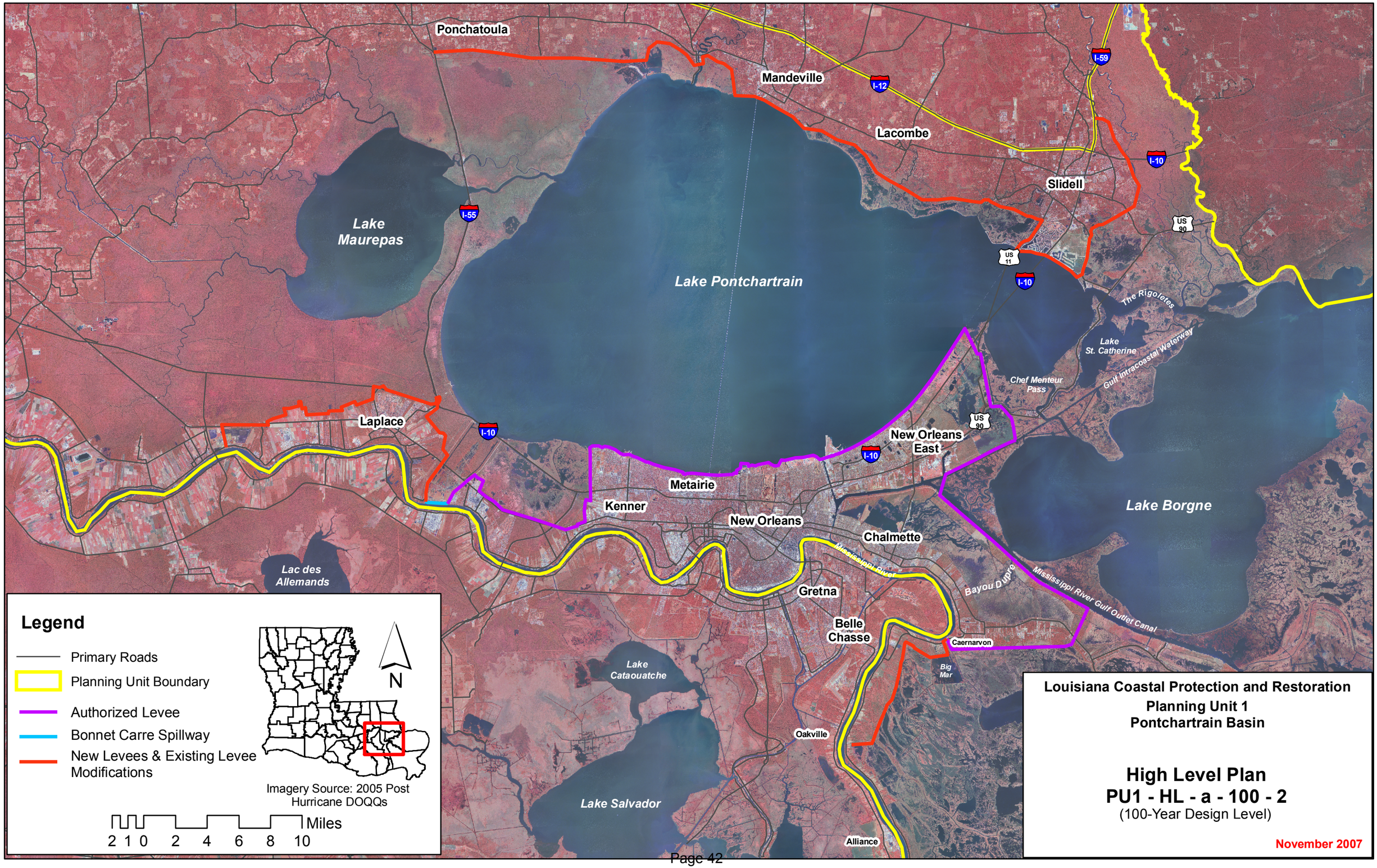
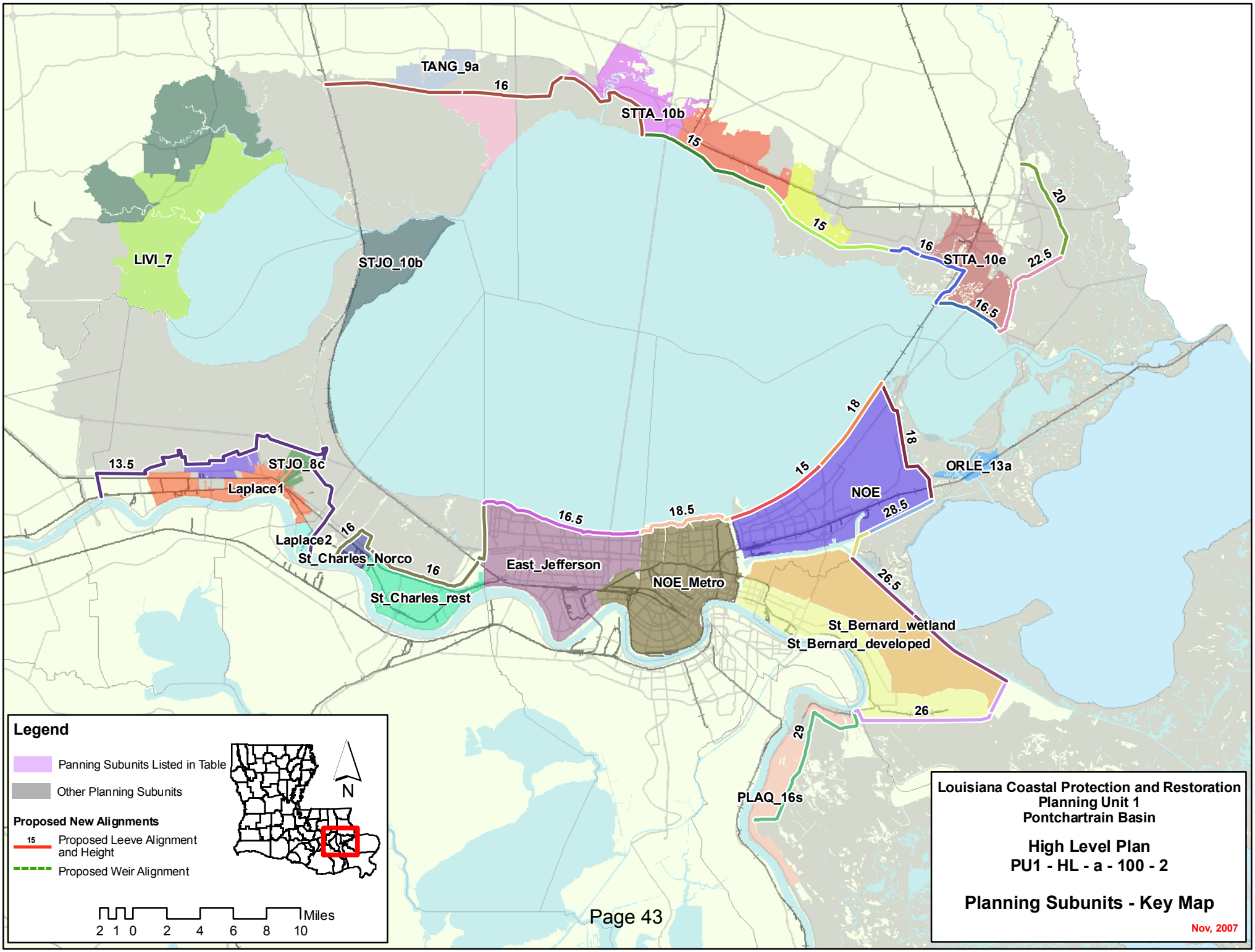
Planning Unit:	1	**Alt. No.**	PU1-HL-a-100-2	**Category**	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration and construct high level plan providing 100-year design level of risk reduction to Northshore of Lake Pontchartrain, upper Plaquemines, and LaPlace.				
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**		50,179	1,112,612	865,740	3,896	233,819	243	131	43
	Mean	27.39	52,890	1,330,219	1,070,534	4,653	284,251	273	143	50
	High		57,904	1,830,416	1,591,833	6,597	416,814	303	152	51
Scenario 2	**Low**		50,449	1,136,101	899,768	3,999	243,168	243	126	40
	Mean	27.66	53,407	1,365,923	1,121,487	4,789	296,910	273	134	48
	High		58,509	1,910,998	1,809,388	7,127	465,947	303	146	51
Scenario 3	**Low**		41,931	1,022,816	552,386	2,972	167,492	243	131	43
	Mean	27.39	44,700	1,229,329	735,076	3,714	215,800	273	143	50
	High		49,289	1,693,761	1,211,604	5,929	341,810	303	152	51
Scenario 4	**Low**		42,109	1,043,997	581,433	3,059	175,633	243	126	40
	Mean	27.66	45,070	1,261,747	776,171	3,828	226,607	273	134	48
	High		49,727	1,772,331	1,394,750	6,028	379,885	303	146	51

