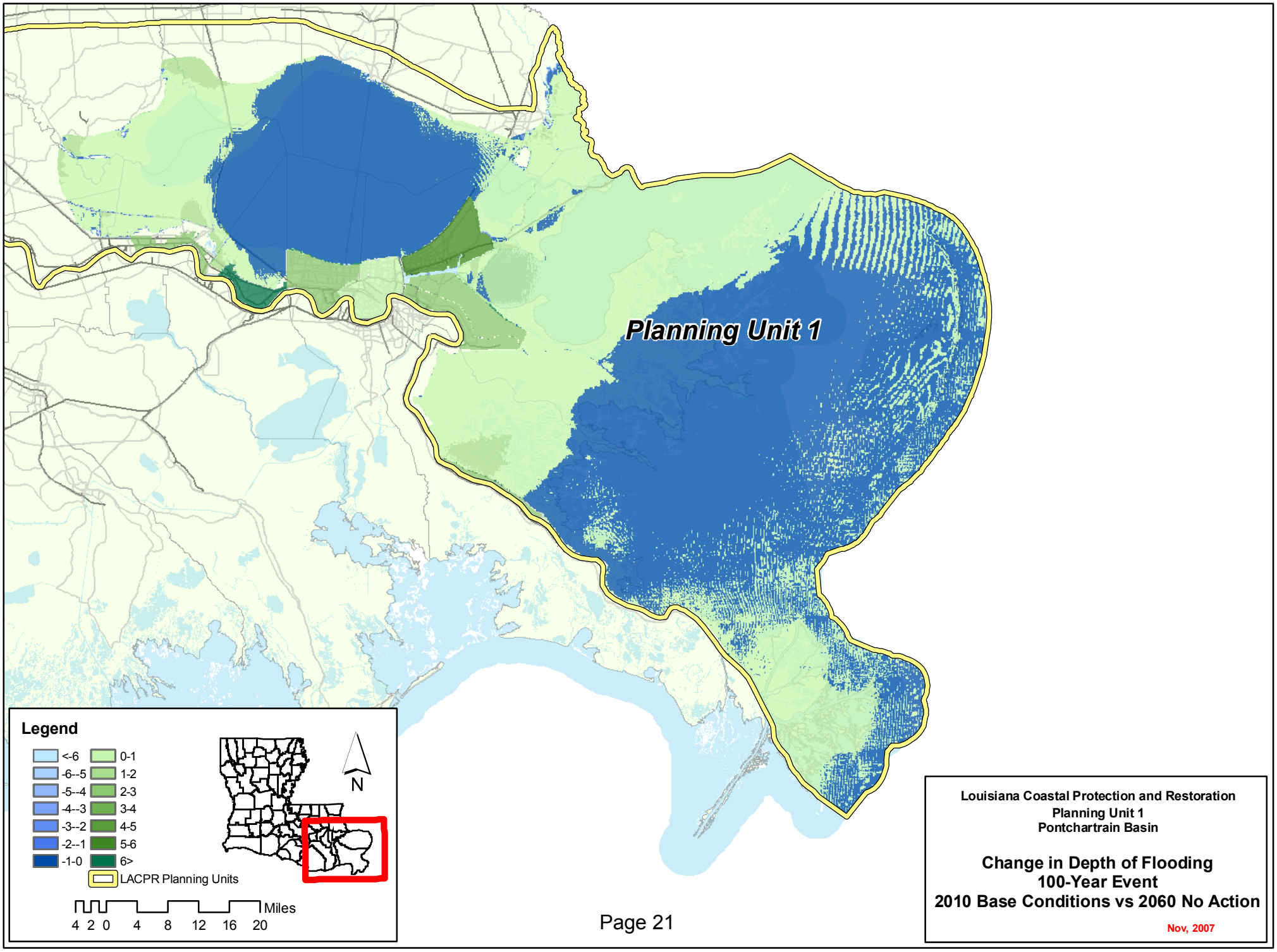
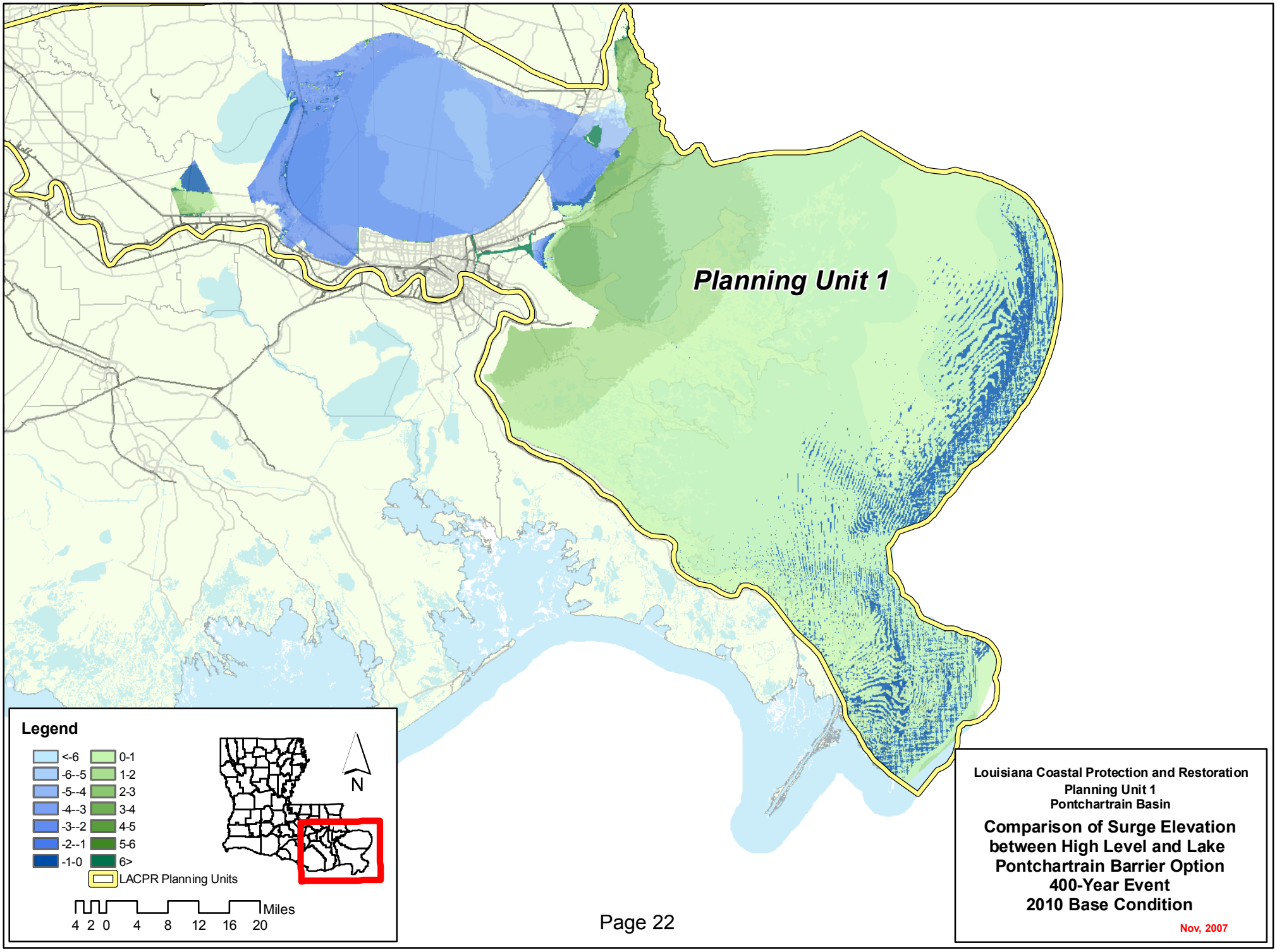
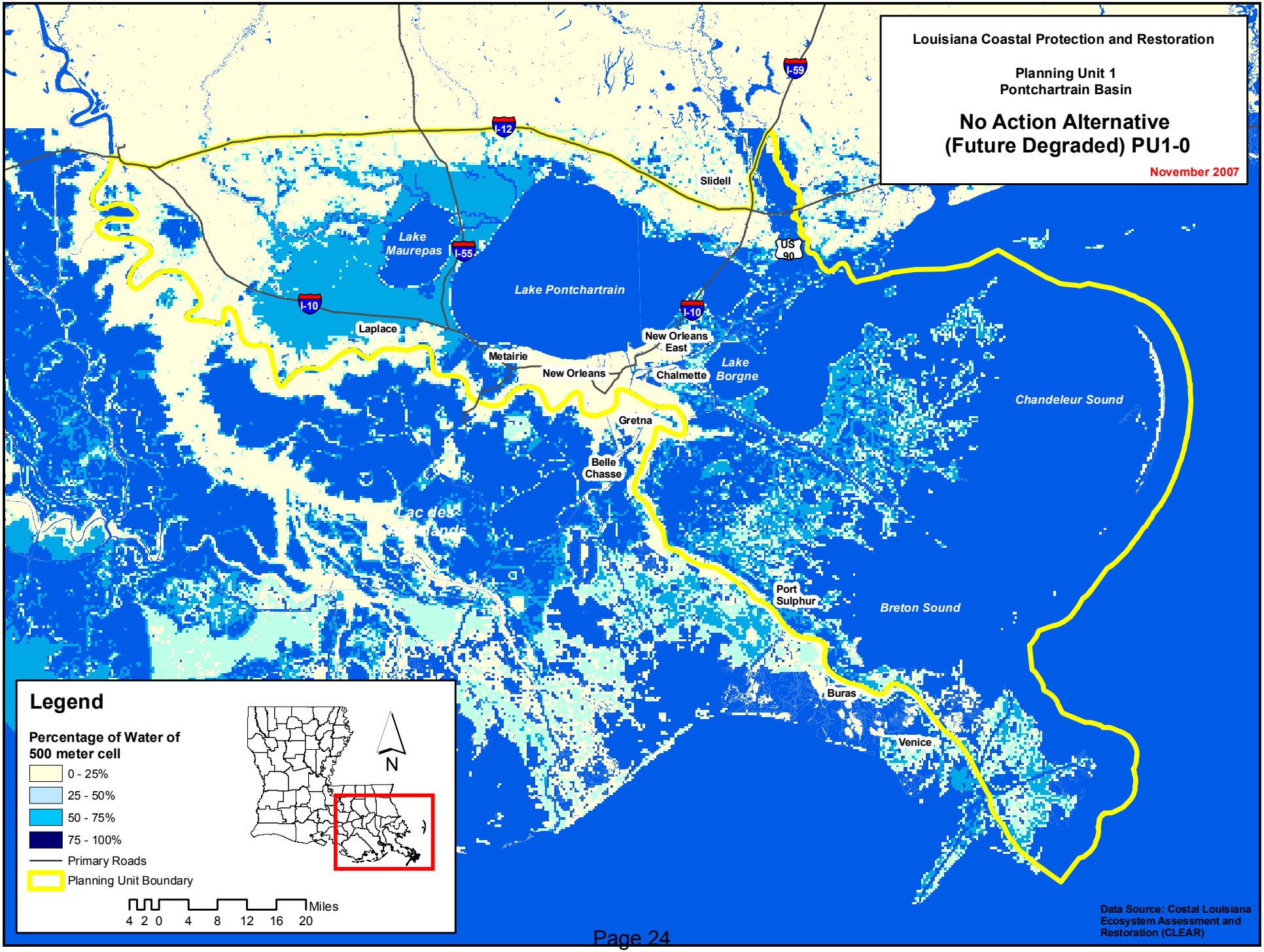

