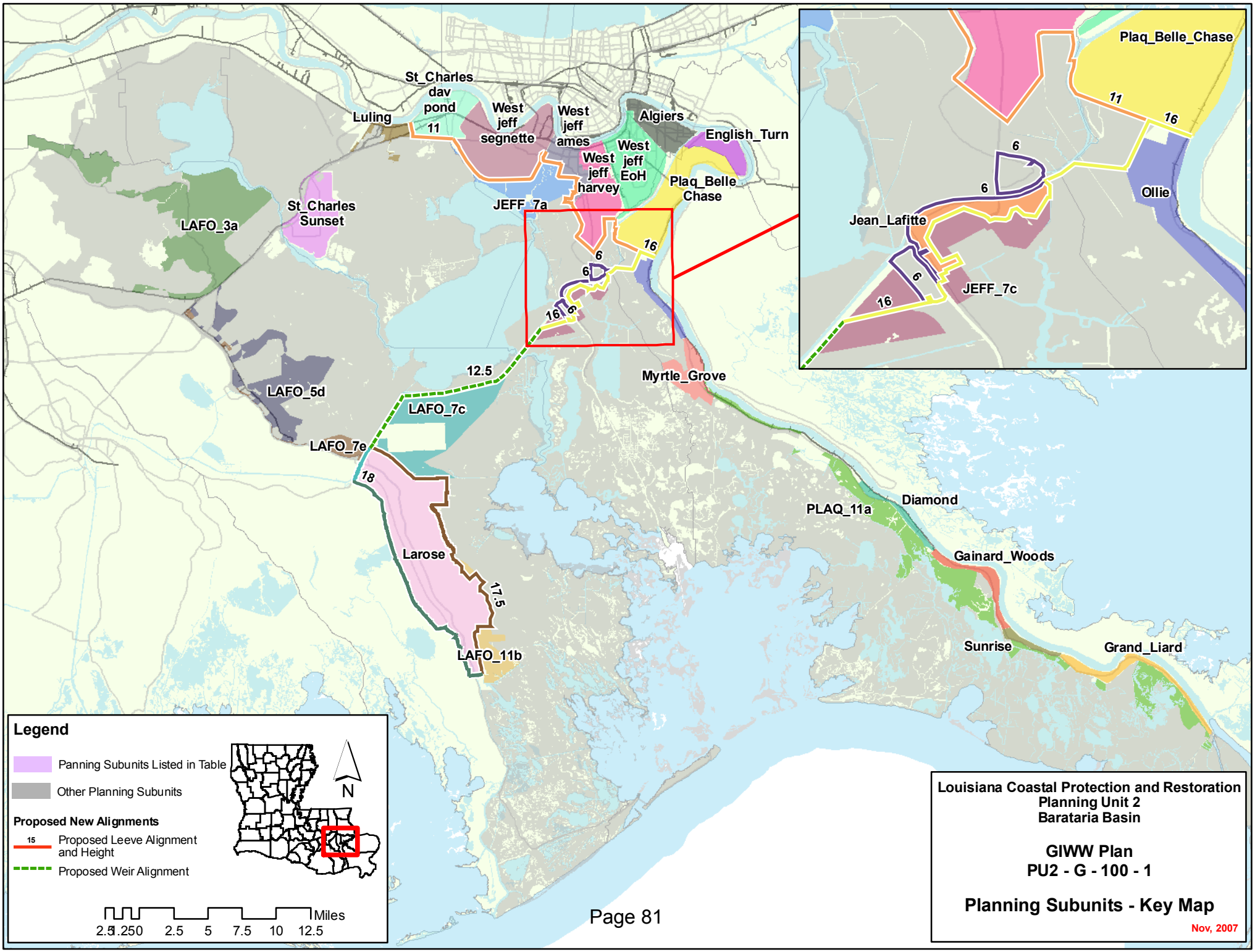
St_Charles
dav
pond
Luling
11
West
jeff
segnette
West
jeff
ames
West
jeff
harvey
West
jeff
EoH
Algiers
English_Turn
Plaq_Belle
Chase
JEFF_7a
St_Charles
Sunset
LAFO_3a
16
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12.5
LAFO_5d
LAFO_7c
LAFO_7e
18
Myrtle_Grove
Larose
17.5
LAFO_11b
PLAQ_11a
Diamond
Gainard_Woods
Sunrise
Grand_Liard
Plaq_Belle_Chase
11
16
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6
Ollie
Jean_Lafitte
6
JEFF_7c
16
Legend
Panning Subunits Listed in Table
Other Planning Subunits
Proposed New Alignments
15
Proposed Leeve Alignment
and Height
Proposed Weir Alignment
N
Miles
2.5 1.250 2.5 5 7.5 10 12.5
Louisiana Coastal Protection and Restoration
Planning Unit 2
Barataria Basin
GIWW Plan
PU2 - G - 100 - 1
Planning Subunits - Key Map
Nov, 2007

Alternative: PU2-G-100-1

Water Surface Elevations (feet - NAVD88 2004.65)

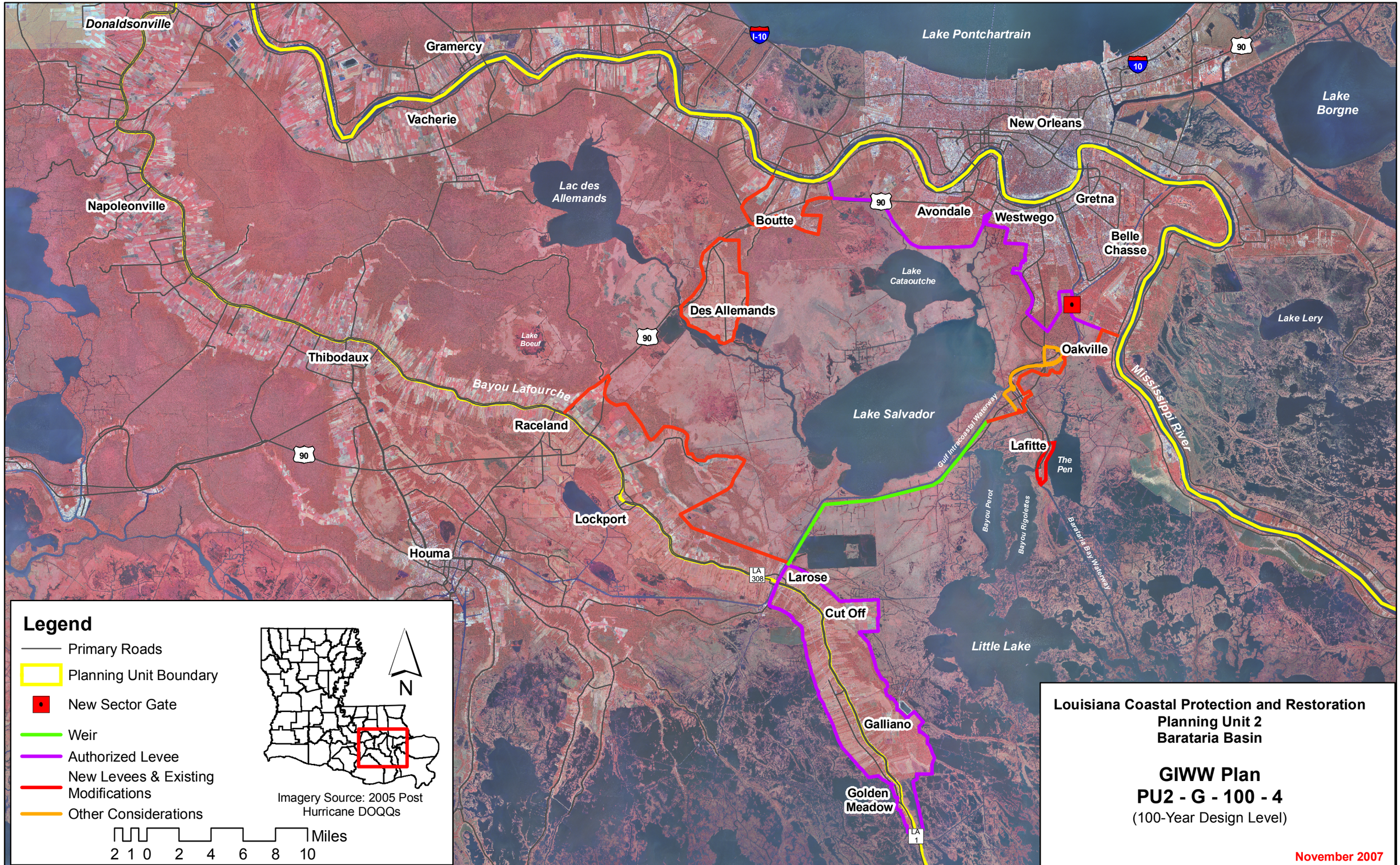
Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
Algiers	-3.8	-3.9	10.7	-3.9	12.1	-3.9	12.9	-3.9	16.3	-3.9	17.9	-3.9
Diamond	13.0	13.0	16.7	16.4	18.9	18.6	16.2	16.2	26.3	19.6	30.2	21.8
English_Turn	-1.7	-1.7	10.7	-1.7	12.1	-1.7	12.9	-1.7	16.3	-1.7	17.9	-1.7
Gainard_Woods	13.5	13.5	17.3	17.6	19.7	20.1	16.7	16.7	20.5	20.8	22.9	23.3
Grand_Liard	15.0	15.0	16.7	16.4	18.9	18.6	18.2	18.2	26.3	19.6	30.2	21.8
JEFF_7a	7.7	4.5	10.8	7.2	13.0	9.8	14.9	7.7	19.6	10.4	22.2	13.0
JEFF_7c	8.4	12.0	11.9	15.5	14.0	17.6	14.6	15.2	18.9	18.7	21.1	20.8
LAFO_11b	11.6	11.4	14.5	14.6	16.0	16.3	14.8	14.6	17.7	17.8	19.2	19.5
LAFO_3a	3.9	3.2	5.1	4.3	6.0	5.1	7.1	6.4	8.3	7.5	9.2	8.3
LAFO_5d	5.8	3.1	8.7	4.4	10.9	5.4	11.8	6.3	16.2	7.6	19.1	8.6
LAFO_7c	7.1	10.2	9.1	12.2	10.3	13.5	11.7	13.4	13.6	15.4	14.8	16.7
LAFO_7e	8.1	5.0	11.3	6.2	13.4	6.9	13.9	8.2	18.8	9.4	21.2	10.1
Larose	-2.5	-2.0	9.0	17.5	12.0	17.5	15.0	-2.0	15.0	17.5	15.0	17.5
Luling	6.1	4.3	8.6	5.9	10.2	7.0	9.3	7.5	11.8	9.1	13.4	10.2
Myrtle_Grove	10.3	9.4	13.8	11.7	15.7	12.8	13.5	12.6	17.3	14.9	18.6	16.0
Ollie	8.0	8.0	13.2	16.0	15.3	18.1	11.2	11.2	19.2	19.2	22.1	21.3
PLAQ_11a	12.5	12.5	16.7	16.4	18.9	18.6	19.5	15.7	26.3	19.6	30.2	21.8
Plaq_Belle_Chase	-2.6	-2.7	11.0	-0.8	11.3	2.9	11.6	-2.7	14.3	-0.8	15.8	2.9
St_Charles_dav_pond	1.6	1.5	4.8	1.5	11.0	1.6	11.0	1.5	13.2	1.5	14.5	1.6
St_Charles_Sunset	7.0	6.3	9.4	8.9	10.7	10.5	10.2	9.5	12.6	12.1	13.9	13.7
Sunrise	15.0	15.0	16.7	16.4	18.9	18.6	18.2	18.2	26.3	19.6	30.2	21.8
West_jeff_ames	-1.5	-1.5	11.0	-1.5	11.3	-1.3	11.6	-1.5	14.3	-1.5	15.8	-1.3
West_jeff_EoH	-3.5	-3.7	11.0	-3.7	11.3	-3.7	11.6	-3.7	14.3	-3.7	15.8	-3.7
West_jeff_harvey	-2.4	-2.5	11.0	-2.5	11.3	-2.5	11.6	-2.5	14.3	-2.5	15.8	-2.5
West_jeff_segnette	-3.9	-4.0	11.0	-4.0	11.3	-4.0	11.6	-4.0	14.3	-4.0	15.8	-4.0