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)	-4,686		214,687	220,284		N/A	N/A
Indirect Impacts	-2	**PV Cost of Coastal Component ($ Billions)**	10.67	10.90			
Spatial Integrity	0.478						
		PV Cost of Structural Component ($ Billions)	16.72	16.76			


Ponchatoula
Mandeville
Lacombe
Slidell
Lake Maurepas
Lake Pontchartrain
Laplace
Kenner
Metairie
New Orleans
New Orleans East
Chalmette
Gretna
Belle Chasse
Caernarvon
Oakville
Alliance
Lake Borgne
Lake St. Catherine
The Rigolets
Chef Menteur Pass
Gulf Intracoastal Waterway
Mississippi River
Bayou Dupre
Mississippi River Gulf Outlet Canal
Lake Cataouatche
Lake Salvador
Lac des Allemands
Big Mar
I-55
I-12
I-59
I-10
US 11
US 90
Legend
Primary Roads
Planning Unit Boundary
Authorized Levee
Bonnet Carre Spillway
New Levees & Existing Levee Modifications
N
Imagery Source: 2005 Post Hurricane DOQQs
Miles
2 1 0 2 4 6 8 10
Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin
High Level Plan
PU1 - HL - a - 100 - 2
(100-Year Design Level)
November 2007


TANG_9a
16
STTA_10b
15
15
20
16
STTA_10e
22.5
16.5
LIVI_7
STJO_10b
18
18
15
ORLE_13a
NOE
28.5
13.5
STJO_8c
Laplace1
16.5
18.5
Laplace2
16
St_Charles_Norco
16
East_Jefferson
NOE_Metro
St_Charles_rest
26.5
St_Bernard_wetland
St_Bernard_developed
26
29
PLAQ_16s
Legend
Panning Subunits Listed in Table
Other Planning Subunits
Proposed New Alignments
15
Proposed Leeve Alignment and Height
Proposed Weir Alignment
N
Miles
2 1 0 2 4 6 8 10
Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin
High Level Plan
PU1 - HL - a - 100 - 2
Planning Subunits - Key Map
Nov, 2007

Alternative: PU1-HL-a-100-2

Water Surface Elevations (feet - NAVD88 2004.65)

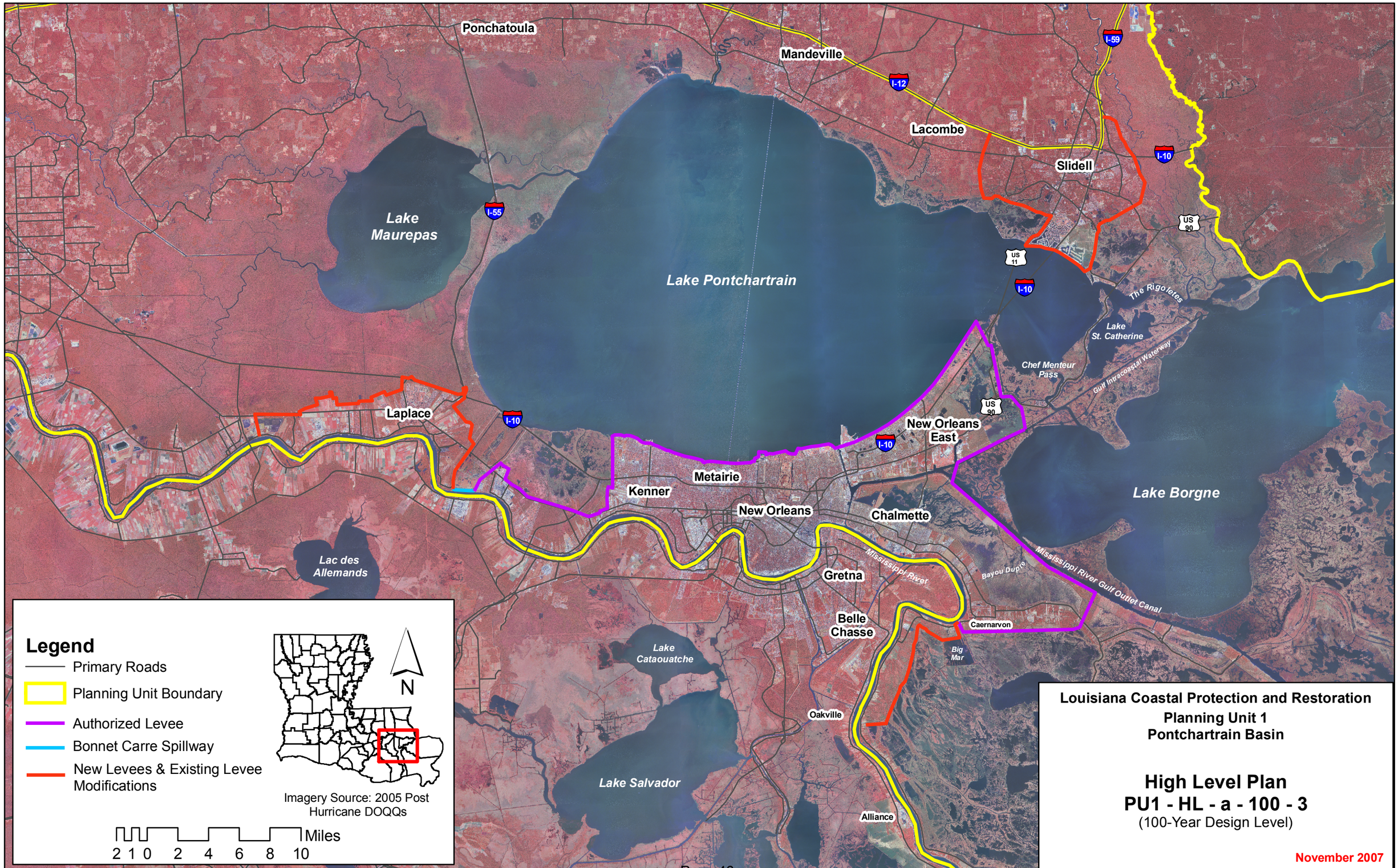
Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	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	4.4	12.2	13.5	14.0	13.9	12.0	4.4	14.8	13.5	16.6	13.9
Laplace2	8.5	4.4	11.0	13.5	12.8	13.9	11.1	4.4	13.6	13.5	15.4	13.9
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	0.4	25.3	11.3	30.0	18.0	22.2	0.4	31.9	11.3	38.7	18.0
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	4.4	8.2	13.5	9.4	13.9	8.9	4.4	10.8	13.5	12.0	13.9
STJO_8c	9.4	4.4	12.2	13.5	14.0	13.9	12.0	4.4	14.8	13.5	16.6	13.9
STTA_10b	11.0	4.4	13.1	10.4	14.3	16.0	13.6	4.4	15.7	10.4	16.9	16.0
STTA_10e	12.2	4.2	16.2	16.0	18.2	16.0	17.1	4.2	22.3	16.0	24.9	16.0
STTA_9a	10.4	4.4	12.7	10.4	14.0	16.0	13.0	4.4	15.3	10.4	16.6	16.0
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	4.8	12.3	10.6	13.5	16.0	13.9	4.8	17.6	10.6	19.5	16.0