Planning Unit 1
Legend
<-6
-6--5
-5--4
-4--3
-3--2
-2--1
-1-0
0-1
1-2
2-3
3-4
4-5
5-6
6>
LACPR Planning Units
N
Miles
4 2 0 4 8 12 16 20
Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin
Change in Depth of Flooding
100-Year Event
2010 Base Conditions vs 2060 No Action
Nov, 2007

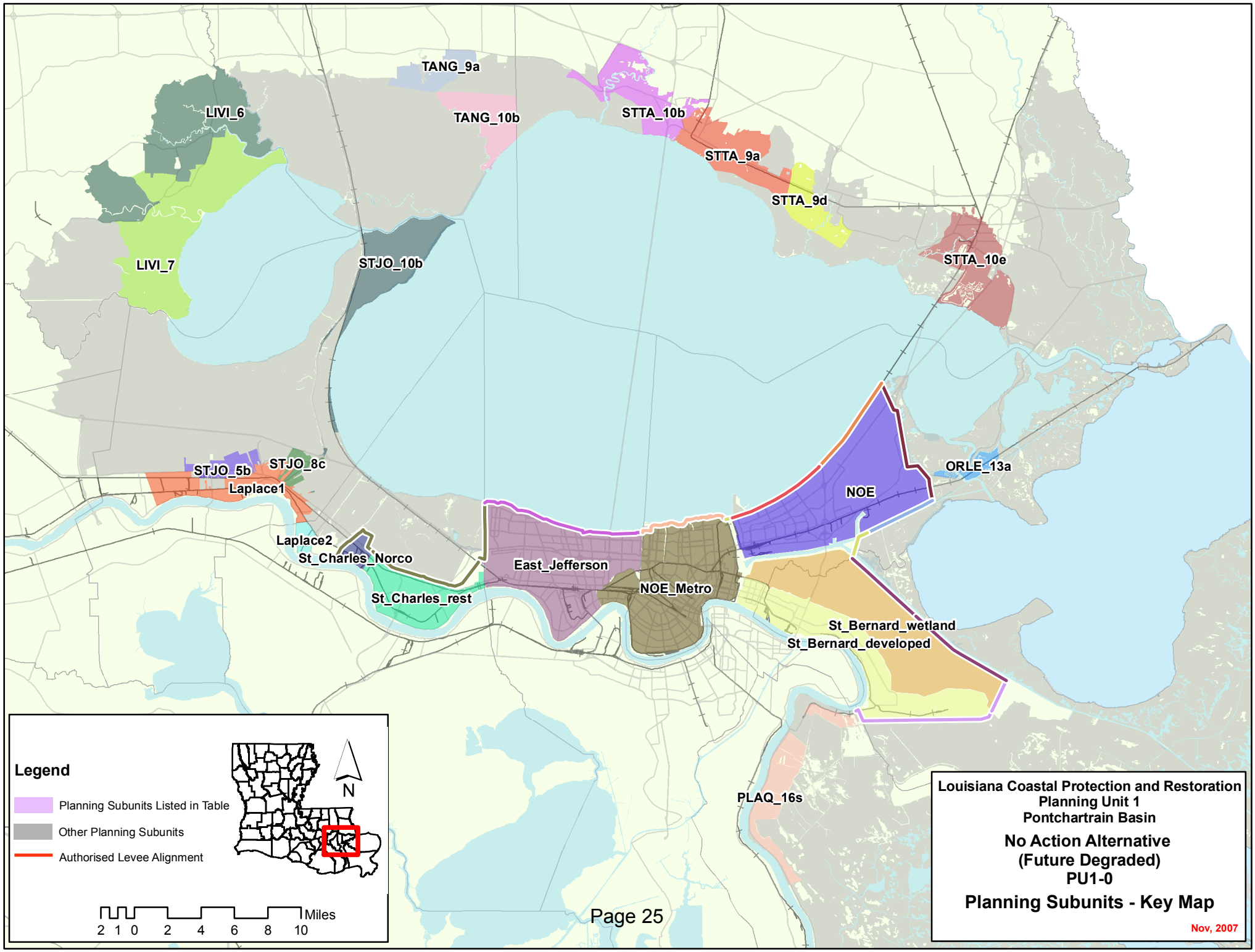

Planning Unit 1
Legend
<-6
-6--5
-5--4
-4--3
-3--2
-2--1
-1-0
0-1
1-2
2-3
3-4
4-5
5-6
6>
LACPR Planning Units
N
Miles
4 2 0 4 8 12 16 20
Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin
Comparison of Surge Elevation
between High Level and Lake
Pontchartrain Barrier Option
400-Year Event
2010 Base Condition
Nov, 2007

Planning Unit:	1	**Alt. No.**	PU1-0	**Category**	No Action
Alternative Description:	No action (without project) alternative.				
Coastal Component:	Degraded coast--increasing risk			**Nonstructural Component:**	None
Structural Component:	No new levees or increases in risk reduction level to existing levees.				