Evaluation Parameters					
	Confidence Level:	90%	Levee Design:	No Friction Waves	
	Future Sea Level Rise:	High	Levee Overtopping:	No Friction Waves	

Planning Unit:	2	Alt. No.	PU2-G-100-4	Category	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Similar structural features as PU2-R-100-4 but with additional barrier-weir and levees along the GIWW to reduce risk to areas within the Barataria Basin. Also reduces risk to the Lafitte area.				
Coastal Component:	R2 (pulsed diversions)			Nonstructural Component:	None
Structural Component:	See alternative description.				

		Metric Results by Scenario with Uncertainty Bands								
		Life-cycle Cost	Resident Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
		$ Billions	Ann. Equiv. #	Ann. Equiv ($ 1000's)	Ann. Equiv ($ 1000's)	Ann. Equiv #	Ann. Equiv ($ 1000's)	# Sites	# Properties	# Districts
Scenario 1	Low		20,411	893,188	964,408	1,957	138,496	396	24	8
	Mean	30.18	23,259	1,176,369	1,375,437	3,138	223,558	449	26	9
	High		24,404	1,345,067	1,585,581	3,568	249,487	502	26	9
Scenario 2	Low		21,097	965,756	1,100,994	2,373	173,914	396	23	8
	Mean	30.39	23,454	1,206,196	1,397,442	3,173	227,160	449	26	9
	High		24,507	1,365,589	1,599,800	3,585	251,783	502	26	9
Scenario 3	Low		14,576	539,576	788,481	1,566	109,037	396	24	8
	Mean	30.18	17,089	805,287	1,120,094	2,522	176,145	449	26	9
	High		17,914	947,241	1,319,341	2,901	199,144	502	26	9
Scenario 4	Low		15,047	603,973	895,352	1,862	134,785	396	23	8
	Mean	30.39	17,205	829,231	1,139,785	2,550	179,197	449	26	9
	High		17,991	962,431	1,332,074	2,916	201,333	502	26	9

Other Metric Results							
Construction Time (years)	11	Wetlands Created/ Protected (acres)	Scen 1&3	Scen 2&4	PV Cost of NS Comp ($ Billions)	Scen 1&2	Scen 3&4
Direct Wetland Impacts (acres)	-2,241		118,802	105,958		N/A	N/A
Indirect Impacts	-8	PV Cost of Coastal Component ($ Billions)	15.66	15.69			
Spatial Integrity	0.539						
		PV Cost of Structural Component ($ Billions)	14.52	14.70			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Lake Borgne
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Boutte
Avondale
Westwego
Gretna
Belle Chasse
Lake Cataoutche
Des Allemands
Lake Boeuf
Lake Lery
Oakville
Thibodaux
Bayou Lafourche
Raceland
Lake Salvador
Mississippi River
Gulf Intracoastal Waterway
Lafitte
The Pen
Bayou Perot
Bayou Rigolettes
Barataria Bay Waterway
Lockport
Houma
LA 308
Larose
Cut Off
Little Lake
Galliano
Golden Meadow
LA 1
Legend
Primary Roads
Planning Unit Boundary
New Sector Gate
Weir
Authorized Levee
New Levees & Existing Modifications
Other Considerations
N
Imagery Source: 2005 Post Hurricane DOQQs
Miles
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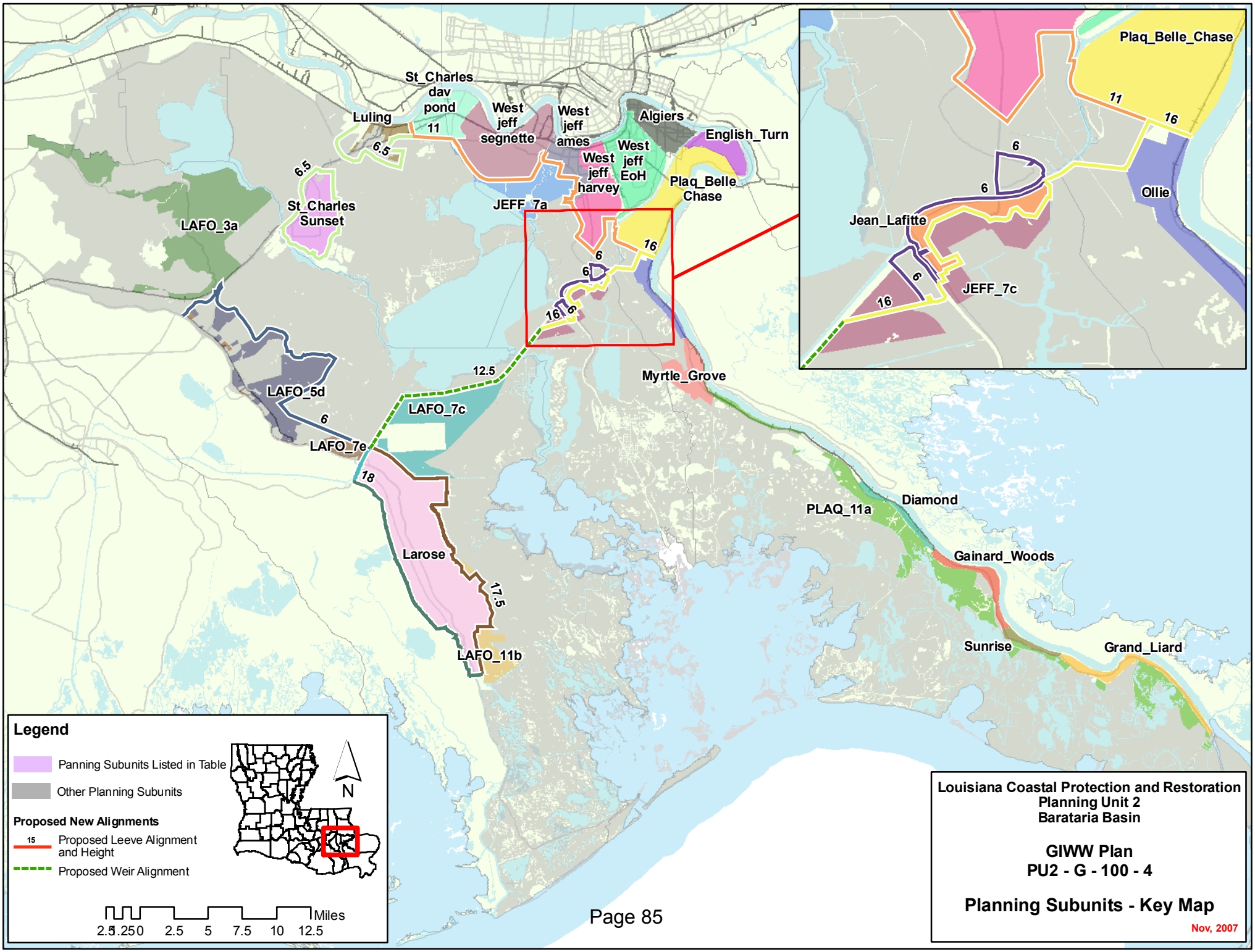
Louisiana Coastal Protection and Restoration
Planning Unit 2
Barataria Basin
GIWW Plan
PU2 - G - 100 - 4
(100-Year Design Level)
November 2007


