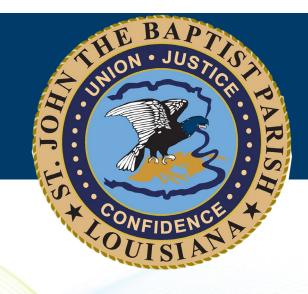
WASTEWATER IMPROVEMENTS and CONSOLIDATION PLAN

Clean Water State Revolving Fund Project







Clean Water State Revolving Fund

WHAT IS CWSRF?

- >>> Funding Program Administered by LDEQ
- >>> Provides Financial Assistance for Eligible Projects
- >>> Low Interest Loans
- Project Compliance with Clean Water Drinking Act

REQUIREMENTS

- Environmental Information Document (EID)
 - >>> Evaluate Alternatives & Environmental Impacts
 - Notify Cross-Cutting Agencies of Proposed Project
 - Hold Public Hearing
 - Discuss Potential Environmental Impacts
- >>>> Preliminary Engineering Report (PER)
 - >>> Evaluate Alternatives
 - >>> Include Engineering Cost Estimate for Proposed Project
 - >>> Provide Financial Information

Existing East Bank Wastewater System



Belle Pointe

Location: 30° 05′ 27.6″ N 90° 32′ 06.6″ W

Service Area: Northwest LaPlace

Average Daily Flow: 0.07 MGD

Treatment Type: Activated Sludge

Discharge: Drainage Ditch to Reserve Relief Canal to Lake Maurepas



Woodland WWTP

Location: 30° 05′ 44.3″ N 90° 28′ 19.9″ W

Service Area: Northeast LaPlace

Average Daily Flow: 0.50 MGD

Treatment Type: Activated Sludge

Discharge: Drainage Ditch to Vicknair Canal to Maurepas Swamp



River Road WWTP

Location: 30° 03′ 44.2″ N 90° 30′ 07.2″ W

Service Area: LaPlace

Average Daily Flow: 3.68 MGD

Treatment Type: Activated Sludge

> Discharge: MS River



Reserve WWTP

Location: 30° 05′ 22.5″N 90° 33′ 07.7″ W

> Service Area: Reserve

Average Daily Flow: 1.43 MGD

Treatment Type: Oxidation Pond

Discharge: MS River



Garyville WWTP

Location: 30° 04′ 20.1″ N 90° 37′ 24.2″ W

Service Area: Garyville

Average Daily Flow: 0.73 MGD

Treatment Type: Activated Sludge

Discharge: MS River

Existing West Bank Wastewater System



Wallace WWTP

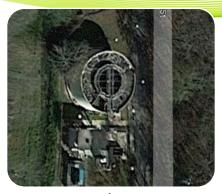
Location: 30° 02′ 36.6″ N 90° 39′ 37.4″ W