		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**	0.00	57,257	1,373,502	1,259,960	5,123	334,673	80	122	41
	Mean	0.00	61,603	1,736,286	1,738,548	6,679	455,748	91	126	46
	High	0.00	70,115	2,414,836	2,674,104	9,956	707,479	102	130	50
Scenario 2	**Low**	0.00	58,490	1,470,023	1,444,648	5,692	386,287	80	119	38
	Mean	0.00	64,450	1,916,774	2,032,138	7,471	528,807	91	125	44
	High	0.00	73,571	2,872,952	3,980,252	13,144	1,002,381	102	130	50
Scenario 3	**Low**	0.00	46,962	1,325,978	807,718	4,020	250,224	80	122	41
	Mean	0.00	51,134	1,668,464	1,212,696	5,421	357,124	91	126	46
	High	0.00	58,186	2,304,636	1,980,927	8,340	574,000	102	130	50
Scenario 4	**Low**	0.00	47,877	1,425,280	966,509	4,505	295,597	80	119	38
	Mean	0.00	53,282	1,841,152	1,448,893	6,089	420,224	91	125	44
	High	0.00	60,733	2,758,361	3,082,733	10,745	802,847	102	130	50

Other Metric Results							
Construction Time (years)	0	**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		0	0			
Indirect Impacts	N/A	**PV Cost of Coastal Component ($ Billions)**				N/A	N/A
Spatial Integrity	0.326		N/A	N/A			
		PV Cost of Structural Component ($ Billions)	N/A	N/A			


Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin
No Action Alternative
(Future Degraded) PU1-0
November 2007
Slidell
Lake Maurepas
Lake Pontchartrain
Laplace
Metairie
New Orleans
New Orleans East
Chalmette
Lake Borgne
Chandeleur Sound
Gretna
Belle Chasse
Lac des Allemands
Port Sulphur
Breton Sound
Buras
Venice
I-12
I-59
I-55
I-10
US 90
Legend
Percentage of Water of 500 meter cell
0 - 25%
25 - 50%
50 - 75%
75 - 100%
Primary Roads
Planning Unit Boundary
N
Miles
4 2 0 4 8 12 16 20
Data Source: Costal Louisiana Ecosystem Assessment and Restoration (CLEAR)


TANG_9a
LIVI_6
TANG_10b
STTA_10b
STTA_9a
STTA_9d
LIVI_7
STJO_10b
STTA_10e
STJO_5b
STJO_8c
Laplace1
ORLE_13a
NOE
Laplace2
St_Charles_Norco
East_Jefferson
NOE_Metro
St_Charles_rest
St_Bernard_wetland
St_Bernard_developed
PLAQ_16s
Legend
Planning Subunits Listed in Table
Other Planning Subunits
Authorised Levee Alignment
N
Miles
2 1 0 2 4 6 8 10
Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin
No Action Alternative
(Future Degraded)
PU1-0
Planning Subunits - Key Map
Nov, 2007

Alternative: PU1-0

Water Surface Elevations (feet - NAVD88 2004.65)

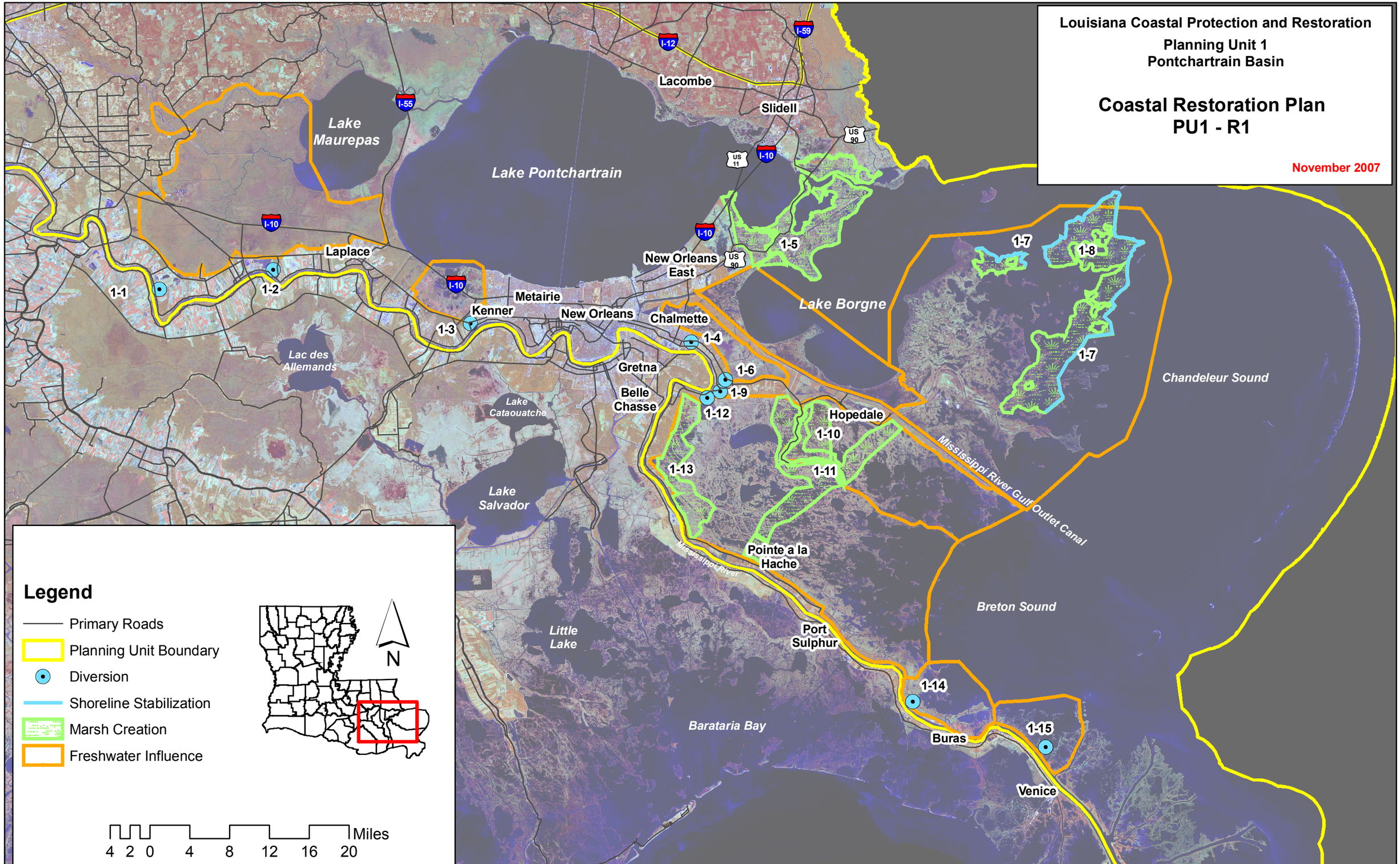
Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
East_Jefferson	-5.1		-1.3		4.4		-2.6		16.0		16.0	
Laplace1	9.4		12.2		14.0		12.0		14.8		16.6	
Laplace2	8.5		11.0		12.8		11.1		13.6		15.4	
LIVI_6	7.3		9.7		11.1		11.2		13.7		15.2	
LIVI_7	7.5		9.7		10.9		10.1		12.3		13.5	
NOE	-5.8		0.5		10.9		-0.1		16.0		16.0	
NOE_Metro	-4.3		-3.9		-2.1		-4.2		16.0		16.0	
ORLE_13a	14.6		17.8		19.4		19.0		22.2		24.0	
PLAQ_16s	19.2		25.3		30.0		22.2		31.9		38.7	
St_Bernard_developed	-0.1		4.3		10.6		2.3		16.0		16.0	
St_Bernard_wetland	2.4		5.2		10.6		4.5		16.0		16.0	
St_Charles_Norco	4.4		16.0		16.0		11.5		17.3		18.6	
St_Charles_rest	2.1		16.0		16.0		11.5		17.3		18.6	
STJO_10b	10.6		12.9		14.1		13.2		15.5		16.7	
STJO_5b	6.3		8.2		9.4		8.9		10.8		12.0	
STJO_8c	9.4		12.2		14.0		12.0		14.8		16.6	
STTA_10b	11.0		13.1		14.3		13.6		15.7		16.9	
STTA_10e	12.2		16.2		18.2		17.1		22.3		24.9	
STTA_9a	10.4		12.7		14.0		13.0		15.3		16.6	
STTA_9d	10.5		13.5		15.0		14.2		18.0		20.2	
TANG_10b	11.0		13.6		15.0		14.4		18.0		19.9	
TANG_9a	10.1		12.3		13.5		13.9		17.6		19.5	

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

Planning Unit:	1	Alt. No.	PU1-R1	Category	Coastal Restoration Only
Alternative Description:	Sustain coastal landscape through restoration including shoreline protection, marsh creation, and steady state diversions.				
Coastal Component:	R1 (steady state diversions)			Nonstructural Component:	None
Structural Component:	Existing level of risk reduction maintained.No new levees or increases in risk reduction level to existing levees.				