St_Charles dav pond
Luling
West jeff segnette
West jeff ames
Algiers
English_Turn
West jeff EoH
West jeff harvey
Plaq_Belle Chase
JEFF_7a
St_Charles Sunset
LAFO_3a
LAFO_5d
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Myrtle_Grove
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Grand_Liard
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Ollie
Jean_Lafitte
JEFF_7c
Legend
Panning Subunits Listed in Table
Other Planning Subunits
Proposed New Alignments
Proposed Leeve Alignment and Height
Proposed Weir Alignment
N
Miles
2.5 1.25 0 2.5 5 7.5 10 12.5
Louisiana Coastal Protection and Restoration
Planning Unit 2
Barataria Basin
GIWW Plan
PU2 - G - 100 - 4
Planning Subunits - Key Map
Nov, 2007

Alternative: PU2-G-100-4

Water Surface Elevations (feet - NAVD88 2004.65)

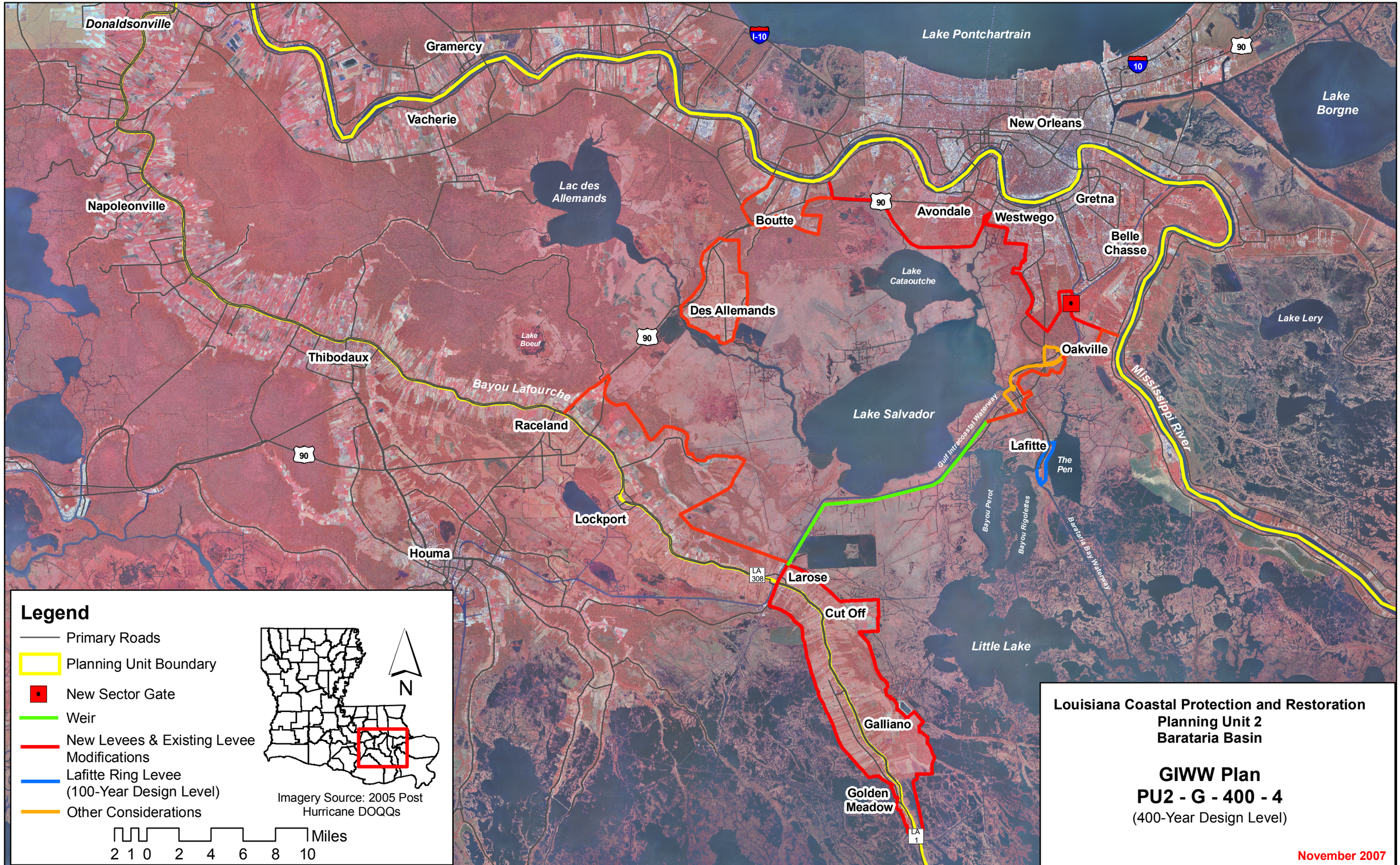
Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
Algiers	-3.8	-3.9	10.7	-3.9	12.1	-3.9	12.9	-3.9	16.3	-3.9	17.9	-3.9
Diamond	13.0	13.0	16.7	16.4	18.9	18.6	16.2	16.2	26.3	19.6	30.2	21.8
English_Turn	-1.7	-1.7	10.7	-1.7	12.1	-1.7	12.9	-1.7	16.3	-1.7	17.9	-1.7
Gainard_Woods	13.5	13.5	17.3	17.6	19.7	20.1	16.7	16.7	20.5	20.8	22.9	23.3
Grand_Liard	15.0	15.0	16.7	16.4	18.9	18.6	18.2	18.2	26.3	19.6	30.2	21.8
JEFF_7a	7.7	4.5	10.8	7.2	13.0	9.8	14.9	7.7	19.6	10.4	22.2	13.0
JEFF_7c	8.4	12.0	11.9	15.5	14.0	17.6	14.6	15.2	18.9	18.7	21.1	20.8
LAFO_11b	11.6	11.4	14.5	14.6	16.0	16.3	14.8	14.6	17.7	17.8	19.2	19.5
LAFO_3a	3.9	3.2	5.1	4.3	6.0	5.1	7.1	6.4	8.3	7.5	9.2	8.3
LAFO_5d	5.8	1.3	8.7	5.1	10.9	6.0	11.8	1.3	16.2	5.1	19.1	6.0
LAFO_7c	7.1	10.2	9.1	12.2	10.3	13.5	11.7	13.4	13.6	15.4	14.8	16.7
LAFO_7e	8.1	1.3	11.3	5.1	13.4	6.0	13.9	1.3	18.8	5.1	21.2	6.0
Larose	-2.5	-2.0	9.0	17.5	12.0	17.5	15.0	-2.0	15.0	17.5	15.0	17.5
Luling	6.1	2.0	8.6	6.5	10.2	6.5	9.3	2.0	11.8	6.5	13.4	6.5
Myrtle_Grove	10.3	9.4	13.8	11.7	15.7	12.8	13.5	12.6	17.3	14.9	18.6	16.0
Ollie	8.0	8.0	13.2	16.0	15.3	18.1	11.2	11.2	19.2	19.2	22.1	21.3
PLAQ_11a	12.5	12.5	16.7	16.4	18.9	18.6	19.5	15.7	26.3	19.6	30.2	21.8
Plaq_Belle_Chase	-2.6	-2.7	11.0	-0.8	11.3	2.9	11.6	-2.7	14.3	-0.8	15.8	2.9
St_Charles_dav_pond	1.6	1.5	4.8	1.5	11.0	1.6	11.0	1.5	13.2	1.5	14.5	1.6
St_Charles_Sunset	7.0	-4.8	9.4	5.1	10.7	6.5	10.2	-4.8	12.6	5.1	13.9	6.5
Sunrise	15.0	15.0	16.7	16.4	18.9	18.6	18.2	18.2	26.3	19.6	30.2	21.8
West_jeff_ames	-1.5	-1.5	11.0	-1.5	11.3	-1.3	11.6	-1.5	14.3	-1.5	15.8	-1.3
West_jeff_EoH	-3.5	-3.7	11.0	-3.7	11.3	-3.7	11.6	-3.7	14.3	-3.7	15.8	-3.7
West_jeff_harvey	-2.4	-2.5	11.0	-2.5	11.3	-2.5	11.6	-2.5	14.3	-2.5	15.8	-2.5
West_jeff_segnette	-3.9	-4.0	11.0	-4.0	11.3	-4.0	11.6	-4.0	14.3	-4.0	15.8	-4.0

Evaluation Parameters					
	Confidence Level:	90%	Levee Design:	No Friction Waves	
	Future Sea Level Rise:	High	Levee Overtopping:	No Friction Waves	

Planning Unit:	2	**Alt. No.**	PU2-G-400-4	**Category**	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Similar structural features as PU2-R-400-4 but with additional barrier-weir and levees along the GIWW to reduce risk to areas within the Barataria Basin. Also reduces risk to the Lafitte area.				
Coastal Component:	R2 (pulsed diversions)			**Nonstructural Component:**	None
Structural Component:	See alternative description.				

