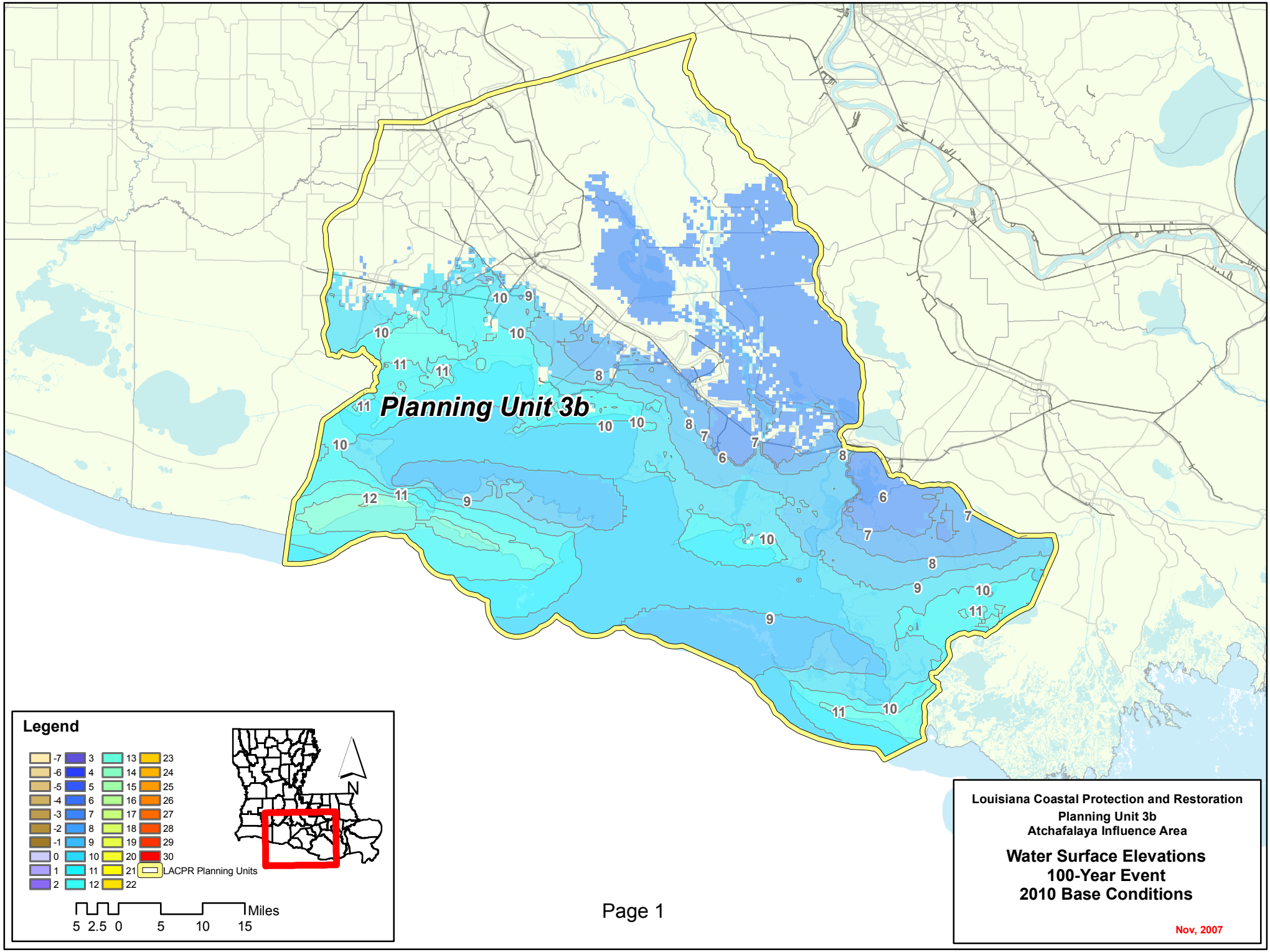
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LACPR Planning Units
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