Service Area: Wallace

Average Daily Flow: 0.13 MGD

Treatment Type: Activated Sludge

> Discharge: MS River



Central WWTP

Location: 30° 01′ 51.3″ N 90° 35′ 25.2″ W

Service Area: Edgard

Average Daily Flow: 0.17 MGD

Treatment Type: Activated Sludge

> Discharge: MS River



Tigerville WWTP

Location: 30° 02′ 05.6″ N 90° 32′ 33.9″ W

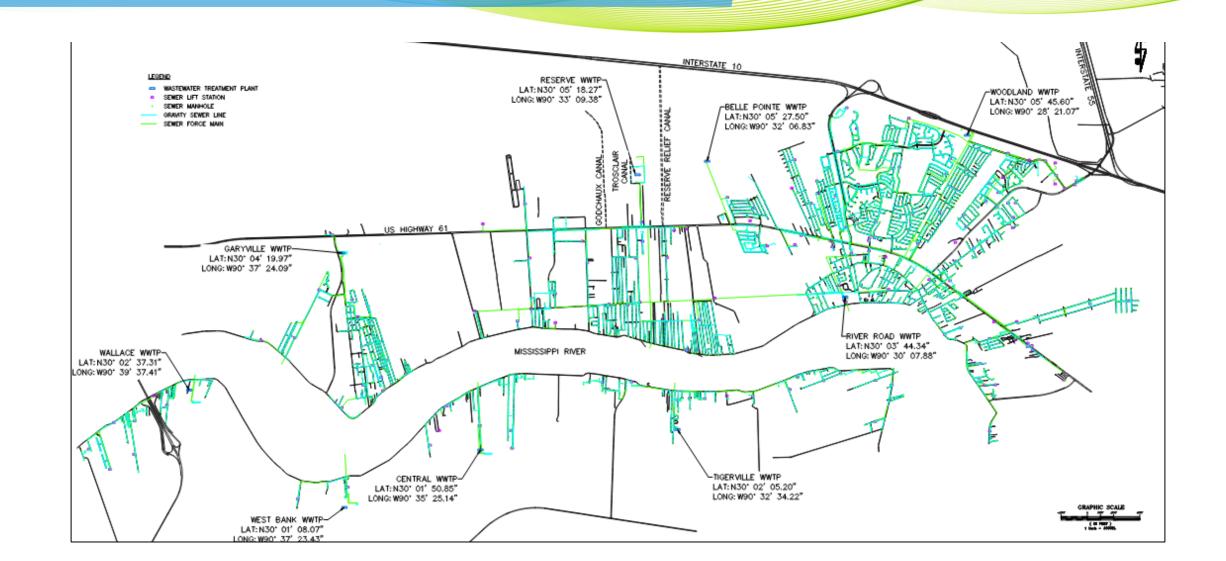
Service Area: Tigerville and Lucy

Average Daily Flow: 0.25 MGD

Treatment Type: Activated Sludge

> Discharge: MS River

Existing WWTPs Location Map



Wastewater System Plan

EAST BANK One East Bank Treatment Facility

New Garyville Pump Station and Force Main Woodland Pump Station and Force Main Decommission and Demolish Belle Pointe, Woodland, and Garyville WWTPs

River Road WWTP and Reserve WWTP Connection

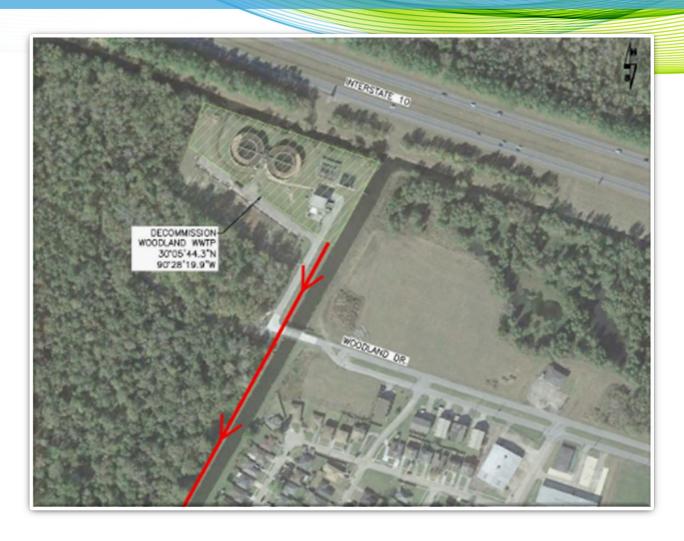
Reserve WWTP
Capacity Expansion

Decommission and Demolish River Road WWTP Reserve Wastewater Treatment Plant

Belle Pointe Service Area Proposed Project Plan



Woodland Service Area Proposed Project Plan





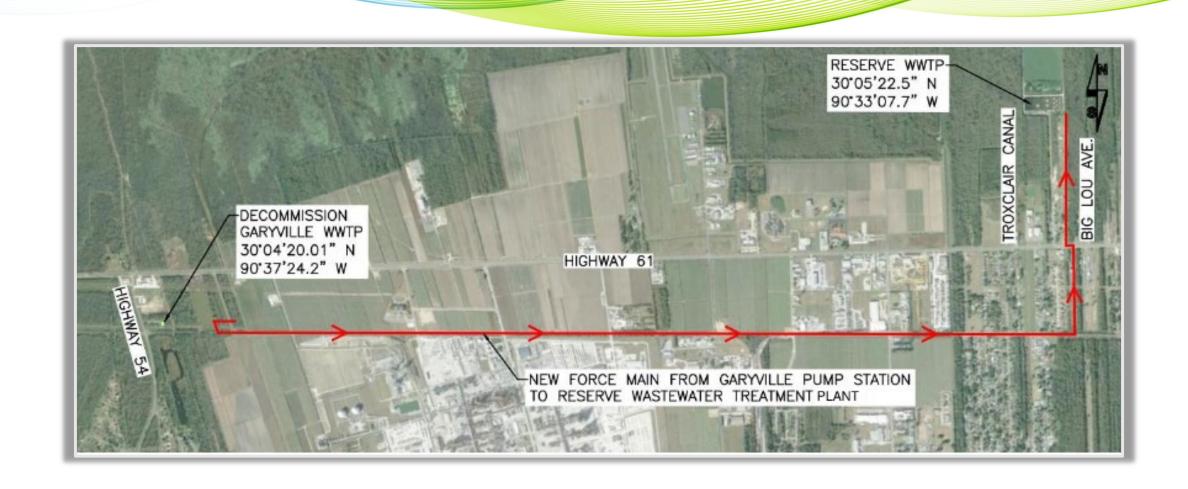
River Road Service Area Proposed Project Plan