		Metric Results by Scenario with Uncertainty Bands								
		Life-cycle Cost	Resident Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
		$ Billions	Ann. Equiv. #	Ann. Equiv ($ 1000's)	Ann. Equiv ($ 1000's)	Ann. Equiv #	Ann. Equiv ($ 1000's)	# Sites	# Properties	# Districts
Scenario 1	**Low**		20,899	922,158	994,989	2,051	145,779	396	25	8
	Mean	50.41	23,786	1,224,156	1,454,227	3,352	240,586	449	27	9
	High		24,719	1,371,435	1,654,629	3,738	263,881	502	27	9
Scenario 2	**Low**		21,697	1,008,006	1,166,605	2,573	190,365	396	24	8
	Mean	50.57	23,997	1,256,717	1,481,161	3,395	244,947	449	27	9
	High		24,777	1,392,489	1,671,730	3,758	266,595	502	27	9
Scenario 3	**Low**		15,008	564,404	816,293	1,652	115,707	396	25	8
	Mean	50.41	17,567	849,178	1,184,507	2,693	189,799	449	27	9
	High		18,219	975,528	1,376,199	3,033	210,530	502	27	9
Scenario 4	**Low**		15,564	641,789	950,697	2,023	148,128	396	24	8
	Mean	50.57	17,694	875,942	1,208,716	2,727	193,496	449	27	9
	High		18,297	991,563	1,391,619	3,050	213,075	502	27	9

Other Metric Results							
Construction Time (years)	13	**Wetlands Created/ Protected (acres)**	**Scen 1&3**	**Scen 2&4**	**PV Cost of NS Comp ($ Billions)**	**Scen 1&2**	**Scen 3&4**
Direct Wetland Impacts (acres)	-7,433		118,802	105,958		N/A	N/A
Indirect Impacts	-8	**PV Cost of Coastal Component ($ Billions)**	15.66	15.69			
Spatial Integrity	0.539						
		PV Cost of Structural Component ($ Billions)	34.75	34.88			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Lake Borgne
New Orleans
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Avondale
Westwego
Gretna
Belle Chasse
Lake Cataoutche
Des Allemands
Lake Boeuf
Lake Lery
Oakville
Thibodaux
Bayou Lafourche
Raceland
Lake Salvador
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Gulf Intracoastal Waterway
Lafitte
The Pen
Bayou Perot
Bayou Rigolettes
Barataria Bay Waterway
Lockport
Houma
LA 308
Larose
Cut Off
Little Lake
Galliano
Golden Meadow
LA 1
Legend
Primary Roads
Planning Unit Boundary
New Sector Gate
Weir
New Levees & Existing Levee Modifications
Lafitte Ring Levee (100-Year Design Level)
Other Considerations
N
Imagery Source: 2005 Post Hurricane DOQQs
Miles
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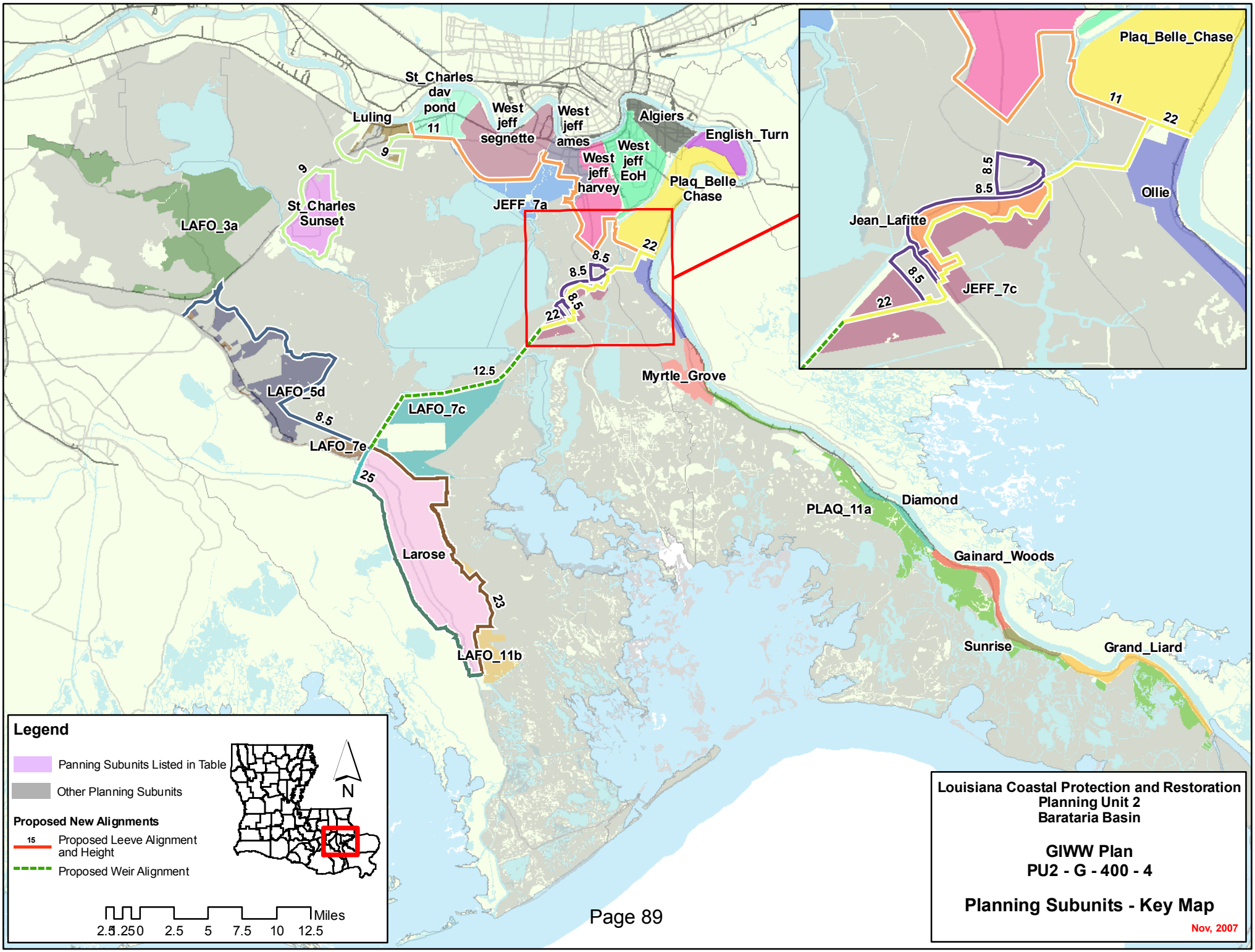
Louisiana Coastal Protection and Restoration
Planning Unit 2
Barataria Basin
GIWW Plan
PU2 - G - 400 - 4
(400-Year Design Level)
November 2007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Panning Subunits Listed in Table
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Proposed Weir Alignment
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Miles
2.5 1.25 0 2.5 5 7.5 10 12.5
Louisiana Coastal Protection and Restoration
Planning Unit 2
Barataria Basin
GIWW Plan
PU2 - G - 400 - 4
Planning Subunits - Key Map
Nov, 2007

Alternative: PU2-G-400-4

Water Surface Elevations (feet - NAVD88 2004.65)