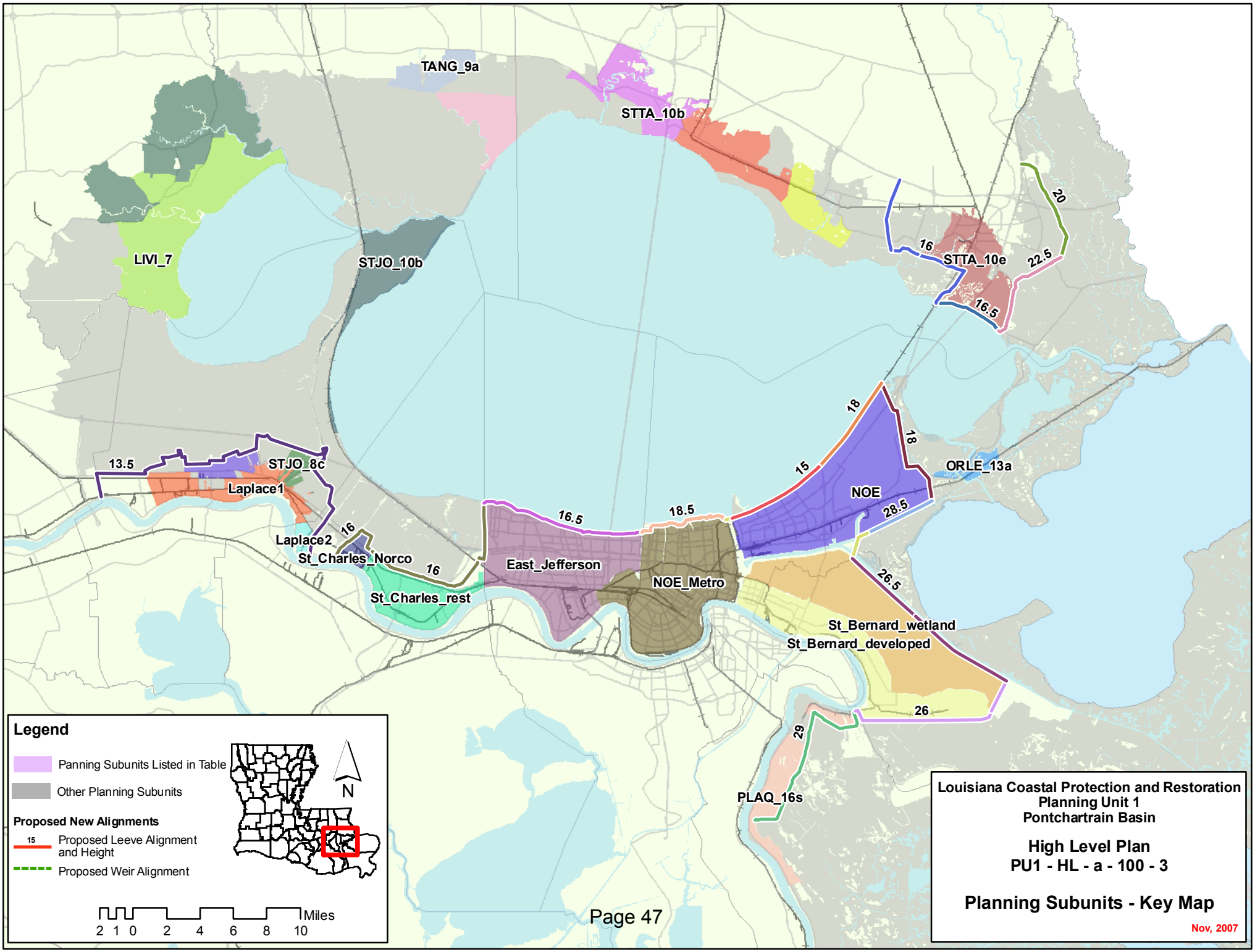
Evaluation Parameters					
	Confidence Level:	90%	Levee Design:	No Friction Waves	
	Future Sea Level Rise:	High	Levee Overtopping:	No Friction Waves	

Planning Unit:	1	**Alt. No.**	PU1-HL-a-100-3	**Category**	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration and construct high level plan providing 100-year design level of risk reduction to LaPlace, upper Plaquemines, and Slidell.				
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**		51,098	1,144,895	890,702	3,968	239,712	241	126	43
	Mean	24.62	54,105	1,374,520	1,126,446	4,839	300,415	271	133	50
	High		59,146	1,881,791	1,653,927	6,806	434,663	301	137	51
Scenario 2	**Low**		51,490	1,174,947	955,587	4,178	259,348	241	124	40
	Mean	24.87	54,760	1,419,227	1,185,529	5,001	315,493	271	128	48
	High		59,949	1,971,859	1,886,120	7,390	488,204	301	134	51
Scenario 3	**Low**		42,363	1,045,400	571,735	3,024	171,442	241	126	43
	Mean	24.62	45,326	1,260,170	772,093	3,825	224,893	271	133	50
	High		49,959	1,732,130	1,254,070	5,765	352,718	301	137	51
Scenario 4	**Low**		42,598	1,072,027	617,757	3,163	184,672	241	124	40
	Mean	24.87	45,758	1,299,341	820,203	3,967	238,224	271	128	48
	High		50,482	1,817,610	1,448,201	6,205	394,235	301	134	51

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)	-3,642		214,687	220,284		N/A	N/A
Indirect Impacts	-1	**PV Cost of Coastal Component ($ Billions)**	10.67	10.90			
Spatial Integrity	0.478						
		PV Cost of Structural Component ($ Billions)	13.95	13.97			


Ponchatoula
Mandeville
Lacombe
Slidell
Lake Maurepas
Lake Pontchartrain
Laplace
New Orleans East
Metairie
Kenner
New Orleans
Chalmette
Lake Borgne
Lac des Allemands
Gretna
Belle Chasse
Caernarvon
Big Mar
Lake Cataouatche
Oakville
Lake Salvador
Alliance
The Rigolets
Lake St. Catherine
Chef Menteur Pass
Gulf Intracoastal Waterway
Mississippi River
Bayou Dupre
Mississippi River Gulf Outlet Canal
I-59
I-12
I-10
I-55
US 90
US 11
Legend
Primary Roads
Planning Unit Boundary
Authorized Levee
Bonnet Carre Spillway
New Levees & Existing Levee Modifications
N
Imagery Source: 2005 Post Hurricane DOQQs
Miles
2 1 0 2 4 6 8 10
Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin
High Level Plan
PU1 - HL - a - 100 - 3
(100-Year Design Level)
November 2007


TANG_9a
STTA_10b
LIVI_7
STJO_10b
STTA_10e
20
22.5
16
16.5
18
18
15
ORLE_13a
NOE
28.5
13.5
STJO_8c
Laplace1
16.5
18.5
Laplace2
16
St_Charles_Norco
16
East_Jefferson
NOE_Metro
St_Charles_rest
26.5
St_Bernard_wetland
St_Bernard_developed
26
29
PLAQ_16s
Legend
Panning Subunits Listed in Table
Other Planning Subunits
Proposed New Alignments
15
Proposed Leeve Alignment and Height
Proposed Weir Alignment
N
Miles
2 1 0 2 4 6 8 10
Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin
High Level Plan
PU1 - HL - a - 100 - 3
Planning Subunits - Key Map
Nov, 2007

Alternative: PU1-HL-a-100-3

Water Surface Elevations (feet - NAVD88 2004.65)

