbus Road, Abbeville, LA (29.862872, -92.265361). The area to be enclosed is approximately 12 acres. Please see the scope of work below.

Damage Description:

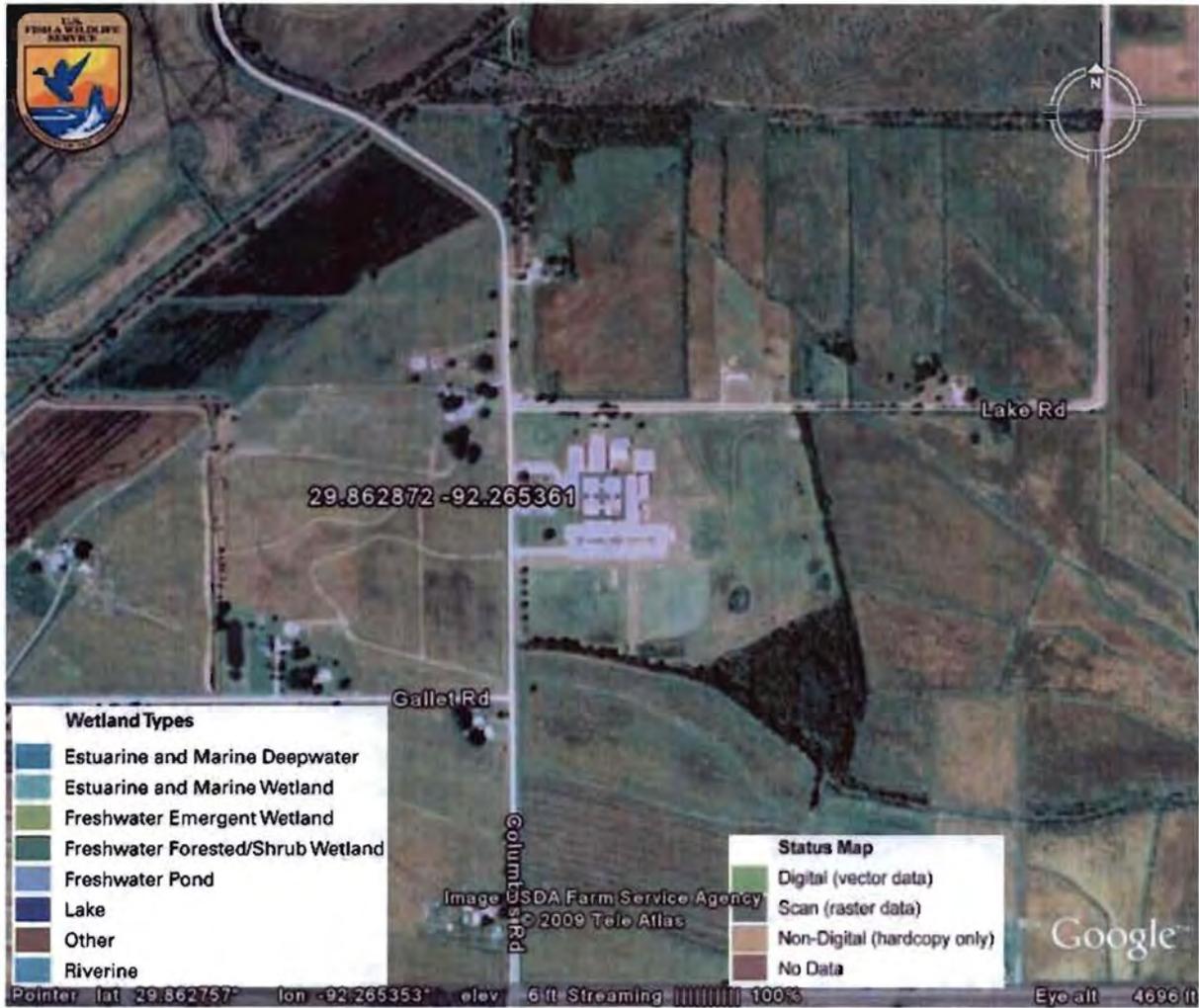
On September 24, 2005, storm surge caused by Hurricane Rita inundated large portions of southwest Louisiana causing extensive flood damage to structures in Vermillion Parish. This project entails construction of a flood wall and associated drainage improvements to reduce flooding at the Forked Island/East Broussard Elementary School, which is located at 19635 Columbus Road, Abbeville, LA (29.862872, -92.265361).

Scope of work:

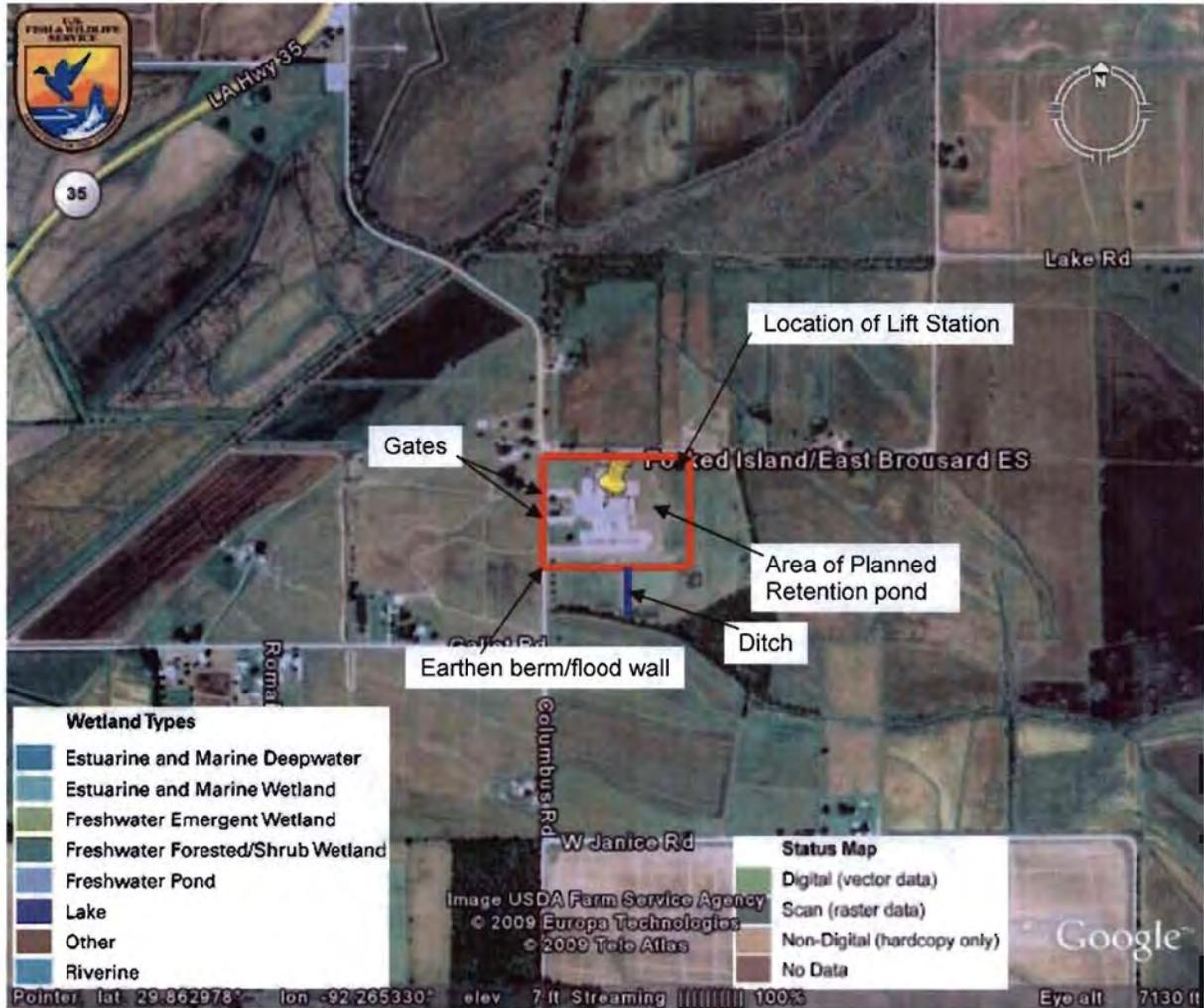
This project proposes to construct approximately 2,120 linear feet of earthen berm and 540 linear feet of concrete floodwall around the perimeter of the facilities to protect the Forked Island/East Broussard Elementary School from future flooding. The fill material for the proposed floodwall is proposed to be hauled in by the successful bidder/contractor for the project and will be taken from a location off-site from the Forked Island/East Broussard Elementary School site. The project also includes an interior drainage system consisting of a duplex 3,500 gallon per minute electric low lift pump, an underground storm water collection system, and discharge piping. Additionally, the project will include upgrading the existing sewer pump station and package sewage plant to assure continued operation of the facility during flooding events. The proposed improvement will provide protection to 4.0 feet above the current established base flood elevation (BFE) (100-year event) and 1.0 foot above the BFE of 13 feet as shown on the effective DFIRM, and is approximately 3.5 feet higher than the level of the floodwaters experienced during Hurricane Rita. The area to be enclosed is approximately 12 acres. In general, the earthen berm will be approximately 76 feet wide (40 feet on the landside, 30 feet on the floodside, and 6 feet at the top), 9 feet high, and 14 feet above mean sea level in elevation. The berm will be sloped 4 to 1 on the landside and 3 to 1 on the floodside. The concrete flood wall will also be 9 feet high and 14 feet above mean sea level in elevation. There will be two gates along Columbus Road; each will be 22 feet wide. A retention pond will be constructed on the eastern portion of the site within the ring flood wall/berm. The retention pond will have protective fencing and will sloped 5 percent. A lift station will be constructed at the northeast corner of the property within the ring flood wall/berm. A drainage ditch will be constructed to run to the south toward the southern edge of the property and an existing ditch from the south wall of the earthen berm. The ditch will be approximately 28 feet wide, and contain two 14 inch diameter steel pipes and one 24 inch diameter storm drain pipe. The 24 inch drain pipe will be contained in a 7 foot high box culvert with a sluice gate. The ditch will be sloped 3 to 1. Some trees will need to be removed along the northern portion of the property.

Please note that in August 2006, the applicant's construction contractor, Sellers & Associates, consulted with your agency regarding this project; however, for various reasons, the project has not yet been approved, and construction has not yet begun. Due to the time lag of nearly five years, FEMA is re-consulting to be sure that no changes to the original decision is warranted.

Project Vicinity Map



Vicinity Map with Major Project Features Shown



Project Wetland Map