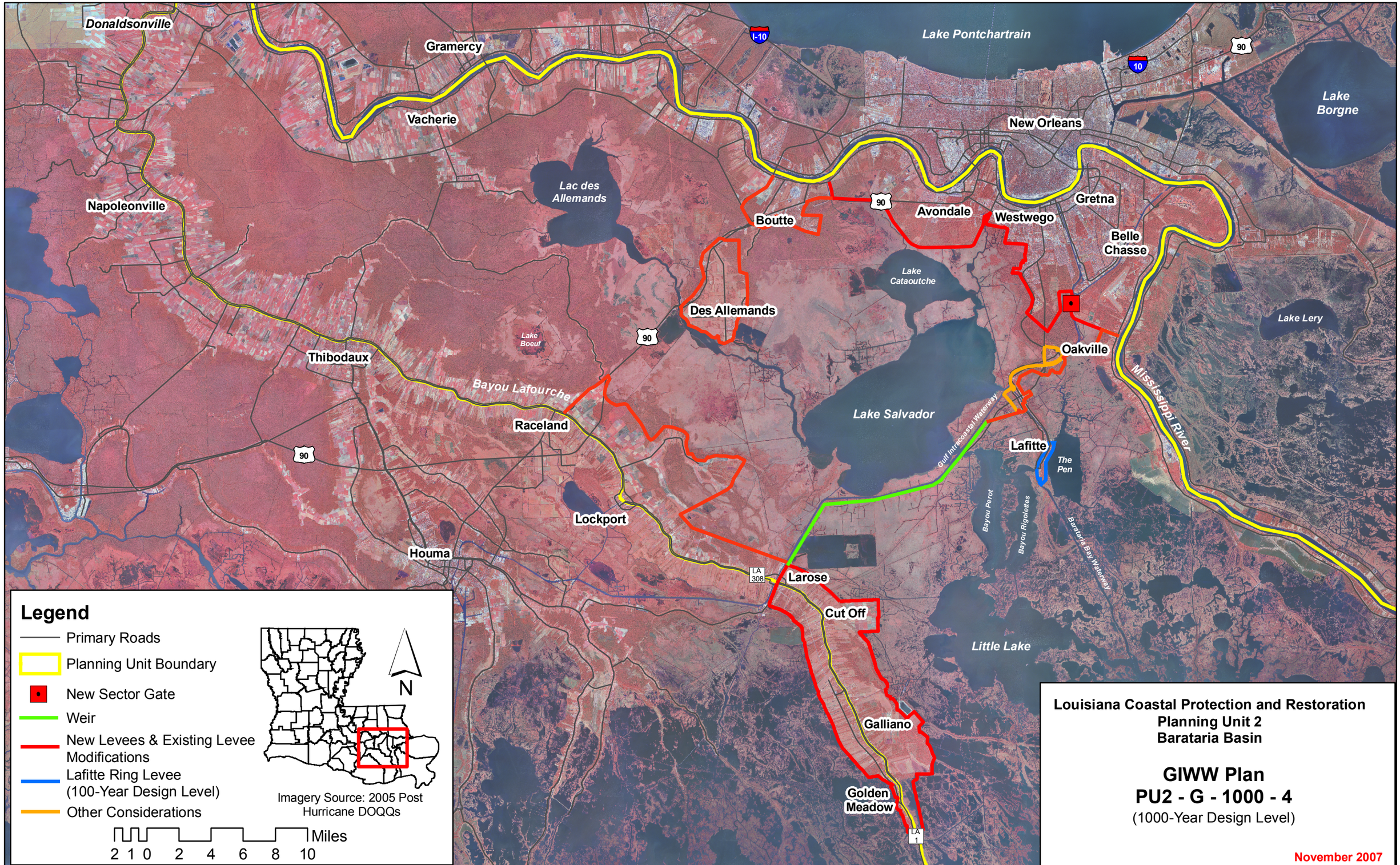
Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
Algiers	-3.8	-3.9	10.7	-3.9	12.1	-3.9	12.9	-3.9	16.3	-3.9	17.9	-3.9
Diamond	13.0	13.0	16.7	16.4	18.9	18.6	16.2	16.2	26.3	19.6	30.2	21.8
English_Turn	-1.7	-1.7	10.7	-1.7	12.1	-1.7	12.9	-1.7	16.3	-1.7	17.9	-1.7
Gainard_Woods	13.5	13.5	17.3	17.6	19.7	20.1	16.7	16.7	20.5	20.8	22.9	23.3
Grand_Liard	15.0	15.0	16.7	16.4	18.9	18.6	18.2	18.2	26.3	19.6	30.2	21.8
JEFF_7a	7.7	4.5	10.8	7.2	13.0	9.8	14.9	7.7	19.6	10.4	22.2	13.0
JEFF_7c	8.4	12.0	11.9	15.5	14.0	17.6	14.6	15.2	18.9	18.7	21.1	20.8
LAFO_11b	11.6	11.4	14.5	14.6	16.0	16.3	14.8	14.6	17.7	17.8	19.2	19.5
LAFO_3a	3.9	3.2	5.1	4.3	6.0	5.1	7.1	6.4	8.3	7.5	9.2	8.3
LAFO_5d	5.8	1.1	8.7	1.2	10.9	2.4	11.8	1.1	16.2	1.2	19.1	2.4
LAFO_7c	7.1	10.2	9.1	12.2	10.3	13.5	11.7	13.4	13.6	15.4	14.8	16.7
LAFO_7e	8.1	1.1	11.3	1.2	13.4	2.4	13.9	1.1	18.8	1.2	21.2	2.4
Larose	-2.5	-2.9	9.0	-2.1	12.0	0.7	15.0	-2.9	15.0	-2.1	15.0	0.7
Luling	6.1	1.5	8.6	2.0	10.2	3.7	9.3	1.5	11.8	2.0	13.4	3.7
Myrtle_Grove	10.3	9.4	13.8	11.7	15.7	12.8	13.5	12.6	17.3	14.9	18.6	16.0
Ollie	8.0	8.0	13.2	16.0	15.3	18.1	11.2	11.2	19.2	19.2	22.1	21.3
PLAQ_11a	12.5	12.5	16.7	16.4	18.9	18.6	19.5	15.7	26.3	19.6	30.2	21.8
Plaq_Belle_Chase	-2.6	-2.8	11.0	-2.7	11.3	-2.5	11.6	-2.8	14.3	-2.7	15.8	-2.5
St_Charles_dav_pond	1.6	1.5	4.8	1.5	11.0	1.6	11.0	1.5	13.2	1.5	14.5	1.6
St_Charles_Sunset	7.0	-5.1	9.4	-4.7	10.7	-2.6	10.2	-5.1	12.6	-4.7	13.9	-2.6
Sunrise	15.0	15.0	16.7	16.4	18.9	18.6	18.2	18.2	26.3	19.6	30.2	21.8
West_jeff_ames	-1.5	-1.5	11.0	-1.5	11.3	-1.3	11.6	-1.5	14.3	-1.5	15.8	-1.3
West_jeff_EoH	-3.5	-3.7	11.0	-3.7	11.3	-3.7	11.6	-3.7	14.3	-3.7	15.8	-3.7
West_jeff_harvey	-2.4	-2.5	11.0	-2.5	11.3	-2.5	11.6	-2.5	14.3	-2.5	15.8	-2.5
West_jeff_segnette	-3.9	-4.0	11.0	-4.0	11.3	-4.0	11.6	-4.0	14.3	-4.0	15.8	-4.0

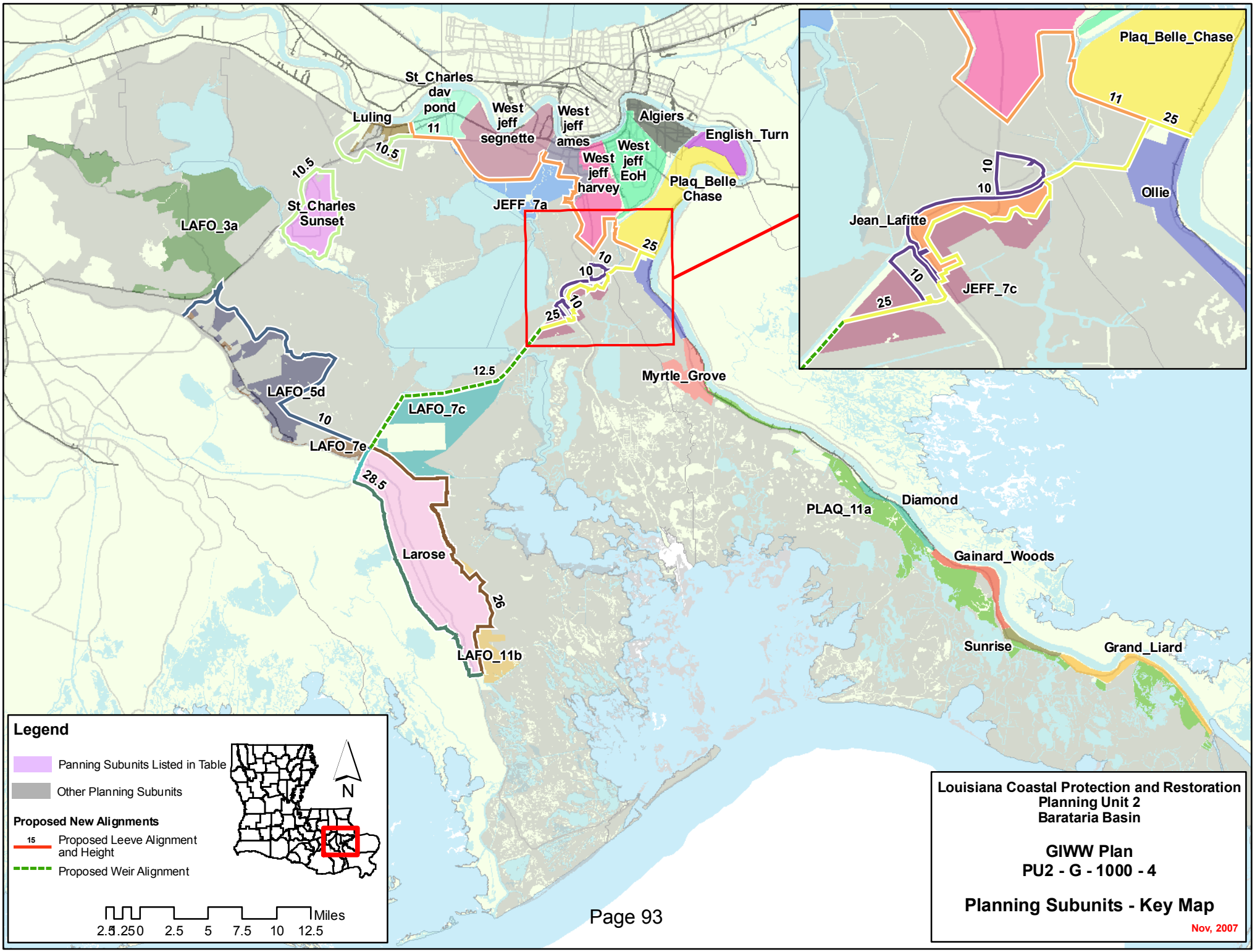
Evaluation Parameters					
	Confidence Level:	90%	Levee Design:	No Friction Waves	
	Future Sea Level Rise:	High	Levee Overtopping:	No Friction Waves	

Planning Unit:	2	**Alt. No.**	PU2-G-1000-4	**Category**	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Similar structural features as PU2-R-1000-4 but with additional barrier-weir and levees along the GIWW to reduce risk to areas within the Barataria Basin. Also reduces risk to the Lafitte area.				
Coastal Component:	R2 (pulsed diversions)			**Nonstructural Component:**	None
Structural Component:	See alternative description.				