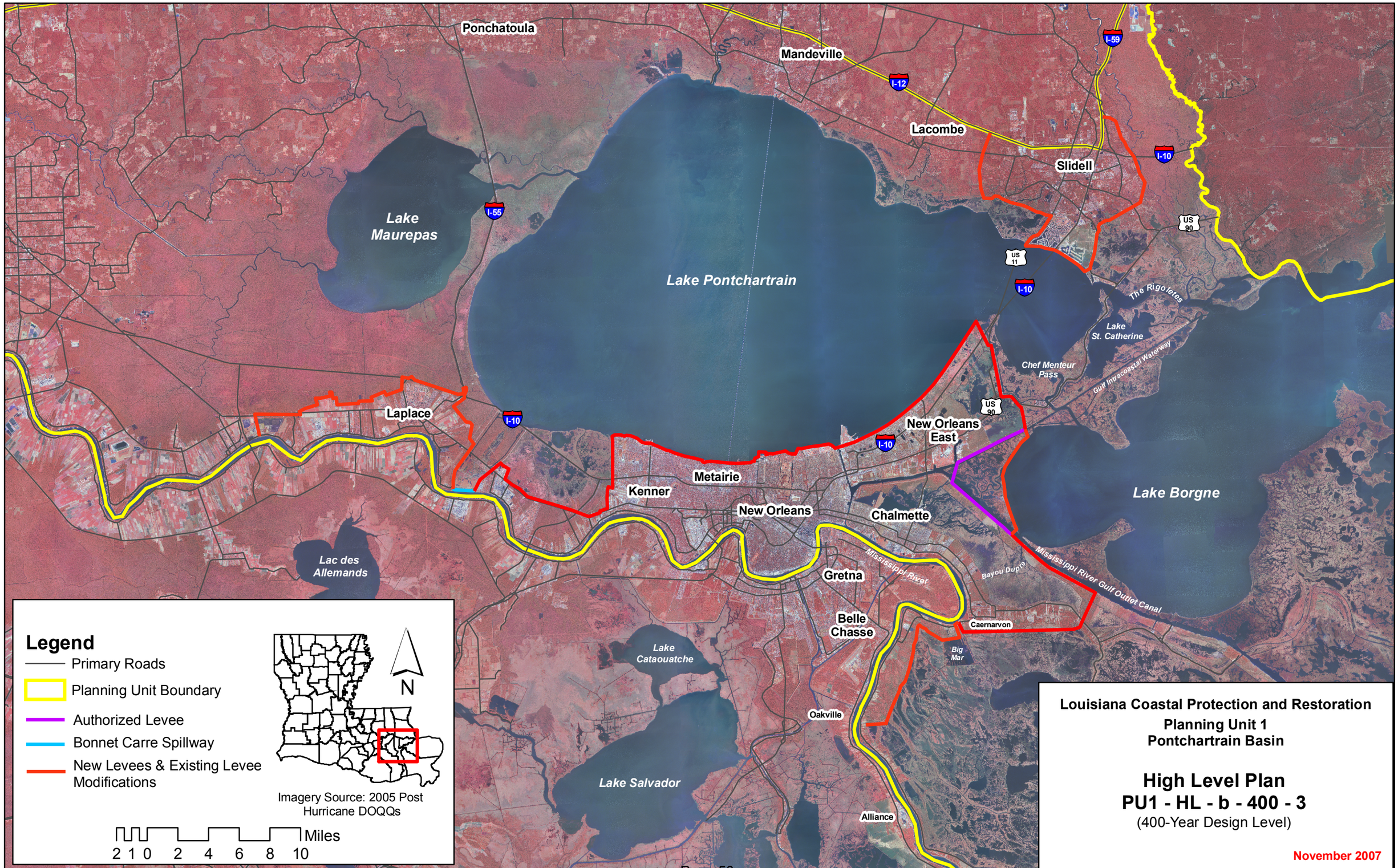
Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
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	4.4	12.2	13.5	14.0	13.9	12.0	4.4	14.8	13.5	16.6	13.9
Laplace2	8.5	4.4	11.0	13.5	12.8	13.9	11.1	4.4	13.6	13.5	15.4	13.9
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	0.4	25.3	11.3	30.0	18.0	22.2	0.4	31.9	11.3	38.7	18.0
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	4.4	8.2	13.5	9.4	13.9	8.9	4.4	10.8	13.5	12.0	13.9
STJO_8c	9.4	4.4	12.2	13.5	14.0	13.9	12.0	4.4	14.8	13.5	16.6	13.9
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	4.2	16.2	16.0	18.2	16.0	17.1	4.2	22.3	16.0	24.9	16.0
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

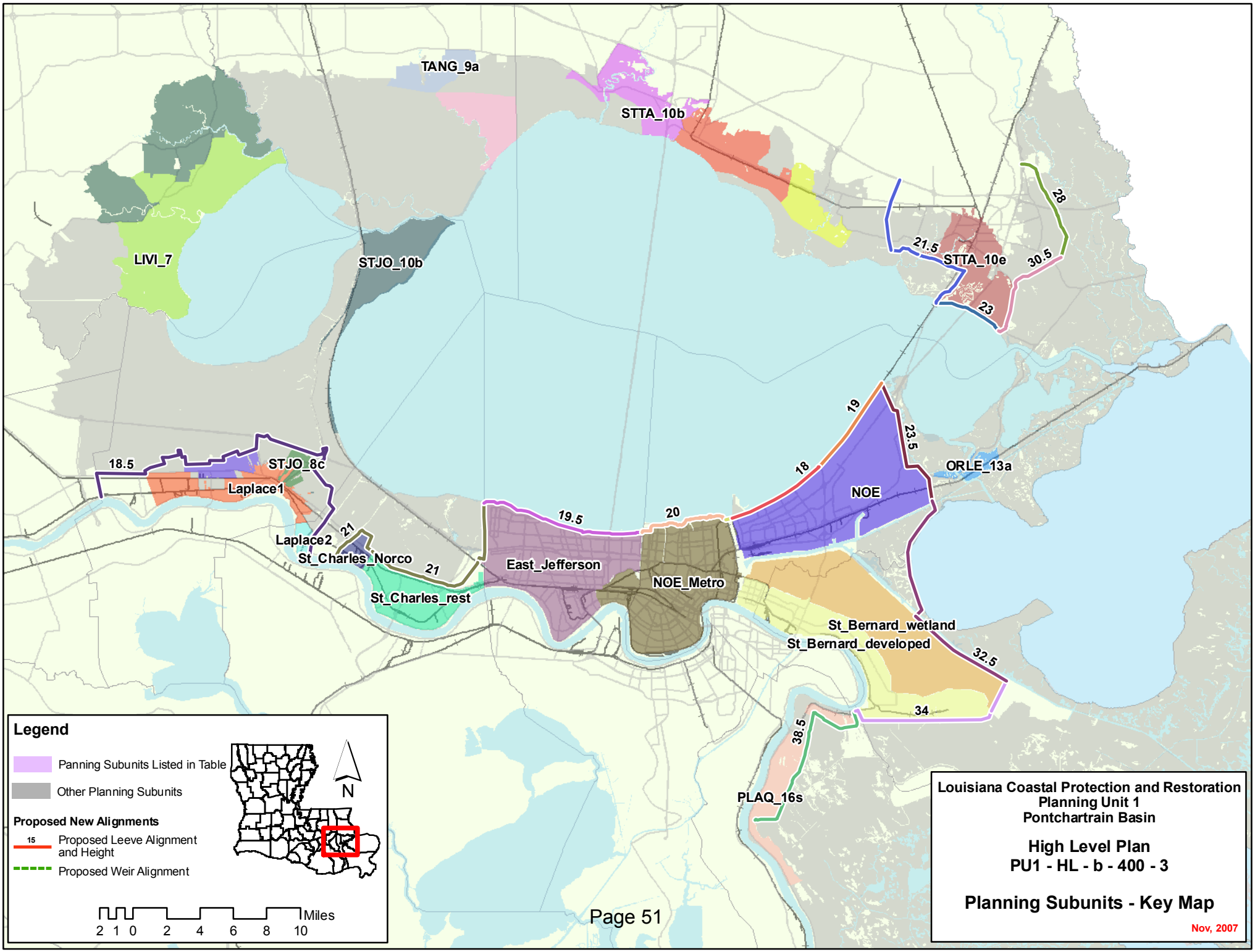
Evaluation Parameters					
	Confidence Level:	90%	Levee Design:	No Friction Waves	
	Future Sea Level Rise:	High	Levee Overtopping:	No Friction Waves	

Planning Unit:	1	**Alt. No.**	PU1-HL-b-400-3	**Category**	Coastal Restoration + Structural Measures
Alternative Description:	Maintain coast with coastal restoration and build high level plan providing 400-year design level of risk reduction to Southshore of Lake Pontchartrain, LaPlace and Slidell.				
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**		51,489	1,178,484	913,544	4,074	245,111	243	140	48
	Mean	53.94	53,975	1,375,076	1,119,100	4,820	297,730	273	143	50
	High		58,018	1,740,945	1,491,314	6,260	396,399	303	143	51
Scenario 2	**Low**		51,944	1,213,640	986,760	4,307	266,783	243	133	45
	Mean	54.35	54,826	1,432,557	1,199,986	5,040	318,161	273	141	49
	High		59,057	1,865,446	1,826,456	7,092	472,967	303	143	51
Scenario 3	**Low**		43,051	1,089,055	596,350	3,173	180,038	243	140	48
	Mean	53.94	45,528	1,277,069	766,668	3,856	225,926	273	143	50
	High		49,242	1,625,816	1,106,918	5,302	321,310	303	143	51
Scenario 4	**Low**		43,344	1,121,766	651,431	3,340	195,841	243	133	45
	Mean	54.35	46,119	1,328,206	832,319	4,046	243,851	273	141	49
	High		49,952	1,746,122	1,388,230	5,929	380,702	303	143	51