Reserve Service Area Proposed Project Plan



Garyville Service Area Proposed Project Plan



Wastewater System Plan

WEST BANK

One West Bank Treatment Facility

Rehabilitate Jack Street LS and Force Main Connection to West Bank WWTP

Decommission and Demolish Wallace WWTP

Rehabilitate Tigerville PS and New Force Main to 1st Street LS

Decommission and Demolish Tigerville WWTP

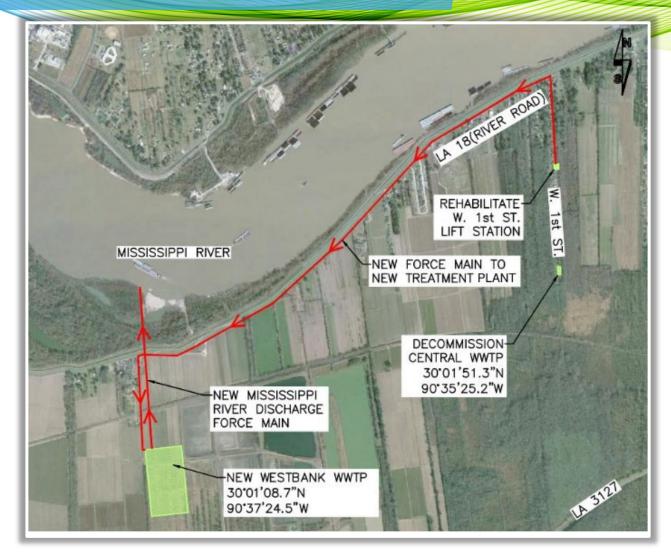
Rehabilitate 1st St. Lift Station and New Force Main to WWTP

Decommission and Demolish Central WWTP New 1.0 MGD West Bank Wastewater Treatment Plant

Wallace Service Area Proposed Project Plan



Central Service Area Proposed Project Plan



Tigerville Service Area Proposed Project Plan



Wastewater System Plan

EAST and WEST BANK

GRAVITY SYSTEM IMPROVEMENTS

- >>> Inflow and Infiltration Improvements
 - >>> Smoke Testing
 - >>> Point Repairs
 - >>> Line Replacement

- >>> Lift Station Rehabilitations
 - >>> Pump Upgrades
 - >>> Piping and Valve Work
 - >>> Controls Improvements

Wastewater System Plan

EAST and WEST BANK

Lift Station Rehabilitations

>>> East Bank

- >>> Central Avenue LS
- >>> Cambridge LS #2
- >>> Cambridge LS #3
- >>> Main Street LS #1
- >>> Main Street LS #2
- >>> River Forest LS #1
- >>> Ned Duhe LS
- >>> Ezekial Jackson LS
- >>> Esperanza LS



- >>> West 13th Street LS
- >>> East 13th Street LS
- >>> West 8th Street LS

Regulations

EAST BANK

Violations

All Wastewater Treatment Plants are subject to the Louisiana Water Quality Regulations (LAC 33: Chapter IX), which require permits for the discharge of pollutants from any point source into waters of the state of Louisiana. This surface water discharge permitting system is administered under the Louisiana Pollutant Discharge Elimination System (LPDES) program.



Compliance Order

May 18, 2018 by the Louisiana Department of Environmental Quality, for River Road Treatment Plant's effluent quality failing to comply with the LPDES permit limitations.



Notice of Violation

February 14, 2020 by the Louisiana Department of Environmental Quality, for Woodland Treatment Plant's effluent quality failing to comply with the LPDES permit limitations.



Notice of Excursions and Non-Compliance

- April 14, 2021 by the Louisiana Department of Environmental Quality, for Woodland Treatment Plant's effluent quality failing to comply with the LPDES permit limitations.
- June 10, 2021 by the Louisiana Department of Environmental Quality, for **River Road** Treatment Plant's effluent quality failing to comply with the LPDES permit limitations.
- June 16, 2021 by the Louisiana Department of Environmental Quality, for **Reserve** Treatment Plant's effluent quality failing to comply with the LPDES permit limitations.

