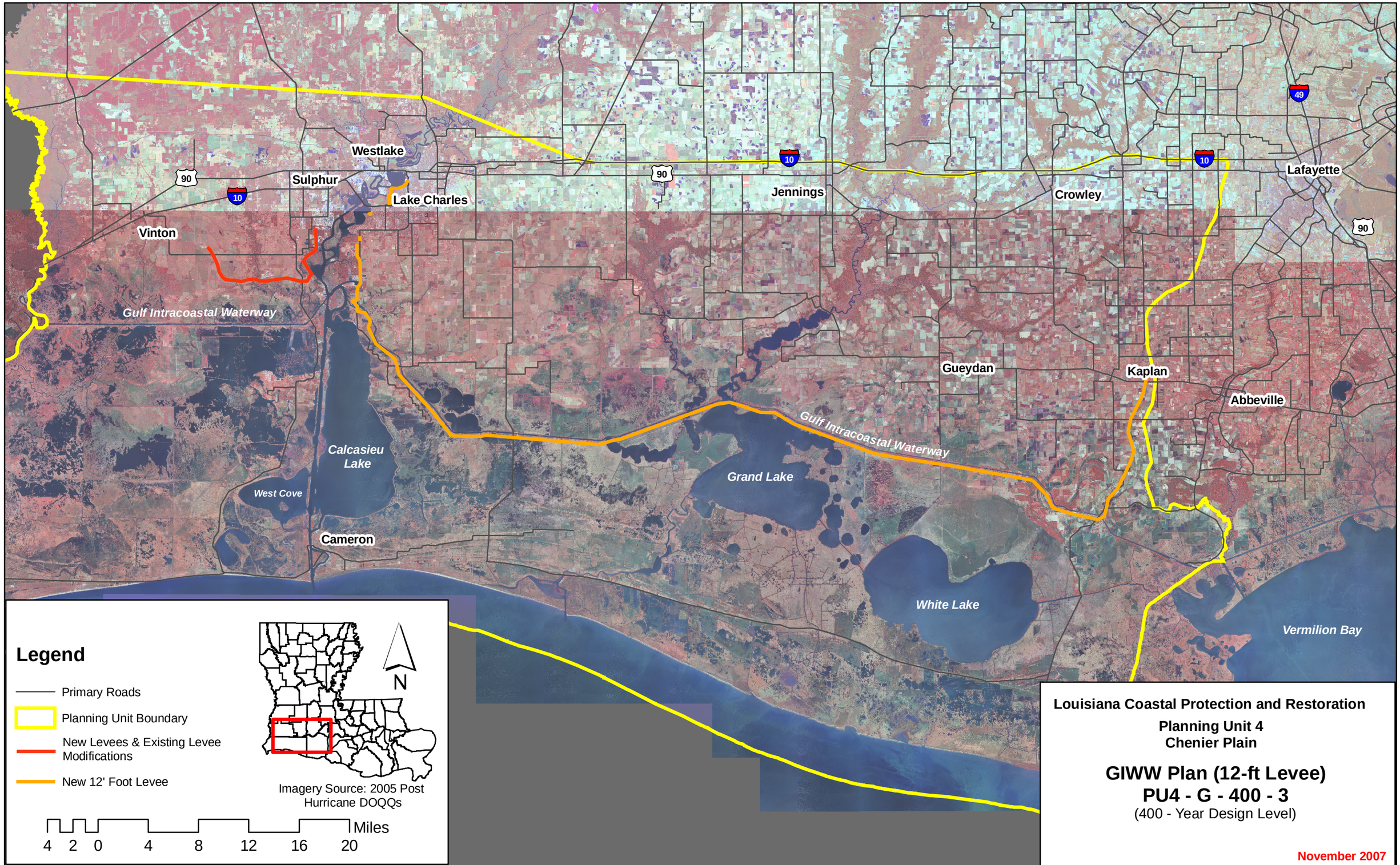
Planning Unit:	4	Alt. No.	PU4-G-400-3	Category	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Construct a continuous 12-foot levee (with gates) along the GIWW plus a ring levee to the west of the Calcasieu River and a series of levees withing Lake Charles to separate the river from the land. May include small ring levees around parts of Lake Charles, Gueydan, and Kaplan to provide 400-year level of risk reduction.				
Coastal Component:	R1			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		4,058	331,209	257,008	746	43,715	90	1	0
	Mean	22.5	4,844	474,999	356,413	1,005	57,500	115	1	0
	High		5,627	591,499	491,448	1,252	71,260	139	1	0
Scenario 2	Low		4,193	347,562	285,260	789	47,774	90	0	0
	Mean	23.1	5,126	495,789	457,033	1,119	65,635	115	1	0
	High		5,962	619,818	590,142	1,440	91,085	139	1	0
Scenario 3	Low		3,946	323,462	290,755	814	49,821	90	1	0
	Mean	22.5	5,268	462,494	382,182	1,062	62,632	115	1	0
	High		6,163	568,125	492,303	1,278	74,242	139	1	0
Scenario 4	Low		4,052	338,405	317,787	857	53,923	90	0	0
	Mean	23.1	5,418	480,535	464,494	1,159	69,291	115	1	0
	High		6,452	588,954	567,315	1,403	87,493	139	1	0