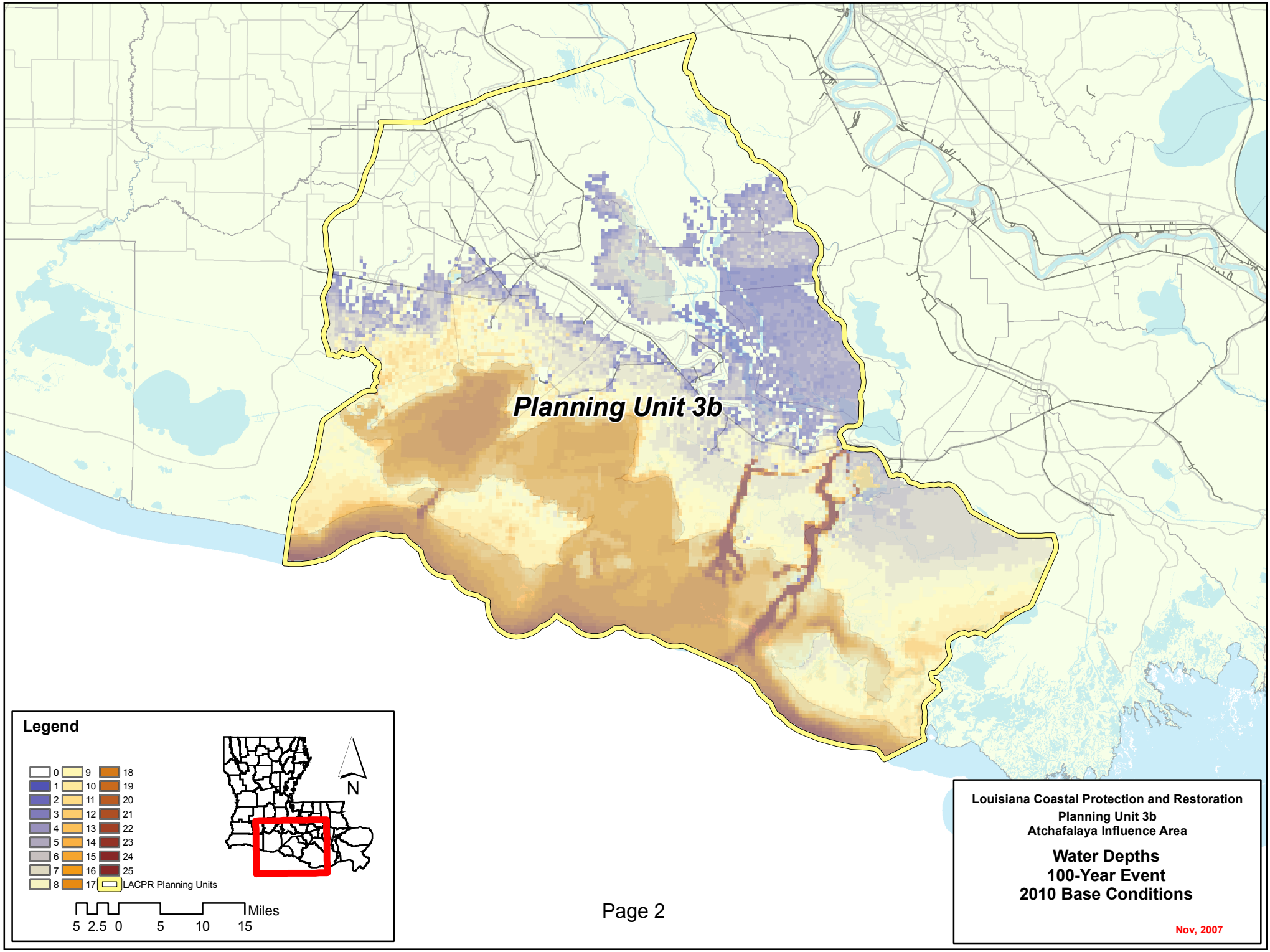
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Water Surface Elevations
100-Year Event
2010 Base Conditions
