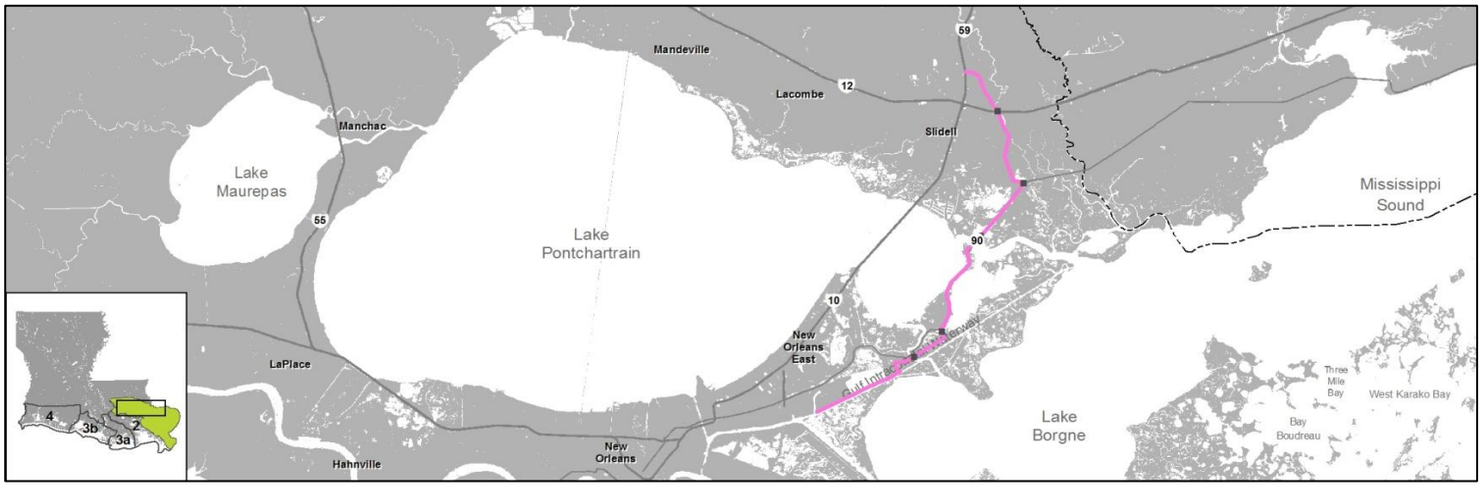
Lake Pontchartrain Barrier (Low)

Structural Protection

Project ID: 001.HP.08

Planning Unit 1 | Planning Unit 2 | Planning Unit 3a | Planning Unit 3b | Planning Unit 4



Project Source LACPR

Project Status Conceptual Phase

Description Construction of a levee to an elevation of 24.5 feet NAVD88 across the mouth of Lake Pontchartrain from the New Orleans Land Bridge to Interstate 59 north of Slidell for hurricane storm surge risk reduction. Project features include approximately 150,000 feet of earthen levee, 11,000 feet of concrete T-wall, three 40-foot roller gates, and three 220-foot barge gates.

Scale of Influence

local | sub-basin | basin | regional

Project Cost Estimate:

Planning / Engineering & Design	$	76,470,000
Estimated Cost Construction	$	815,000,000
Operations & Maintenance (50 Years)	$	139,150,000
Total	**$**	**1,030,620,000**

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Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction for most of the communities listed below for all three storm surge events under both scenarios. However, model results indicate the project could lead to elevated water levels for several south shore communities for the 500 year storm surge event under both scenarios. Additionally, the project could produce elevated water levels in the State of Mississippi (which was not included in this analysis). The effects of a Pontchartrain Barrier alignment will be studied further in project 001.HP.08p.

Moderate Scenario	***50 Year Flood Event***		***100 Year Flood Event***		***500 Year Flood Event***	
Community	*FWOA*	*FWP*	*FWOA*	*FWP*	*FWOA*	*FWP*
Destrehan	$0M	$0M	$0M	$0M	$8,921M	$9,745M
Lacombe	$788M	$11M	$1,318M	$12M	$1,923M	$130M
LaPlace	$8,779M	$20M	$9,981M	$66M	$11,064M	$185M
Livingston Parish	$1,926M	$433M	$2,261M	$564M	$2,609M	$961M
Mandeville	$5,448M	$82M	$8,781M	$206M	$15,056M	$894M
Metairie/Kenner	$98M	$89M	$115M	$109M	$210,157M	$215,685M
New Orleans East	$9M	$8M	$9M	$8M	$13M	$39,071M
New Orleans	$400M	$345M	$403M	$377M	$211,452M	$220,874M
Orleans Parish	$522M	$179M	$553M	$331M	$783M	$1,493M
Poydras/Violet	$0M	$0M	$0M	$0M	$3,265M	$3,427M
St John the Baptist Parish	$163M	$134M	$200M	$153M	$217M	$170M
Slidell	$14,926M	$808M	$24,913M	$1,351M	$47,083M	$2,111M
Saint Charles Parish	$2,288M	$2,257M	$2,794M	$2,535M	$3,341M	$2,873M
Saint Rose	$47M	$22M	$48M	$30M	$3,373M	$4,487M
Saint Tammany Parish	$1,849M	$499M	$2,518M	$740M	$4,411M	$1,094M
Tangipahoa Parish	$771M	$187M	$930M	$226M	$990M	$288M

Less Optimistic Scenario	***50 Year Flood Event***		***100 Year Flood Event***		***500 Year Flood Event***	
Community	*FWOA*	*FWP*	*FWOA*	*FWP*	*FWOA*	*FWP*
Destrehan	$8,097M	$0M	$8,555M	$0M	$9,190M	$9,766M
Lacombe	$1,047M	$11M	$1,502M	$19M	$2,553M	$213M
LaPlace	$10,248M	$65M	$13,388M	$130M	$17,970M	$5,845M
Livingston Parish	$2,261M	$605M	$2,499M	$741M	$2,693M	$1,229M
Mandeville	$7,936M	$122M	$11,591M	$250M	$17,843M	$1,135M
Metairie/Kenner	$204,747M	$95M	$207,592M	$114M	$212,388M	$215,931M
New Orleans East	$13M	$8M	$104M	$9M	$39,057M	$39,072M
New Orleans	$197,393M	$386M	$204,071M	$389M	$214,380M	$221,299M
Orleans Parish	$545M	$331M	$663M	$424M	$1,819M	$1,509M
Poydras/Violet	$0M	$0M	$0M	$0M	$3,186M	$3,431M
St John the Baptist Parish	$211M	$162M	$222M	$175M	$233M	$188M
Slidell	$19,289M	$1,068M	$31,980M	$1,599M	$51,115M	$4,974M
Saint Charles Parish	$3,265M	$3,117M	$3,607M	$3,189M	$4,138M	$3,651M
Saint Rose	$2,378M	$30M	$2,951M	$44M	$3,697M	$4,531M
Saint Tammany Parish	$2,221M	$654M	$3,478M	$903M	$4,806M	$1,707M
Tangipahoa Parish	$925M	$239M	$971M	$281M	$1,015M	$345M