Other Metric Results							
Construction Time (years)	10	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)	-2,483		45,684	45,618		N/A	N/A
Indirect Impacts	-4	PV Cost of Coastal Component ($ Billions)	10.78	11.08			
Spatial Integrity	0.575						
		PV Cost of Structural Component ($ Billions)	11.73	12.01			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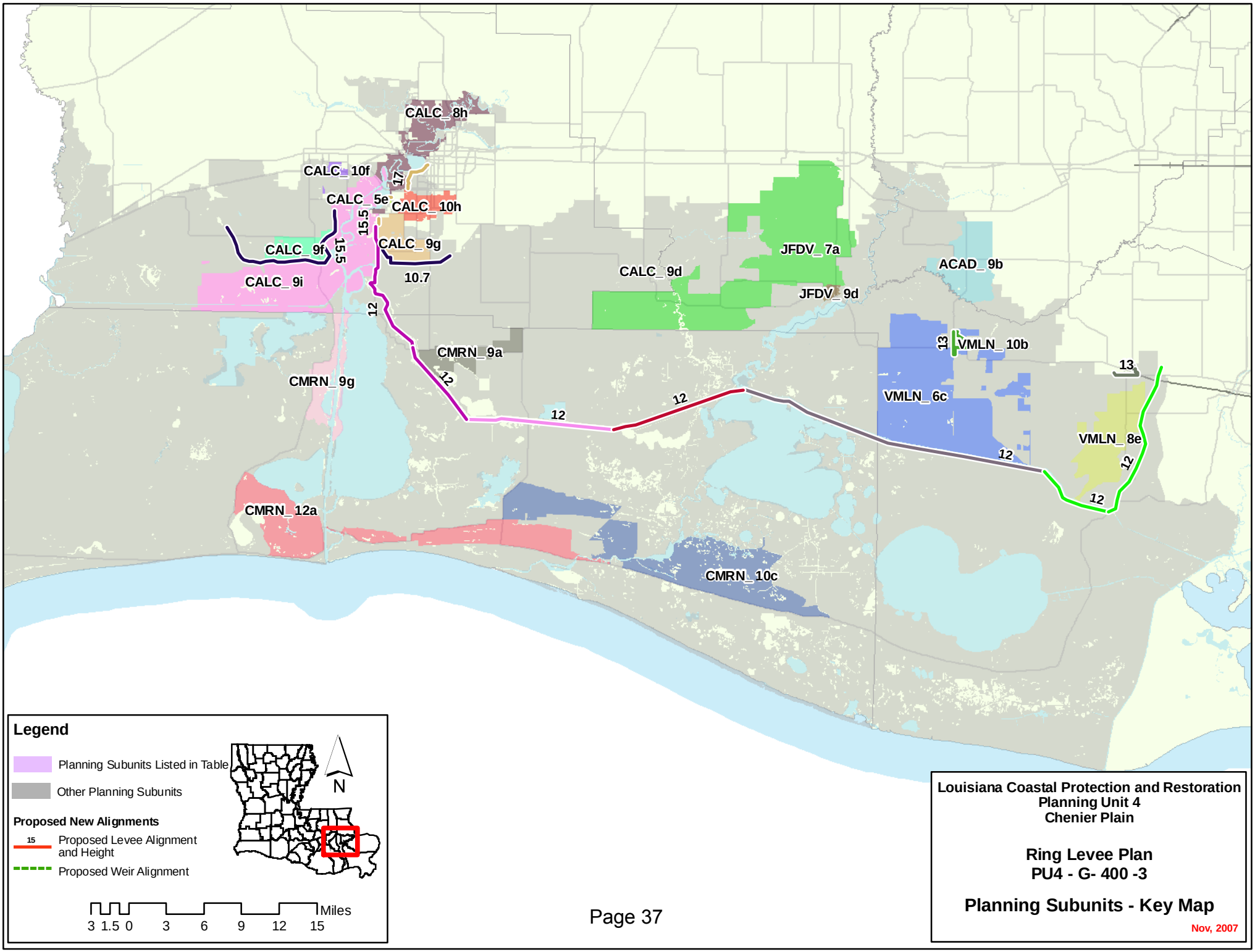
Sulphur
Lake Charles
Vinton
Jennings
Crowley
Lafayette
Gulf Intracoastal Waterway
Gueydan
Kaplan
Abbeville
Calcasieu Lake
West Cove
Grand Lake
Cameron
White Lake
Vermilion Bay
Legend
Primary Roads
Planning Unit Boundary
New Levees & Existing Levee Modifications
New 12' Foot Levee
N
Imagery Source: 2005 Post Hurricane DOQQs
4 2 0 4 8 12 16 20 Miles
Louisiana Coastal Protection and Restoration
Planning Unit 4
Chenier Plain
GIWW Plan (12-ft Levee)
PU4 - G - 400 - 3
(400 - Year Design Level)
November 2007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CALC_ 5e
CALC_ 10h
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CALC_ 9f
15.5
CALC_ 9g
CALC_ 9i
10.7
12
CALC_ 9d
JFDV_ 7a
ACAD_ 9b
JFDV_ 9d
13
VMLN_ 10b
13
CMRN_ 9a
12
CMRN_ 9g
12
12
VMLN_ 6c
VMLN_ 8e
12
12
12
CMRN_ 12a
CMRN_ 10c
Legend
Planning Subunits Listed in Table
Other Planning Subunits
Proposed New Alignments
15
Proposed Levee Alignment and Height
Proposed Weir Alignment
N
Miles
3 1.5 0 3 6 9 12 15
Louisiana Coastal Protection and Restoration
Planning Unit 4
Chenier Plain
Ring Levee Plan
PU4 - G- 400 -3
Planning Subunits - Key Map
Nov, 2007

Alternative: PU4-G-400-3

Water Surface Elevations (feet - NAVD88 2004.65)

