

Planning Unit 2 Maps – Barataria Basin

**Louisiana Coastal Protection and Restoration
Planning Unit 2 Population by Parish and Community**

Community	Year 2000	Year 2005 2nd Quarter	Year 2005 4th Quarter	Year 2050
Ama	1,285	1,385	1,202	1,449
Avondale	6,776	6,813	6,070	8,972
Barataria	1,333	1,382	132	1,204
Bayou Gauche	2,914	3,069	2,866	4,954
Belle Chasse	9,848	10,355	7,279	15,183
Boothville-Venice	2,220	2,390	1,232	2,024
Boutte	1,321	1,447	1,243	1,308
Bridge City	7,029	6,847	5,418	7,348
Buras-Triumph	3,358	3,791	1,944	3,033
Chackbay	4,384	4,691	4,691	4,488
Cut Off	2,282	2,303	2,303	2,199
Donaldsonville	2,695	2,733	2,823	6,453
Edgard	2,637	2,917	2,917	3,349
Empire	2,211	2,428	521	2,154
Estelle	15,609	15,629	13,267	11,555
Grand Isle	1,541	1,503	325	1,483
Gretna	18,452	18,389	15,805	19,513
Hahnville	2,804	3,049	2,765	6,143

Community	Year 2000	Year 2005 2nd Quarter	Year 2005 4th Quarter	Year 2050
Harvey	22,226	22,165	17,612	18,968
Killona	797	827	794	967
Lafitte	1,292	1,381	431	1,169
Larose	2,900	3,063	3,063	2,804
Luling	12,360	12,804	12,133	15,387
Marrero	36,082	35,858	31,051	33,786
New Orleans	56,782	52,469	23,294	50,876
North Vacherie	2,829	2,718	2,821	4,078
Port Sulphur	2,605	2,842	2,405	2,130
Raceland	2,206	2,324	2,324	2,937
South Vacherie	3,543	3,535	3,656	4,980
Terrytown	25,274	25,145	21,819	30,375
Thibodaux	2,246	2,305	2,305	3,817
Timberlane	11,561	11,557	9,776	12,522
Waggaman	6,452	6,269	4,886	6,478
Wallace	570	683	683	2,289
Westwego	10,725	10,778	9,677	10,507
Woodmere	12,979	12,909	11,534	9,576

Parish	Year 2000	Year 2005 2nd Quarter	Year 2005 4th Quarter	Year 2050
Ascension	6,690	6,932	7,239	17,316
Assumption	4,655	4,767	4,880	7,785
Jefferson	197,965	197,074	160,431	206,035
Lafourche	28,156	29,208	29,208	39,713
Orleans	56,782	52,469	23,294	50,876
Plaquemines	23,732	25,684	15,172	32,915
St. Charles	23,991	25,347	23,510	32,532
St. James	8,782	8,758	9,060	13,115
St. John the Baptist	3,474	3,860	3,860	6,011
	354,227	354,099	276,654	406,298

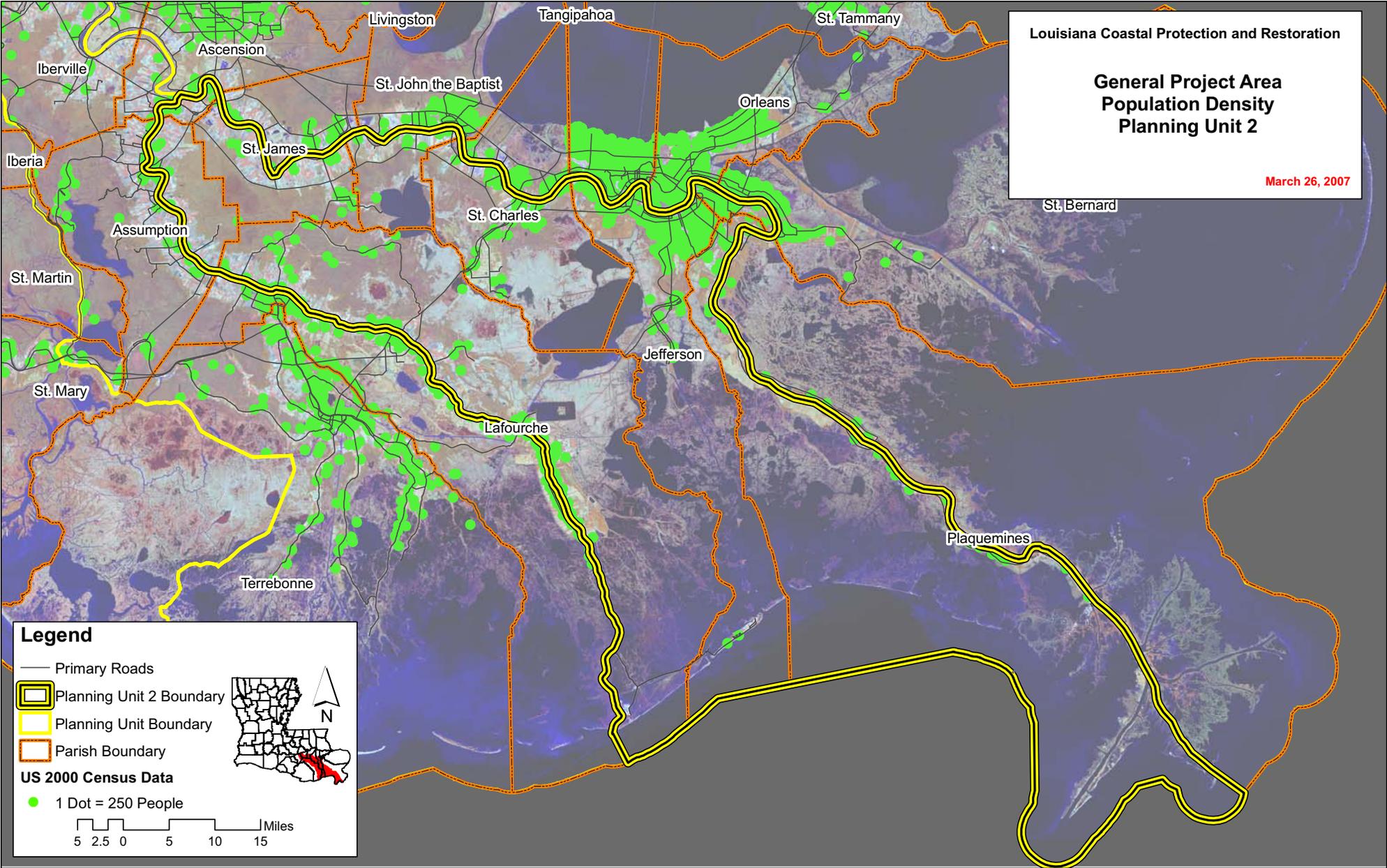
Notes:

1. Population for year 2000 and 2005 is based on the U.S. Census.
2. 2nd Quarter 2005 represents the population prior to hurricanes Katrina and Rita; 4th Quarter 2005 represents the population soon after hurricanes Katrina and Rita.
3. Population for the year 2050 is based on Calthorpe's High Employment projection using the Hybrid Land Use Allocation.
4. If portions of a parish were in more than one planning unit, then the population of the parish was divided between the planning units.
5. For U.S. Census purposes, the New Orleans Metropolitan area includes seven parishes; those parishes contained in Planning Unit 2 are shown in **bold**.

Louisiana Coastal Protection and Restoration

**General Project Area
Population Density
Planning Unit 2**

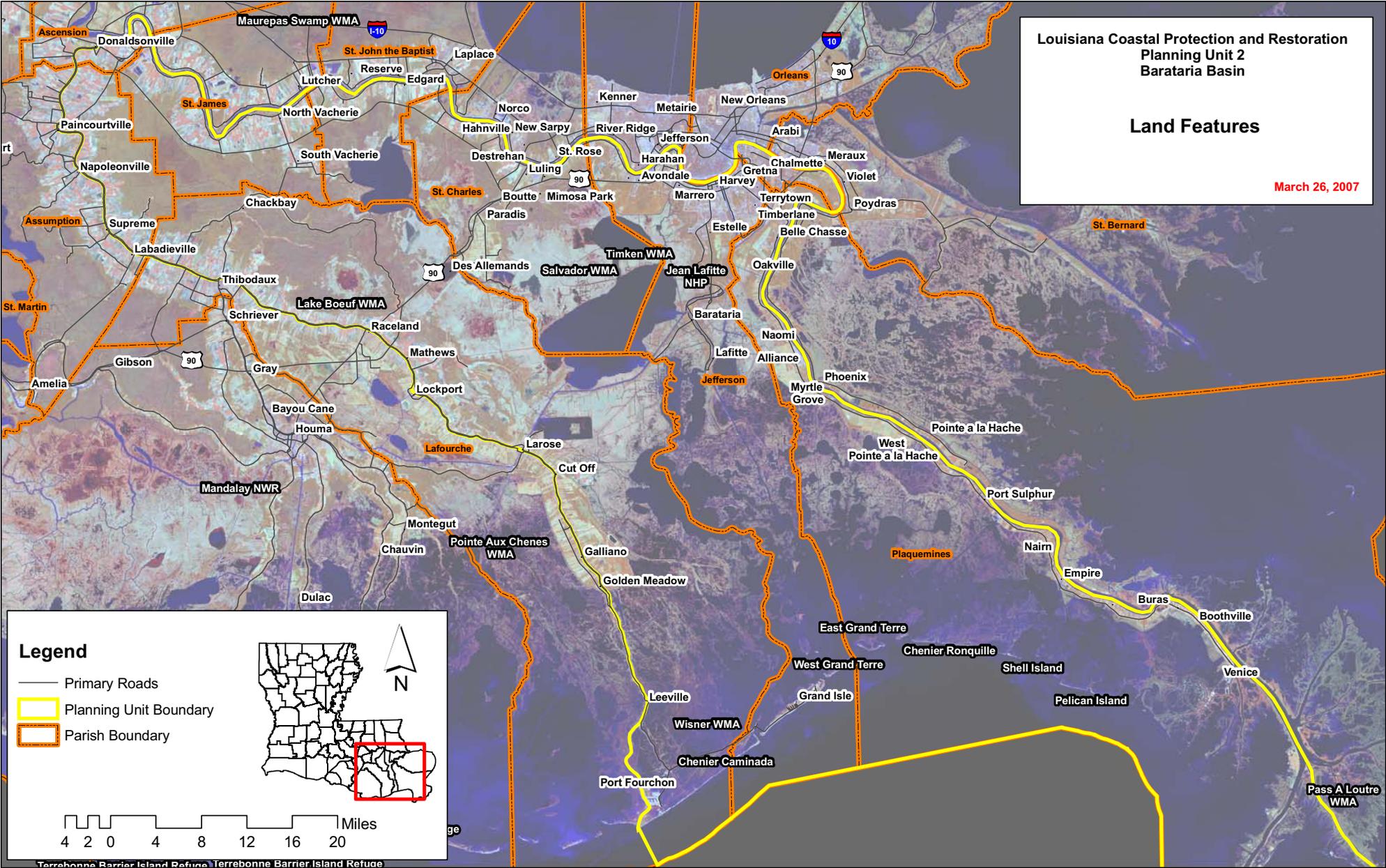
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Louisiana Coastal Protection and Restoration
 Planning Unit 2
 Barataria Basin

