MEETING 4 OVERVIEW

In October, LA SAFE conducted two types of meetings in Plaquemines Parish: round table discussions with parish officials and community open houses.

The LA SAFE team met with leaders and potential partners at the city and parish level in order to learn how the proposed projects could align with existing related efforts. This also helped the team identify potential hurdles in implementing certain projects, so they could plan with those obstacles in mind.

These same project and program updates were shared with community members at public meetings including a Vietnamese and Khmer language meeting. The LA SAFE team surveyed residents for their thoughts on the proposal ideas. These meetings provided the opportunity for residents and the project team to discuss ideas one-on-one. Meetings in Round 4 helped hone the ideas residents generated in the previous three rounds of meetings into final proposals to be evaluated during Round 5.

Round 4 Meeting Events in Plaquemines
- Stakeholders & Parish Staff Round Table  
  Tuesday 10.19.17
- Vietnamese/Cambodian Public Meeting  
  Thursday 11.06.17
- Public Meeting  
  Tuesday 11.09.17
MEETING 5 OVERVIEW

In the fifth and final round of meetings, residents reviewed six potential demonstration proposals for their parish, and voted for their preferred projects at a polling station. The meeting was a gallery-style exhibit with boards set up around the room, so that the residents could understand the LA SAFE process. The boards included a summary of previous meetings; future flood risk, land loss and subsidence maps; a 50-year vision map for the parish; and a policy proposal board that covered a range of issues expressed by residents in earlier meetings.

Demonstration proposal boards (shown in the Appendix) illustrated six different projects and programs that LA SAFE could fund. The boards included detailed descriptions, concept drawings and example images along with information on cost, location, area, and potential partners to give residents an idea of each project. Each proposal highlighted multiple community benefits, using the five categories that emerged in the previous meetings: Culture & Recreation, Stormwater Management, Housing & Development, Transportation, and Education, Economy & Jobs. This provided residents with a complete understanding of each project, in order to help them decide on their preferred proposals.
Below are summary descriptions of each of the 6 demonstration proposals that residents evaluated at the meeting. The full description of all these proposals can be found in the appendix.

**A. PLAQUEMINES HARBOR OF REFUGE**
Storm damage to commercial fishing vessels can significantly impact fishermen’s ability to recover after a hurricane. This project will create a harbor of refuge to provide a low-cost option for commercial fishermen to shelter their vessels during disaster events, and incorporates marina amenities, wet-and dry-docking facilities and green infrastructure.

**B. BELLE CHASSE WETLAND PARK**
This project will increase the water storage capacity of Planter’s Canal by creating a 180-acre wetland park designed to capture and hold overflow during heavy rain events. This will alleviate flooding in nearby areas and slow subsidence by letting water absorb into the ground. The park will provide recreational and educational opportunities, and connect to existing neighborhoods and trails.

**C. EMERGING INDUSTRY BUSINESS INCUBATOR**
This business accelerator will help diversify the economy by supporting new small businesses in alternative energy, coastal restoration, eco-tourism, and other local vendors. The building will house shared working space and the accelerator program will partner entrepreneurs with mentors in their field to help them start and grow their business.

**D. FISHERMAN & FARMER LOAN PROGRAM**
This program will create a low-interest loan fund for those in the fishing and agriculture industries who do not have access to traditional lines of credit. Loans can be used to upgrade equipment, diversify into additional industries, or enhance product quality. Loans will be paired with technical assistance to help borrowers develop business plans and apply for the loans.

**E. MENTAL HEALTH & SUBSTANCE ABUSE PROGRAM**
This program will provide case management services for residents struggling with mental health and substance abuse issues. These services will help disadvantaged populations work through emotional impacts of past disaster events and future increased flood risk.

**F. RED STAR YEAST BUILDING REDEVELOPMENT**
This project will renovate the Red Star Yeast building in Belle Chasse into a mixed-use development, with commercial and retail space on the ground floor and approximately 30 housing units above. The development will serve as a model for resilient design, integrating stormwater management features, installing renewable energy systems, and creating community spaces.
Residents left comments and feedback on the boards describing what they liked and disliked about each proposal. A summary of their feedback is below. All of the comments gathered are in the appendix.

**A: PLAQUEMINES HARBOR OF REFUGE**
Residents commented that Plaquemines Parish was in desperate need of a safe harbor for fishing vessels. They said that a harbor of refuge would help small businesses in the parish, and allow fishermen to get back to work sooner after an extreme weather event. The residents thought the location in Belle Chasse could be too far north for some boats to travel.