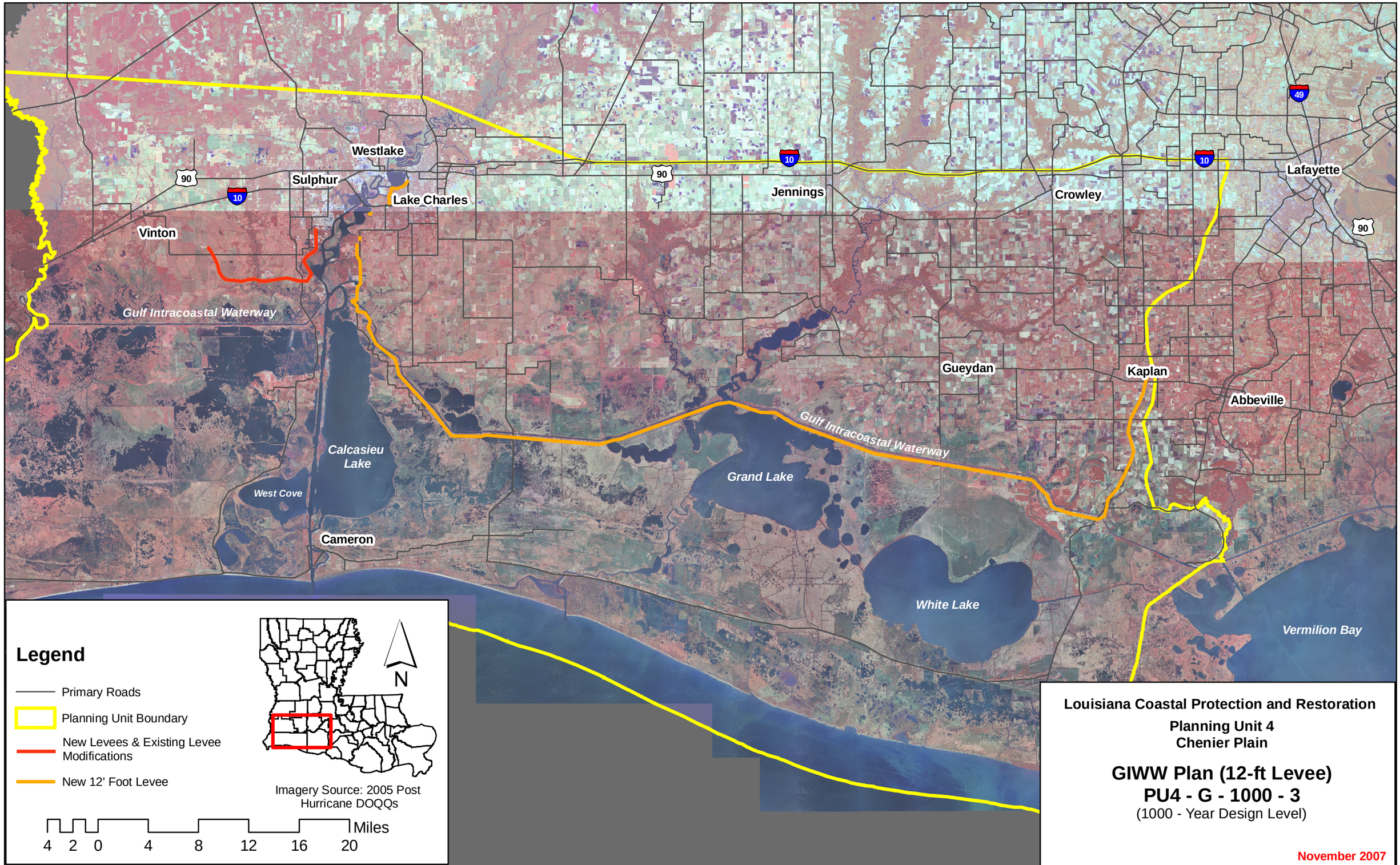
Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
ACAD_ 9b	7.8	3.7	9.4	7.6	12.2	12.0	10.4	3.7	14.4	7.6	17.4	12.0
CALC_ 10f	7.8	7.8	7.8	7.8	7.9	7.9	10.4	10.4	10.4	10.4	12.9	10.5
CALC_ 10h	7.8	10.1	7.8	10.4	8.5	14.9	10.6	10.1	12.4	10.4	13.5	14.9
CALC_ 5e	7.8	8.0	8.5	8.7	12.1	16.9	10.4	8.0	13.6	8.7	17.1	16.9
CALC_ 8h	7.8	7.8	10.7	10.7	12.8	12.8	12.3	10.4	15.8	13.3	17.8	15.4
CALC_ 9d	7.8	3.1	9.7	8.5	13.6	12.0	10.4	3.1	13.9	8.5	17.3	12.0
CALC_ 9f	8.8	7.2	13.6	7.2	16.0	15.2	13.8	7.2	18.7	7.2	21.0	15.2
CALC_ 9g	10.9	8.1	14.6	8.1	17.1	15.5	13.9	8.1	20.4	8.1	24.1	15.5
CALC_ 9i	8.4	8.4	12.8	12.8	15.3	15.3	13.4	11.0	17.9	15.4	20.4	17.9
CMRN_ 10c	11.1	11.0	14.8	14.6	16.8	16.5	13.4	13.6	17.4	17.2	19.3	19.1
CMRN_ 12a	13.0	14.4	16.9	18.3	19.0	20.4	16.7	17.0	20.5	20.9	22.5	23.0
CMRN_ 9a	9.5	3.1	14.1	8.5	16.3	12.0	14.0	3.1	18.3	8.5	20.5	12.0
CMRN_ 9g	9.6	10.8	13.1	15.0	15.2	17.2	12.2	13.4	16.1	17.6	17.8	19.8
JFDV_ 7a	7.8	3.1	7.8	8.5	7.8	12.0	10.4	3.1	10.4	8.5	10.4	12.0
JFDV_ 9d	7.8	3.7	7.8	7.6	9.0	12.0	10.4	3.7	10.9	7.6	12.4	12.0
VMLN_ 10b	7.8	5.7	11.2	6.7	13.5	15.5	10.4	5.7	14.6	6.7	17.0	15.5
VMLN_ 12d	7.8	11.3	11.1	12.1	14.3	15.5	10.4	11.3	15.0	12.1	18.6	15.5
VMLN_ 6c	7.8	3.7	10.7	7.6	12.7	12.0	11.6	3.7	15.7	7.6	18.0	12.0
VMLN_ 8e	8.6	3.7	12.1	7.6	14.2	12.0	12.2	3.7	16.0	7.6	18.5	12.0

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

Planning Unit:	4	**Alt. No.**	PU4-G-1000-3	**Category**	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Construct a 12-foot continuous levee (with gates) along the GIWW plus a ring levee to the west of the Calcasieu River and a series of levees withing Lake Charles to separate the river from the land. May include small ring levees around parts of Lake Charles, Gueydan, and Kaplan to provide 400-year level of risk reduction.				
Coastal Component:	R1			**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**		4,338	371,115	290,391	816	48,856	90	1	0
	Mean	23.0	5,380	561,907	397,127	1,109	64,337	115	1	0
	High		6,172	700,574	523,258	1,334	76,431	139	1	0
Scenario 2	**Low**		4,573	396,310	307,438	847	51,585	90	1	0
	Mean	23.6	5,771	593,025	496,644	1,232	72,603	115	1	0
	High		6,645	739,773	629,049	1,536	97,465	139	1	0
Scenario 3	**Low**		4,493	356,783	321,989	877	54,615	90	1	0
	Mean	23.0	6,355	538,447	417,478	1,153	68,621	115	1	0
	High		7,356	662,531	517,569	1,343	78,404	139	1	0
Scenario 4	**Low**		4,691	379,965	336,743	908	57,276	90	1	0
	Mean	23.6	6,578	564,285	496,784	1,254	75,132	115	1	0
	High		7,716	692,717	598,763	1,480	92,738	139	1	0

Other Metric Results							
Construction Time (years)	10	**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)	-2,485		45,684	45,618			
Indirect Impacts	-4	**PV Cost of Coastal Component ($ Billions)**				**N/A**	**N/A**
Spatial Integrity	0.575		10.78	11.08			
		PV Cost of Structural Component ($ Billions)	12.21	12.49			