Land Features

March 26, 2007



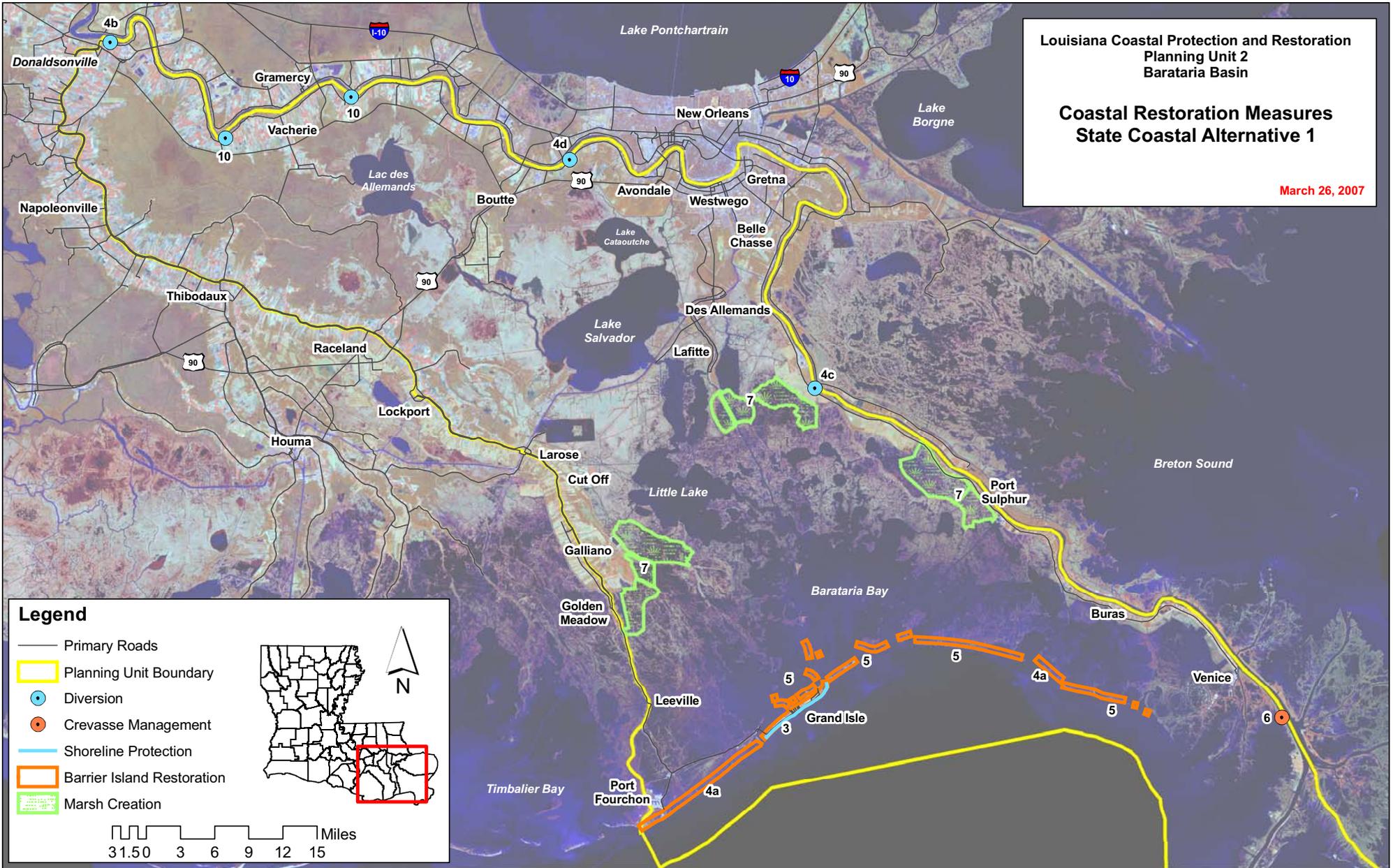
**Louisiana Coastal Protection and Restoration
 Planning Unit 2 (PU2) – Coastal Restoration Measures
 Alternative 1 (Preliminary Draft State Master Plan)**

Code On Map	Measure Description	Measure Type	Alt 2	Alt 3	Alt 4
3	Grand Isle Shoreline Protection	Shoreline Protection		X	
4a & 5	Barataria Basin Barrier Shoreline Restoration Projects	Barrier Island Restoration	X	X	X
4b	Small Diversion at Bayou Lafourche	Diversion	X	X	
4c	Medium Diversion with Dedicated Dredging at Myrtle Grove (~10-15,000cfs in State Plans and ~5,000 cfs in Alt. 4)	Diversion	X	X	X
4d	Modify Authorization of Davis Pond Diversion (~10,000 cfs)	Diversion	X	X	X
6	Adaptive management through maintenance of West Bay crevasse	Crevasse Management	X		
7	Marsh creation in the Barataria Basin	Sediment Delivery via Pipeline/Marsh Creation	X	X	X
10	Small Diversions at Strategic Locations in Upper Barataria Basin	Diversion	X	X	

Louisiana Coastal Protection and Restoration
 Planning Unit 2
 Barataria Basin

Coastal Restoration Measures
 State Coastal Alternative 1

March 26, 2007



Legend

- Primary Roads
- ▭ Planning Unit Boundary
- Diversion
- Crevasse Management
- Shoreline Protection
- ▭ Barrier Island Restoration
- ▨ Marsh Creation

Miles
 3 1.50 3 6 9 12 15

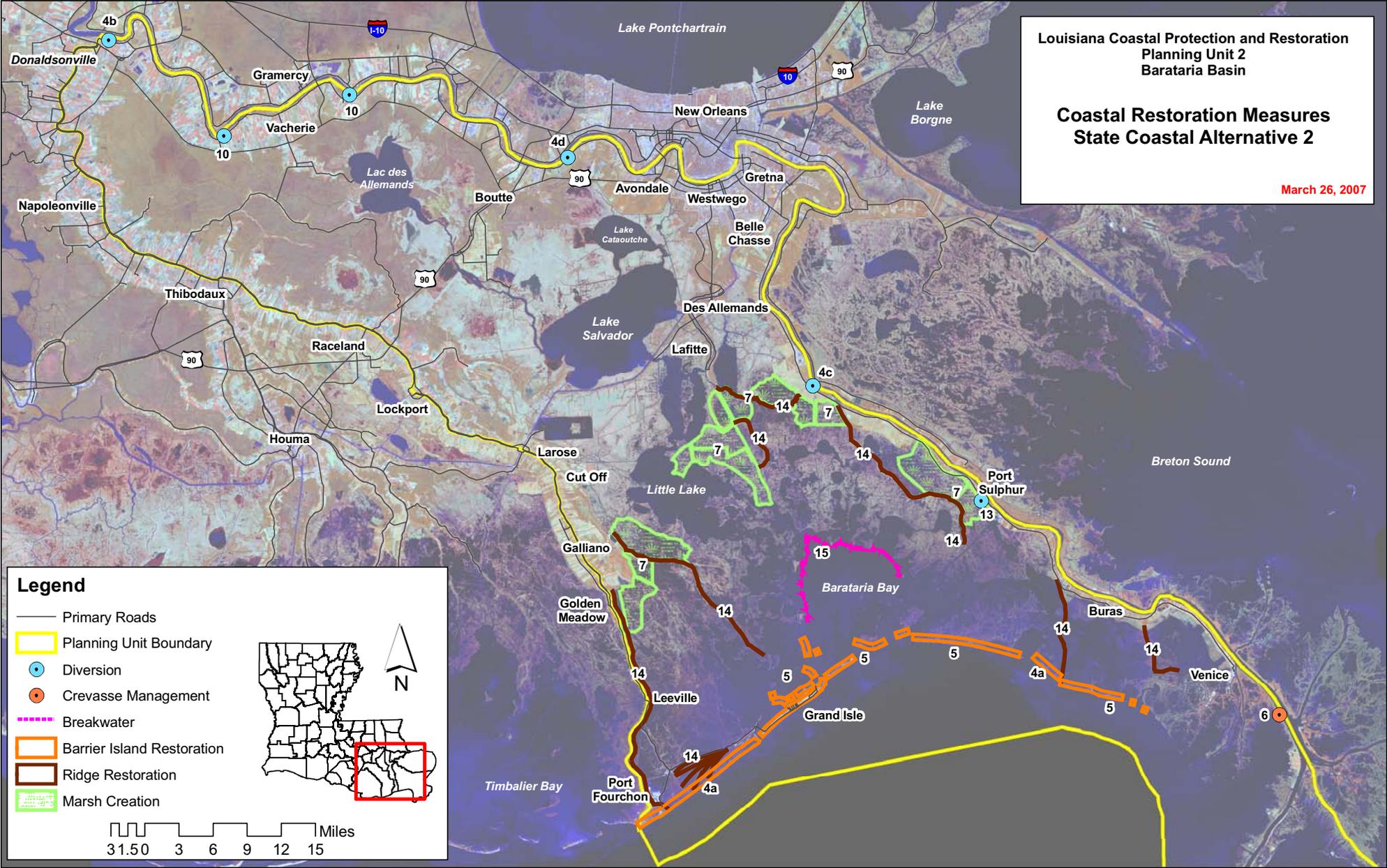
**Louisiana Coastal Protection and Restoration
 Planning Unit 2 (PU2) – Coastal Restoration Measures
 Alternative 2 (Preliminary Draft State Master Plan)**

Code on Map	Measure Description	Measure Type	Alt 1	Alt 3	Alt 4
4a & 5	Barataria Basin Barrier Shoreline Restoration Projects	Barrier Island Restoration	X	X	X
4b	Small Diversion at Bayou Lafourche	Diversion	X	X	
4c	Medium Diversion with Dedicated Dredging at Myrtle Grove (~10-15,000cfs in State Plans and ~5,000 cfs in Alt. 4)	Diversion	X	X	X
4d	Modify Authorization of Davis Pond Diversion (~10,000 cfs)	Diversion	X	X	X
6	Adaptive management through maintenance of West Bay crevasse	Crevasse Management	X		
7	Marsh creation in the Barataria Basin	Sediment Delivery via Pipeline/Marsh Creation	X	X	X
10	Small Diversions at Strategic Locations in Upper Barataria Basin	Diversion	X	X	
13	Small Diversion at Port Sulphur (~2,000 cfs)	Diversion			
14	Ridge restoration in the Barataria Basin	Ridge Restoration		X	X
15	North Barataria Bay Shoreline Wave Breaks	Breakwaters			

Louisiana Coastal Protection and Restoration
 Planning Unit 2
 Barataria Basin

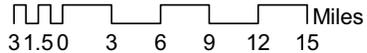
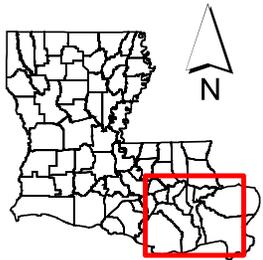
Coastal Restoration Measures
 State Coastal Alternative 2