		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		56,862	1,351,193	1,240,777	5,058	328,830	201	127	43
	Mean	9.48	60,243	1,613,790	1,548,490	6,142	407,050	231	134	50
	High		65,156	2,141,705	2,055,200	7,981	532,281	261	134	51
Scenario 2	Low		57,903	1,431,873	1,402,125	5,538	373,236	201	124	40
	Mean	9.71	61,293	1,694,162	1,621,876	6,369	426,345	231	131	48
	High		66,261	2,218,906	2,130,221	8,191	550,030	261	134	51
Scenario 3	Low		46,703	1,301,778	791,070	3,957	244,362	201	127	43
	Mean	9.48	50,168	1,569,510	1,062,316	5,019	320,112	231	134	50
	High		54,782	2,074,557	1,557,681	6,967	449,443	261	134	51
Scenario 4	Low		47,456	1,393,101	936,898	4,409	287,163	201	124	40
	Mean	9.71	50,913	1,658,225	1,151,104	5,303	345,428	231	131	48
	High		55,618	2,158,171	1,627,509	7,196	469,852	261	134	51

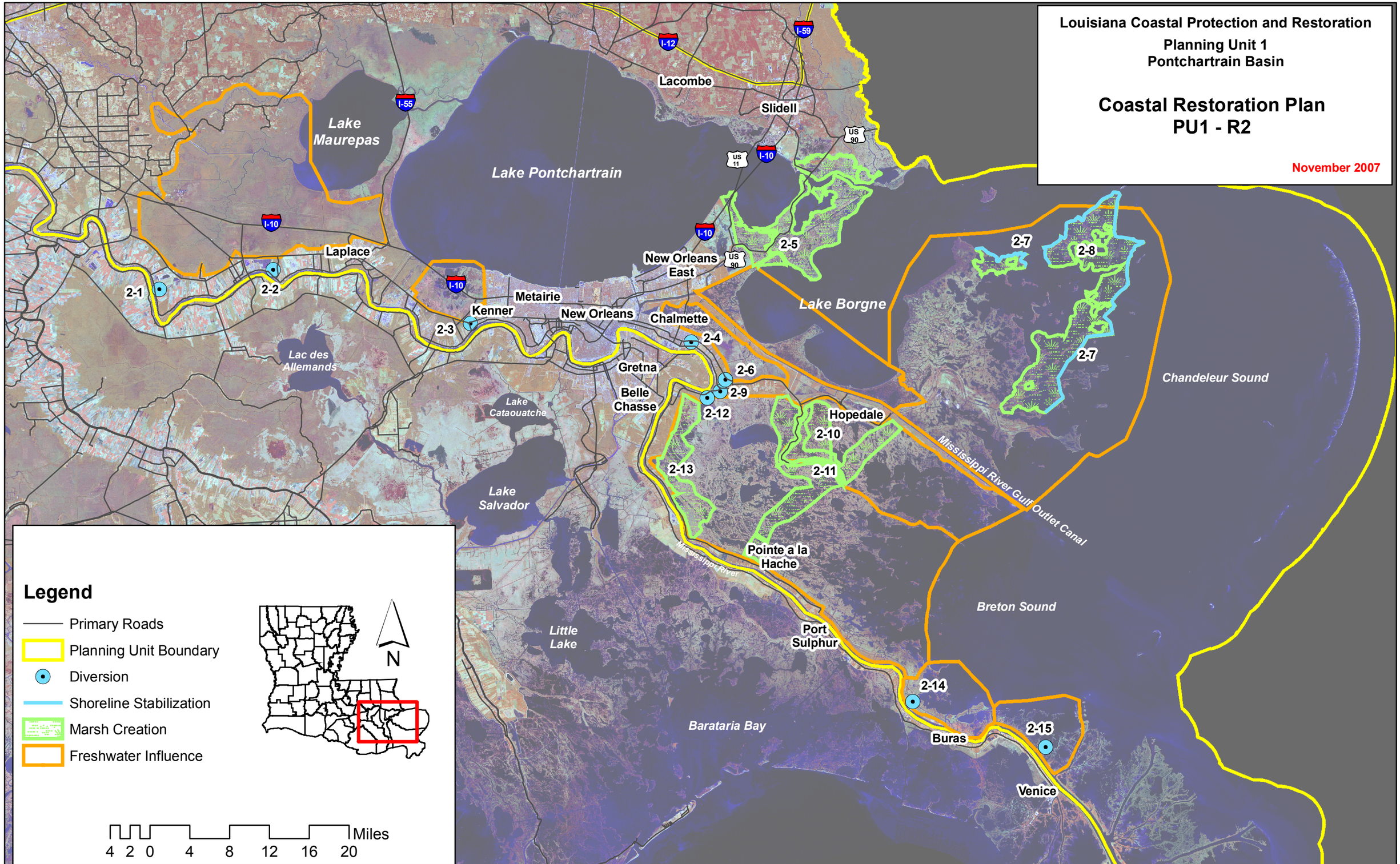
Other Metric Results							
Construction Time (years)	25	Wetlands Created/	Scen 1&3	Scen 2&4	PV Cost of	Scen 1&2	Scen 3&4


Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin
Coastal Restoration Plan
PU1 - R1
November 2007
Lake Maurepas
Lake Pontchartrain
Lake Borgne
Chandeleur Sound
Breton Sound
Barataria Bay
Lac des Allemands
Lake Cataouatche
Lake Salvador
Little Lake
Lacombe
Slidell
Laplace
New Orleans East
Metairie
Kenner
New Orleans
Chalmette
Gretna
Belle Chasse
Hopedale
Pointe a la Hache
Port Sulphur
Buras
Venice
Mississippi River Gulf Outlet Canal
Mississippi River
I-12
I-59
I-55
I-10
US 90
US 11
1-1
1-2
1-3
1-4
1-5
1-6
1-7
1-8
1-9
1-10
1-11
1-12
1-13
1-14
1-15
Legend
Primary Roads
Planning Unit Boundary
Diversion
Shoreline Stabilization
Marsh Creation
Freshwater Influence
N
Miles
4 2 0 4 8 12 16 20

Planning Unit:	1	**Alt. No.**	PU1-R2	**Category**	Coastal Restoration Only
Alternative Description:	Sustain coastal landscape through restoration including shoreline protection, marsh creation, and pulsed diversions.				
Coastal Component:	R2 (pulsed diversions)			**Nonstructural Component:**	None
Structural Component:	No new levees or increases in risk reduction level to existing levees.				

		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**		56,862	1,351,193	1,240,777	5,058	328,830	201	127	43
	Mean	10.67	60,243	1,613,790	1,548,490	6,142	407,050	231	134	50
	High		65,156	2,141,705	2,055,200	7,981	532,281	261	134	51
Scenario 2	**Low**		57,903	1,431,873	1,402,125	5,538	373,236	201	124	40
	Mean	10.90	61,293	1,694,162	1,621,876	6,369	426,345	231	131	48
	High		66,261	2,218,906	2,130,221	8,191	550,030	261	134	51
Scenario 3	**Low**		46,703	1,301,778	791,070	3,957	244,362	201	127	43
	Mean	10.67	50,168	1,569,510	1,062,316	5,019	320,112	231	134	50
	High		54,782	2,074,557	1,557,681	6,967	449,443	261	134	51
Scenario 4	**Low**		47,456	1,393,101	936,898	4,409	287,163	201	124	40
	Mean	10.90	50,913	1,658,225	1,151,104	5,303	345,428	231	131	48
	High		55,618	2,158,171	1,627,509	7,196	469,852	261	134	51