**B: BELLE CHASSE WETLAND PARK**
The residents saw the Wetland Park as a family friendly proposal, with educational and recreational value. Stakeholders thought added water retention was a benefit to the immediate area, but not for residents in the southern part of the parish. There were questions of how many miles of paths would be in the park, and how much water the park could store. Some residents commented that there could be partnership opportunities with Woodlands Conservancy.

**C: EMERGING INDUSTRY BUSINESS INCUBATOR**
Residents thought this proposal was an innovative idea that could bring in new commerce and opportunity, while also expanding existing businesses. There was some concern that the incubator could hurt existing businesses by creating new competition, and that it could be located somewhere different in order to benefit more residents in Plaquemines Parish.

**D: FISHERMAN & FARMER LOAN PROGRAM**
Stakeholders commented that this proposal would help fishermen and farmers grow their small businesses, but there were questions about how businesses would get the loans, and if people new to the industry would have access to the money available. Residents were concerned that this proposal could create even more debt, and therefore hurt the economy further.

**E: MENTAL HEALTH & SUBSTANCE ABUSE PROGRAM**
Residents commented that substance abuse is a major issue in the fishing industry, so the proposal could save lives and help families. There was concern that it may be underutilized, and that counseling treats the symptom instead of the cause.

**F: RED STAR YEAST BUILDING REDEVELOPMENT**
Currently, the Red Star Yeast Building is viewed as an “eyesore” to Plaquemines Parish residents, so the participants viewed the project as an opportunity to revitalize the area and bring more commerce downtown. Stakeholders commented that the business incubator could be collocated in the commercial space on the ground floor, and there could be partnership opportunities with the Port. Residents commented that there should be more funds focused in the southern part of the parish – that more efforts should be put into elevating buildings instead of new development in Belle Chasse.

“[The Mental Health Program] is the most needed, fills a void. Could help save lives. Could help people cope with loss in a productive way.” - Plaquemines Parish Resident
After reviewing all of the 6 proposals, residents visited the polling station and reviewed the proposal selection criteria, which includes public preference as one of the six components. Residents were given tokens to mark their preference for each of the six proposals. They used their two gold tokens to select their favorite two proposals; green tokens for their 3rd and 4th favorite proposals, and blue tokens for their least favorite proposals. Gold tokens were worth two points, green tokens were worth 1 point and blue tokens were worth 0 points.

At the end of the evening, the results of the polling were revealed, giving the participants a general idea of the outcome. In order to make the polling accessible to residents throughout the parish, and to minimize geographic bias, residents not at the meeting could access an online poll for 3 weeks following the meeting.

The Plaquemines Parish meeting was held on December 19 at the Port Sulphur Community Center/YMCA. Thirty-five residents and stakeholders signed in and participated. An additional meeting for Vietnamese- and Khmer-speaking (Cambodian) residents was held in Jefferson Parish on December 20th. This meeting was open to residents of Plaquemines, Terrebonne, Jefferson, and Lafourche Parishes. Eighty-five of the residents in attendance were from Plaquemines and cast their preferences. Following these meetings, an online poll collected preference input from 13 additional residents. The graph on the right shows the results of the preference polling.
PROPOSAL SELECTION

Both the public preference results from Round 5 and the online poll will inform the proposal selection. Public preference is one of the six scoring criteria that the project team will use to select proposals for funding. The LA SAFE team will announce the proposal selection in the first quarter of 2018, when the LA SAFE planning document is released.

1. Public Preference - The result of the meeting preference polling and an online poll.

2. Leverage Funds - The level of matching funds from other sources.

3. LMI Benefit - Points awarded to projects that benefit low-to-moderate income populations.

4. Public Benefit (Quantitative) - The level of benefit to the public that can be measured. For example, the number of units created in a housing proposal, or the amount of water stored in a stormwater management proposal.

5. Public Benefit (Qualitative) - The degree to which the project addresses future flood risk in a unique way and/or improves quality of life for residents.

6. CRS Score - Awarded to projects that gain points in FEMA’s Community Rating System (CRS), which utilizes floodplain management planning to lower flood insurance rates.