March 26, 2007



Legend

- Primary Roads
- ▭ Planning Unit Boundary
- Diversion
- Crevasse Management
- - - Breakwater
- ▭ Barrier Island Restoration
- ▭ Ridge Restoration
- ▭ Marsh Creation



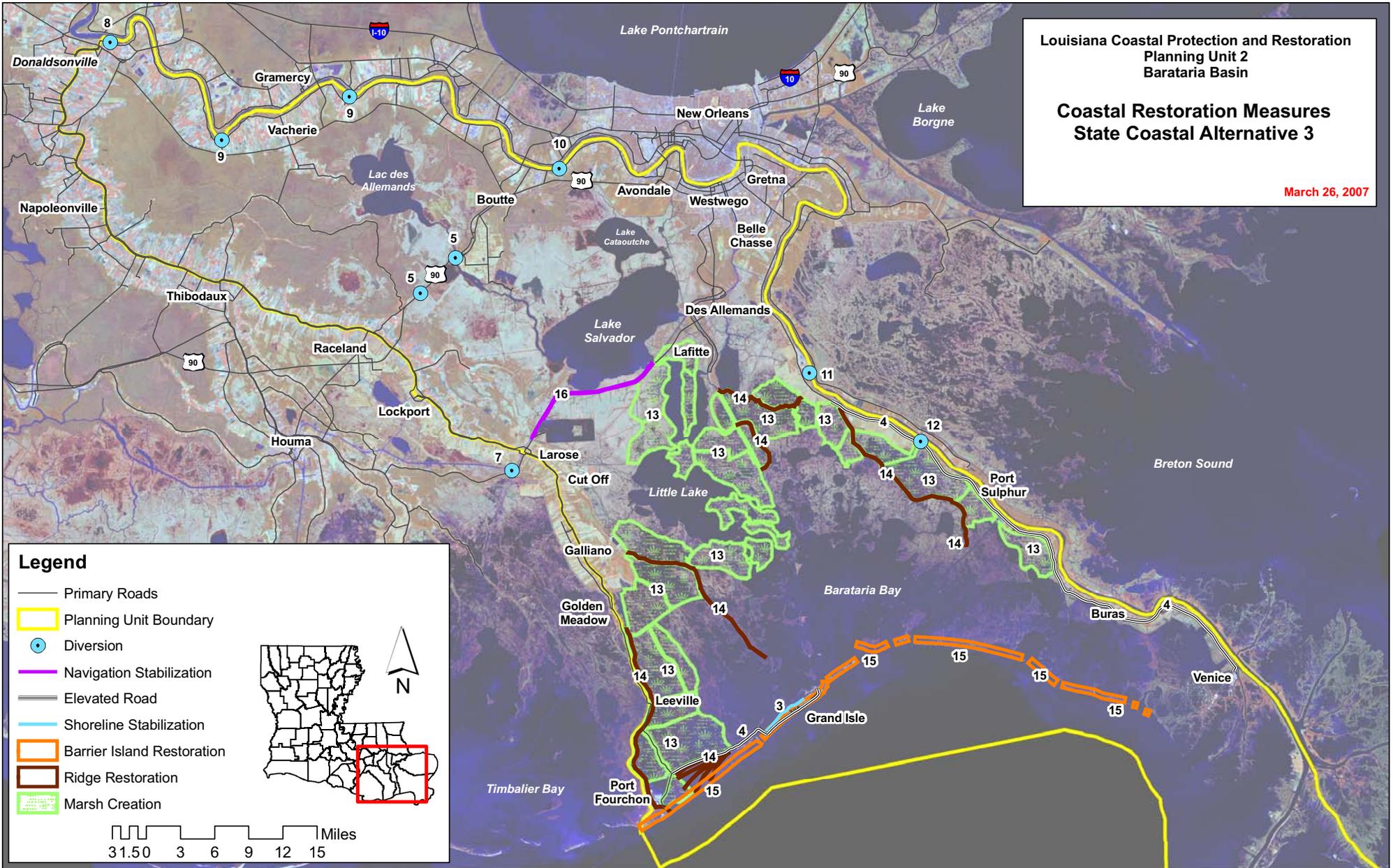
**Louisiana Coastal Protection and Restoration
 Planning Unit 2 (PU2) – Coastal Restoration Measures
 Alternative 3 (Preliminary Draft State Master Plan)**

Code on Map	Measure Description	Measure Type	Alt 1	Alt 2	Alt 4
3	Grand Isle Shoreline Protection	Shoreline Protection	X		
4	Elevated road	Elevated road			
5	Upper Barataria Basin Hydrologic Improvements at Highway 90	Drainage Improvements			
7	Move Freshwater to Terrebonne Basin from Barataria Basin via GIWW	Diversion			
8	Small Diversion at Bayou Lafourche	Diversion	X	X	
9	Small Diversions at Strategic Locations in Upper Barataria Basin	Diversion	X	X	
10	Modify Authorization of Davis Pond Diversion (~10,000 cfs)	Diversion	X	X	X
11	Medium Diversion with Dedicated Dredging at Myrtle Grove (~10-15,000cfs in State Plans and ~5,000 cfs in Alt. 4)	Diversion	X	X	X
12	Medium Diversion at West Point a la Hache	Diversion			
13	Marsh creation in the Barataria Basin	Sediment Delivery via Pipeline/Marsh Creation	X	X	X
14	Ridge restoration in the Barataria Basin	Ridge Restoration		X	X
15	Barataria Basin Barrier Shoreline Restoration Projects	Barrier Island Restoration	X	X	X
16	Bankline protection for the GIWW	Navigation/Bank Protection		X	

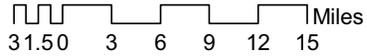
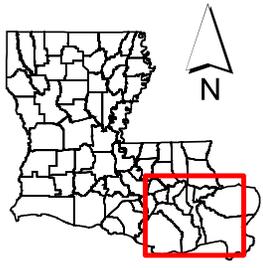
Louisiana Coastal Protection and Restoration
 Planning Unit 2
 Barataria Basin

Coastal Restoration Measures
 State Coastal Alternative 3

March 26, 2007



- Legend**
- Primary Roads
 - ▭ Planning Unit Boundary
 - Diversion
 - Navigation Stabilization
 - ▬ Elevated Road
 - Shoreline Stabilization
 - ▭ Barrier Island Restoration
 - ▭ Ridge Restoration
 - ▭ Marsh Creation



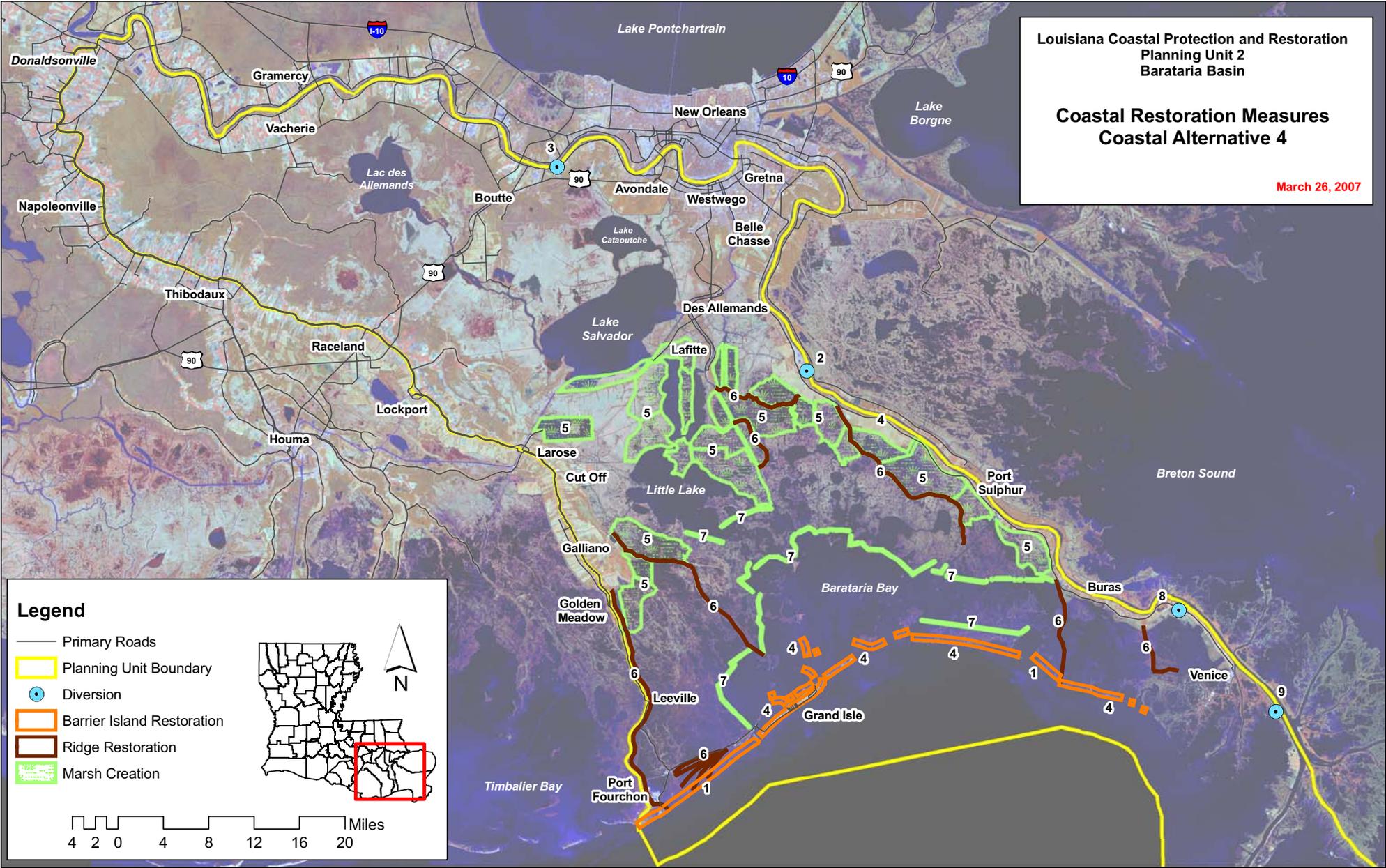
**Louisiana Coastal Protection and Restoration
 Planning Unit 2 (PU2) – Coastal Restoration Measures
 Alternative 4**

Code on Map	Measure Description	Measure Type	Alt 1	Alt 2	Alt 3
1 & 4	Barataria Basin Barrier Shoreline Restoration Projects	Barrier Island Restoration	X	X	X
2	Medium Diversion with Dedicated Dredging at Myrtle Grove (~10-15,000cfs in State Plans and ~5,000 cfs in Alt. 4)	Diversion	X	X	X
3	Modify Authorization of Davis Pond Diversion (~10,000 cfs)	Diversion	X	X	X
5	Marsh creation in the Barataria Basin (maximize beneficial use)	Sediment Delivery via Pipeline/Marsh Creation	X	X	X
6	Ridge restoration in the Barataria Basin	Ridge Restoration		X	X
7	North Barataria Bay Marsh Creation Strips (maximize beneficial use)	Marsh Creation			
8	Diversion at Fort Jackson	Diversion			
9	Modification to West Bay	Diversion			