Regulations

WEST BANK

Violations

All Wastewater Treatment Plants are subject to the Louisiana Water Quality Regulations (LAC 33: Chapter IX), which require permits for the discharge of pollutants from any point source into waters of the state of Louisiana. This surface water discharge permitting system is administered under the Louisiana Pollutant Discharge Elimination System (LPDES) program.



Notice of Excursions and Non-Compliance

- >>> May 10, 2021 by the Louisiana Department of Environmental Quality, for Tigerville Treatment Plant's effluent quality failing to comply with the LPDES permit limitations.
- >>> May 10, 2021 by the Louisiana Department of Environmental Quality, for Garyville Treatment Plant's effluent quality failing to comply with the LPDES permit limitations.



Notice of Deficiency

- >>> May 10, 2021 by the Louisiana Department of Environmental Quality, for **Central** Treatment Plant's effluent quality failing to comply with the LPDES permit limitations.
- $\rangle\rangle\rangle$

Notice of Possible Significant Non-Compliance Notice

- May 6, 2021 by the Louisiana Department of Environmental Quality, for **Garyville** Treatment Plant's effluent quality failing to comply with the LPDES permit limitations.
- May 6, 2021 by the Louisiana Department of Environmental Quality, for **Tigerville** Treatment Plant's effluent quality failing to comply with the LPDES permit limitations.

Alternatives Considered

>>> Alternative #1

- No Action
 - This alternative would require the existing Belle Pointe, Woodland, River Road, Garyville, Wallace, Central, and Tigerville WWTPs to remain in operation and therefore continue exceeding LPDES permit limitations.

>>> Alternative #2:

- Expand Reserve Wastewater Treatment Plant and Construct New West Bank Wastewater Treatment Plant to Serve as Sole Treatment Facility Respective of Riverbank
 - This alternative would replace the existing Belle Pointe, Woodland, River Road, Garyville, Wallace, Central, and Tigerville WWTPs. The proposed replacement WWTPs are both Oxidation Pond Wastewater Treatment Facilities.

Selected Alternative



- >>> Reasons for Selecting Alternative #2
 - >>> The proposed alternative will ensure LPDES permit and EPA Clean Water Compliance
 - >>> The proposed alternative is conducive to improving health and safety of citizens associated with ditch drainage discharge
 - >>> The proposed alternative will eradicate unnecessary and expensive operation and maintenance costs
 - >>> The proposed alternative will rehabilitate, consolidate, or decommission dated and rundown infrastructure
 - >>> The proposed alternative will mitigate impacts of flooding, which results in sanitary sewer overflows
 - >>> No impacts to critical habitats of rare, threatened, or endangered species within Louisiana's boundary are anticipated for the proposed alternative.

The No Action alternative is not a practical option because it requires the existing treatment facilities to remain operational, and therefore out of compliance.

Alternatives Considered

Average Annual Wastewater O & M Cost					
Treatment Plant	Aver	age Annual	Estimated		
	O&M Cost		Electricity Cost		
Belle Pointe	\$	30,000	\$	10,200	
Woodland	\$	215,000	\$	75,000	
River Road	\$	655,000	\$	255,000	
Reserve	\$	200,000	\$	8,000	
Total East Bank	\$	1,100,000	\$	348,200	
Wallace	\$	16,000	\$	4,500	
Central	\$	30,000	\$	11,500	
Tigerville	\$	52,000	\$	22,000	
Total West Bank	\$	98,000	\$	38,000	
Collection System	\$	1,110,000		-	
Total WWTPs	\$	1,198,000	\$	386,200	
Total Wastewater O&M	\$	2,308,000			

Proposed WWTP Estimated O & M Cost								
	Reserve WWTP		Expanded		Estimated West		Total Proposed	
	Budget 2021		Reserve WWTP		Bank WWTP		O&M Cost	
			Estimated O&M		O & M Cost			
			Cost					
Chemicals	\$	50,000	\$	120,000	\$	10,000	\$	130,000
Utilities	\$	96,000	\$	230,400	\$	19,200	\$	249,600
Mechanical Maintenance	\$	20,000	\$	48,000	\$	4,000	\$	52,000
Electrical Maintenance	\$	5,000	\$	12,000	\$	1,000	\$	13,000
Operating Supplies	\$	15,000	\$	36,000	\$	3,000	\$	39,000
Permits	\$	8,500	\$	20,400	\$	1,700	\$	22,100
Total Oxidation Pond O&M	\$	194,500	\$	466,800	\$	38,900	\$	505,700
Collection System								\$ 1,110,000
Total Wastewater O&M								\$1,615,000