Westlake
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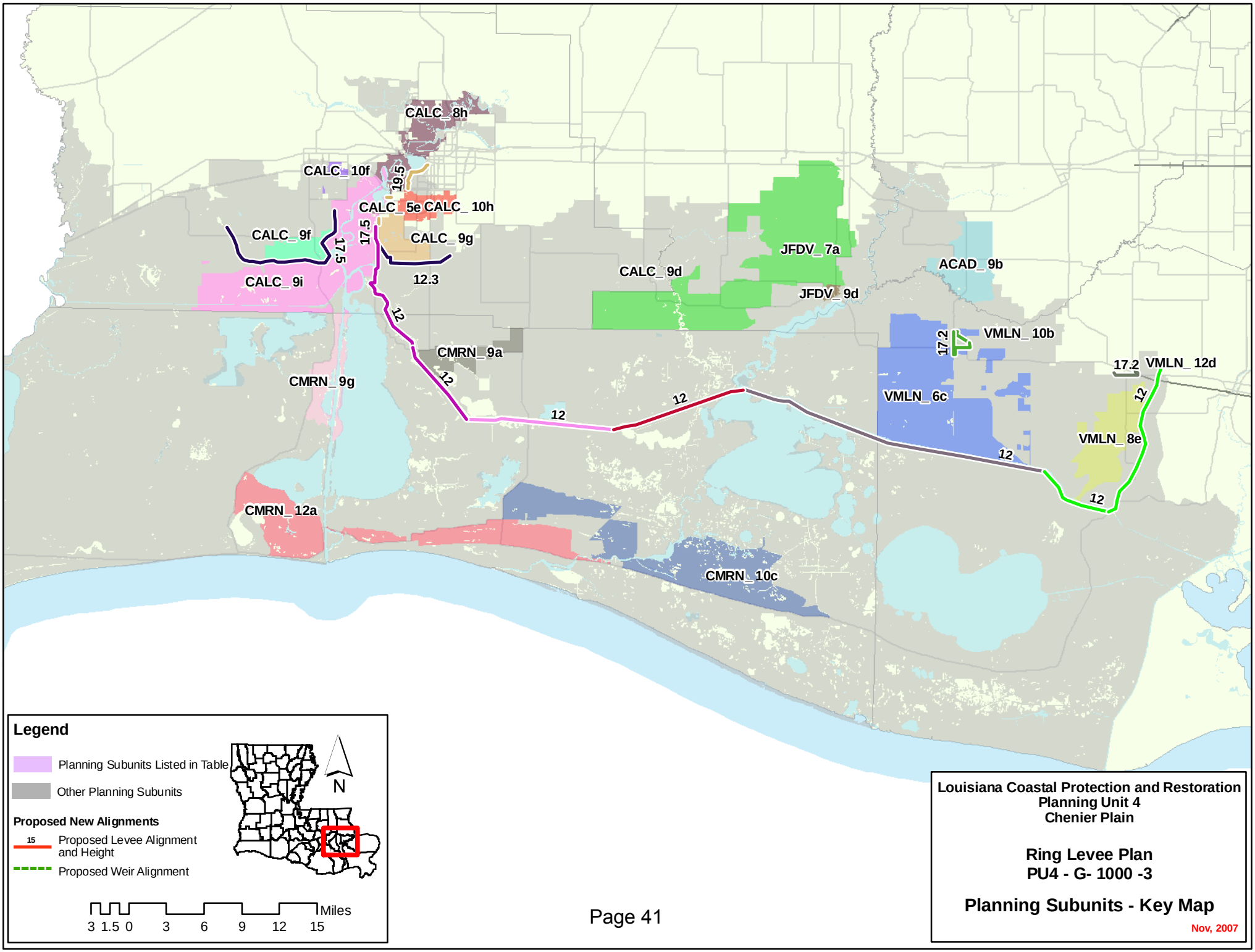
New Levees & Existing Levee Modifications
New 12' Foot Levee
N
Imagery Source: 2005 Post Hurricane DOQQs
4 2 0 4 8 12 16 20 Miles
Louisiana Coastal Protection and Restoration
Planning Unit 4
Chenier Plain
GIWW Plan (12-ft Levee)
PU4 - G - 1000 - 3
(1000 - Year Design Level)
November 2007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CMRN_ 9a
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CMRN_ 9g
12
12
JFDV_ 7a
CALC_ 9d
JFDV_ 9d
ACAD_ 9b
VMLN_ 10b
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VMLN_ 12d
VMLN_ 6c
12
12
VMLN_ 8e
12
CMRN_ 12a
CMRN_ 10c
Legend
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Proposed Weir Alignment
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Miles
3 1.5 0 3 6 9 12 15
Louisiana Coastal Protection and Restoration
Planning Unit 4
Chenier Plain
Ring Levee Plan
PU4 - G- 1000 -3
Planning Subunits - Key Map
Nov, 2007

Alternative: PU4-G-1000-3
Water Surface Elevations (feet - NAVD88 2004.65)

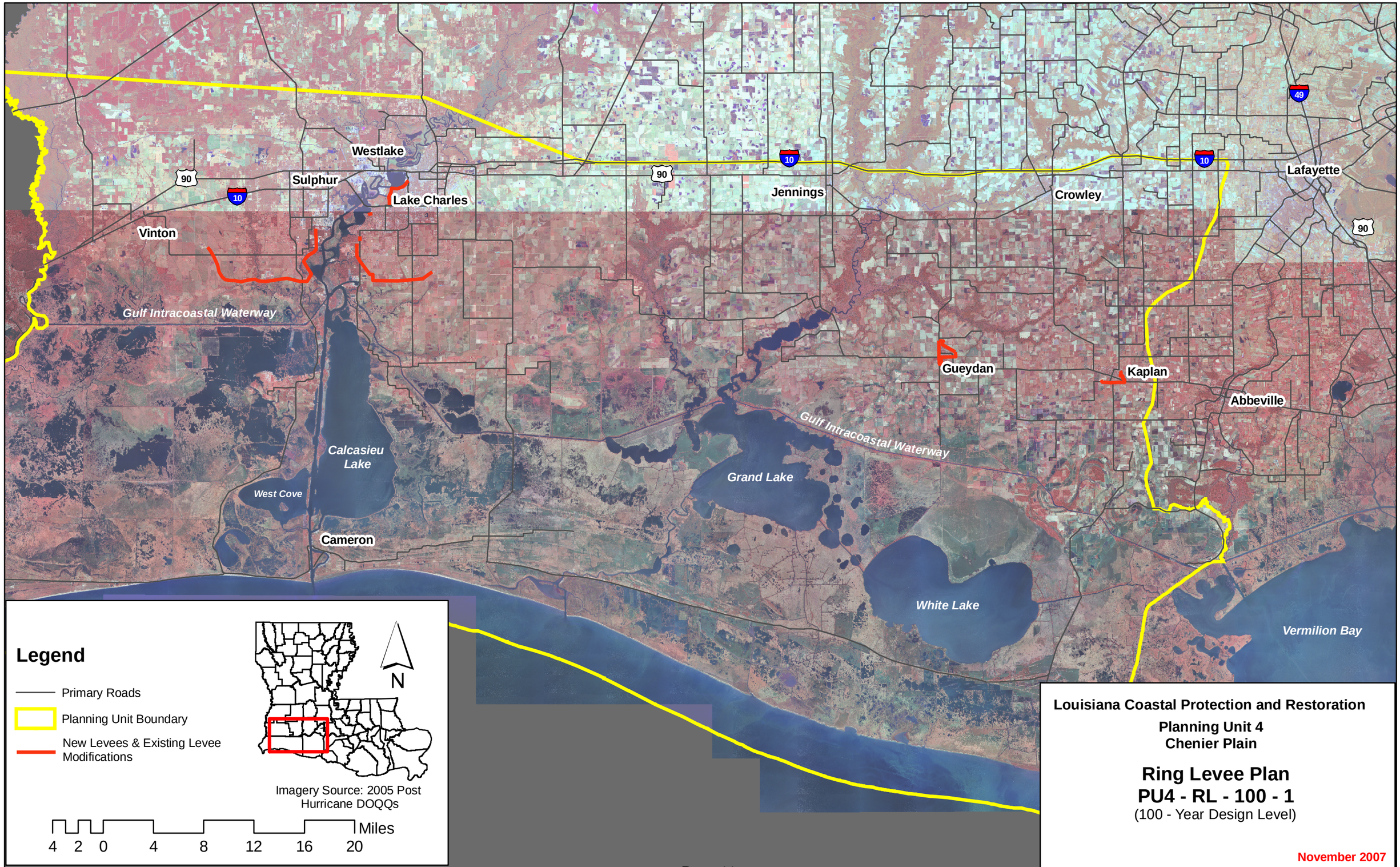
Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
ACAD_ 9b	7.8	3.7	9.4	7.6	12.2	12.0	10.4	3.7	14.4	7.6	17.4	12.0
CALC_ 10f	7.8	7.8	7.8	7.8	7.9	7.9	10.4	10.4	10.4	10.4	12.9	10.5
CALC_ 10h	7.8	10.1	7.8	10.1	8.5	10.3	10.6	10.1	12.4	10.1	13.5	10.3
CALC_ 5e	7.8	8.0	8.5	8.0	12.1	8.4	10.4	8.0	13.6	8.0	17.1	8.4
CALC_ 8h	7.8	7.8	10.7	10.7	12.8	12.8	12.3	10.4	15.8	13.3	17.8	15.4
CALC_ 9d	7.8	3.1	9.7	8.5	13.6	12.0	10.4	3.1	13.9	8.5	17.3	12.0
CALC_ 9f	8.8	7.2	13.6	7.2	16.0	7.2	13.8	7.2	18.7	7.2	21.0	7.2
CALC_ 9g	10.9	8.1	14.6	8.1	17.1	8.1	13.9	8.1	20.4	8.1	24.1	8.1
CALC_ 9i	8.4	8.4	12.8	12.8	15.3	15.3	13.4	11.0	17.9	15.4	20.4	17.9
CMRN_ 10c	11.1	11.0	14.8	14.6	16.8	16.5	13.4	13.6	17.4	17.2	19.3	19.1
CMRN_ 12a	13.0	14.4	16.9	18.3	19.0	20.4	16.7	17.0	20.5	20.9	22.5	23.0
CMRN_ 9a	9.5	3.1	14.1	8.5	16.3	12.0	14.0	3.1	18.3	8.5	20.5	12.0
CMRN_ 9g	9.6	10.8	13.1	15.0	15.2	17.2	12.2	13.4	16.1	17.6	17.8	19.8
JFDV_ 7a	7.8	3.1	7.8	8.5	7.8	12.0	10.4	3.1	10.4	8.5	10.4	12.0
JFDV_ 9d	7.8	3.7	7.8	7.6	9.0	12.0	10.4	3.7	10.9	7.6	12.4	12.0
VMLN_ 10b	7.8	5.7	11.2	5.7	13.5	7.3	10.4	5.7	14.6	5.7	17.0	7.3
VMLN_ 12d	7.8	11.3	11.1	11.3	14.3	12.5	10.4	11.3	15.0	11.3	18.6	12.5
VMLN_ 6c	7.8	3.7	10.7	7.6	12.7	12.0	11.6	3.7	15.7	7.6	18.0	12.0
VMLN_ 8e	8.6	3.7	12.1	7.6	14.2	12.0	12.2	3.7	16.0	7.6	18.5	12.0