Louisiana Coastal Protection and Restoration
 Planning Unit 2
 Barataria Basin

Coastal Restoration Measures
 Coastal Alternative 4

March 26, 2007



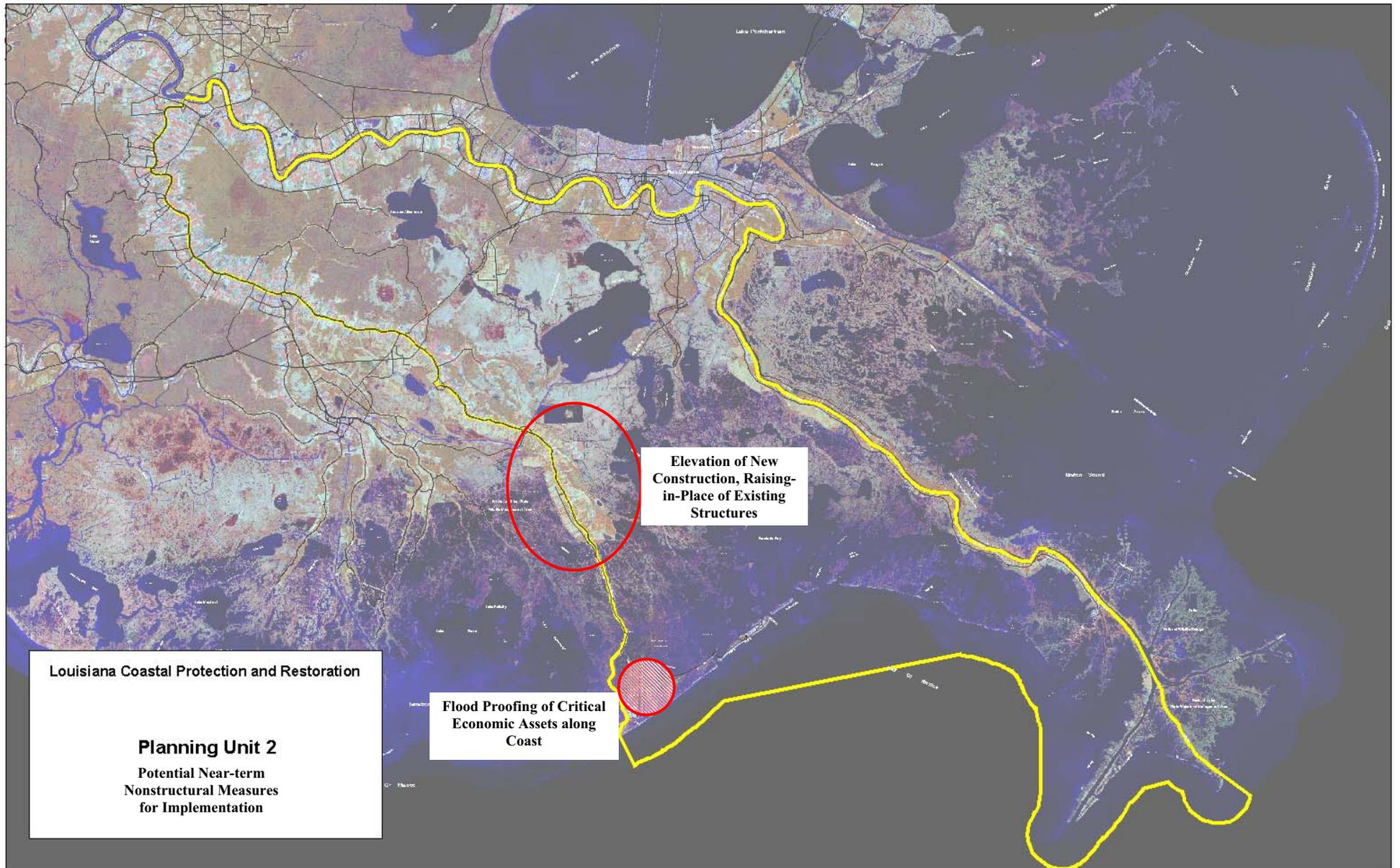
Legend

- Primary Roads
- ▭ Planning Unit Boundary
- Diversion
- ▭ Barrier Island Restoration
- ▭ Ridge Restoration
- ▭ Marsh Creation

4 2 0 4 8 12 16 20 Miles

**LACPR Basic Plan Formulation Considerations
Non-Structural Measures Concepts**

Concepts for Universal Application				
<ul style="list-style-type: none"> • Collaboration with local, State and Federal agencies for application of all nonstructural measures • Incentive program to elevate above ABFE/BFE to + mean sea level for new construction and reconstruction/relocation in collaboration with other agencies • Technical assistance/information/workshops on implementation of nonstructural measures • Ringwalls/berms surrounding private property • Evacuation/Buyout of V zones • Flood Proofing Critical Facilities and Critical Economic Assets 				
Potential Near-Term Nonstructural Measures for Implementation				
Planning Unit 1	Planning Unit 2	Planning Unit 3a	Planning Unit 3b	Planning Unit 4
<p align="center">Concepts for Application Throughout</p> <ul style="list-style-type: none"> • Buyouts in areas of deep flooding > 13/15 feet • Raise-in-Place in areas of flooding < or = 13/15 feet • Ringwalls/Berms • Wet- and Dry-Flood proof for shallow, low velocity flooding • Relocation to flood-free sites • Cluster structures in flood free areas 	<p align="center">Larose to Golden Meadow - Elevation of New Construction, Raising-in-Place Existing Structures</p> <p align="center">Along Coast - Flood Proofing of Critical Economic Assets</p>	<p align="center">Along Coast</p> <ul style="list-style-type: none"> • Raising - in - place • Buyout • Relocation • Wet/Dry Flood Proofing of Structures 	<p align="center">Erath / Delcambre / Henry Nonstructural Pilot Communities Project</p> <ul style="list-style-type: none"> • Raising - in - place • Buyout • Relocation • Wet/Dry Flood Proofing of Structures 	<p align="center">Permanent Evacuation / Relocation of Residential Assets along Hwy LA - 82 for Risk Reduction and Ecosystem Restoration</p>



Louisiana Coastal Protection and Restoration - Planning Unit 2 – Barataria Basin
GIWW Levee Alignment
PU2-G-1

General Description: New levee alignment along the GIWW from Oakville to Larose. Other considerations include raising non-Federal levees in upper Plaquemines Parish and Larose to Golden Meadow Federal ring levees.

Population Receiving Risk Reduction Benefits: The Barataria Basin includes communities along the West Bank of the Mississippi River and east of Bayou Lafourche. Approximately one quarter of the population of Metropolitan New Orleans lives on the West Bank. This alignment would also protect other communities in the Barataria Basin except for Lafitte.

National and Strategic Resources: Port of Plaquemines, ConocoPhillips Alliance Refinery, Chevron Oronite Oak Point Plant, Chevron oil storage facility at Empire, Dynegy natural gas processing plant, Facilities directly related to OCS oil and gas activities, commercial fishing ports of Empire and Venice and production facilities, etc.

Line Color on Map	Legend Description	General Location of Reach	Alignment Description	New or Existing Alignment	Structures Required	Beneficial Considerations	Challenges
Red	Primary Alignment	From Oakville to Larose	Follows GIWW	New	16-50-ft tainter gates and a 110-ft sector gate on Bayou Perot; 110-ft lock on Bayou Barataria	<ul style="list-style-type: none"> Provides risk reduction for most of Barataria Basin Shortest length so most cost-effective Provides additional protection for the West Bank of New Orleans Protects Hwy 90 evacuation route Alignment can help distribute fresh water GIWW already acts as a barrier 	<ul style="list-style-type: none"> Two major natural tidal/river passes Multiple exchange points and overflows required to mimic natural hydrology Concern with induced development Opposition from environmental community Conservation easement needed
Aqua	Alliance Refinery Extension	Vicinity of Oakville to Alliance Refinery	Follows existing non-Federal levee	Existing		<ul style="list-style-type: none"> Provides incremental risk reduction for additional areas including the Alliance Refinery 	<ul style="list-style-type: none"> Levees may not be raised to 100-yr level Incremental benefit may not justify the cost
Green	Larose to Golden Meadow Ring Levee	Ring levee from Larose to Golden Meadow including Cut Off and Galliano	Follows existing Federal levee	Existing	Larger pumps needed	<ul style="list-style-type: none"> Provides risk reduction to 100-year level Good location for non-structural measures 	<ul style="list-style-type: none"> Induced flooding could be caused by proposed adjacent levees Wetland impacts
Orange	Other Considerations	Along MS River upstream from Oakville to (TBD)	Upgrading MR&T levees	Existing		<ul style="list-style-type: none"> Prevents overtopping of MR&T levees 	<ul style="list-style-type: none"> Close to development

Reaches which may need to be added to the primary measure to decrease residual risk identified during detailed hydrologic modeling.

Louisiana Coastal Protection and Restoration - Planning Unit 2 – Barataria Basin
GIWW Levee Alignment
PU2-G-2