		Metric Results by Scenario with Uncertainty Bands								
		Life-cycle Cost	Resident Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
		$ Billions	Ann. Equiv. #	Ann. Equiv ($ 1000's)	Ann. Equiv ($ 1000's)	Ann. Equiv #	Ann. Equiv ($ 1000's)	# Sites	# Properties	# Districts
Scenario 1	**Low**		20,899	922,158	994,989	2,051	145,779	396	25	8
	Mean	57.99	23,783	1,224,060	1,454,211	3,352	240,582	449	27	9
	High		24,675	1,369,862	1,651,664	3,730	263,159	502	27	9
Scenario 2	**Low**		21,697	1,008,005	1,166,605	2,573	190,365	396	24	8
	Mean	58.15	23,997	1,256,621	1,481,144	3,395	244,943	449	27	9
	High		24,777	1,390,916	1,668,764	3,750	265,873	502	27	9
Scenario 3	**Low**		15,008	564,404	816,293	1,652	115,707	396	25	8
	Mean	57.99	17,564	849,092	1,184,489	2,693	189,793	449	27	9
	High		18,182	974,180	1,373,492	3,025	209,881	502	27	9
Scenario 4	**Low**		15,564	641,788	960,697	2,023	148,128	396	24	8
	Mean	58.15	17,691	875,856	1,208,698	2,727	193,490	449	27	9
	High		18,260	990,215	1,388,912	3,043	212,426	502	27	9

Other Metric Results							
Construction Time (years)	13	**Wetlands Created/ Protected (acres)**	**Scen 1&3**	**Scen 2&4**	**PV Cost of NS Comp ($ Billions)**	**Scen 1&2**	**Scen 3&4**
Direct Wetland Impacts (acres)	-9,458		118,802	105,958		N/A	N/A
Indirect Impacts	-8	**PV Cost of Coastal Component ($ Billions)**	15.66	15.69			
Spatial Integrity	0.539						
		PV Cost of Structural Component ($ Billions)	42.33	42.46			


Donaldsonville
Gramercy
Vacherie
Napoleonville
Lake Pontchartrain
I-10
10
90
Lake Borgne
New Orleans
Lac des Allemands
Boutte
Avondale
Westwego
Gretna
Belle Chasse
Lake Cataoutche
Des Allemands
Lake Boeuf
Lake Lery
Oakville
Thibodaux
Bayou Lafourche
Raceland
Lake Salvador
Mississippi River
Gulf Intracoastal Waterway
Lafitte
The Pen
Bayou Perot
Bayou Rigolettes
Barataria Bay Waterway
Lockport
Houma
LA 308
Larose
Cut Off
Little Lake
Galliano
Golden Meadow
LA 1
Legend
Primary Roads
Planning Unit Boundary
New Sector Gate
Weir
New Levees & Existing Levee Modifications
Lafitte Ring Levee (100-Year Design Level)
Other Considerations
N
Imagery Source: 2005 Post Hurricane DOQQs
Miles
2 1 0 2 4 6 8 10
Louisiana Coastal Protection and Restoration
Planning Unit 2
Barataria Basin
GIWW Plan
PU2 - G - 1000 - 4
(1000-Year Design Level)
November 2007


St_Charles
dav
pond
Luling
11
West
jeff
segnette
West
jeff
ames
Algiers
English_Turn
West
jeff
EoH
West
jeff
harvey
Plaq_Belle
Chase
10.5
10.5
St_Charles
Sunset
LAFO_3a
JEFF_7a
25
10
10
10
25
12.5
LAFO_5d
10
LAFO_7c
LAFO_7e
28.5
Myrtle_Grove
Larose
26
LAFO_11b
PLAQ_11a
Diamond
Gainard_Woods
Sunrise
Grand_Liard
Plaq_Belle_Chase
11
25
10
10
Ollie
Jean_Lafitte
10
JEFF_7c
25
Legend
Panning Subunits Listed in Table
Other Planning Subunits
Proposed New Alignments
15
Proposed Leeve Alignment
and Height
Proposed Weir Alignment
N
Miles
2.5 1.25 0 2.5 5 7.5 10 12.5
Louisiana Coastal Protection and Restoration
Planning Unit 2
Barataria Basin
GIWW Plan
PU2 - G - 1000 - 4
Planning Subunits - Key Map
Nov, 2007

Alternative: PU2-G-1000-4

Water Surface Elevations (feet - NAVD88 2004.65)

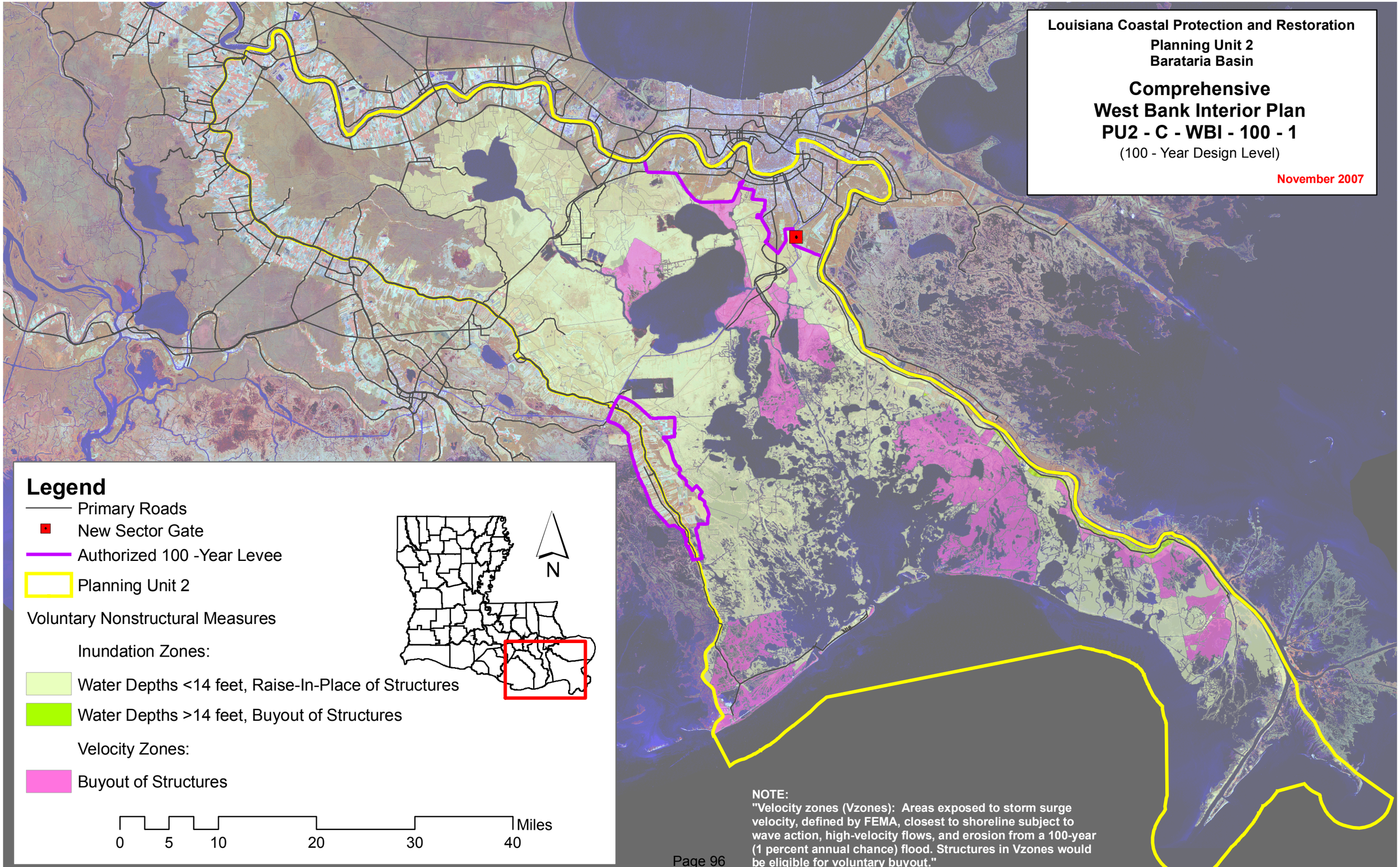
Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
Algiers	-3.8	-3.9	10.7	-3.9	12.1	-3.9	12.9	-3.9	16.3	-3.9	17.9	-3.9
Diamond	13.0	13.0	16.7	16.4	18.9	18.6	16.2	16.2	26.3	19.6	30.2	21.8
English_Turn	-1.7	-1.7	10.7	-1.7	12.1	-1.7	12.9	-1.7	16.3	-1.7	17.9	-1.7
Gainard_Woods	13.5	13.5	17.3	17.6	19.7	20.1	16.7	16.7	20.5	20.8	22.9	23.3
Grand_Liard	15.0	15.0	16.7	16.4	18.9	18.6	18.2	18.2	26.3	19.6	30.2	21.8
JEFF_7a	7.7	4.5	10.8	7.2	13.0	9.8	14.9	7.7	19.6	10.4	22.2	13.0
JEFF_7c	8.4	12.0	11.9	15.5	14.0	17.6	14.6	15.2	18.9	18.7	21.1	20.8
LAFO_11b	11.6	11.4	14.5	14.6	16.0	16.3	14.8	14.6	17.7	17.8	19.2	19.5
LAFO_3a	3.9	3.2	5.1	4.3	6.0	5.1	7.1	6.4	8.3	7.5	9.2	8.3
LAFO_5d	5.8	1.1	8.7	1.1	10.9	1.3	11.8	1.1	16.2	1.1	19.1	1.3
LAFO_7c	7.1	10.2	9.1	12.2	10.3	13.5	11.7	13.4	13.6	15.4	14.8	16.7
LAFO_7e	8.1	1.1	11.3	1.1	13.4	1.3	13.9	1.1	18.8	1.1	21.2	1.3
Larose	-2.5	-2.9	9.0	-2.8	12.0	-2.1	15.0	-2.9	15.0	-2.8	15.0	-2.1
Luling	6.1	1.5	8.6	1.6	10.2	2.1	9.3	1.5	11.8	1.6	13.4	2.1
Myrtle_Grove	10.3	9.4	13.8	11.7	15.7	12.8	13.5	12.6	17.3	14.9	18.6	16.0
Ollie	8.0	8.0	13.2	16.0	15.3	18.1	11.2	11.2	19.2	19.2	22.1	21.3
PLAQ_11a	12.5	12.5	16.7	16.4	18.9	18.6	19.5	15.7	26.3	19.6	30.2	21.8
Plaq_Belle_Chase	-2.6	-2.8	11.0	-2.7	11.3	-2.7	11.6	-2.8	14.3	-2.7	15.8	-2.7
St_Charles_dav_pond	1.6	1.5	4.8	1.5	11.0	1.6	11.0	1.5	13.2	1.5	14.5	1.6
St_Charles_Sunset	7.0	-5.1	9.4	-5.0	10.7	-4.6	10.2	-5.1	12.6	-5.0	13.9	-4.6
Sunrise	15.0	15.0	16.7	16.4	18.9	18.6	18.2	18.2	26.3	19.6	30.2	21.8
West_jeff_ames	-1.5	-1.5	11.0	-1.5	11.3	-1.3	11.6	-1.5	14.3	-1.5	15.8	-1.3
West_jeff_EoH	-3.5	-3.7	11.0	-3.7	11.3	-3.7	11.6	-3.7	14.3	-3.7	15.8	-3.7
West_jeff_harvey	-2.4	-2.5	11.0	-2.5	11.3	-2.5	11.6	-2.5	14.3	-2.5	15.8	-2.5
West_jeff_segnette	-3.9	-4.0	11.0	-4.0	11.3	-4.0	11.6	-4.0	14.3	-4.0	15.8	-4.0