APPENDIX

The following pages contain additional materials produced for the meetings, as well as comments gathered at the meetings.
PLAQUEMINES POTENTIAL PILOT PROJECTS

CREATE A LINEAR PARK ALONG PLANTERS CANAL
The linear park could connect to new development at the southern end of the canal near the Peters Road Extension/Kenos Canal to the proposed stormwater park near Highway 23 and up to new development around the Woodlands Conservancy Park. Edward Hebert Boulevard.

SAFE HARBOUR/ SEAFOOD MARKET
Build a safe harbor in an area with minimal flood risk to provide a safe haven for fishermen to dock their boats during disasters. Safe harbor could also serve as an economic development engine that would allow fishermen to sell their catch directly to consumers at the harbor.

BIKE TRAILS ON LEVEES
Create recreational bike trails atop levees to increase connectivity and recreational options.

STORMWATER RETENTION AND RECREATIONAL PARK
Build a recreational park that will also serve as a stormwater retention area to increase recreational activities in the parish while helping to reduce some flood risk.

BORROW PIT PROJECT
Transform the use of a borrow pit to an attraction that incorporates uses for recreation, economic development and stormwater management.

PUBLIC BOAT LAUNCHES
Build a new boat launch on the west bank across the river from Mardi Grass Plaza. The location is in close proximity to Grand Bayou and Happy Jack and could also serve as a source for commerce in the community. It would allow easier access to the marshes on the east side of the river for recreation and a staging area for fishing activities. It could also support residents on the East Bank during an emergency if the ferry was down. It could potentially also be a spot to anchor floating amenities.

FINANCIAL ASSISTANCE & LOANS FOR FISHERMEN
Provide seed funding for a revolving loan fund targeting commercial fishery boat owners. Fishermen can use that loan as collateral to borrow money to repair or update their boat or equipment, or to diversify out of the fishery and establish a new business. Repayment plans will be flexible to meet the needs of fishing communities, such as plans that have smaller payments during the fishing off season and higher payments during fishing season. The loan fund will help fishing communities upgrade and repair their fleets to be more resilient against future natural disasters, and will provide economic resilience through adoption of new technologies and separation into other industries.

SUBSTANCE ABUSE & MENTAL HEALTH SUPPORT

JOB TRAINING PROGRAMS
Establish skill-specific workforce training programs.

RESILIENT ENERGY PROJECT

The project ideas shown here incorporate many of the top suggestions that we heard from residents over the course of the planning process. What do you think make the most sense? What's missing? Leave us notes and comments!
PLAQUEMINES HARBOR OF REFUGE

Prototype Plan View

1. Harbor of Refuge and Boat Docks
2. Picnic Pavilion (optional)
3. Raised Convenience Store and Restrooms (optional)
4. Seafood market (optional)
5. Permeable parking and bioswales
6. Tree plantings and bioswales

Prototype Perspective View

Precedent images of harbors of refuge and seafood markets
PROPOSAL

Plaquemines Parish is a Sportsman’s Paradise with some of the world’s best commercial and recreational fishing areas. The seafood industry is one of the leading employers in Louisiana, and Plaquemines Parish produces millions of pounds of shrimp, oysters, crabs and fish annually. However, as flood risk increases and land loss continues to occur, this industry faces significant threats to its viability — specifically to vital equipment and infrastructure. This proposal would create a harbor of refuge for vessels to shelter in place during disaster events, incorporating marina amenities, wet-and dry-docking facilities as well as green infrastructure to help manage stormwater.

**Community Benefits**

- Reduces potential flooding in surrounding areas by expanding detention capacity on site through pervious paving, bioswales and rain gardens.
- Enhances quality of life in surrounding area, providing facility for local markets and venue for local vendors.
- Provides safe harboring and storage capacity for vessels operating in local waterways; protects seafood industry supply chain.
- Grows the direct seafood to consumer market and location to sell and market goods.
- Enhances arts and festival opportunities in the parish and creates eco-tourism opportunity.