Nov, 2007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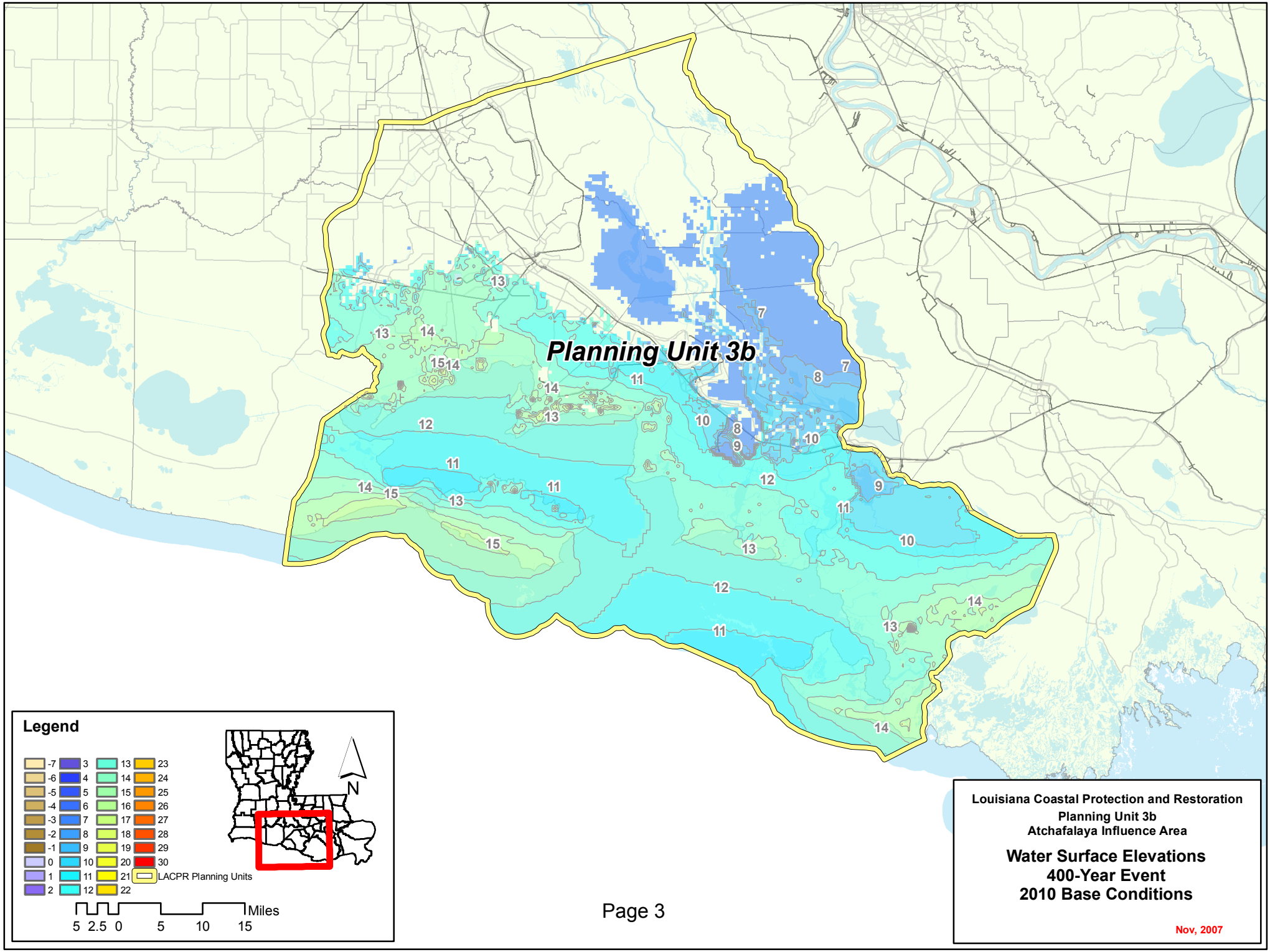
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Water Depths
100-Year Event
2010 Base Conditions