Other Metric Results							
Construction Time (years)	16	**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)	-5,661		214,687	220,284			
Indirect Impacts	-1	**PV Cost of Coastal Component ($ Billions)**				N/A	N/A
Spatial Integrity	0.478		10.67	10.90			
		PV Cost of Structural Component ($ Billions)	43.27	43.45			


Ponchatoula
Mandeville
Lacombe
Slidell
Lake Maurepas
Lake Pontchartrain
Laplace
Kenner
Metairie
New Orleans
New Orleans East
Chalmette
Gretna
Belle Chasse
Caernarvon
Oakville
Alliance
Lake Borgne
Lake Cataouatche
Lake Salvador
Lac des Allemands
Chef Menteur Pass
Lake St. Catherine
The Rigolets
Gulf Intracoastal Waterway
Mississippi River
Bayou Dupre
Mississippi River Gulf Outlet Canal
Big Mar
I-59
I-12
I-10
I-55
US 90
US 11
Legend
Primary Roads
Planning Unit Boundary
Authorized Levee
Bonnet Carre Spillway
New Levees & Existing Levee Modifications
N
Imagery Source: 2005 Post Hurricane DOQQs
Miles
2 1 0 2 4 6 8 10
Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin
High Level Plan
PU1 - HL - b - 400 - 3
(400-Year Design Level)
November 2007


TANG_9a
STTA_10b
LIVI_7
STJO_10b
STTA_10e
28
21.5
30.5
23
19
23.5
18
ORLE_13a
NOE
18.5
STJO_8c
Laplace1
19.5
20
Laplace2
21
St_Charles_Norco
21
East_Jefferson
NOE_Metro
St_Charles_rest
St_Bernard_wetland
St_Bernard_developed
32.5
34
38.5
PLAQ_16s
Legend
Panning Subunits Listed in Table
Other Planning Subunits
Proposed New Alignments
15
Proposed Leeve Alignment and Height
Proposed Weir Alignment
N
Miles
2 1 0 2 4 6 8 10
Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin
High Level Plan
PU1 - HL - b - 400 - 3
Planning Subunits - Key Map
Nov, 2007

Alternative: PU1-HL-b-400-3

Water Surface Elevations (feet - NAVD88 2004.65)

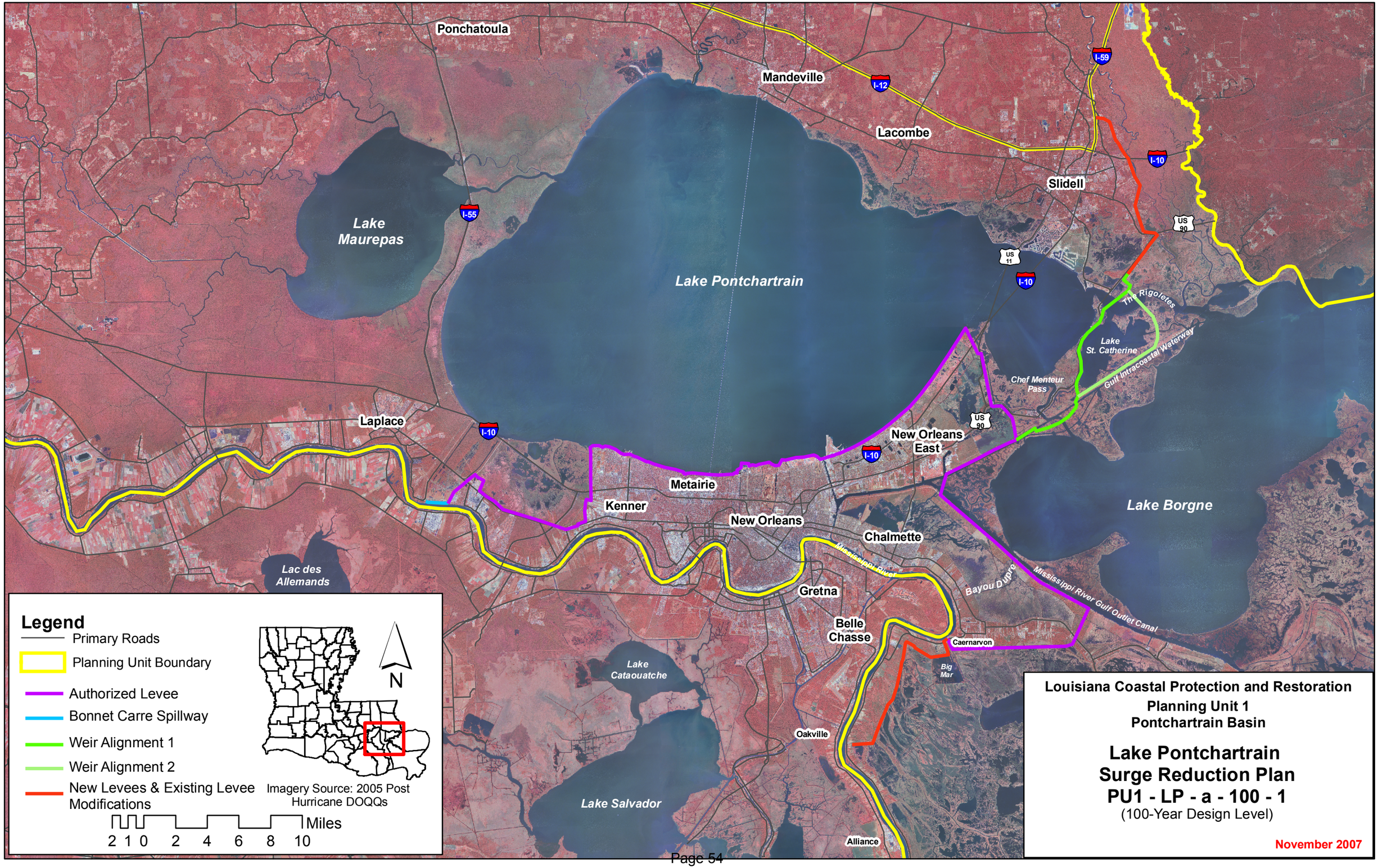
Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
East_Jefferson	-5.1	-5.2	-1.3	-5.0	4.4	-4.4	-2.6	-5.2	16.0	-5.0	16.0	-4.4
Laplace1	9.4	4.1	12.2	4.5	14.0	7.8	12.0	4.1	14.8	4.5	16.6	7.8
Laplace2	8.5	4.1	11.0	4.5	12.8	7.8	11.1	4.1	13.6	4.5	15.4	7.8
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	-6.0	0.5	-5.7	10.9	-4.4	-0.1	-6.0	16.0	-5.7	16.0	-4.4
NOE_Metro	-4.3	-4.3	-3.9	-4.2	-2.1	-3.4	-4.2	-4.3	16.0	-4.2	16.0	-3.4
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	-0.1	25.3	0.4	30.0	2.0	22.2	-0.1	31.9	0.4	38.7	2.0
St_Bernard_developed	-0.1	-0.4	4.3	-0.1	10.6	0.8	2.3	-0.4	16.0	-0.1	16.0	0.8
St_Bernard_wetland	2.4	2.3	5.2	2.5	10.6	2.8	4.5	2.3	16.0	2.5	16.0	2.8
St_Charles_Norco	4.4	3.4	16.0	4.5	16.0	4.5	11.5	3.4	17.3	4.5	18.6	4.5
St_Charles_rest	2.1	1.9	16.0	2.1	16.0	4.2	11.5	1.9	17.3	2.1	18.6	4.2
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	4.1	8.2	4.5	9.4	7.8	8.9	4.1	10.8	4.5	12.0	7.8
STJO_8c	9.4	4.1	12.2	4.5	14.0	7.8	12.0	4.1	14.8	4.5	16.6	7.8
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	3.9	16.2	4.2	18.2	6.0	17.1	3.9	22.3	4.2	24.9	6.0
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