Alternatives Considered

EVALUATION ITEMS	ALTERNATIVE #1	ALTERNATIVE #2			
Description	NO ACTION	Expand Reserve Wastewater Treatment Plant and Construct New West Bank Wastewater Treatment Plan to Serve as Sole Treatment Facility Respective of Riverbank			
Plant Capacity	The existing capacities would remain.	RESERVE WWTP Average Daily Flow=12.0 MGD Peak Daily Flow=20.0 MGD WEST BANK WWTP Average Daily Flow=1.0 MGD Peak Daily Flow =4.0 MGD			
Location	The existing locations would remain.	Utilizes a centralized location on the East and West Banks of the MS River.			
Environmental Impacts	The existing WWTPs would remain operational, therefore discharging effluent that does not meet the LPDES permit limitations.	 West Bank site will require substantial clearing of shrubs and trees No access road to one of the project locations Requires servitudes, including one levee crossing 			

Solicitation of Views

Agencies Notified

Department of Natural Resources

EPA Region 6

Federal Emergency Management Agency, Region 6

St. John the Baptist Parish Floodplain Management and Hazard Mitigation

State Historic Preservation Officer

Louisiana Department of Environmental Quality

Louisiana Department of Transportation and Development

Louisiana Department of Wildlife and Fisheries

Louisiana Department of Wildlife and Fisheries-Louisiana Natural Heritage Program

Environmental Protection Agency, Region 6, Marine and Wetlands Section

Natural Resources Conservation Service

South Central Planning and Development Commission

Southeast Region National Parks Service

U.S. Army Corps of Engineers

U.S. Fish and Wildlife Service

Acts/Executive Orders

Archaeological and Historic Preservation Act

National Historic Preservation Act

Clean Air Act

Coastal Barriers Resources Act

Coastal Zone Management Act

Endangered Species Act

Fish and Wildlife Coordination Act

Farmland Protection Act

Floodplain Management, Executive Order 11988

Protection of Wetlands, Executive Order 11990

National Parks, Monuments

Safe Drinking Water Act

Groundwater

Sole Source Aquifer

Wild and Scenic Rivers Act

Action Required

- >>> Archaeological and Historical Preservation Act
 - >>> Phase I cultural resources survey at West Bank sites
- >>> Coastal Zone Management Act
 - >>> Apply for a Coastal Use Permit
- >>> Endangered Species Act & Fish and Wildlife Service
 - >>> If WDP tracked species are encountered within the project area, contact the WDP Data Manager
- >>> Farmland Protection Act
 - >>> IFPPA requires a Farmland Conversion Impact Rating

Action Required



Floodplain Management, Executive Order 11988

- Proper permits must be obtained
 - >>> Department of Army Permit Section 404 and Section 10
 - >>> Coastal Use Permit
- Any new structures or mechanical/electrical equipment must be elevated above base flood elevation
- Any substantially improved (more than 50% of the value of building) structures must be elevated above base flood elevation
- During construction clear debris and keeping project area open to allow for accumulation and flow of water
- >>> Comply with National Flood Insurance Program for water supply systems (44CFR 60.3)

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Protection of Wetlands, Executive Order 11990

- During construction clear debris and keeping project area open to allow for accumulation and flow of water
- Comply with National Flood Insurance Program for water supply systems (44CFR 60.3)



Safe Drinking Water Act

- Obtain LPDES permit for new West Bank WWTP
- Contact LDEQ Water Permit Division to determine if proposed project requires a permit
- Obtain Sewage Sludge and Biosolids Use or Disposal Permit. Notice of Intent Required if sewage sludge is to be hauled to landfill.

Estimated Monthly Bill



St. John the Baptist Parish does not expect any substantial increase in utility rates due to this project.

>>> No connection fees associated with this project

Water Rate= \$0.00 for first 4,000 gal

\$6.19/1000 gal for next 2,000 gal

\$5.07/1000 gal for next 4,000 gal

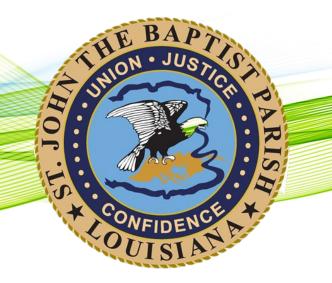
Residential sewerage is based on 85% of water consumption

Sewer Rate= \$5.37/1000 gal

Estimated Monthly Water Bill = \$22.63

Estimated Monthly Sewer Bill = \$36.97

Total Monthly Water & Sewer Bill = \$59.60



QUESTIONS?

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