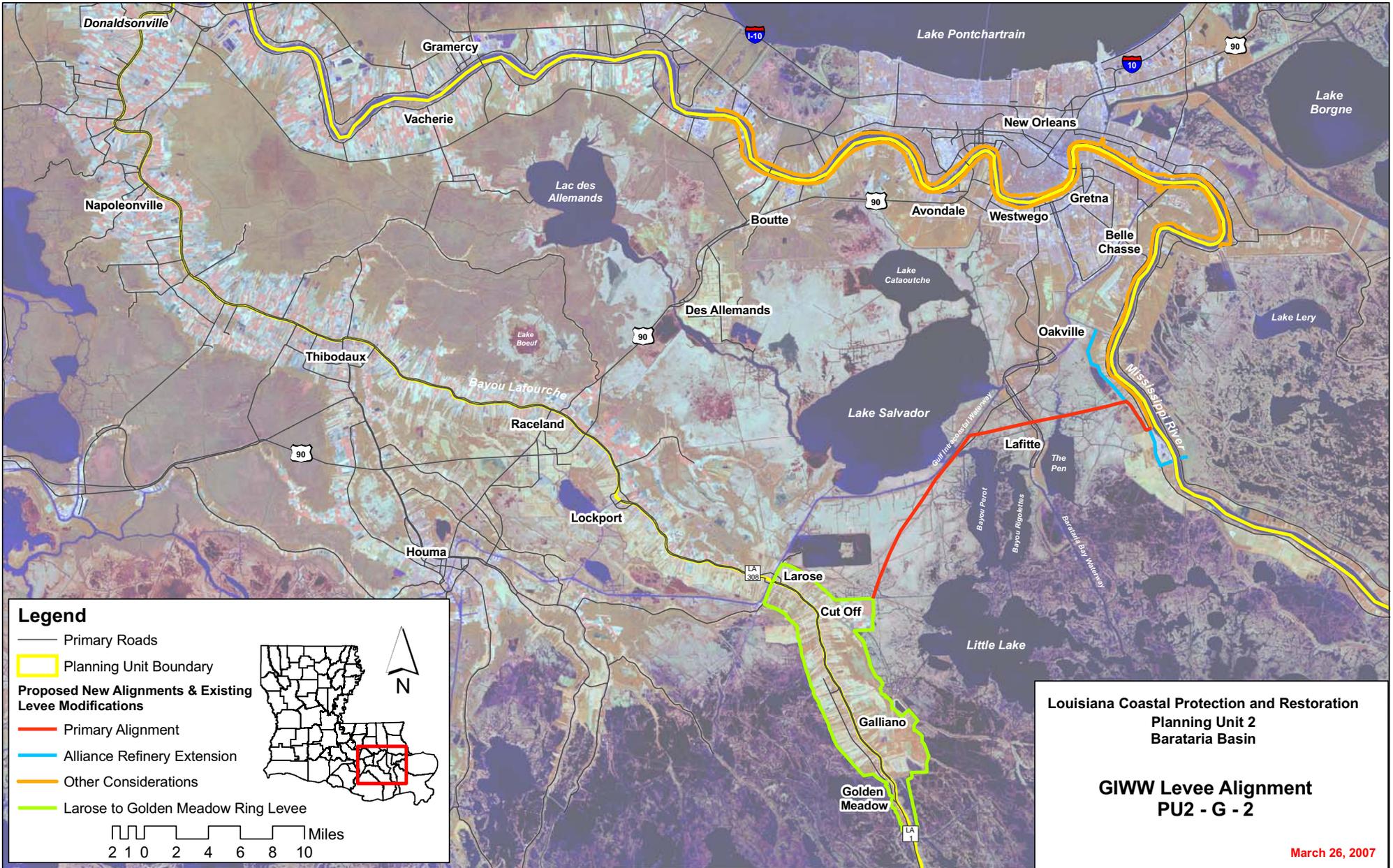
General Description: New levee alignment south of the GIWW from north of the Alliance Refinery to Cut Off, Louisiana. Other considerations include raising non-Federal levees in upper Plaquemines Parish and Larose to Golden Meadow Federal ring levees.

Population Receiving Risk Reduction Benefits: The Barataria Basin includes communities along the West Bank of the Mississippi River and east of Bayou Lafourche. Approximately one quarter of the population of Metropolitan New Orleans lives on the West Bank. This alignment would also protect other communities in the Barataria Basin including part of Lafitte.

National and Strategic Resources: Port of Plaquemines, ConocoPhillips Alliance Refinery, Chevron Oronite Oak Point Plant, Chevron oil storage facility at Empire, Dynegy natural gas processing plant, Facilities directly related to OCS oil and gas activities, commercial fishing ports of Empire and Venice and production facilities, etc.

Line Color on Map	Legend Description	General Location of Reach	Alignment Description	New or Existing Alignment	Structures Required	Beneficial Considerations	Challenges
Red	Primary Alignment	From North of Alliance Refinery to Cut Off	South of GIWW	New	16-50-ft tainter gates and a 110-ft sector gate on Bayou Perot; 110-ft sector gate on Bayou Barataria; 56-ft sector gate on Bayou The Pen	<ul style="list-style-type: none"> Provides risk reduction for most of Barataria Basin including part of Lafitte Shortest length so most cost-effective Provides additional protection for the West Bank of New Orleans Protects Hwy 90 evacuation route Alignment can help distribute fresh water GIWW already acts as a barrier 	<ul style="list-style-type: none"> Two major natural tidal/river passes Multiple exchange points and overflows required to mimic natural hydrology Concern with induced development Opposition from environmental community Conservation easement needed
Aqua	Alliance Refinery Extension	Vicinity of Oakville to Alliance Refinery	Follows existing non-Federal levee	Existing		<ul style="list-style-type: none"> Provides incremental risk reduction for additional areas including the Alliance Refinery 	<ul style="list-style-type: none"> Levees may not be raised to 100-yr level Incremental benefit may not justify the cost
Green	Larose to Golden Meadow Ring Levee	Ring levee from Larose to Golden Meadow including Cut Off and Galliano	Follows existing Federal levee	Existing	Larger pumps needed	<ul style="list-style-type: none"> Provides risk reduction to 100-year level Good location for non-structural measures 	<ul style="list-style-type: none"> Induced flooding could be caused by proposed adjacent levees Wetland impacts
Orange	Other Considerations	Along MS River upstream from Oakville to (TBD)	Upgrading MR&T levees	Existing		<ul style="list-style-type: none"> Prevents overtopping of MR&T levees 	<ul style="list-style-type: none"> Close to development

Reaches which may need to be added to the primary measure to decrease residual risk identified during detailed hydrologic modeling.



Legend

- Primary Roads
- ▭ Planning Unit Boundary

Proposed New Alignments & Existing Levee Modifications

- Primary Alignment
- Alliance Refinery Extension
- Other Considerations
- Larose to Golden Meadow Ring Levee

2 1 0 2 4 6 8 10 Miles

Louisiana Coastal Protection and Restoration
 Planning Unit 2
 Barataria Basin

**GIWW Levee Alignment
 PU2 - G - 2**

March 26, 2007

Louisiana Coastal Protection and Restoration - Planning Unit 2 – Barataria Basin
GIWW Levee Alignment
PU2-G-3

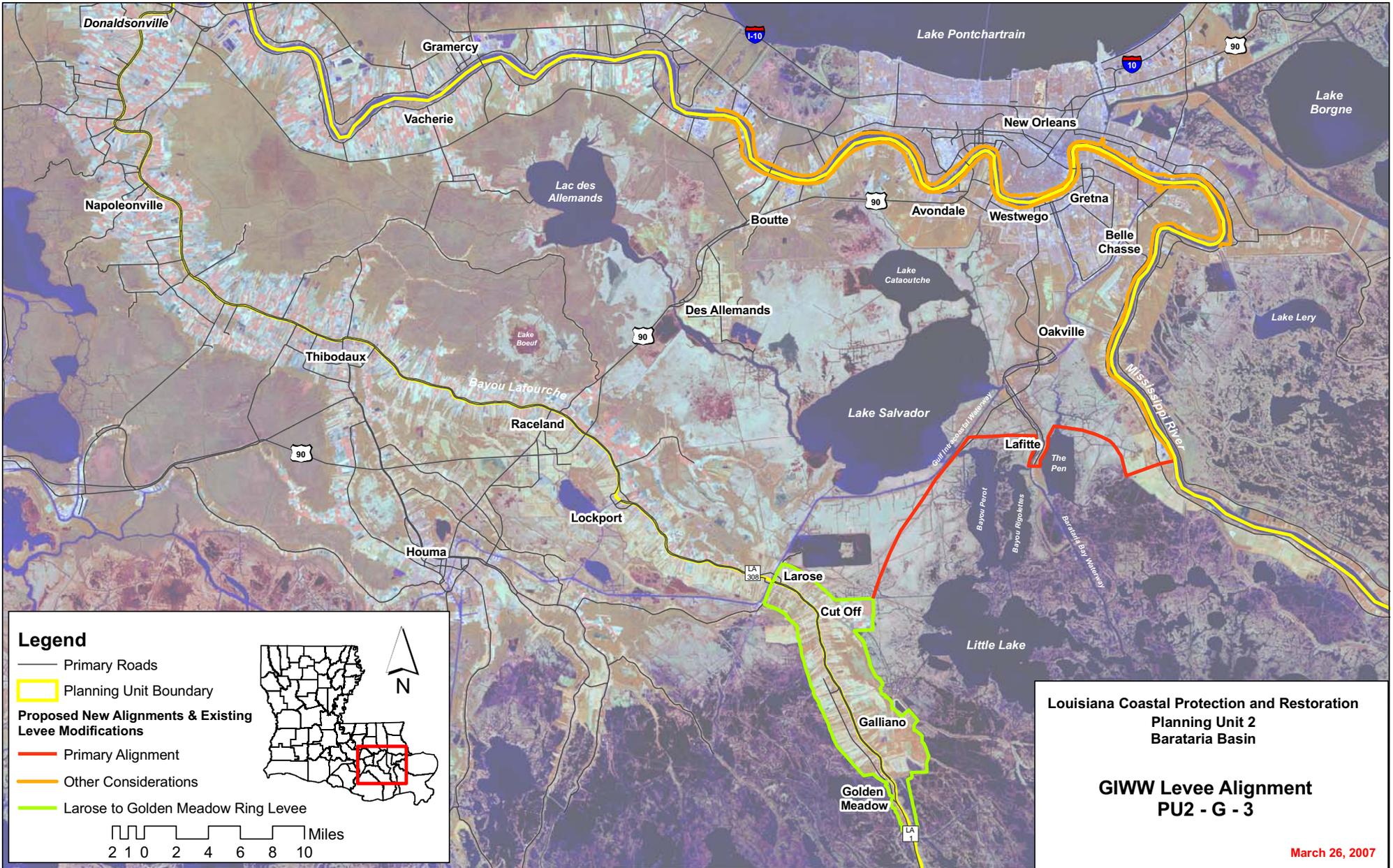
General Description: New levee alignment south of the GIWW from south of the Alliance Refinery to Cut Off, Louisiana. Other considerations include raising the Larose to Golden Meadow Federal ring levees.

Population Receiving Risk Reduction Benefits: The Barataria Basin includes communities along the West Bank of the Mississippi River and east of Bayou Lafourche. Approximately one quarter of the population of Metropolitan New Orleans lives on the West Bank. This alignment would also protect other communities in the Barataria Basin including Lafitte.

National and Strategic Resources: Port of Plaquemines, ConocoPhillips Alliance Refinery, Chevron Oronite Oak Point Plant, Chevron oil storage facility at Empire, Dynegy natural gas processing plant, Facilities directly related to OCS oil and gas activities, commercial fishing ports of Empire and Venice and production facilities, etc.

Line Color on Map	Legend Description	General Location of Reach	Alignment Description	New or Existing Alignment	Structures Required	Beneficial Considerations	Challenges
Red	Primary Alignment	From south of the Alliance Refinery to Cut Off	South of GIWW	New	Sector/tainter gate on Bayou Perot and The Pen; Sector gate on Barataria Bay Waterway	<ul style="list-style-type: none"> Provides risk reduction for most of Barataria Basin including Lafitte and the Alliance Refinery Provides additional protection for the West Bank of New Orleans Protects Hwy 90 evacuation route Alignment can help distribute fresh water GIWW already acts as a barrier Locally-preferred alignment Avoids environmentally-sensitive areas 	<ul style="list-style-type: none"> Major natural tidal/river passes Multiple exchange points and overflows required to mimic natural hydrology Concern with induced development Opposition from environmental community Conservation easement needed
Green	Larose to Golden Meadow Ring Levee	Ring levee from Larose to Golden Meadow including Cut Off and Galliano	Follows existing Federal levee	Existing	Larger pumps needed	<ul style="list-style-type: none"> Provides risk reduction to 100-year level Good location for non-structural measures 	<ul style="list-style-type: none"> Induced flooding could be caused by proposed adjacent levees Wetland impacts
Orange	Other Considerations	Along MS River upstream from Oakville to (TBD)	Upgrading MR&T levees	Existing		<ul style="list-style-type: none"> Prevents overtopping of MR&T levees 	<ul style="list-style-type: none"> Close to development

Reaches which may need to be added to the primary measure to decrease residual risk identified during detailed hydrologic modeling.