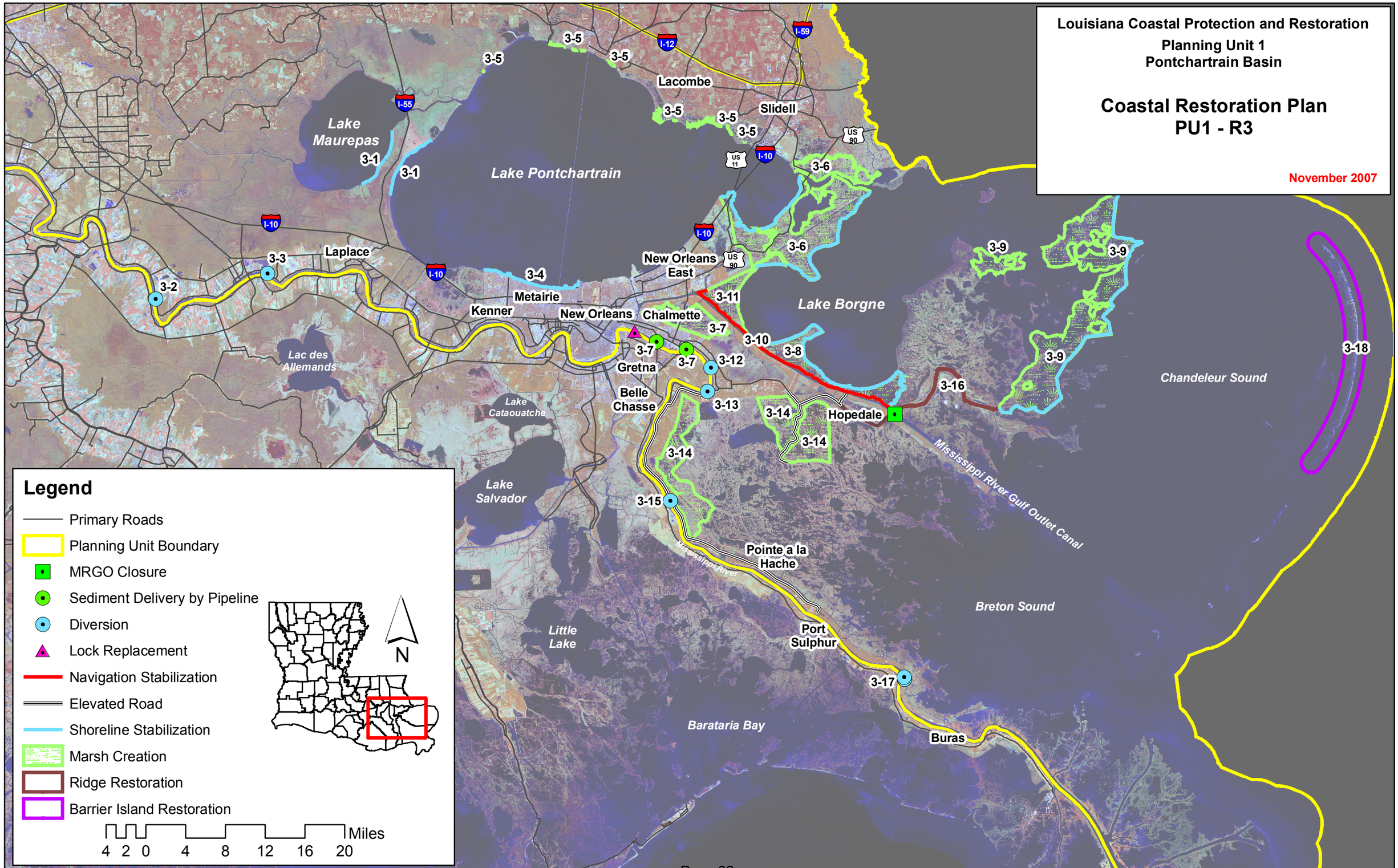
Other Metric Results							
Construction Time (years)	25	**Wetlands Created/ Protected (acres)**	**Scen 1&3**	**Scen 2&4**	**PV Cost of NS Comp ($ Billions)**	**Scen 1&2**	**Scen 3&4**
Direct Wetland Impacts (acres)	0		214,687	220,284			
Indirect Impacts	N/A	**PV Cost of Coastal Component ($ Billions)**				N/A	N/A
Spatial Integrity	0.478		10.67	10.90			


Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin
Coastal Restoration Plan
PU1 - R2
November 2007
Lake Pontchartrain
Lake Maurepas
Lake Borgne
Chandeleur Sound
Breton Sound
Barataria Bay
Lake Salvador
Lake Cataouatche
Lac des Allemands
Little Lake
Lacombe
Slidell
Laplace
New Orleans East
Metairie
Kenner
New Orleans
Chalmette
Gretna
Belle Chasse
Hopedale
Pointe a la Hache
Port Sulphur
Buras
Venice
Mississippi River Gulf Outlet Canal
Mississippi River
I-55
I-12
I-59
I-10
US 90
US 11
2-1
2-2
2-3
2-4
2-5
2-6
2-7
2-8
2-9
2-10
2-11
2-12
2-13
2-14
2-15
Legend
Primary Roads
Planning Unit Boundary
Diversion
Shoreline Stabilization
Marsh Creation
Freshwater Influence
N
Miles
4 2 0 4 8 12 16 20

Planning Unit:	1	Alt. No.	PU1-R3	Category	Coastal Restoration Only
Alternative Description:	Sustain coastal landscape through restoration including shoreline protection, marsh creation, and diversions as proposed in the State Master Plan.				
Coastal Component:	R3 (state plan)			Nonstructural Component:	None
Structural Component:	No new levees or increases in risk reduction level to existing levees.				

		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		56,862	1,351,193	1,240,777	5,058	328,830	201	127	43
	Mean	15.21	60,243	1,613,790	1,548,490	6,142	407,050	231	134	50
	High		65,156	2,141,705	2,055,200	7,981	532,281	261	134	51
Scenario 2	Low		57,903	1,431,873	1,402,125	5,538	373,236	201	124	40
	Mean	15.62	61,293	1,694,162	1,621,876	6,369	426,345	231	131	48
	High		66,261	2,218,906	2,130,221	8,191	550,030	261	134	51
Scenario 3	Low		46,703	1,301,778	791,070	3,957	244,362	201	127	43
	Mean	15.21	50,168	1,569,510	1,062,316	5,019	320,112	231	134	50
	High		54,782	2,074,557	1,557,681	6,967	449,443	261	134	51
Scenario 4	Low		47,456	1,393,101	936,898	4,409	287,163	201	124	40
	Mean	15.62	50,913	1,658,225	1,151,104	5,303	345,428	231	131	48
	High		55,618	2,158,171	1,627,509	7,196	469,852	261	134	51

Other Metric Results							
Construction Time (years)	25	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		233,914	239,185			
Indirect Impacts	N/A	PV Cost of Coastal Component ($ Billions)				N/A	N/A


Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin
Coastal Restoration Plan
PU1 - R3
November 2007
Lake Maurepas
Lake Pontchartrain
Lake Borgne
Chandeleur Sound
Breton Sound
Barataria Bay
Lake Salvador
Little Lake
Lake Cataouatche
Lac des Allemands
Lacombe
Slidell
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Hopedale
Pointe a la Hache
Port Sulphur
Buras
Mississippi River Gulf Outlet Canal
Mississippi River
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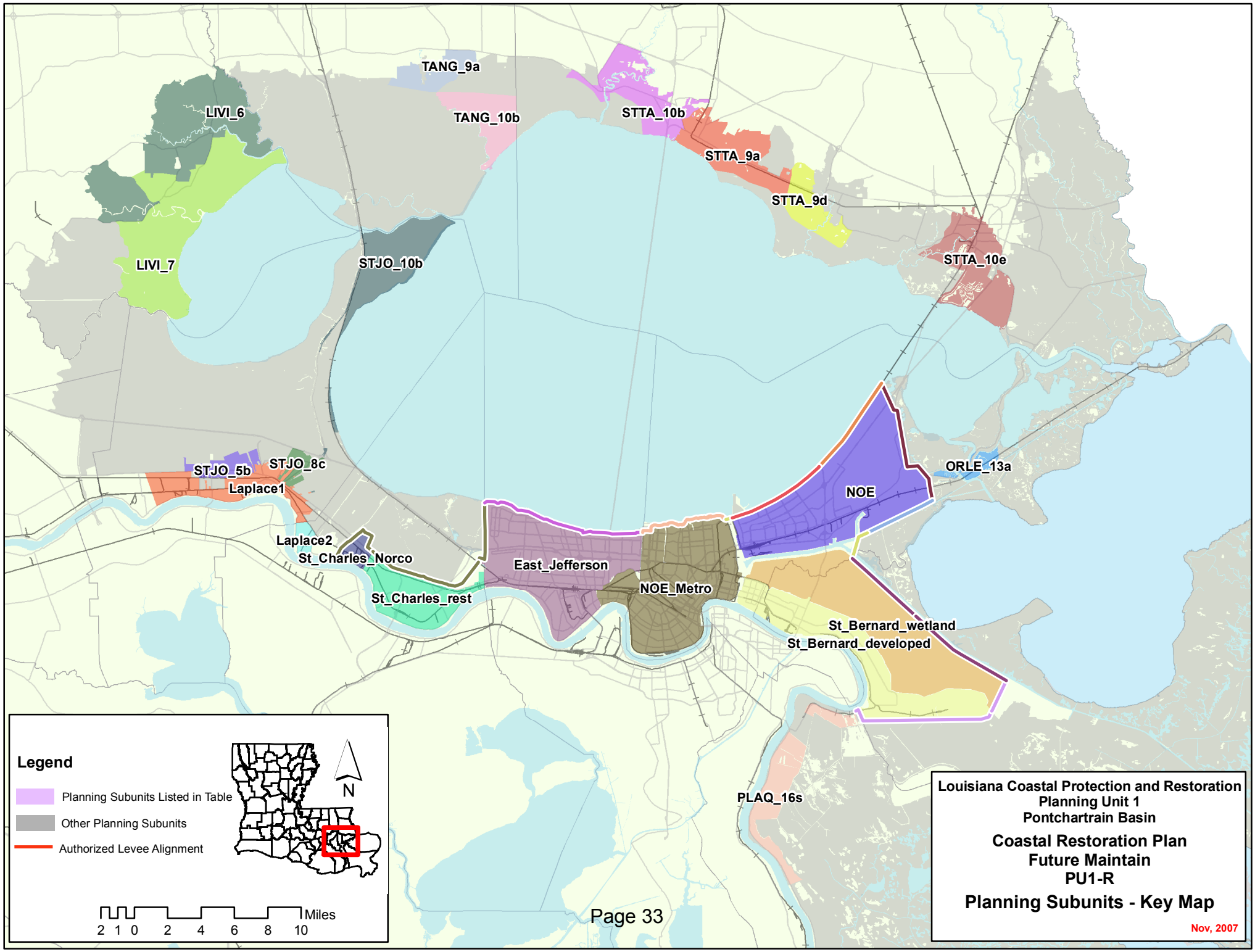
3-9
3-10
3-11
3-12
3-13
3-14
3-15
3-16
3-17
3-18
I-55
I-10
I-12
I-59
US 11
US 90
Legend
Primary Roads
Planning Unit Boundary
MRGO Closure
Sediment Delivery by Pipeline
Diversion
Lock Replacement
Navigation Stabilization
Elevated Road
Shoreline Stabilization
Marsh Creation
Ridge Restoration
Barrier Island Restoration
N
Miles
4 2 0 4 8 12 16 20


TANG_9a
TANG_10b
STTA_10b
STTA_9a
STTA_9d
STTA_10e
LIVI_6
LIVI_7
STJO_10b
STJO_5b
STJO_8c
Laplace1
Laplace2
St_Charles_Norco
St_Charles_rest
East_Jefferson
NOE_Metro
NOE
ORLE_13a
St_Bernard_wetland
St_Bernard_developed
PLAQ_16s
Legend
Planning Subunits Listed in Table
Other Planning Subunits
Authorized Levee Alignment
N
Miles
2 1 0 2 4 6 8 10
Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin
Coastal Restoration Plan
Future Maintain
PU1-R
Planning Subunits - Key Map
Nov, 2007

Alternative: PU1- R1, PU1-R2 and PU1-R3
Water Surface Elevations (feet - NAVD88 2004.65)

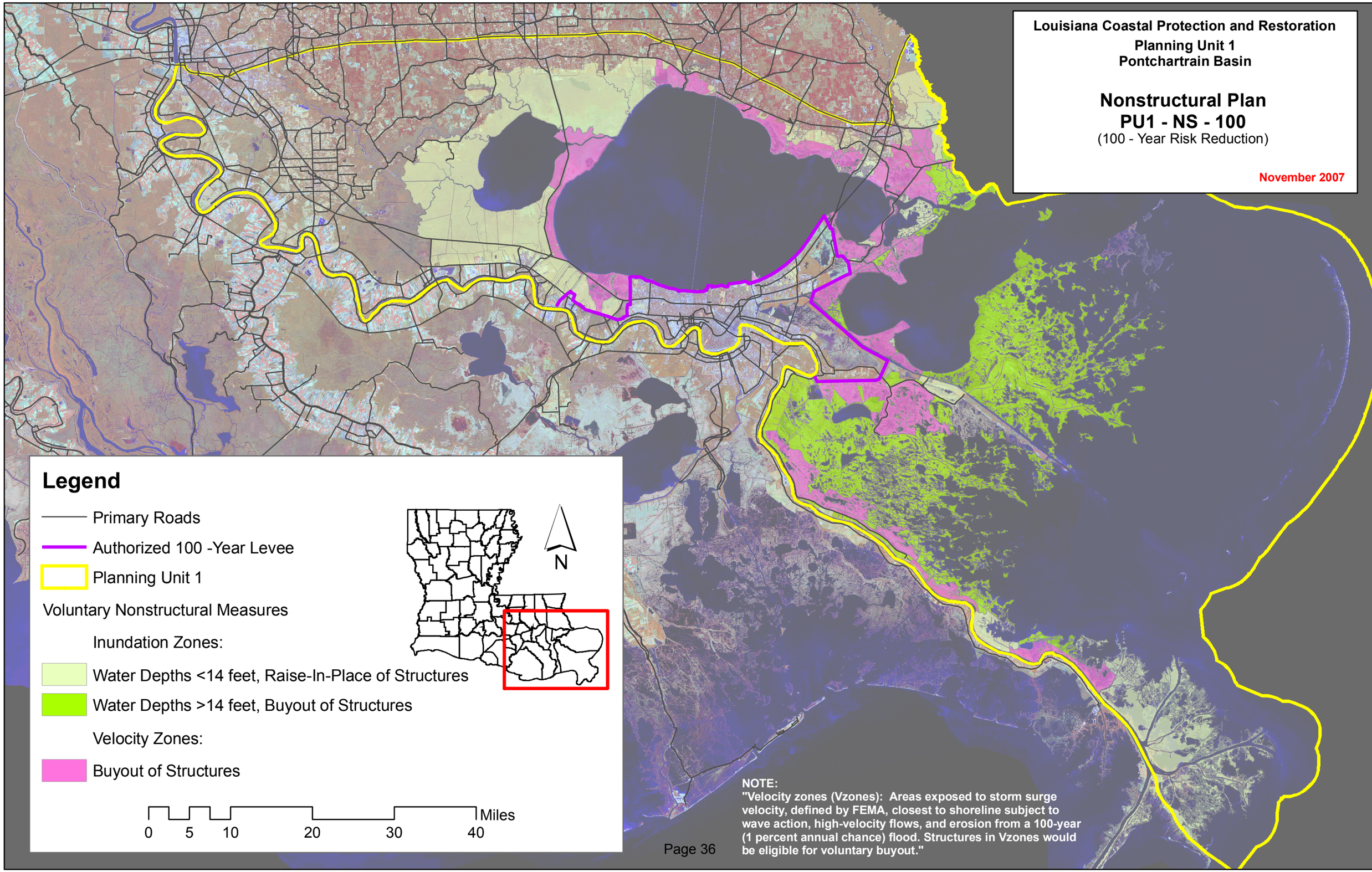
Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
East_Jefferson	-5.1	-5.1	-1.3	-1.3	4.4	4.4	-2.6	-5.1	16.0	-1.3	16.0	4.4
Laplace1	9.4	9.4	12.2	12.2	14.0	14.0	12.0	12.0	14.8	14.8	16.6	16.6
Laplace2	8.5	8.5	11.0	11.0	12.8	12.8	11.1	11.1	13.6	13.6	15.4	15.4
LIVI_6	7.3	7.3	9.7	9.7	11.1	11.1	11.2	9.9	13.7	12.3	15.2	13.7
LIVI_7	7.5	7.5	9.7	9.7	10.9	10.9	10.1	10.1	12.3	12.3	13.5	13.5
NOE	-5.8	-5.8	0.5	0.5	10.9	10.9	-0.1	-5.8	16.0	0.5	16.0	10.9
NOE_Metro	-4.3	-4.3	-3.9	-3.9	-2.1	-2.1	-4.2	-4.3	16.0	-3.9	16.0	-2.1
ORLE_13a	14.6	14.6	17.8	17.8	19.4	19.4	19.0	17.2	22.2	20.4	24.0	22.0
PLAQ_16s	19.2	19.2	25.3	25.3	30.0	30.0	22.2	21.8	31.9	27.9	38.7	32.6
St_Bernard_developed	-0.1	-0.1	4.3	4.3	10.6	10.6	2.3	-0.1	16.0	4.3	16.0	10.6
St_Bernard_wetland	2.4	2.4	5.2	5.2	10.6	10.6	4.5	2.4	16.0	5.2	16.0	10.6
St_Charles_Norco	4.4	4.4	16.0	16.0	16.0	16.0	11.5	4.4	17.3	16.0	18.6	16.0
St_Charles_rest	2.1	2.1	16.0	16.0	16.0	16.0	11.5	2.1	17.3	16.0	18.6	16.0
STJO_10b	10.6	10.6	12.9	12.9	14.1	14.1	13.2	13.2	15.5	15.5	16.7	16.7
STJO_5b	6.3	6.3	8.2	8.2	9.4	9.4	8.9	8.9	10.8	10.8	12.0	12.0
STJO_8c	9.4	9.4	12.2	12.2	14.0	14.0	12.0	12.0	14.8	14.8	16.6	16.6
STTA_10b	11.0	11.0	13.1	13.1	14.3	14.3	13.6	13.6	15.7	15.7	16.9	16.9
STTA_10e	12.2	12.2	16.2	16.2	18.2	18.2	17.1	14.8	22.3	18.8	24.9	20.8
STTA_9a	10.4	10.4	12.7	12.7	14.0	14.0	13.0	13.0	15.3	15.3	16.6	16.6
STTA_9d	10.5	10.5	13.5	13.5	15.0	15.0	14.2	13.1	18.0	16.1	20.2	17.6
TANG_10b	11.0	11.0	13.6	13.6	15.0	15.0	14.4	13.6	18.0	16.2	19.9	17.6
TANG_9a	10.1	10.1	12.3	12.3	13.5	13.5	13.9	12.7	17.6	14.9	19.5	16.1