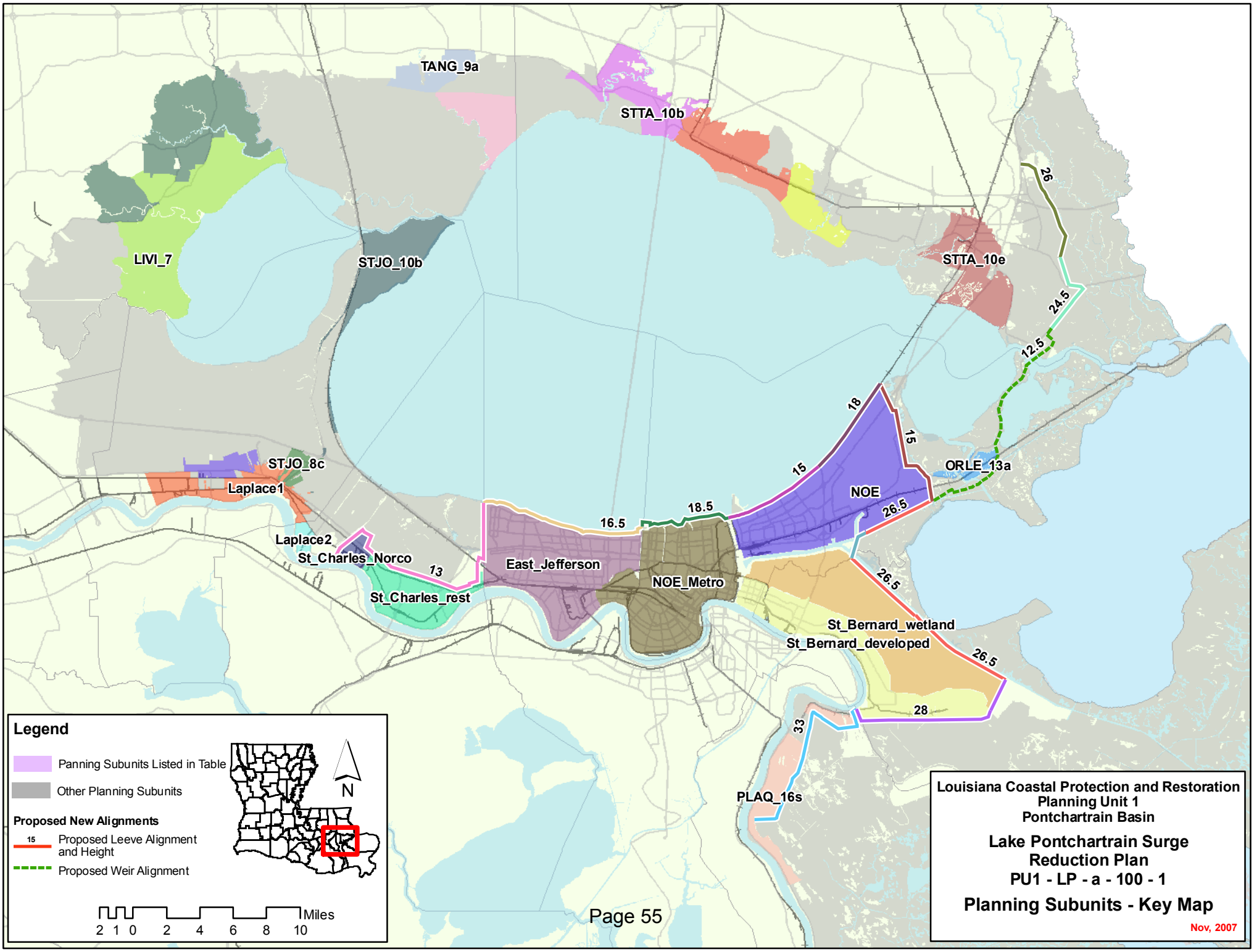
Evaluation Parameters					
	Confidence Level:	90%	Levee Design:	No Friction Waves	
	Future Sea Level Rise:	High	Levee Overtopping:	No Friction Waves	

Planning Unit:	1	**Alt. No.**	PU1-LP-a-100-1	**Category**	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration and construct barrier-weir and levees to reduce risk to the Lake Pontchartrain area. Raise upper Plaquemines levees to 100-year level of risk reduction.				
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**		52,634	1,192,975	1,049,149	4,510	280,221	201	127	43
	Mean	17.70	56,361	1,465,877	1,347,976	5,615	354,719	231	133	50
	High		61,868	1,984,972	1,882,365	7,639	491,282	261	140	51
Scenario 2	**Low**		53,670	1,250,152	1,145,096	4,794	305,740	201	123	40
	Mean	18.04	57,796	1,550,368	1,453,905	5,919	381,918	231	129	45
	High		63,330	2,126,943	2,213,301	8,442	566,306	261	136	51
Scenario 3	**Low**		44,169	1,139,286	651,457	3,434	200,288	201	127	43
	Mean	17.70	47,861	1,406,903	923,173	4,554	275,293	231	133	50
	High		53,021	1,906,326	1,425,486	6,587	408,318	261	140	51
Scenario 4	**Low**		44,921	1,197,139	742,090	3,714	226,510	201	123	40
	Mean	18.04	49,007	1,489,979	1,025,309	4,852	302,829	231	129	45
	High		54,183	2,051,530	1,706,448	7,242	470,981	261	136	51

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)	-980		214,687	220,284			
Indirect Impacts	-8	**PV Cost of Coastal Component ($ Billions)**				N/A	N/A
Spatial Integrity	0.478		10.67	10.90			
		PV Cost of Structural Component ($ Billions)	7.03	7.14			


Ponchatoula
Mandeville
Lacombe
Slidell
Lake Maurepas
Lake Pontchartrain
Laplace
New Orleans East
Metairie
Kenner
New Orleans
Chalmette
Gretna
Belle Chasse
Caernarvon
Big Mar
Oakville
Alliance
Lake Cataouatche
Lake Salvador
Lac des Allemands
Lake Borgne
Lake St. Catherine
Chef Menteur Pass
The Rigolets
Gulf Intracoastal Waterway
Mississippi River
Bayou Dupre
Mississippi River Gulf Outlet Canal
I-59
I-12
I-10
I-55
US 90
US 11
Legend
Primary Roads
Planning Unit Boundary
Authorized Levee
Bonnet Carre Spillway
Weir Alignment 1
Weir Alignment 2
New Levees & Existing Levee Modifications
N
Imagery Source: 2005 Post Hurricane DOQQs
Miles
2 1 0 2 4 6 8 10
Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin
Lake Pontchartrain
Surge Reduction Plan
PU1 - LP - a - 100 - 1
(100-Year Design Level)
November 2007


TANG_9a
STTA_10b
LIVI_7
STJO_10b
STTA_10e
26
24.5
12.5
18
15
15
ORLE_13a
NOE
26.5
STJO_8c
Laplace1
16.5
18.5
Laplace2
St_Charles_Norco
13
East_Jefferson
NOE_Metro
St_Charles_rest
26.5
St_Bernard_wetland
St_Bernard_developed
26.5
28
33
PLAQ_16s
Legend
Panning Subunits Listed in Table
Other Planning Subunits
Proposed New Alignments
15
Proposed Leeve Alignment and Height
Proposed Weir Alignment
N
Miles
2 1 0 2 4 6 8 10
Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin
Lake Pontchartrain Surge Reduction Plan
PU1 - LP - a - 100 - 1
Planning Subunits - Key Map
Nov, 2007

Alternative: PU1-LP-a-100-1
Water Surface Elevations (feet - NAVD88 2004.65)