Legend

- Primary Roads
- Planning Unit Boundary

Proposed New Alignments & Existing Levee Modifications

- Primary Alignment
- Other Considerations
- Larose to Golden Meadow Ring Levee

2 1 0 2 4 6 8 10 Miles

Louisiana Coastal Protection and Restoration
 Planning Unit 2
 Barataria Basin

**GIWW Levee Alignment
 PU2 - G - 3**

March 26, 2007

Louisiana Coastal Protection and Restoration - Planning Unit 2 – Barataria Basin
Hwy 90 Levee Alignment
PU2-H

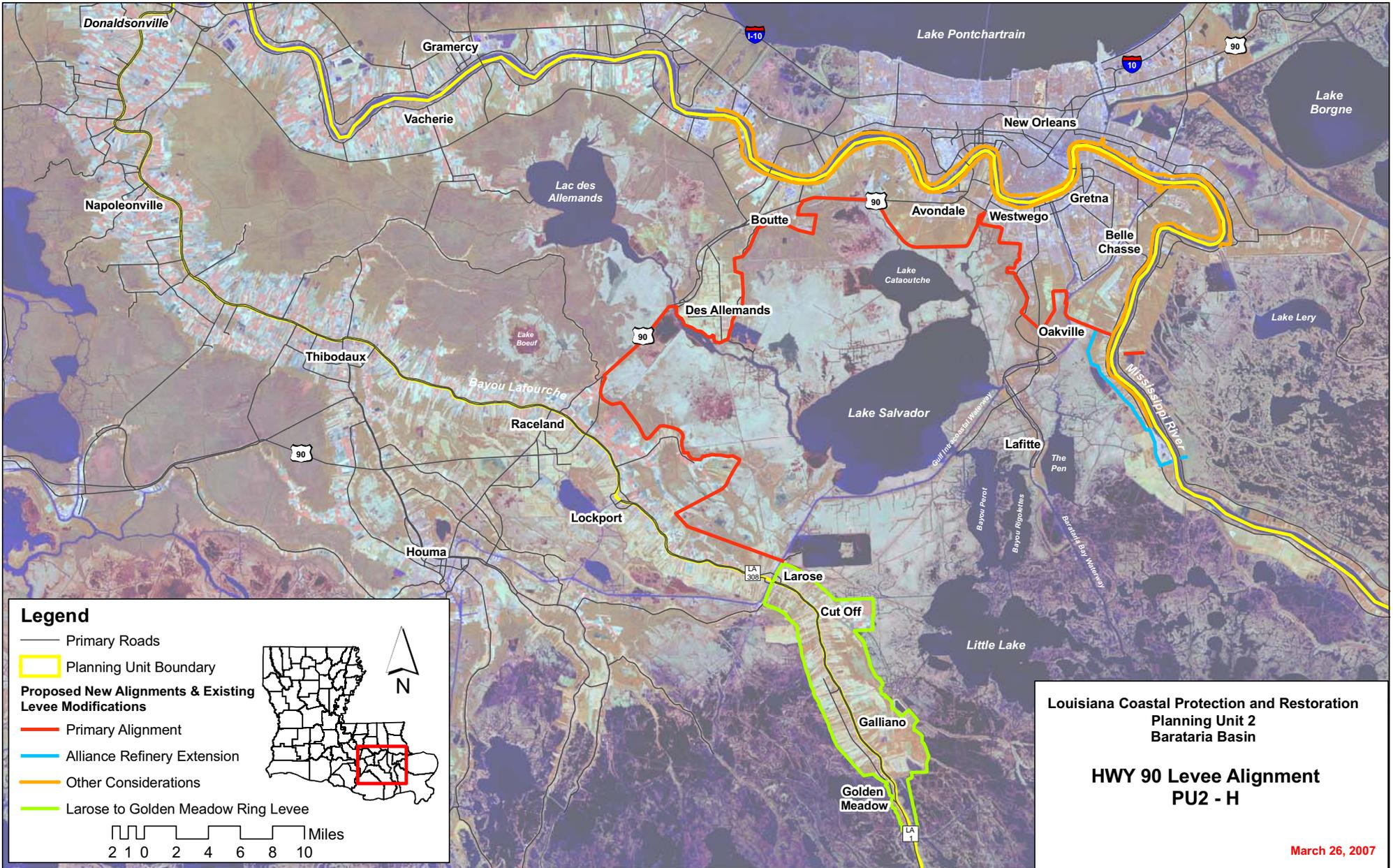
General Description: New levee alignment partly along Highway 90 as a means to reduce risk for Barataria Basin. Other considerations include raising non-Federal levees in upper Plaquemines Parish and Larose to Golden Meadow Federal ring levees.

Population Receiving Risk Reduction Benefits: The Barataria Basin includes communities along the West Bank of the Mississippi River and east of Bayou Lafourche. Approximately one quarter of the population of Metropolitan New Orleans lives on the West Bank. This alignment would also protect other communities in the Barataria Basin except for Lafitte.

National and Strategic Resources: Port of Plaquemines, ConocoPhillips Alliance Refinery, Chevron Oronite Oak Point Plant, Chevron oil storage facility at Empire, Dynegy natural gas processing plant, Facilities directly related to OCS oil and gas activities, commercial fishing ports of Empire and Venice and production facilities, etc.

Line Color on Map	Legend Description	General Location of Reach	Alignment Description	New or Existing Alignment	Structures Required	Beneficial Considerations	Challenges
Red	Primary Alignment	From Oakville to Larose	Partly follows Highway 90	New	110-ft sector gate on Bayou Barataria; 110'ft sector gate on Bayou Des Allemandes; approx. 25,000 cfs pump station	<ul style="list-style-type: none"> • Compromise between Swamp alignment and GIWW alignments • Protects same area as swamp and GIWW alignments • Shorter alignment than swamp alignment 	<ul style="list-style-type: none"> • More expensive than GIWW alignment • No redundancy to West Bank of New Orleans • Affects natural tidal processes and encloses wetlands • Conservation easement needed
Aqua	Alliance Refinery Extension	Vicinity of Oakville to Alliance Refinery	Follows existing non-Federal levee	Existing		<ul style="list-style-type: none"> • Provides incremental risk reduction for additional areas including the Alliance Refinery 	<ul style="list-style-type: none"> • Levees may not be raised to 100-yr level • Incremental benefit may not justify the cost
Green	Larose to Golden Meadow Ring Levee	Ring levee from Larose to Golden Meadow including Cut Off and Galliano	Follows existing Federal levee	Existing	Larger pumps needed	<ul style="list-style-type: none"> • Provides risk reduction to 100-year level • Good location for non-structural measures 	<ul style="list-style-type: none"> • Induced flooding could be caused by proposed adjacent levees • Wetland impacts
Orange	Other Considerations	Along MS River upstream from Oakville to (TBD)	Upgrading MR&T levees	Existing		<ul style="list-style-type: none"> • Prevents overtopping of MR&T levees 	<ul style="list-style-type: none"> • Close to development

Reaches which may need to be added to the primary measure to decrease residual risk identified during detailed hydrologic modeling.



Legend

- Primary Roads
- Planning Unit Boundary
- Proposed New Alignments & Existing Levee Modifications**
- Primary Alignment
- Alliance Refinery Extension
- Other Considerations
- Larose to Golden Meadow Ring Levee

2 1 0 2 4 6 8 10 Miles

Louisiana Coastal Protection and Restoration
 Planning Unit 2
 Barataria Basin

**HWY 90 Levee Alignment
 PU2 - H**

March 26, 2007

Louisiana Coastal Protection and Restoration - Planning Unit 2 – Barataria Basin

Swamp Alignment

PU2-S

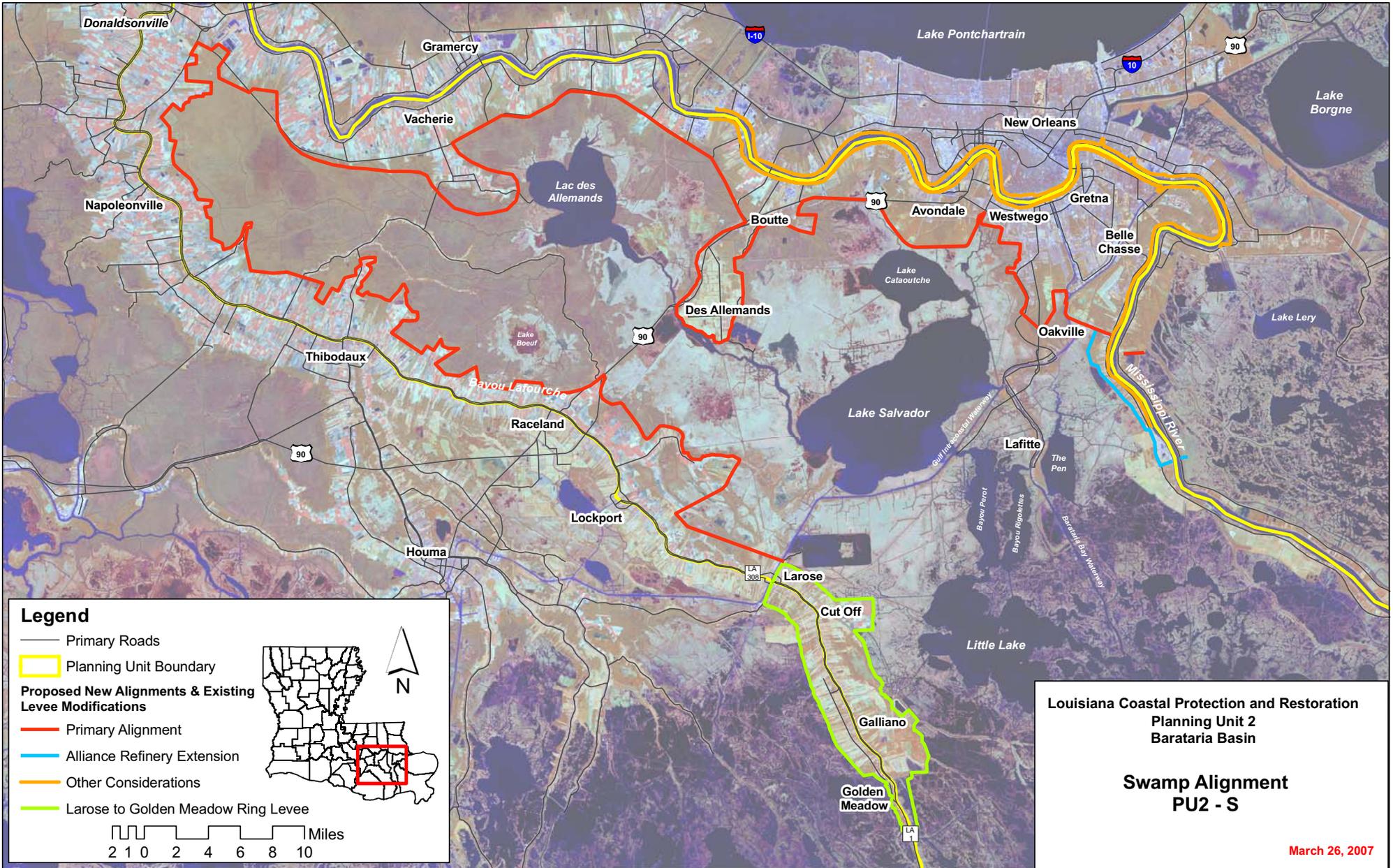
General Description: New levee alignment between the developed areas and wetlands of Barataria Basin. Other considerations include raising non-Federal levees in upper Plaquemines Parish and Larose to Golden Meadow Federal ring levees.