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

Planning Unit:	4	**Alt. No.**	PU4-RL-100-1	**Category**	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Construct ring levees to the east and west of Lake Charles; construct a series of levees within Lake Charles to separate the river from the land; and construct ring levees around Kaplan and Gueydan to the 100-year design level.				
Coastal Component:	R1			**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**		4,296	331,208	257,008	746	43,715	60	0	0
	Mean	13.5	5,252	474,873	356,363	1,004	57,484	85	1	0
	High		6,052	586,165	487,479	1,231	70,271	109	1	0
Scenario 2	**Low**		4,432	347,561	285,260	789	47,774	60	0	0
	Mean	13.8	5,533	495,663	456,983	1,118	65,619	85	0	0
	High		6,387	614,484	586,173	1,418	90,096	109	1	0
Scenario 3	**Low**		3,946	323,461	290,755	814	49,821	60	0	0
	Mean	13.5	5,265	462,342	382,125	1,062	62,613	85	1	0
	High		6,106	563,515	488,318	1,256	73,210	109	1	0
Scenario 4	**Low**		4,052	338,404	317,787	857	53,923	60	0	0
	Mean	13.8	5,416	480,383	464,437	1,158	69,272	85	0	0
	High		6,395	584,343	563,330	1,381	86,461	109	1	0