Evaluation Parameters					
	Confidence Level:	90%	Levee Design:	No Friction Waves	
	Future Sea Level Rise:	High	Levee Overtopping:	No Friction Waves	

Planning Unit:	2	**Alt. No.**	PU2-C-WBI-100-1	**Category**	Comprehensive (Coastal + Structural + Nonstructural)
Alternative Description:	Comprehensive plan--Same as Alternative PU2-WBI-100-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)			**Nonstructural Component:**	See alternative description.
Structural Component:	See alternative description.				

		Metric Results by Scenario with Uncertainty Bands								
		Life-cycle Cost	Resident Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
		$ Billions	Ann. Equiv. #	Ann. Equiv ($ 1000's)	Ann. Equiv ($ 1000's)	Ann. Equiv #	Ann. Equiv ($ 1000's)	# Sites	# Properties	# Districts
Scenario 1	**Low**		21,996	458,773	475,942	1,053	73,785	160	14	6
	Mean	23.39	24,907	709,584	917,216	2,108	152,374	213	15	7
	High		26,526	960,551	1,278,981	2,987	217,538	266	17	8
Scenario 2	**Low**		22,458	534,340	694,569	1,410	107,622	160	13	6
	Mean	23.45	25,069	772,599	1,010,695	2,265	168,393	213	14	7
	High		26,634	1,015,545	1,345,169	3,072	227,839	266	15	7
Scenario 3	**Low**		15,779	327,898	394,221	897	60,987	160	14	6
	Mean	21.73	18,509	546,184	752,332	1,799	125,668	213	15	7
	High		19,897	757,905	1,071,750	2,562	181,700	266	17	8
Scenario 4	**Low**		16,137	383,194	559,347	1,158	85,646	160	13	6
	Mean	21.78	18,638	592,120	841,444	1,935	140,271	213	14	7
	High		20,014	799,796	1,137,352	2,646	191,959	266	15	7

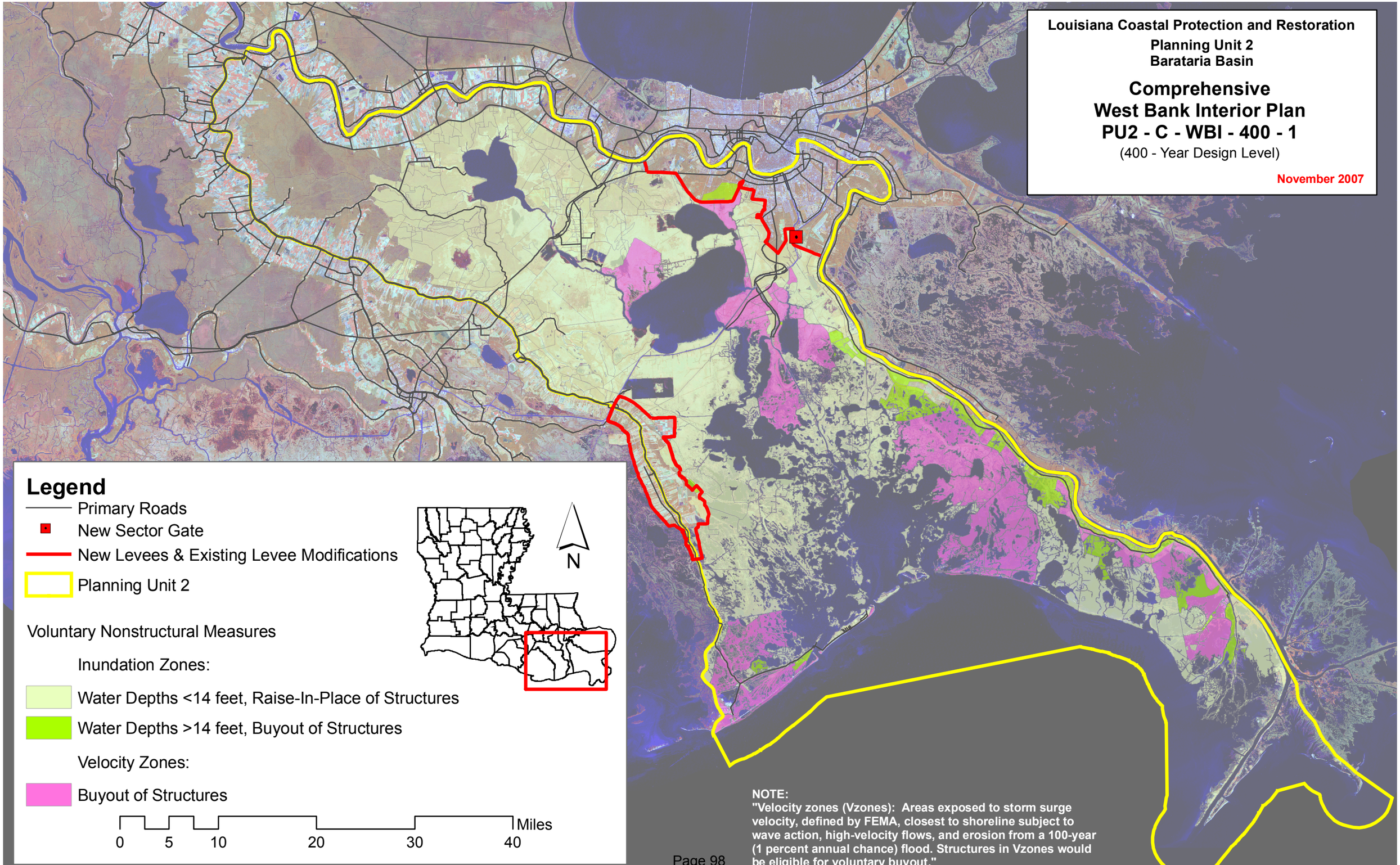
Other Metric Results							
Construction Time (years)	6	**Wetlands Created/ Protected (acres)**	**Scen 1&3**	**Scen 2&4**	**PV Cost of NS Comp ($ Billions)**	**Scen 1&2**	**Scen 3&4**
Direct Wetland Impacts (acres)	0		118,802	105,958		6.73	5.07
Indirect Impacts	2	**PV Cost of Coastal Component ($ Billions)**	15.66	15.69			
Spatial Integrity	0.539						
		PV Cost of Structural Component ($ Billions)	1.00	1.02			


Louisiana Coastal Protection and Restoration
Planning Unit 2
Barataria Basin
Comprehensive
West Bank Interior Plan
PU2 - C - WBI - 100 - 1
(100 - Year Design Level)
November 2007
Legend
Primary Roads
New Sector Gate
Authorized 100 -Year Levee
Planning Unit 2
Voluntary Nonstructural Measures
Inundation Zones:
Water Depths <14 feet, Raise-In-Place of Structures
Water Depths >14 feet, Buyout of Structures
Velocity Zones:
Buyout of Structures
N
0
5
10
20
30
40
Miles
NOTE:
"Velocity zones (Vzones): Areas exposed to storm surge velocity, defined by FEMA, closest to shoreline subject to wave action, high-velocity flows, and erosion from a 100-year (1 percent annual chance) flood. Structures in Vzones would be eligible for voluntary buyout."

Planning Unit:	2	**Alt. No.**	PU2-C-WBI-400-1	**Category**	Comprehensive (Coastal + Structural + Nonstructural)
Alternative Description:	Comprehensive plan--Same as Alternative PU2-WBI-400-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)			**Nonstructural Component:**	See alternative description.
Structural Component:	See alternative description.				