Population Receiving Risk Reduction Benefits: The Barataria Basin includes communities along the West Bank of the Mississippi River and east of Bayou Lafourche. Approximately one quarter of the population of Metropolitan New Orleans lives on the West Bank. This alignment would protect communities within the Basin living along the Mississippi River or Bayou Lafourche.

National and Strategic Resources: Port of Plaquemines, ConocoPhillips Alliance Refinery, Chevron Oronite Oak Point Plant, Chevron oil storage facility at Empire, Dynegy natural gas processing plant, Facilities directly related to OCS oil and gas activities, commercial fishing ports of Empire and Venice and production facilities, etc.

Line Color on Map	Legend Description	General Location of Reach	Alignment Description	New or Existing Alignment	Structures Required	Beneficial Considerations	Challenges
Red	Primary Alignment	From Oakville to Larose	Follows development along the Mississippi River up to Donaldsonville and then along Bayou Lafourche	New	110-ft sector gate on Bayou Barataria; approx. 25,000 cfs pump station	<ul style="list-style-type: none"> Protects most of Barataria Basin communities except Lafitte Doesn't enclose wetlands Follows natural topography 	<ul style="list-style-type: none"> Creates forced drainage requirement Very long levee/very costly Doesn't protect Hwy 90 evacuation route Very large footprint/borrow requirement Large Right-of-Way requirement Need to stay on agricultural land and out of wetlands
Aqua	Alliance Refinery Extension	Vicinity of Oakville to Alliance Refinery	Follows existing non-Federal levee	Existing		<ul style="list-style-type: none"> Provides incremental risk reduction for additional areas including the Alliance Refinery 	<ul style="list-style-type: none"> Levees may not be raised to 100-yr level Incremental benefit may not justify the cost
Green	Larose to Golden Meadow Ring Levee	Ring levee from Larose to Golden Meadow including Cut Off and Galliano	Follows existing Federal levee	Existing	Larger pumps needed	<ul style="list-style-type: none"> Provides risk reduction to 100-year level Good location for non-structural measures 	<ul style="list-style-type: none"> Induced flooding could be caused by proposed adjacent levees Wetland impacts
Orange	Other Considerations	Along MS River upstream from Oakville to (TBD)	Upgrading MR&T levees	Existing		<ul style="list-style-type: none"> Prevents overtopping of MR&T levees 	<ul style="list-style-type: none"> Close to development

Reaches which may need to be added to the primary measure to decrease residual risk identified during detailed hydrologic modeling.



Louisiana Coastal Protection and Restoration
 Planning Unit 2
 Barataria Basin

**Swamp Alignment
 PU2 - S**

March 26, 2007

Legend

- Primary Roads
- ▭ Planning Unit Boundary

Proposed New Alignments & Existing Levee Modifications

- Primary Alignment
- Alliance Refinery Extension
- Other Considerations
- Larose to Golden Meadow Ring Levee

2 1 0 2 4 6 8 10 Miles

Louisiana Coastal Protection and Restoration - Planning Unit 2 – Barataria Basin
West Bank Interior Alignment
PU2-WBI-1

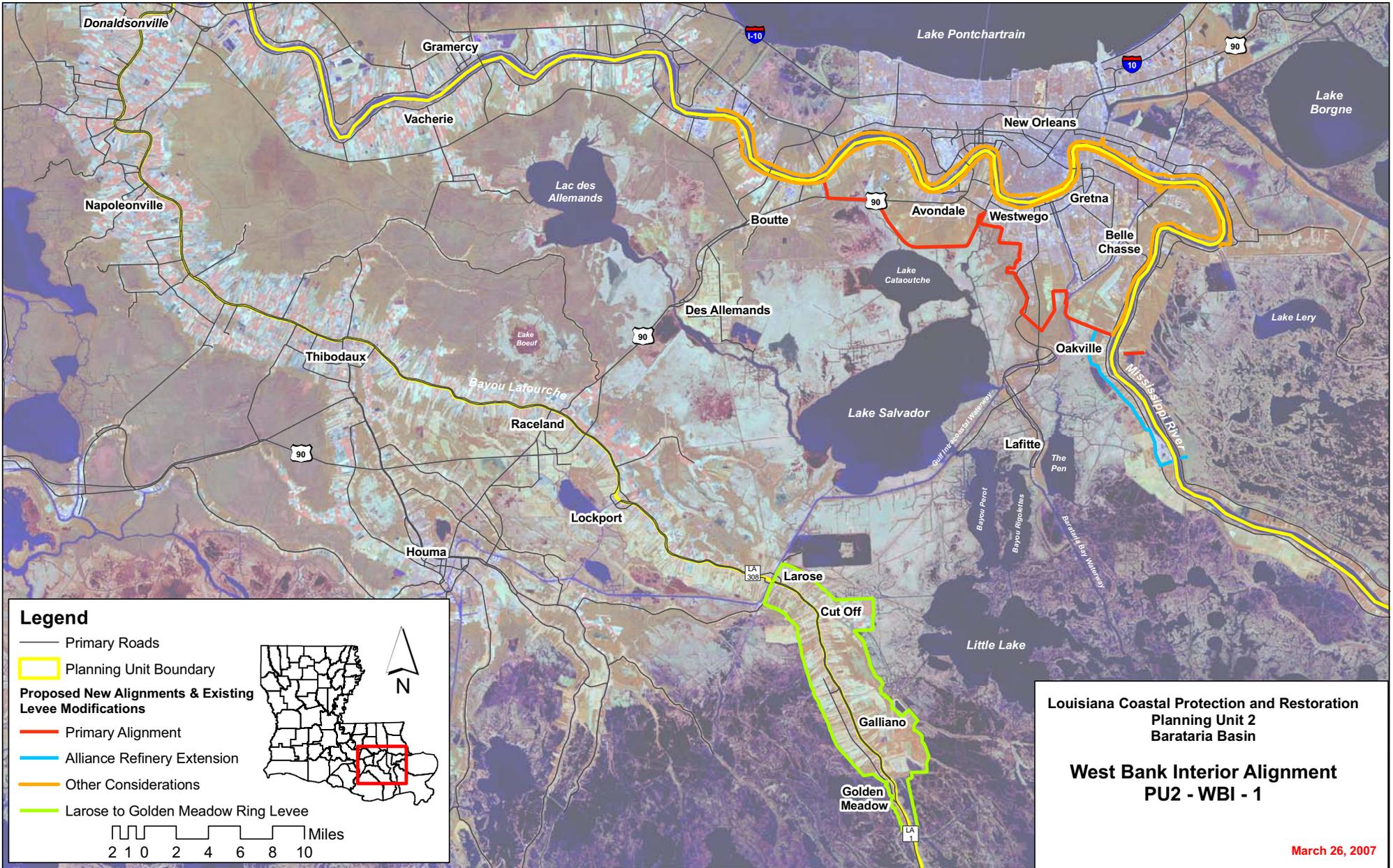
General Description: Raise existing West Bank and Vicinity Hurricane Protection Project to higher risk reduction level. Other considerations include raising non-Federal levees in upper Plaquemines Parish and Larose to Golden Meadow Federal ring levees.

Population Receiving Risk Reduction Benefits: The Barataria Basin includes communities along the West Bank of the Mississippi River and east of Bayou Lafourche. Approximately one quarter of the population of Metropolitan New Orleans lives on the West Bank. This alignment would only protect communities on the West Bank of the Mississippi River in the Metropolitan New Orleans area.

National and Strategic Resources: Port of Plaquemines, ConocoPhillips Alliance Refinery, Chevron Oronite Oak Point Plant, Chevron oil storage facility at Empire, Dynegy natural gas processing plant, Facilities directly related to OCS oil and gas activities, commercial fishing ports of Empire and Venice and production facilities, etc.

Line Color on Map	Legend Description	General Location of Reach	Alignment Description	New or Existing Alignment	Structures Required	Beneficial Considerations	Challenges
Red	Primary Alignment	From Davis Pond to Oakville	Follows existing Federal levee	Existing	110-ft sector gate on Bayou Barataria; approx. 25,000 cfs pump station	<ul style="list-style-type: none"> Provides risk reduction for the West Bank as well as Greater New Orleans Follows existing alignment 	<ul style="list-style-type: none"> Real estate costs (close to development) Long levee/large footprint (impacts to wetlands) Only protects portion of the West Bank and leaves a lot of development unprotected
Aqua	Alliance Refinery Extension	Vicinity of Oakville to Alliance Refinery	Follows existing non-Federal levee	Existing		<ul style="list-style-type: none"> Provides incremental risk reduction for additional areas including the Alliance Refinery 	<ul style="list-style-type: none"> Levees may not be raised to 100-yr level Incremental benefit may not justify the cost
Green	Larose to Golden Meadow Ring Levee	Ring levee from Larose to Golden Meadow including Cut Off and Galliano	Follows existing Federal levee	Existing	Larger pumps needed	<ul style="list-style-type: none"> Provides risk reduction to 100-year level Good location for non-structural measures 	<ul style="list-style-type: none"> Induced flooding could be caused by proposed adjacent levees Wetland impacts
Orange	Other Considerations	Along MS River upstream from Oakville to (TBD)	Upgrading MR&T levees	Existing		<ul style="list-style-type: none"> Prevents overtopping of MR&T levees 	<ul style="list-style-type: none"> Close to development

Reaches which may need to be added to the primary measure to decrease residual risk identified during detailed hydrologic modeling.