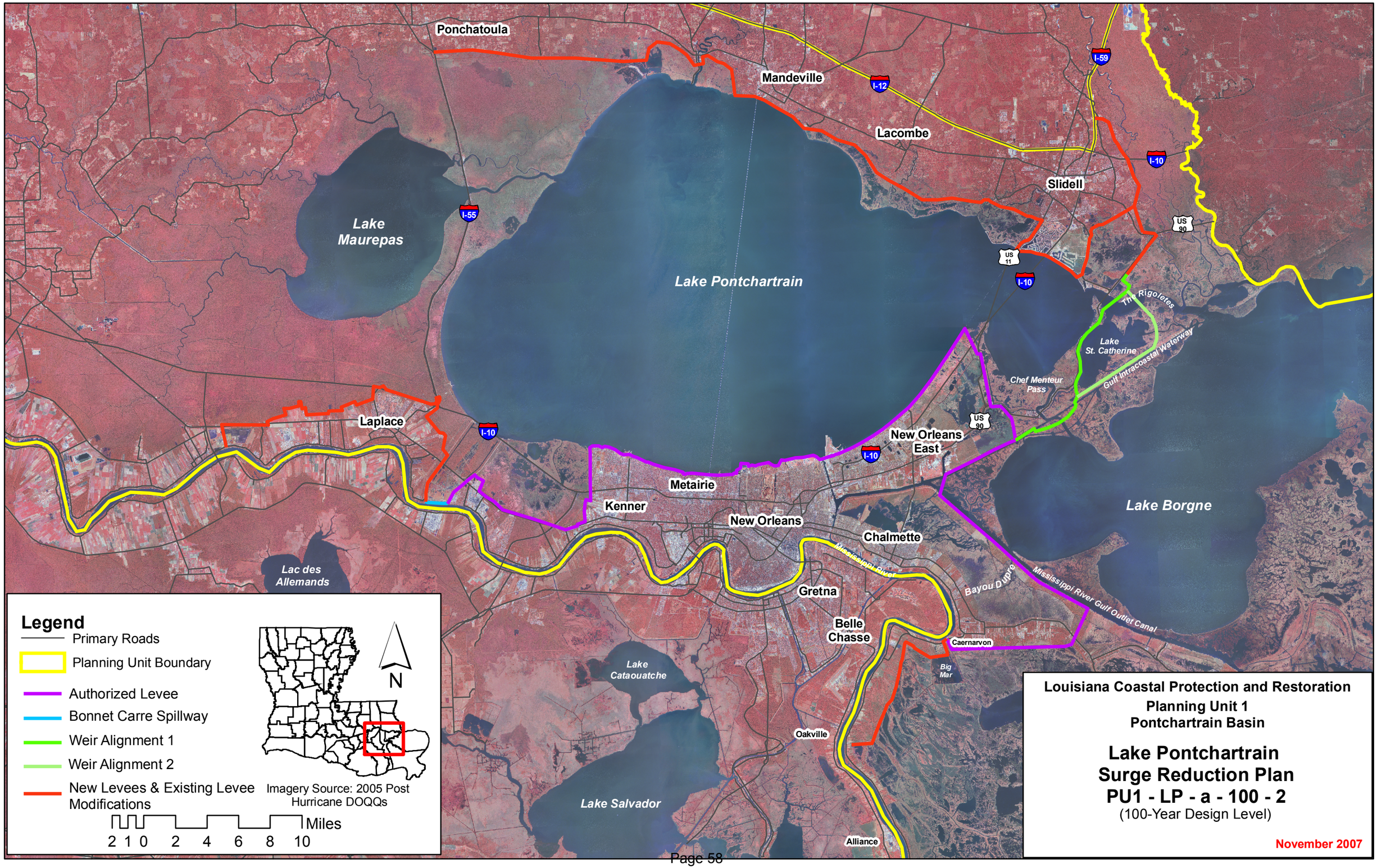
Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
East_Jefferson	-5.1	-5.2	-1.3	-0.8	4.4	5.7	-2.6	-5.2	16.0	-0.8	16.0	5.7
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	3.8	9.7	5.2	11.1	6.1	11.2	6.4	13.7	7.8	15.2	8.7
LIVI_7	7.5	5.5	9.7	6.9	10.9	7.8	10.1	8.1	12.3	9.5	13.5	10.4
NOE	-5.8	-5.9	0.5	-3.7	10.9	1.7	-0.1	-5.9	16.0	-3.7	16.0	1.7
NOE_Metro	-4.3	-4.3	-3.9	-4.3	-2.1	-2.0	-4.2	-4.3	16.0	-4.3	16.0	-2.0
ORLE_13a	14.6	16.4	17.8	21.8	19.4	26.5	19.0	19.0	22.2	24.4	24.0	29.1
PLAQ_16s	19.2	17.8	25.3	25.7	30.0	29.9	22.2	20.4	31.9	28.3	38.7	32.5
St_Bernard_developed	-0.1	-0.1	4.3	4.8	10.6	12.5	2.3	-0.1	16.0	4.8	16.0	12.5
St_Bernard_wetland	2.4	2.4	5.2	5.4	10.6	12.5	4.5	2.4	16.0	5.4	16.0	12.5
St_Charles_Norco	4.4	4.2	16.0	13.0	16.0	13.5	11.5	4.2	17.3	13.0	18.6	13.5
St_Charles_rest	2.1	2.1	16.0	13.0	16.0	13.5	11.5	2.1	17.3	13.0	18.6	13.5
STJO_10b	10.6	8.9	12.9	11.4	14.1	12.8	13.2	11.5	15.5	14.0	16.7	15.4
STJO_5b	6.3	2.6	8.2	3.8	9.4	4.6	8.9	5.2	10.8	6.4	12.0	7.2
STJO_8c	9.4	6.1	12.2	10.5	14.0	13.6	12.0	8.7	14.8	13.1	16.6	16.2
STTA_10b	11.0	11.5	13.1	12.5	14.3	13.3	13.6	14.1	15.7	15.1	16.9	15.9
STTA_10e	12.2	8.8	16.2	13.1	18.2	15.3	17.1	11.4	22.3	15.7	24.9	17.9
STTA_9a	10.4	8.0	12.7	9.4	14.0	10.4	13.0	10.6	15.3	12.0	16.6	13.0
STTA_9d	10.5	7.4	13.5	10.0	15.0	11.5	14.2	10.0	18.0	12.6	20.2	14.1
TANG_10b	11.0	7.7	13.6	10.6	15.0	12.1	14.4	10.3	18.0	13.2	19.9	14.7
TANG_9a	10.1	6.9	12.3	8.3	13.5	9.3	13.9	9.5	17.6	10.9	19.5	11.9

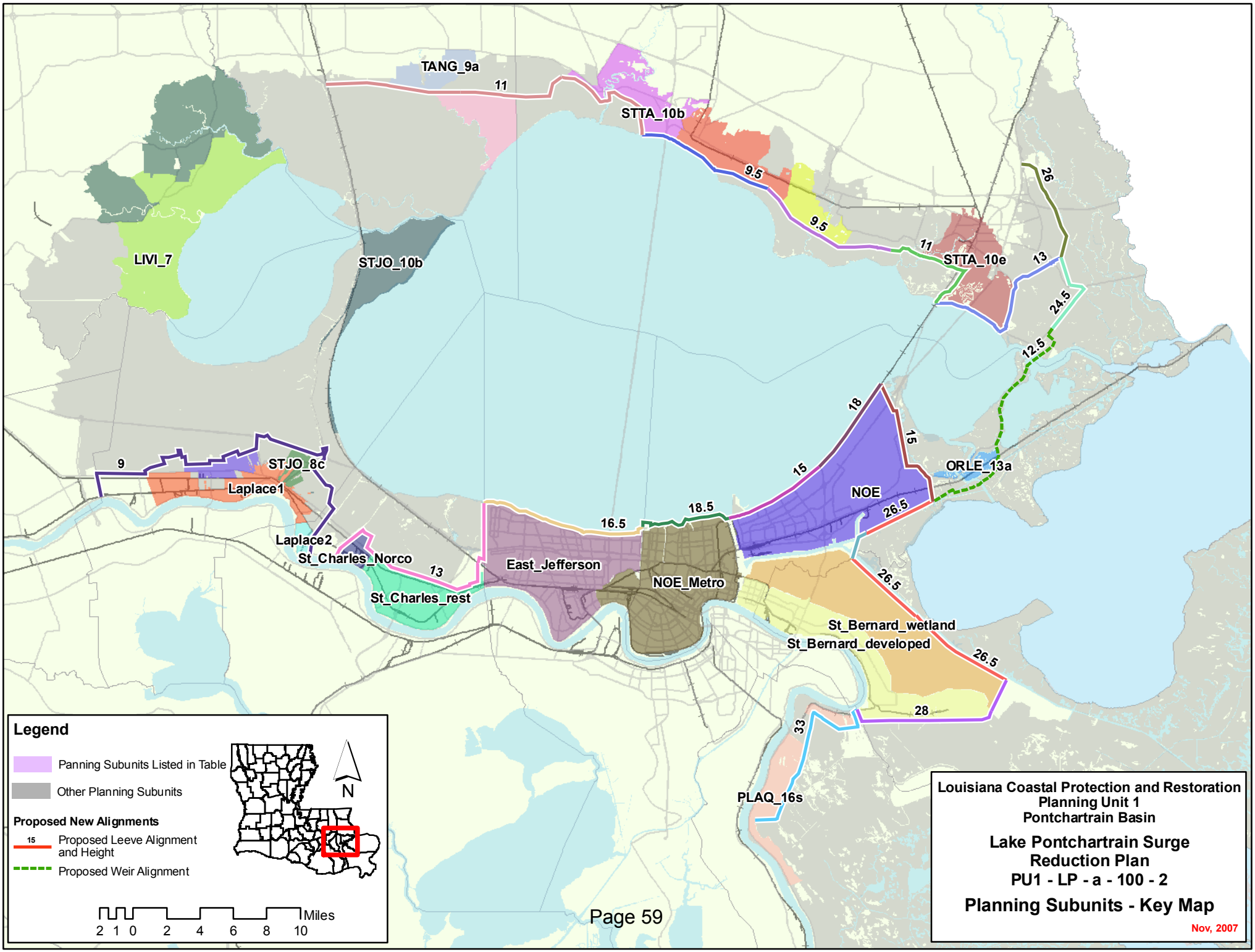
Evaluation Parameters					
	Confidence Level:	90%	Levee Design:	No Friction Waves	
	Future Sea Level Rise:	High	Levee Overtopping:	No Friction Waves	