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

Planning Unit:	1	**Alt. No.**	PU1-NS-100	**Category**	Coastal Restoration + Nonstructural Measures
Alternative Description:	Sustain coastal landscape through restoration. Implement comprehensive 100-year nonstructural measures.				
Coastal Component:	R2 (pulsed diversions)			**Nonstructural Component:**	None
Structural Component:	No new levees or increases in risk reduction level to existing levees.				

		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**		50,812	597,606	351,662	1,706	91,050	201	127	43
	Mean	20.52	54,104	770,932	557,430	2,502	144,611	231	134	50
	High		58,749	1,239,861	1,069,681	4,432	271,705	261	134	51
Scenario 2	**Low**		51,344	628,876	455,387	2,004	120,083	201	124	40
	Mean	20.75	54,642	836,765	676,490	2,870	176,217	231	131	48
	High		59,342	1,347,364	1,101,961	4,523	279,730	261	134	51
Scenario 3	**Low**		44,553	577,779	281,446	1,578	83,701	201	127	43
	Mean	20.52	48,075	749,068	476,648	2,396	138,186	231	134	50
	High		52,722	1,193,091	952,565	4,375	265,757	261	134	51
Scenario 4	**Low**		44,944	605,730	378,720	1,865	112,028	201	124	40
	Mean	20.75	48,462	802,032	587,212	2,760	171,210	231	131	48
	High		53,172	1,274,301	984,531	4,480	275,706	261	134	51

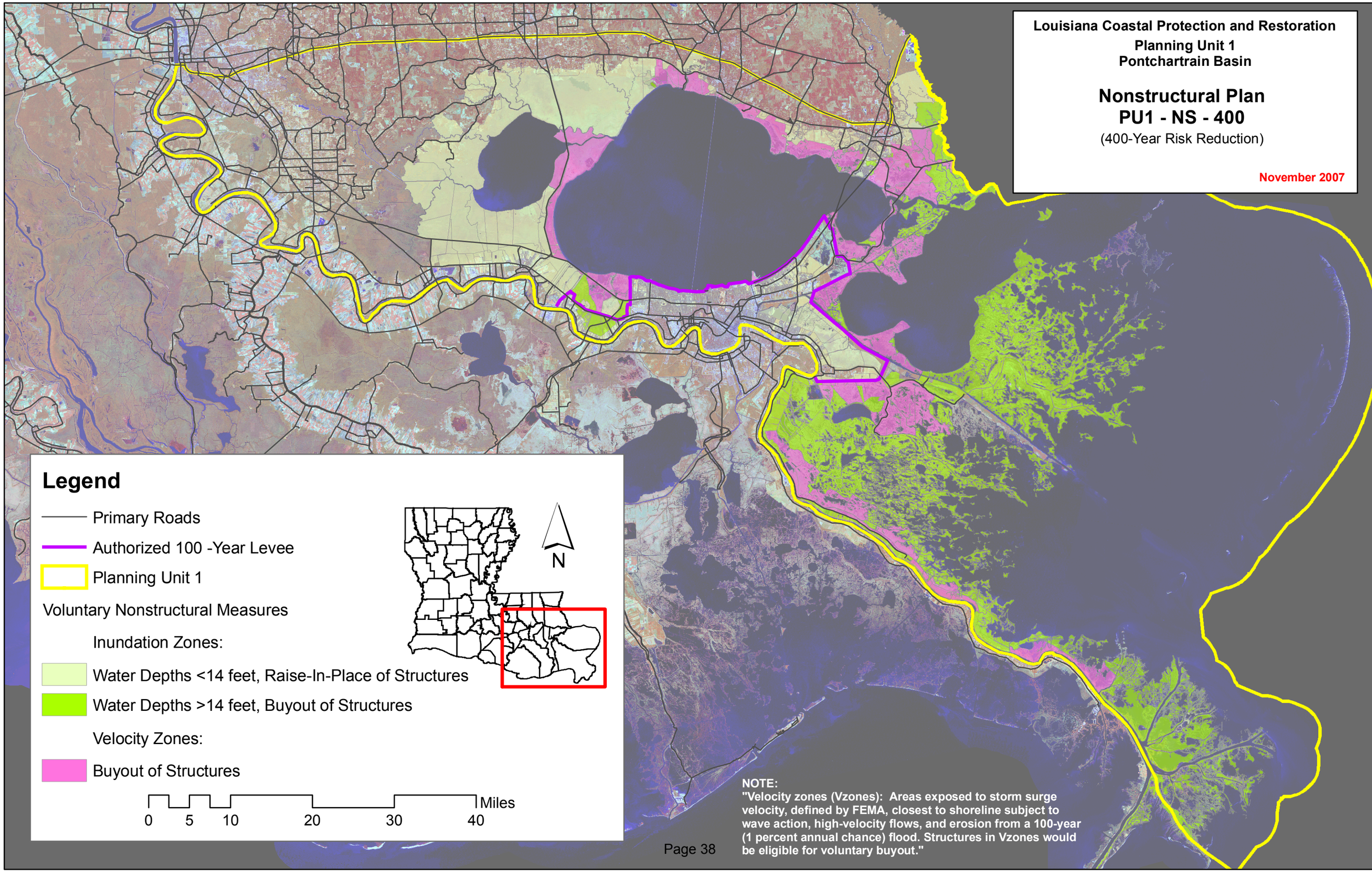
Other Metric Results							
Construction Time (years)	15	**Wetlands Created/ Protected (acres)**	**Scen 1&3**	**Scen 2&4**	**PV Cost of NS Comp ($ Billions)**	**Scen 1&2**	**Scen 3&4**
Direct Wetland Impacts (acres)	0		214,687	220,284		9.85	9.85
Indirect Impacts	N/A	**PV Cost of Coastal Component ($ Billions)**	10.67	10.90			
Spatial Integrity	0.478						
		PV Cost of Structural Component ($ Billions)	N/A	N/A			


Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin
Nonstructural Plan
PU1 - NS - 100
(100 - Year Risk Reduction)
November 2007
Legend
Primary Roads
Authorized 100 -Year Levee
Planning Unit 1
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:	1	**Alt. No.**	PU1-NS-400	**Category**	Coastal Restoration + Nonstructural Measures
Alternative Description:	Sustain coastal landscape through restoration. Implement comprehensive 400-year nonstructural measures.				
Coastal Component:	R2 (pulsed diversions)			**Nonstructural Component:**	None
Structural Component:	No new levees or increases in risk reduction level to existing levees.				