**Key Info**

- **Project Area**: Approx. 11 acres
- **LA SAFE Investment**: Up to $6.0M
- **Estimated Project Cost**: $6.0M - $14.8M
- **Partners**: Plaquemines Parish, Louisiana SeaGrant
BELLE CHASSE WETLAND PARK

Plan View

Phase I
1. Terraced Picnic and Recreational Areas that double as Water Storage
2. Pathway Network with Educational Signage in Forested Wetland
3. Linear Park with Multi-use Pathway
4. Pedestrian/Bike Bridge to connect neighborhood to wetland park
5. Permeable Parking and Bioswales
6. Open Lawn Area

Phase II
5. Permeable Parking and Bioswales
6. Open Lawn Area
7. Constructed Wetlands for Water Storage
8. Boardwalk Network with Educational Signage in Forested Wetland

Future Vision
9. Future Nature & Conference Center
10. Existing Retention Pond - future potential to convert to Fishing Pond
11. Future Expansion of Path Network to integrate into existing park pathways
12. Future Recreational Pavilion

Precedent images:
- Linear park with pathways along canal
- Boardwalks and seating areas in a wetland park
- Water storage area that doubles as terraced gathering space
- Wetland park
PROPOSAL

The Belle Chasse Wetland Park — half of which is in the floodplain and situated on lands that are on average three feet below sea level — diverts and temporarily stores water during heavy rain events to mitigate flooding and subsidence in the surrounding area. The design provides vehicular access from Avenue A to the east, from Olson Dr. to the southwest in Phase II, and by bike or on foot from the neighborhood to the north along Good News Ave. While the project’s main purpose is to reduce risk by increasing water storage capacity in the park, it also provides paths and boardwalks for viewing natural habitats and the opportunity to experience military jet flights overhead from the adjacent Naval Air Station. A new walking and bike path also extends to the segment of Planter’s Canal west of the park, creating a new connection between a beautiful existing waterway and the new park amenity.

Key Info

- Project Area: 90 acres
- LA SAFE Investment: Up to $6.0M
- Estimated Project Cost: $6.0M - $13.8M
- Partners: Plaquemines Parish
- Location: Belle Chasse

Community Benefits

- Onsite retention capacity and stormwater management interventions slow water flow as it moves into the drainage system.
- Creates a park and natural walking amenities to the benefit of adjacent neighborhoods and developments.
- Reduces the potential for street flooding and danger to nearby motorists by detaining stormwater runoff; increases neighborhood connectivity to nature.
- Creates a community asset and educational tool for nearby schools to highlight the benefit of stormwater management.
- Provides green space, walking paths and natural habitat.

COMMENTS
This proposed project is modeled after Propeller, a business incubator in New Orleans that offers a training program for accelerating new business development, as well as office space and amenities for small-business owners. The Plaquemines incubator will support businesses that address: alternative energy, coastal restoration, eco-tourism, and locally produced food.
PROPOSAL

Economic resilience is a cornerstone of LA SAFE. A business incubator will help launch new businesses, diversifying the economy with industries that will strengthen the region in the future. As part of the accelerator program, entrepreneurs will have access to a mentor in their field to help guide them through the program as they start their business. The incubator provides a co-working space with access to shared office equipment and a communal kitchen.

**Community Benefits**

- Incentivizes the development of new firms and emergent technologies in coastal restoration.
- The development of this incubator will use smart building strategies that respond to the environment and mitigate stormwater on site.
- The accelerator promotes small business development and economic diversity, creating jobs in growing industrial sectors.
- Eco-tourism and the growth of small local businesses provide the opportunity to share and strengthen local culture.

**Key Info**

- **LA SAFE Investment**: Up to $4 million
- **Estimated Project Cost**: $2 million for accelerator program development; $2 million for facility construction or renovation
- **Location**: TBD
- **Potential Partners**: Propeller, Greater New Orleans, Inc. (GNO, Inc.), Plaquemines Association of Business and Industry (PABI), Delgado Community College

**CULTURE & RECREATION**
**Fishermen Loans**

Supporting Louisiana Seafood is a goal that LA SAFE heard across the coast. Fishermen struggle with changing ecosystems, increasing risk to their equipment, and cheap imported competition. They often need boat repairs and upgrades prior to fishing season. Due to the seasonal nature of the industry, conventional loans do not always meet their needs. This program will provide low-interest loans with a flexible repayment schedule that matches the fishing season. By supporting fishermen, this program also supports the Louisiana seafood industry as a whole, a cornerstone of Louisiana economy and culture.

**Citrus Farmer Loans**

Citrus farming has been a staple of Plaquemines Parish's economy and culture for several generations, as memorialized by the annual Orange Festival, dating back to 1947. These low interest loans will be made available to citrus farmers to support the industry.
Community Benefits

Loans can be used to retrofit vessels to travel further distances and protect the seafood industry’s supply chain.