Other Metric Results							
Construction Time (years)	10	**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)	-88		45,684	45,618		**N/A**	**N/A**
Indirect Impacts	-2	**PV Cost of Coastal Component ($ Billions)**	10.78	11.08			
Spatial Integrity	0.575						
		PV Cost of Structural Component ($ Billions)	2.70	2.72			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Calcasieu Lake
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Vermilion Bay
90
10
49
Legend
Primary Roads
Planning Unit Boundary
New Levees & Existing Levee Modifications
N
Imagery Source: 2005 Post Hurricane DOQQs
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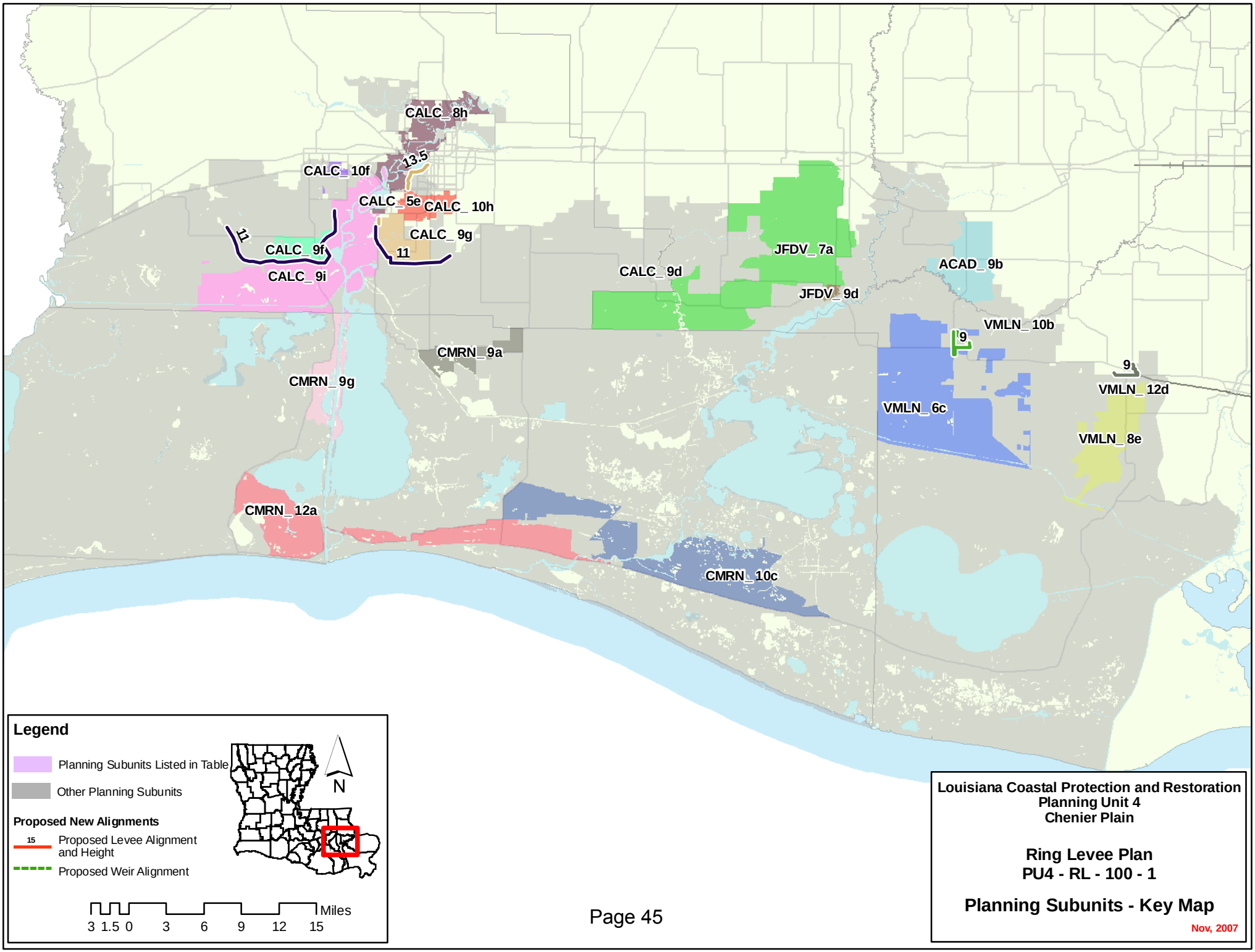
Louisiana Coastal Protection and Restoration
Planning Unit 4
Chenier Plain
Ring Levee Plan
PU4 - RL - 100 - 1
(100 - Year Design Level)
November 2007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ACAD_ 9b
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CMRN_ 9a
CMRN_ 9g
VMLN_ 6c
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3 1.5 0 3 6 9 12 15
Louisiana Coastal Protection and Restoration
Planning Unit 4
Chenier Plain
Ring Levee Plan
PU4 - RL - 100 - 1
Planning Subunits - Key Map
Nov, 2007

Alternative: PU4-RL-100-1
Water Surface Elevations (feet - NAVD88 2004.65)

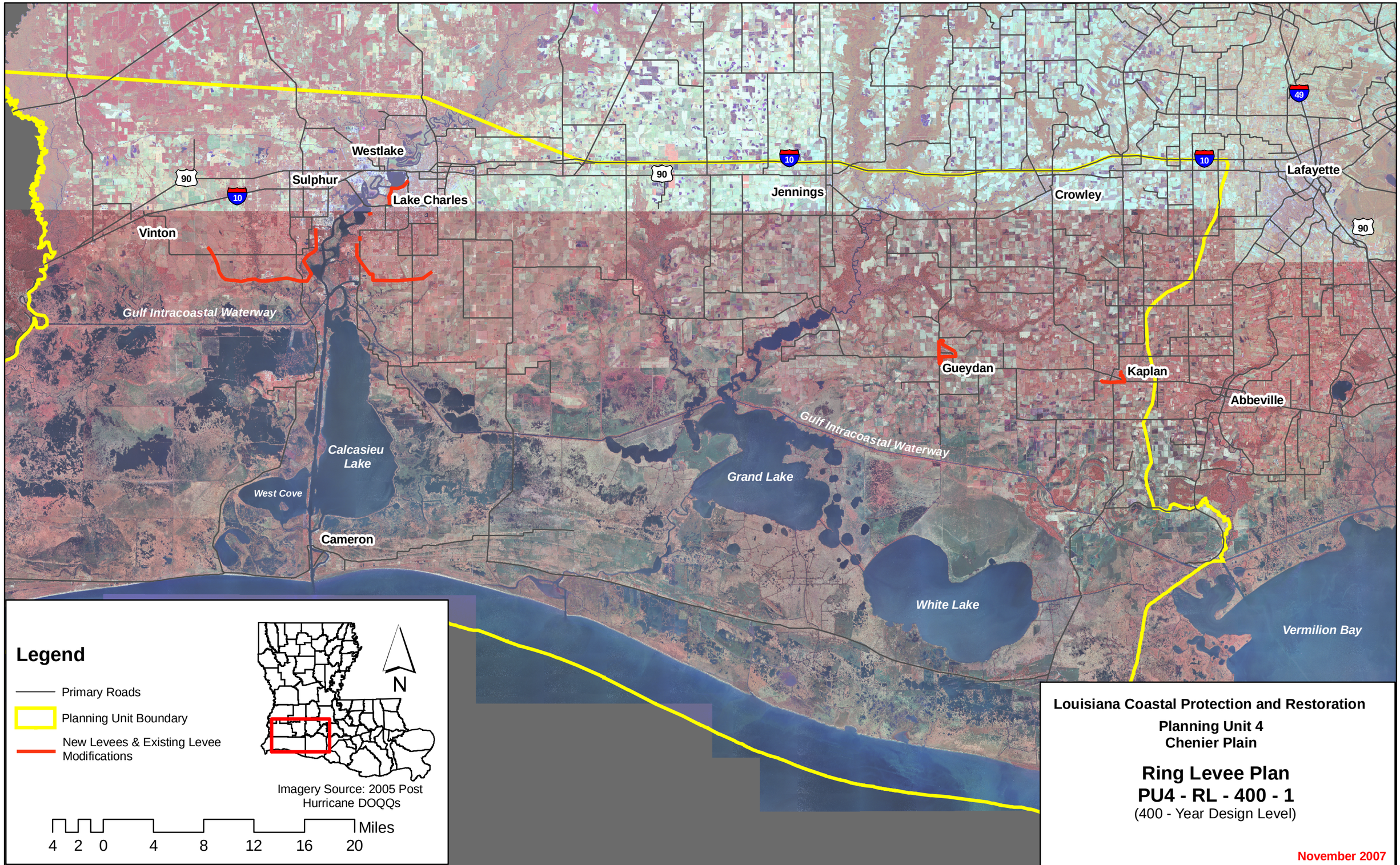
Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
ACAD_ 9b	7.8	7.8	9.4	9.4	12.2	12.2	10.4	10.4	14.4	12.0	17.4	14.8
CALC_ 10f	7.8	7.8	7.8	7.8	7.9	7.9	10.4	10.4	10.4	10.4	12.9	10.5
CALC_ 10h	7.8	10.2	7.8	13.5	8.5	13.5	10.6	10.2	12.4	13.5	13.5	13.5
CALC_ 5e	7.8	8.3	8.5	13.5	12.1	13.5	10.4	8.3	13.6	13.5	17.1	13.5
CALC_ 8h	7.8	7.8	10.7	10.7	12.8	12.8	12.3	10.4	15.8	13.3	17.8	15.4
CALC_ 9d	7.8	7.8	9.7	9.7	13.6	13.6	10.4	10.4	13.9	12.3	17.3	16.2
CALC_ 9f	8.8	7.2	13.6	11.0	16.0	11.0	13.8	7.2	18.7	11.0	21.0	11.0
CALC_ 9g	10.9	8.1	14.6	11.0	17.1	11.0	13.9	8.1	20.4	11.0	24.1	11.0
CALC_ 9i	8.4	8.4	12.8	12.8	15.3	15.3	13.4	11.0	17.9	15.4	20.4	17.9
CMRN_ 10c	11.1	11.1	14.8	14.8	16.8	16.8	13.4	13.7	17.4	17.4	19.3	19.4
CMRN_ 12a	13.0	13.0	16.9	16.9	19.0	19.0	16.7	15.6	20.5	19.5	22.5	21.6
CMRN_ 9a	9.5	9.5	14.1	14.1	16.3	16.3	14.0	12.1	18.3	16.7	20.5	18.9
CMRN_ 9g	9.6	9.6	13.1	13.1	15.2	15.2	12.2	12.2	16.1	15.7	17.8	17.8
JFDV_ 7a	7.8	7.8	7.8	7.8	7.8	7.8	10.4	10.4	10.4	10.4	10.4	10.4
JFDV_ 9d	7.8	7.8	7.8	7.8	9.0	9.0	10.4	10.4	10.9	10.4	12.4	11.6
VMLN_ 10b	7.8	6.2	11.2	9.0	13.5	9.0	10.4	6.2	14.6	9.0	17.0	9.0
VMLN_ 12d	7.8	7.8	11.1	11.1	14.3	14.3	10.4	10.4	15.0	13.7	18.6	16.9
VMLN_ 6c	7.8	7.8	10.7	10.7	12.7	12.7	11.6	10.4	15.7	13.3	18.0	15.3
VMLN_ 8e	8.6	8.6	12.1	12.1	14.2	14.2	12.2	11.2	16.0	14.7	18.5	16.8