		Metric Results by Scenario with Uncertainty Bands								
		Life-cycle Cost	Resident Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
		$ Billions	Ann. Equiv. #	Ann. Equiv ($ 1000's)	Ann. Equiv ($ 1000's)	Ann. Equiv #	Ann. Equiv ($ 1000's)	# Sites	# Properties	# Districts
Scenario 1	**Low**		20,289	463,944	466,080	1,125	79,942	160	25	8
	Mean	42.61	22,857	671,992	834,228	2,159	158,006	213	26	9
	High		23,903	781,738	980,863	2,490	179,672	266	26	9
Scenario 2	**Low**		20,984	534,893	633,474	1,606	121,599	160	23	8
	Mean	42.67	23,038	702,390	875,760	2,215	163,700	213	25	9
	High		23,978	809,398	1,070,934	2,618	193,436	266	26	9
Scenario 3	**Low**		15,950	337,868	394,879	969	67,803	160	25	8
	Mean	40.03	18,321	534,257	695,726	1,810	129,715	213	26	9
	High		19,153	629,252	828,680	2,097	148,756	266	26	9
Scenario 4	**Low**		16,484	402,560	528,186	1,317	98,698	160	23	8
	Mean	40.09	18,454	558,093	733,781	1,862	135,300	213	25	9
	High		19,245	649,426	913,611	2,217	161,785	266	26	9

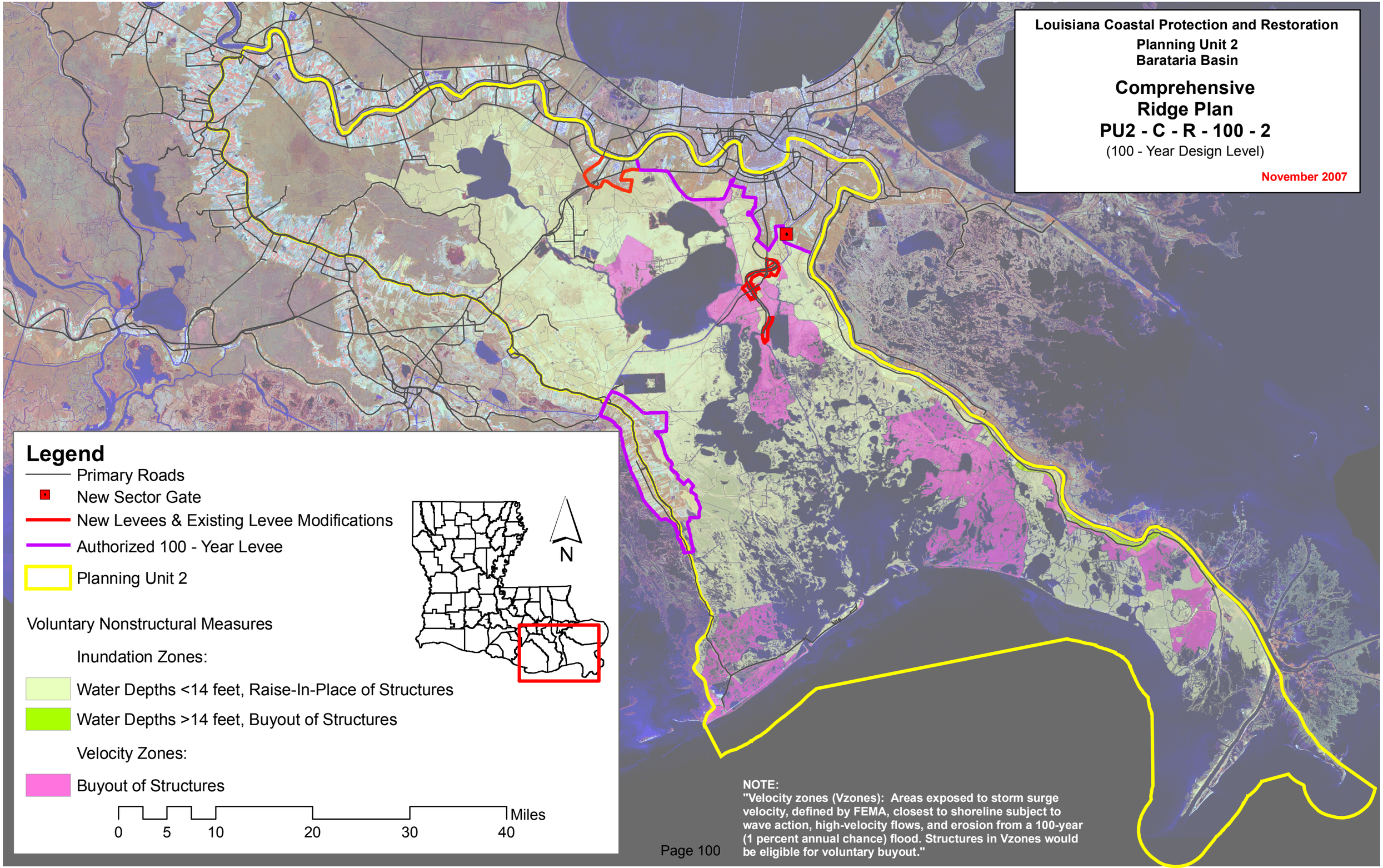
Other Metric Results							
Construction Time (years)	12	**Wetlands Created/ Protected (acres)**	**Scen 1&3**	**Scen 2&4**	**PV Cost of NS Comp ($ Billions)**	**Scen 1&2**	**Scen 3&4**
Direct Wetland Impacts (acres)	-3,688		118,802	105,958		8.66	6.08
Indirect Impacts	2	**PV Cost of Coastal Component ($ Billions)**	15.66	15.69			
Spatial Integrity	0.539						
		PV Cost of Structural Component ($ Billions)	18.29	18.32			


Louisiana Coastal Protection and Restoration
Planning Unit 2
Barataria Basin
Comprehensive
West Bank Interior Plan
PU2 - C - WBI - 400 - 1
(400 - Year Design Level)
November 2007
Legend
Primary Roads
New Sector Gate
New Levees & Existing Levee Modifications
Planning Unit 2
Voluntary Nonstructural Measures
Inundation Zones:
Water Depths <14 feet, Raise-In-Place of Structures
Water Depths >14 feet, Buyout of Structures
Velocity Zones:
Buyout of Structures
0
5
10
20
30
40
Miles
N
NOTE:
"Velocity zones (Vzones): Areas exposed to storm surge velocity, defined by FEMA, closest to shoreline subject to wave action, high-velocity flows, and erosion from a 100-year (1 percent annual chance) flood. Structures in Vzones would be eligible for voluntary buyout."

Planning Unit:	2	Alt. No.	PU2-C-R-100-2	Category	Comprehensive (Coastal + Structural + Nonstructural)
Alternative Description:	Comprehensive plan--Same as Alternative PU2-R-100-2 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)			Nonstructural Component:	See alternative description.
Structural Component:	See alternative description.				

		Metric Results by Scenario with Uncertainty Bands								
		Life-cycle Cost	Resident Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
		$ Billions	Ann. Equiv. #	Ann. Equiv ($ 1000's)	Ann. Equiv ($ 1000's)	Ann. Equiv #	Ann. Equiv ($ 1000's)	# Sites	# Properties	# Districts
Scenario 1	Low		21,491	489,496	491,959	1,185	82,463	160	14	6
	Mean	28.08	24,721	788,321	1,037,677	2,524	184,328	213	15	7
	High		26,362	1,031,624	1,345,612	3,332	239,590	266	17	8
Scenario 2	Low		22,157	581,474	762,256	1,719	131,905	160	13	6
	Mean	28.14	24,907	842,778	1,083,908	2,626	192,839	213	14	7
	High		26,457	1,072,474	1,364,216	3,358	242,286	266	15	7
Scenario 3	Low		15,422	358,981	416,627	1,030	70,206	160	14	6
	Mean	26.59	18,405	623,998	855,460	2,140	151,779	213	15	7
	High		19,750	829,838	1,123,779	2,835	198,345	266	17	8
Scenario 4	Low		15,881	429,394	619,122	1,403	105,259	160	13	6
	Mean	26.65	18,516	659,884	895,391	2,216	158,312	213	14	7
	High		19,853	856,381	1,140,677	2,858	200,786	266	15	7

Other Metric Results							
Construction Time (years)	11	Wetlands Created/ Protected (acres)	Scen 1&3	Scen 2&4	PV Cost of NS Comp ($ Billions)	Scen 1&2	Scen 3&4
Direct Wetland Impacts (acres)	-704		118,802	105,958		4.86	3.37
Indirect Impacts	4	PV Cost of Coastal Component ($ Billions)	15.66	15.69			
Spatial Integrity	0.539						
		PV Cost of Structural Component ($ Billions)	7.56	7.59			


Louisiana Coastal Protection and Restoration
Planning Unit 2
Barataria Basin
Comprehensive
Ridge Plan
PU2 - C - R - 100 - 2
(100 - Year Design Level)
November 2007
Legend
Primary Roads
New Sector Gate
New Levees & Existing Levee Modifications
Authorized 100 - Year Levee
Planning Unit 2
Voluntary Nonstructural Measures
Inundation Zones:
Water Depths <14 feet, Raise-In-Place of Structures
Water Depths >14 feet, Buyout of Structures
Velocity Zones:
Buyout of Structures
0
5
10
20
30
40
Miles
N
NOTE:
"Velocity zones (Vzones): Areas exposed to storm surge velocity, defined by FEMA, closest to shoreline subject to wave action, high-velocity flows, and erosion from a 100-year (1 percent annual chance) flood. Structures in Vzones would be eligible for voluntary buyout."