Loan program would bolster economic resilience for vulnerable, yet vital, industries and provide adaptation support as environmental conditions change.

Loans could be used by boat owners to diversify their business activities into charter or tour businesses. Supporting citrus helps support the Orange Festival.

Key Info

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MENTAL HEALTH & SUBSTANCE ABUSE PROGRAM

Services provided by Community C.A.R.E. Centers

These are two areas of service that Community C.A.R.E. Centers provides that would be applicable for funding under this program.

**Substance Abuse Center for Adolescents & Adults**

- Assessments
- Education
- Counseling
- Intensive IOP Programs

**Behavioral Health & Wellness Center**

- Individual Counseling
- Family Counseling
- Group Counseling
- Anger Management
- Mind/Body Skills training
- Play Therapy
- Child Psychiatry
- Disaster Counseling

Graphics provided by Community C.A.R.E. Centers

Photo provided by Plaquemines Medical Center, a potential partner for this program.
PROPOSAL

Areas projected to be subject to high future flood risk are, in many cases, currently experiencing significant environmental, cultural, economic and social challenges. Severe, repetitive flooding events in recent years have devastated many low-lying communities along our coast, especially in Plaquemines Parish. As these events have occurred, populations have already started moving upland, disrupting community cultural connections and the coast’s broader social fabric. These impacts, compounded with unfavorable future projections, have taken a significant emotional toll. This program will provide case management services for residents struggling with mental health and substance abuse issues. These services will help disadvantaged populations living in at-risk, low-lying communities work through the emotional impacts of past disaster events and future increased flood risk.

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Community Benefits

Mental health and substance abuse treatment is associated with improved performance and productivity at work and school. It reduces the number of absences and helps increase the local workforce.

Treating drug abuse and mental illness reduces negative impacts from disaster-related trauma and anxiety about future risk. These benefits are also correlated with a decline in instances of violent crimes, suicide, and improvements to community health and well-being.
Red Star Yeast
Building Redevelopment

Restaurant and Outdoor Dining
Approx. 30 housing units
Ground Floor Commercial Space

Mixed-Use Buildings in low-risk areas attract local businesses like coffee shops, restaurants and retail stores to neighborhoods. Multistory buildings accommodate more people while preserving green space for recreation and stormwater management. In turn, more residents are likely to patronize businesses within walking distance.
PROPOSAL

Low flood risk areas are well positioned to receive population and economic growth. Medium-density, affordable, residential and mixed-use developments should be prioritized. LA SAFE has identified the Red Star Yeast building in Belle Chasse as the potential location for this type of renovation development. This project will incorporate approximately 30 housing units and ground floor retail and office space for neighborhood amenities like restaurants or grocery stores. Landscaping and shared green space will manage stormwater while adding beauty to the surrounding neighborhood. Roughly half the units will be market rate and the rest will be affordable to residents earning 20%, 30%, and 50% of area median income.

Key Info

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**Community Benefits**

- Incorporates green infrastructure to manage all stormwater on site.
- Provides quality, affordable housing and commercial development.
- Proximity to the Belle Chasse ferry adds to the amenities accessible to commuters and pedestrians.
- Opportunities for jobs in the ground floor commercial space.
- Includes public amenities, such as community gathering and market space, pavilion, walking and biking paths.
A: PLAQUEMINES HARBOR OF REFUGE

What do you like about this proposal?
- Plaquemines Parish is in desperate need of a harbor of refuge.
- Safe harbor.
- Would be nice if it was in Empire. Need more spots in Empire for this. If in Belle Chasse, it would be nice to have a tug boat to haul our boats to help navigate up the river.
- Needed, helps small business owners. People could get back to work sooner.
- Needs update and existing Empire harbors/dock.
- Fishermen need the safe harbor because the water is too shallow. We need a place to dock the boat during hurricanes.
- I like this project because safety for all the boats from small sizes to bigger boats come for the storms. But all canals must be deep for coming in and out, some canals too shallow for bigger boats.
- Dig canals deeper so boats can enter easily.
- Should be in Port Sulphur or around Empire-inside levee safer for the boats.
- Should include security cameras on harbor projects.
- Location.

What do you not like about this proposal?
- Lacks a location. I disagree with “low-cost option for com. Fishermen” when similar harbors are free during emergency events.
- Too far north for commercial boats to get there. Seafood markets on N. end will drive businesses on South end out of business.
- Concerns about too many boats and not enough spots in Empire- would like if there were enough spots for everyone’s boats.
- It’s too far to take our boats (Buras) if in Belle Chasse. Need assistance to get boats that for-not all boats, would be able to get through the river if in Belle Chasse.