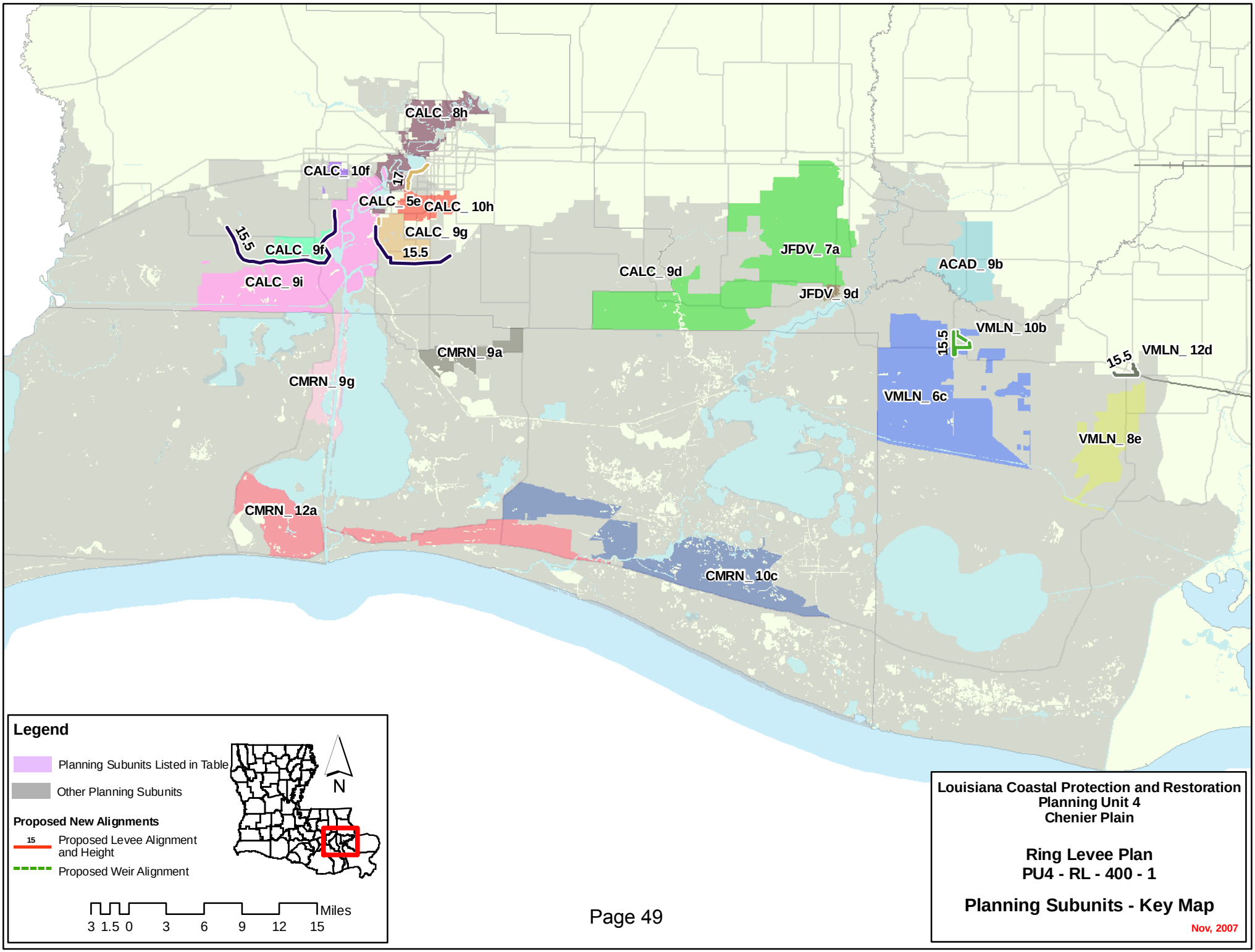
Evaluation Parameters					
	Confidence Level:	90%	Levee Design:	No Friction Waves	
	Future Sea Level Rise:	High	Levee Overtopping:	No Friction Waves	

Planning Unit:	4	**Alt. No.**	PU4-RL-400-1	**Category**	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Construct ring levees to the east and west of Lake Charles; construct a series of levees within Lake Charles to separate the river from the land; and construct ring levees around Kaplan and Gueydan to the 400-year design level.				
Coastal Component:	R1			**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**		4,489	371,171	292,154	816	48,813	60	1	0
	Mean	14.3	5,679	568,228	402,031	1,128	65,403	85	1	0
	High		6,562	712,449	525,759	1,362	77,747	109	1	0
Scenario 2	**Low**		4,726	396,179	308,763	849	51,644	60	0	0
	Mean	14.6	6,074	599,244	497,516	1,247	73,432	85	1	0
	High		7,045	751,610	628,626	1,562	98,404	109	1	0
Scenario 3	**Low**		4,400	356,937	322,352	876	54,410	60	1	0
	Mean	14.3	6,370	543,817	421,175	1,170	69,519	85	1	0
	High		7,497	673,219	519,595	1,370	79,580	109	1	0
Scenario 4	**Low**		4,599	379,902	336,911	909	57,175	60	0	0
	Mean	14.6	6,596	569,615	497,294	1,269	75,845	85	1	0
	High		7,865	703,422	598,484	1,506	93,684	109	1	0