		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**		49,602	444,276	211,284	1,180	56,009	201	127	43
	Mean	46.03	52,888	526,624	278,449	1,453	71,300	231	134	50
	High		57,473	777,060	504,637	2,413	130,435	261	134	51
Scenario 2	**Low**		50,135	445,821	214,157	1,188	56,820	201	124	40
	Mean	46.26	53,425	534,113	301,476	1,514	77,471	231	131	48
	High		58,066	794,201	532,322	2,493	138,403	261	134	51
Scenario 3	**Low**		43,568	428,462	177,627	1,132	54,844	201	127	43
	Mean	46.18	47,083	514,959	238,297	1,423	70,957	231	134	50
	High		51,668	757,208	458,975	2,446	132,798	261	134	51
Scenario 4	**Low**		43,960	429,910	180,031	1,139	55,551	201	124	40
	Mean	46.41	47,470	520,918	258,652	1,477	76,466	231	131	48
	High		52,117	770,996	479,942	2,498	138,331	261	134	51

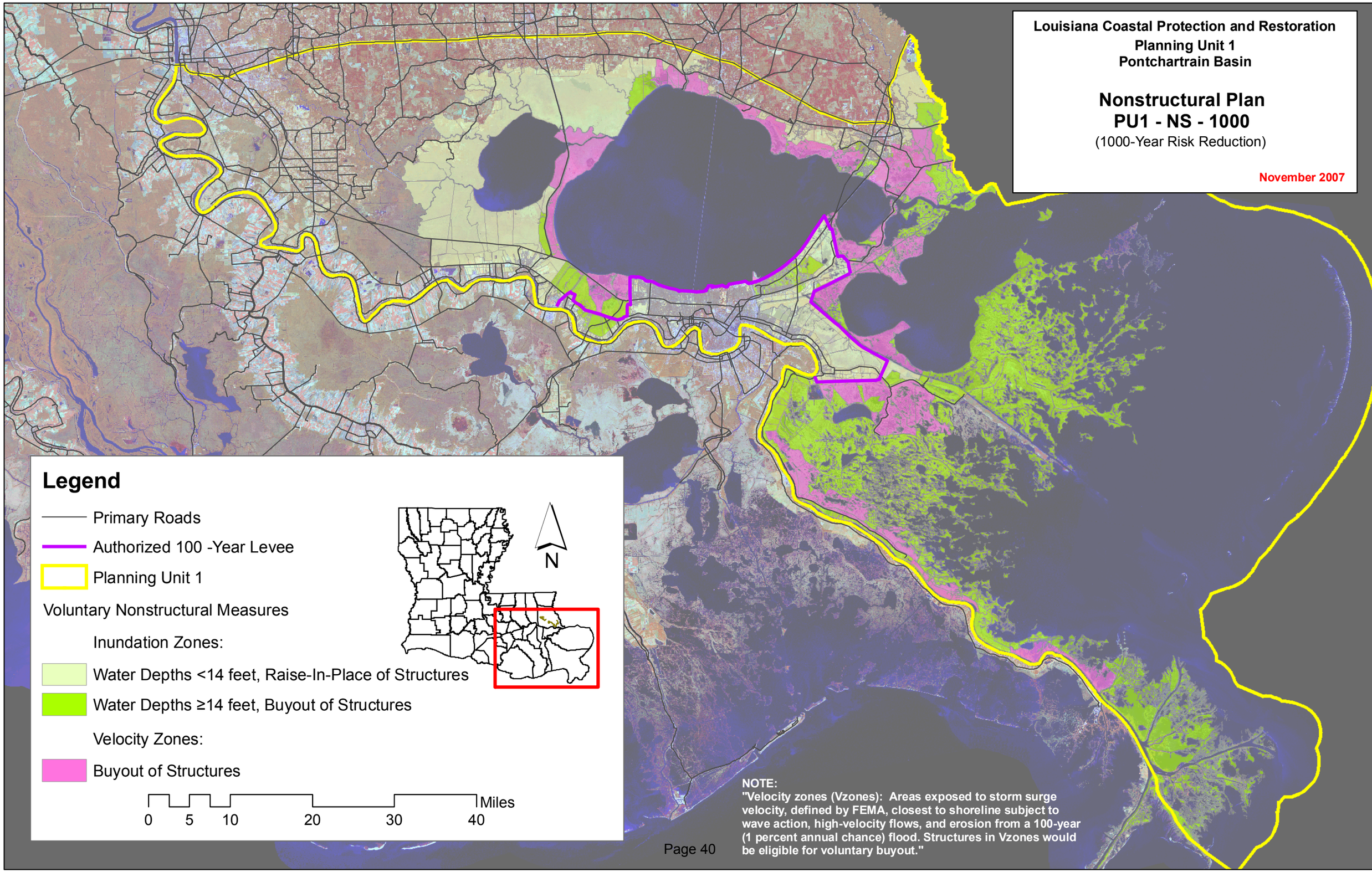
Other Metric Results							
Construction Time (years)	15	**Wetlands Created/ Protected (acres)**	**Scen 1&3**	**Scen 2&4**	**PV Cost of NS Comp ($ Billions)**	**Scen 1&2**	**Scen 3&4**
Direct Wetland Impacts (acres)	0		214,687	220,284		35.36	35.51
Indirect Impacts	N/A	**PV Cost of Coastal Component ($ Billions)**	10.67	10.90			
Spatial Integrity	0.478						
		PV Cost of Structural Component ($ Billions)	N/A	N/A			


Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin
Nonstructural Plan
PU1 - NS - 400
(400-Year Risk Reduction)
November 2007
Legend
Primary Roads
Authorized 100 -Year Levee
Planning Unit 1
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:	1	**Alt. No.**	PU1-NS-1000	**Category**	Coastal Restoration + Nonstructural Measures
Alternative Description:	Sustain coastal landscape through restoration. Implement comprehensive 1000-year nonstructural measures.				
Coastal Component:	R2 (pulsed diversions)			**Nonstructural Component:**	None
Structural Component:	No new levees or increases in risk reduction level to existing levees.				

		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**		43,151	420,530	211,070	1,178	55,953	201	127	43
	Mean	60.08	46,365	500,406	271,733	1,427	69,391	231	134	50
	High		50,797	681,927	420,678	2,079	107,870	261	134	51
Scenario 2	**Low**		43,683	421,265	211,081	1,179	55,957	201	124	40
	Mean	60.31	46,903	502,380	276,569	1,442	70,783	231	131	48
	High		51,390	688,910	432,583	2,117	111,429	261	134	51
Scenario 3	**Low**		38,633	406,328	176,772	1,125	54,356	201	127	43
	Mean	59.30	42,100	490,735	231,318	1,392	68,650	231	134	50
	High		46,582	672,359	385,448	2,121	111,322	261	134	51
Scenario 4	**Low**		39,024	407,038	176,784	1,125	54,363	201	124	40
	Mean	59.53	42,487	492,171	235,229	1,403	69,759	231	131	48
	High		47,031	677,257	393,314	2,146	113,730	261	134	51

Other Metric Results							
Construction Time (years)	15	**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		214,687	220,284		49.41	48.63
Indirect Impacts	N/A	**PV Cost of Coastal Component ($ Billions)**	10.67	10.90			
Spatial Integrity	0.478						
		PV Cost of Structural Component ($ Billions)	N/A	N/A			


Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin
Nonstructural Plan
PU1 - NS - 1000
(1000-Year Risk Reduction)
November 2007
Legend
Primary Roads
Authorized 100 -Year Levee
Planning Unit 1
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."