B: BELLE CHASSE WETLAND PARK

What do you like about this proposal?
- Could boost property values. Needed due to climate change, more rain.
- I like the educational aspect. Could be used as an outdoor classroom.
- Makes for good place for family play but would do little to help people on south end.

What do you not like about this proposal?
- Don’t need another educational facility with the boat school already operating.

C: EMERGING INDUSTRY BUSINESS INCUBATOR

What do you like about this proposal?
- Need, could bring wealth in the community. Could grow existing businesses.
- Very good. Innovative and ground breaking.
- Everything!

What do you not like about this proposal?
- Could hurt existing businesses due to competition. Isn’t in an area where people benefit the most.
D: FISHERMAN & FARMER LOAN PROGRAM

What do you like about this proposal?
• Helps small business owners. Could help fishermen/farmers get more value/money for products.
• New into fishermen. How much can we get the loan? If we are a newcomer to fishermen lifestyle, want to become fisherman.  
• Great idea!

What do you not like about this proposal?
• If fishing and agriculture industries do not have access to traditional lines of credit, there is a reason. A program like this could put them further in debt, when they can’t pay it back. Loan programs like these, such as student loans, only hurt the economy.
• Doesn’t make anyone safer. Creates debt.
• If we don’t make much income in the year cycle do we still get the loan?

E: MENTAL HEALTH & SUBSTANCE ABUSE PROGRAM

What do you like about this proposal?
• Substance abuse is a huge problem in the commercial fishing industry.
• The most needed, fills a void. Could help save lives. Could help people cope with loss in a productive way.

What do you not like about this proposal?
• Even though it’s a huge problem, it is never discussed therefore participation in this program would be very low and monies not well spent.
• Nothing will be physically built. Treats the symptom, not the cause.

F: RED STAR YEAST BUILDING REDEVELOPMENT

What do you like about this proposal?
• Need elevations in southern part of parish.
• It does solve the problem of getting rid of this eyesore in the center of town. Making it a center of commerce.
• Cleans up a blighted building in the center of town. Business incubator could be colocated here. Dock could be used by floating infrastructure. Brings center of town back into commerce. Could be some cost savings by getting port to help.
• Nothing.

What do you not like about this proposal?
• That it’s in Belle Chasse. We need it down here for families that need assistance.
• Grocery may not be a good idea. There is a grocery near by that would fight this element.
• Doesn’t make people safer unless there is a provision to help residents from the parish move here.
• More funds should be focused on the southern part of the parish.
• Doesn’t make anyone safer (or just a few if relocating from within an at risk area).
PLAQUEMINES VISION

• Internal stormwater and subsidence management
• Consolidate services around hubs
• Land between hubs – ecological restoration, water storage, and agriculture

BELLE CHASSE

• Internal stormwater and subsidence management
• Use undeveloped land around Naval Airbase for water storage
• Develop the economy with sustainable industries
• Stormwater management facilities

WEST BANK

• Internal stormwater and subsidence management
• Consolidate services around hubs
• Land between hubs – ecological restoration, water storage, and agriculture

EAST BANK (Phoenix to Bohemia)

• Limited development to support courthouse and industry
• Portable services, better connectivity to amenities

EAST BANK

• Limited development to support courthouse and industry
• Portable services, better connectivity to amenities
• Long term – no new investment, return to nature

LOW RISK

HIGH RISK
FLOODING & SUBSIDENCE MANAGEMENT

JEFFERSON & PLAQUEMINES PARISH

Flood Risk*

- Highly Organic: High Subsidence Potential
- Moderately Organic: Moderate Subsidence Potential
- High Plasticity Silt and Clay: Shrink and Swell Potential
- Low Plasticity Silt and Clay: Stable Sand

Elevation

- Federal Levee
- Major Non-Federal Levee
- Parish Boundary

Soils

- Sources of USGS data mapping

Pumping and Subsidence

- Dry conditions, canal drains water level down
- Water Level
- When rain falls, pipes and canals start to fill
- Every drop that fills gets pumped out of the landscape as fast as possible
- This lowers the groundwater level and causes soils to dry and land to sink
- As land sinks and sea levels rise, pumping and levee maintenance costs increase