Planning Unit:	1	Alt. No.	PU1-LP-a-100-2	Category	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration and construct barrier-weir and levees to reduce risk to the Lake Pontchartrain area. Raise upper Plaquemines levees and construct new levees around Laplace and across the Northshore to the 100-year level of risk reduction.				
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		50,248	1,114,846	877,839	3,947	237,359	201	127	43
	Mean	32.96	53,120	1,347,211	1,115,811	4,838	297,330	231	133	50
	High		57,790	1,811,252	1,608,571	6,682	423,392	261	143	51
Scenario 2	Low		50,608	1,141,551	920,755	4,077	249,267	201	123	40
	Mean	33.33	53,788	1,391,886	1,178,304	5,005	312,889	231	128	45
	High		58,558	1,912,337	1,879,054	7,342	484,437	261	138	51
Scenario 3	Low		42,240	1,036,049	563,050	3,039	171,999	201	127	43
	Mean	32.96	45,138	1,259,144	775,974	3,893	227,958	231	133	50
	High		49,364	1,694,216	1,224,012	5,680	345,752	261	143	51
Scenario 4	Low		42,481	1,061,368	601,284	3,145	182,061	201	123	40
	Mean	33.33	45,621	1,299,026	826,093	4,033	241,265	231	128	45
	High		49,910	1,791,597	1,451,722	6,178	393,075	261	138	51

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)	-4,541		214,687	220,284		N/A	N/A
Indirect Impacts	-8	PV Cost of Coastal Component ($ Billions)	10.67	10.90			
Spatial Integrity	0.478						
		PV Cost of Structural Component ($ Billions)	22.29	22.43			


Ponchatoula
Mandeville
Lacombe
Slidell
Lake Maurepas
Lake Pontchartrain
Laplace
Metairie
Kenner
New Orleans
New Orleans East
Chalmette
Gretna
Belle Chasse
Caernarvon
Oakville
Alliance
Lake Borgne
Lake St. Catherine
Chef Menteur Pass
The Rigolets
Gulf Intracoastal Waterway
Bayou Dupre
Mississippi River Gulf Outlet Canal
Mississippi River
Lake Cataouatche
Lake Salvador
Lac des Allemands
Big Mar
I-55
I-12
I-59
I-10
US 11
US 90
Legend
Primary Roads
Planning Unit Boundary
Authorized Levee
Bonnet Carre Spillway
Weir Alignment 1
Weir Alignment 2
New Levees & Existing Levee Modifications
Imagery Source: 2005 Post Hurricane DOQQs
N
Miles
2 1 0 2 4 6 8 10
Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin
Lake Pontchartrain
Surge Reduction Plan
PU1 - LP - a - 100 - 2
(100-Year Design Level)
November 2007


TANG_9a
11
STTA_10b
9.5
9.5
26
11
STTA_10e
13
24.5
12.5
LIVI_7
STJO_10b
18
15
15
ORLE_13a
NOE
26.5
9
STJO_8c
Laplace1
16.5
18.5
Laplace2
St_Charles_Norco
13
East_Jefferson
NOE_Metro
St_Charles_rest
26.5
St_Bernard_wetland
St_Bernard_developed
26.5
28
33
PLAQ_16s
Legend
Panning Subunits Listed in Table
Other Planning Subunits
Proposed New Alignments
15
Proposed Leeve Alignment and Height
Proposed Weir Alignment
N
Miles
2 1 0 2 4 6 8 10
Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin
Lake Pontchartrain Surge Reduction Plan
PU1 - LP - a - 100 - 2
Planning Subunits - Key Map
Nov, 2007

Alternative: PU1-LP-a-100-2
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	-5.2	-1.3	-0.8	4.4	5.7	-2.6	-5.2	16.0	-0.8	16.0	5.7
Laplace1	9.4	4.6	12.2	9.0	14.0	10.9	12.0	4.6	14.8	9.0	16.6	10.9
Laplace2	8.5	4.6	11.0	9.0	12.8	10.9	11.1	4.6	13.6	9.0	15.4	10.9
LIVI_6	7.3	3.8	9.7	5.2	11.1	6.1	11.2	6.4	13.7	7.8	15.2	8.7
LIVI_7	7.5	5.5	9.7	6.9	10.9	7.8	10.1	8.1	12.3	9.5	13.5	10.4
NOE	-5.8	-5.9	0.5	-3.7	10.9	1.7	-0.1	-5.9	16.0	-3.7	16.0	1.7
NOE_Metro	-4.3	-4.3	-3.9	-4.3	-2.1	-2.0	-4.2	-4.3	16.0	-4.3	16.0	-2.0
ORLE_13a	14.6	16.4	17.8	21.8	19.4	26.5	19.0	19.0	22.2	24.4	24.0	29.1
PLAQ_16s	19.2	0.5	25.3	16.4	30.0	18.0	22.2	0.5	31.9	16.4	38.7	18.0
St_Bernard_developed	-0.1	-0.1	4.3	4.8	10.6	12.5	2.3	-0.1	16.0	4.8	16.0	12.5
St_Bernard_wetland	2.4	2.4	5.2	5.4	10.6	12.5	4.5	2.4	16.0	5.4	16.0	12.5
St_Charles_Norco	4.4	4.2	16.0	13.0	16.0	13.5	11.5	4.2	17.3	13.0	18.6	13.5
St_Charles_rest	2.1	2.1	16.0	13.0	16.0	13.5	11.5	2.1	17.3	13.0	18.6	13.5
STJO_10b	10.6	8.9	12.9	11.4	14.1	12.8	13.2	11.5	15.5	14.0	16.7	15.4
STJO_5b	6.3	4.6	8.2	9.0	9.4	10.9	8.9	4.6	10.8	9.0	12.0	10.9
STJO_8c	9.4	4.6	12.2	9.0	14.0	10.9	12.0	4.6	14.8	9.0	16.6	10.9
STTA_10b	11.0	4.3	13.1	9.5	14.3	9.5	13.6	4.3	15.7	9.5	16.9	9.5
STTA_10e	12.2	4.1	16.2	11.0	18.2	11.2	17.1	4.1	22.3	11.0	24.9	11.2
STTA_9a	10.4	4.3	12.7	9.5	14.0	9.5	13.0	4.3	15.3	9.5	16.6	9.5
STTA_9d	10.5	7.4	13.5	10.0	15.0	11.5	14.2	10.0	18.0	12.6	20.2	14.1
TANG_10b	11.0	7.7	13.6	10.6	15.0	12.1	14.4	10.3	18.0	13.2	19.9	14.7
TANG_9a	10.1	4.7	12.3	11.0	13.5	11.0	13.9	4.7	17.6	11.0	19.5	11.0

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