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)	-95		45,684	45,618		**N/A**	**N/A**
Indirect Impacts	-2	**PV Cost of Coastal Component ($ Billions)**	10.78	11.08			
Spatial Integrity	0.575						
		PV Cost of Structural Component ($ Billions)	3.47	3.49			


Westlake
Sulphur
Lake Charles
Vinton
Jennings
Crowley
Lafayette
Gulf Intracoastal Waterway
Gueydan
Kaplan
Abbeville
Calcasieu Lake
West Cove
Cameron
Grand Lake
White Lake
Vermilion Bay
90
10
49
Legend
Primary Roads
Planning Unit Boundary
New Levees & Existing Levee Modifications
N
Imagery Source: 2005 Post Hurricane DOQQs
4 2 0 4 8 12 16 20 Miles
Louisiana Coastal Protection and Restoration
Planning Unit 4
Chenier Plain
Ring Levee Plan
PU4 - RL - 400 - 1
(400 - Year Design Level)
November 2007


CALC_ 8h
CALC_ 10f
17
CALC_ 5e
CALC_ 10h
CALC_ 9g
15.5
15.5
CALC_ 9f
CALC_ 9i
CALC_ 9d
JFDV_ 7a
JFDV_ 9d
ACAD_ 9b
VMLN_ 10b
15.5
17
VMLN_ 12d
15.5
CMRN_ 9a
CMRN_ 9g
VMLN_ 6c
VMLN_ 8e
CMRN_ 12a
CMRN_ 10c
Legend
Planning Subunits Listed in Table
Other Planning Subunits
Proposed New Alignments
15
Proposed Levee Alignment and Height
Proposed Weir Alignment
N
Miles
3 1.5 0 3 6 9 12 15
Louisiana Coastal Protection and Restoration
Planning Unit 4
Chenier Plain
Ring Levee Plan
PU4 - RL - 400 - 1
Planning Subunits - Key Map
Nov, 2007

Alternative: PU4-RL-400-1

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
ACAD_ 9b	7.8	7.8	9.4	9.4	12.2	12.2	10.4	10.4	14.4	12.0	17.4	14.8
CALC_ 10f	7.8	7.8	7.8	7.8	7.9	7.9	10.4	10.4	10.4	10.4	12.9	10.5
CALC_ 10h	7.8	10.1	7.8	10.4	8.5	14.9	10.6	10.1	12.4	10.4	13.5	14.9
CALC_ 5e	7.8	8.0	8.5	8.7	12.1	16.9	10.4	8.0	13.6	8.7	17.1	16.9
CALC_ 8h	7.8	7.8	10.7	10.7	12.8	12.8	12.3	10.4	15.8	13.3	17.8	15.4
CALC_ 9d	7.8	7.8	9.7	9.7	13.6	13.6	10.4	10.4	13.9	12.3	17.3	16.2
CALC_ 9f	8.8	7.2	13.6	7.2	16.0	15.2	13.8	7.2	18.7	7.2	21.0	15.2
CALC_ 9g	10.9	8.1	14.6	8.1	17.1	15.5	13.9	8.1	20.4	8.1	24.1	15.5
CALC_ 9i	8.4	8.4	12.8	12.8	15.3	15.3	13.4	11.0	17.9	15.4	20.4	17.9
CMRN_ 10c	11.1	11.1	14.8	14.8	16.8	16.8	13.4	13.7	17.4	17.4	19.3	19.4
CMRN_ 12a	13.0	13.0	16.9	16.9	19.0	19.0	16.7	15.6	20.5	19.5	22.5	21.6
CMRN_ 9a	9.5	9.5	14.1	14.1	16.3	16.3	14.0	12.1	18.3	16.7	20.5	18.9
CMRN_ 9g	9.6	9.6	13.1	13.1	15.2	15.2	12.2	12.2	16.1	15.7	17.8	17.8
JFDV_ 7a	7.8	7.8	7.8	7.8	7.8	7.8	10.4	10.4	10.4	10.4	10.4	10.4
JFDV_ 9d	7.8	7.8	7.8	7.8	9.0	9.0	10.4	10.4	10.9	10.4	12.4	11.6
VMLN_ 10b	7.8	5.7	11.2	6.7	13.5	15.5	10.4	5.7	14.6	6.7	17.0	15.5
VMLN_ 12d	7.8	11.3	11.1	12.1	14.3	15.5	10.4	11.3	15.0	12.1	18.6	15.5
VMLN_ 6c	7.8	7.8	10.7	10.7	12.7	12.7	11.6	10.4	15.7	13.3	18.0	15.3
VMLN_ 8e	8.6	8.6	12.1	12.1	14.2	14.2	12.2	11.2	16.0	14.7	18.5	16.8

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

Planning Unit:	4	**Alt. No.**	PU4-RL-1000-1	**Category**	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Construct ring levees to the east and west of Lake Charles; construct a series of levees within Lake Charles to separate the river from the land; and construct ring levees around Kaplan and Gueydan to the 1000-year design level.				
Coastal Component:	R1			**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**		4,415	369,492	293,497	812	48,629	60	1	0
	Mean	14.5	5,581	563,364	403,267	1,117	64,961	85	1	0
	High		6,422	710,661	526,168	1,360	77,731	109	1	0
Scenario 2	**Low**		4,657	394,498	309,792	848	51,586	60	1	0
	Mean	14.9	5,982	594,500	495,396	1,233	72,812	85	1	0
	High		6,919	750,052	626,868	1,558	98,167	109	1	0
Scenario 3	**Low**		4,344	355,149	322,413	871	54,049	60	1	0
	Mean	14.5	6,284	539,470	421,244	1,157	68,887	85	1	0
	High		7,373	671,180	519,494	1,366	79,434	109	1	0
Scenario 4	**Low**		4,546	378,068	336,889	905	56,941	60	1	0
	Mean	14.9	6,513	565,409	494,716	1,253	75,074	85	1	0
	High		7,752	701,597	596,656	1,502	93,415	109	1	0

Other Metric Results							
Construction Time (years)	14	**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)	-99		45,684	45,618			
Indirect Impacts	-2	**PV Cost of Coastal Component ($ Billions)**	10.78	11.08		**N/A**	**N/A**
Spatial Integrity	0.575						
		PV Cost of Structural Component ($ Billions)	3.76	3.80			