Legend

- Primary Roads
- ▭ Planning Unit Boundary

Proposed New Alignments & Existing Levee Modifications

- Primary Alignment
- Alliance Refinery Extension
- Other Considerations
- Larose to Golden Meadow Ring Levee

2 1 0 2 4 6 8 10 Miles

Louisiana Coastal Protection and Restoration
 Planning Unit 2
 Barataria Basin

**West Bank Interior Alignment
 PU2 - WBI - 1**

March 26, 2007

Louisiana Coastal Protection and Restoration - Planning Unit 2 – Barataria Basin
West Bank Interior Alignment
PU2-WBI-2

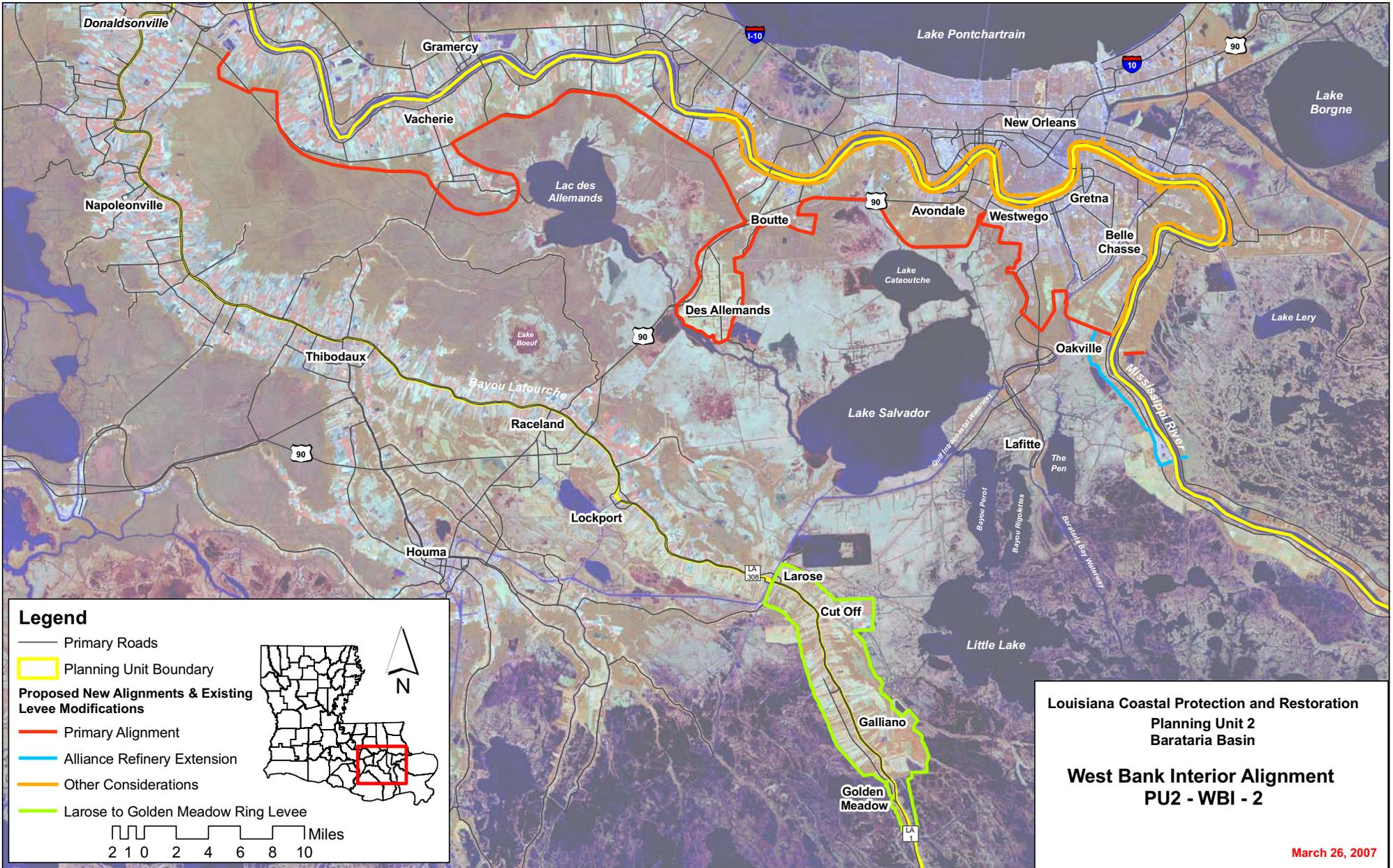
General Description: Raise existing West Bank and Vicinity Hurricane Protection Project to higher risk reduction level and extending the levee to south of Donaldsonville on the Bayou Lafourche Ridge. Other considerations include raising non-Federal levees in upper Plaquemines Parish and Larose to Golden Meadow Federal ring levees.

Population Receiving Risk Reduction Benefits: The Barataria Basin includes communities along the West Bank of the Mississippi River and east of Bayou Lafourche. Approximately one quarter of the population of Metropolitan New Orleans lives on the West Bank. This alignment would only protect communities on the West Bank of the Mississippi River.

National and Strategic Resources: Port of Plaquemines, ConocoPhillips Alliance Refinery, Chevron Oronite Oak Point Plant, Chevron oil storage facility at Empire, Dynegy natural gas processing plant, Facilities directly related to OCS oil and gas activities, commercial fishing ports of Empire and Venice and production facilities, etc.

Line Color on Map	Legend Description	General Location of Reach	Alignment Description	New or Existing Alignment	Structures Required	Beneficial Considerations	Challenges
Red	Primary Alignment	From Davis Pond to Oakville	Follows existing Federal levee	Existing	110-ft sector gate on Bayou Barataria; approx. 25,000 cfs pump station	<ul style="list-style-type: none"> Provides risk reduction for the West Bank as well as Greater New Orleans Follows existing alignment 	<ul style="list-style-type: none"> Real estate costs (close to development) Long levee/large footprint (impacts to wetlands) Only protects portion of the West Bank and leaves a lot of development unprotected
		From south of Donaldsonville to Davis Pond	Follows along west bank development	New		<ul style="list-style-type: none"> Additional protection for the West Bank of the Mississippi up to Donaldsonville. May be an existing non-Federal levee system to tie into 	<ul style="list-style-type: none"> Very long levee-expensive Large footprint Economic and environmental impacts Low density population
Aqua	Alliance Refinery Extension	Vicinity of Oakville to Alliance Refinery	Follows existing non-Federal levee	Existing		<ul style="list-style-type: none"> Provides incremental risk reduction for additional areas including the Alliance Refinery 	<ul style="list-style-type: none"> Levees may not be raised to 100-yr level Incremental benefit may not justify the cost
Green	Larose to Golden Meadow Ring Levee	Ring levee from Larose to Golden Meadow including Cut Off and Galliano	Follows existing Federal levee	Existing	Larger pumps needed	<ul style="list-style-type: none"> Provides risk reduction to 100-year level Good location for non-structural measures 	<ul style="list-style-type: none"> Induced flooding could be caused by proposed adjacent levees Wetland impacts
Orange	Other Considerations	Along MS River upstream from Oakville to (TBD)	Upgrading MR&T levees	Existing		<ul style="list-style-type: none"> Prevents overtopping of MR&T levees 	<ul style="list-style-type: none"> Close to development

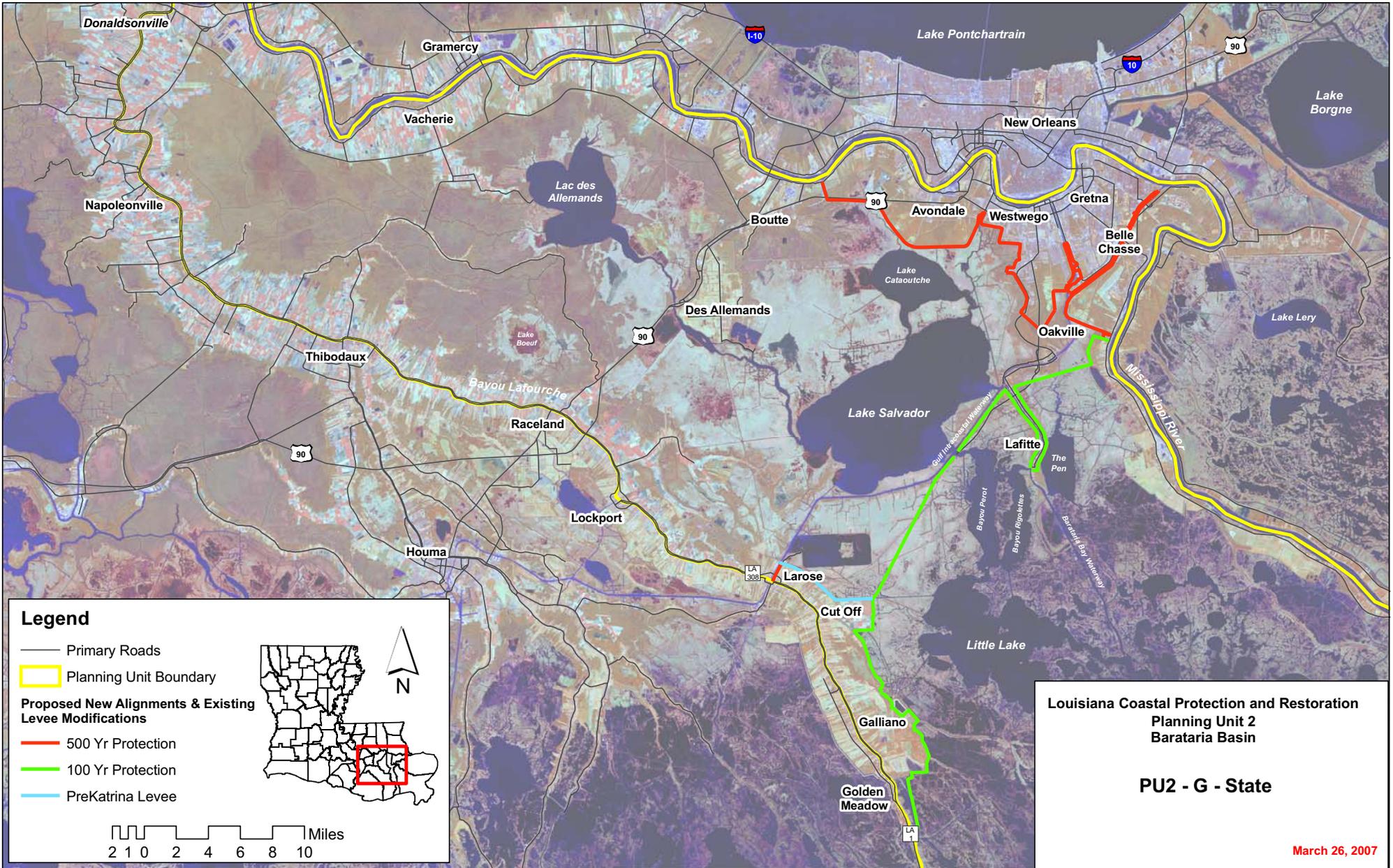
Reaches which may need to be added to the primary measure to decrease residual risk identified during detailed hydrologic modeling.



March 26, 2007

Louisiana Coastal Protection and Restoration - Planning Unit 2 – Barataria Basin
Preliminary Draft State Master Plan Alignment
PU2-G-State

See updated information on the State Master Plan at
<http://www.louisianacoastalplanning.org>



Legend

- Primary Roads
- ▭ Planning Unit Boundary

Proposed New Alignments & Existing Levee Modifications

- 500 Yr Protection
- 100 Yr Protection
- PreKatrina Levee

Miles
2 1 0 2 4 6 8 10

**Louisiana Coastal Protection and Restoration
Planning Unit 2
Barataria Basin**

PU2 - G - State

March 26, 2007

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