Nov, 2007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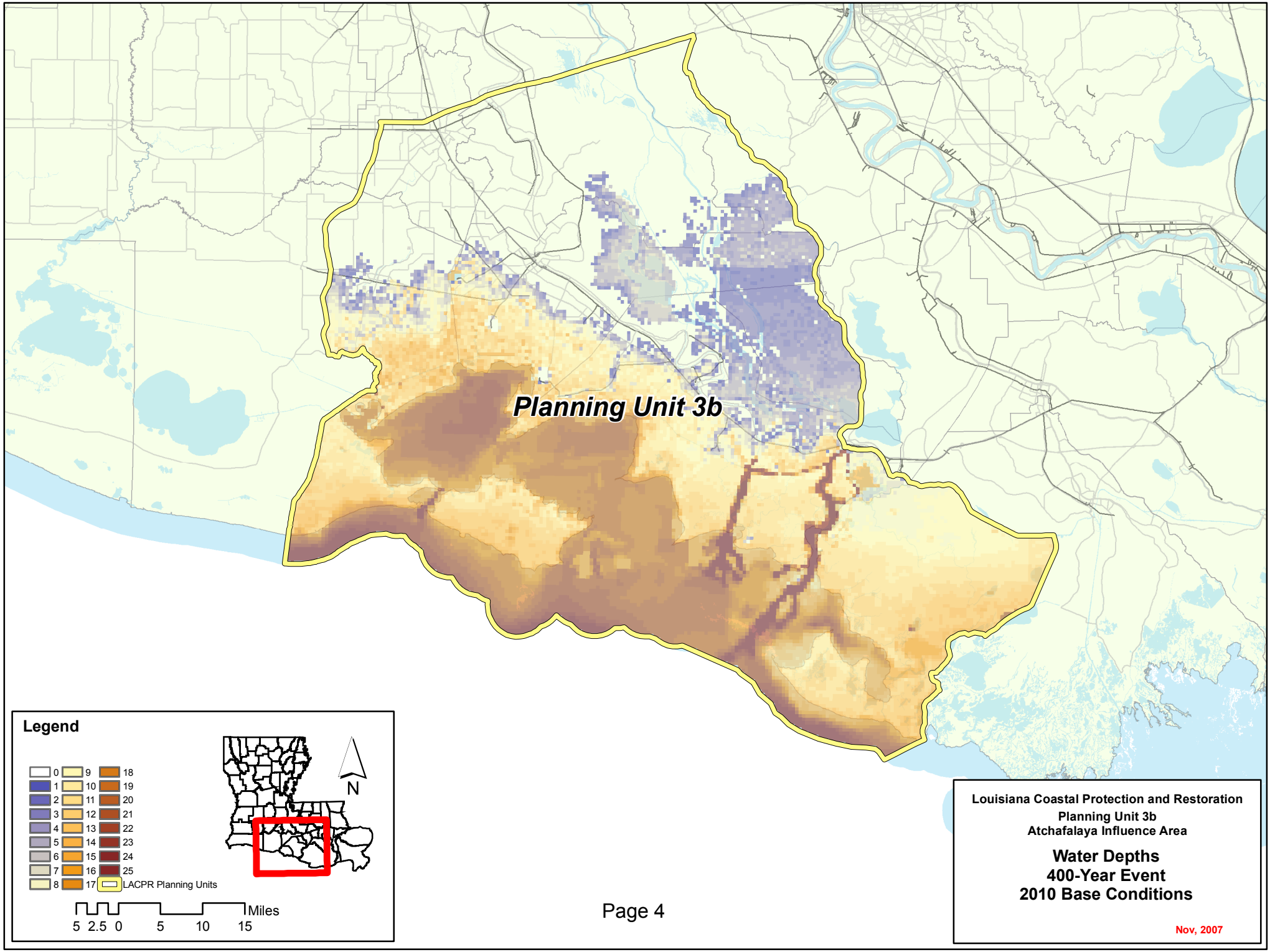
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Water Surface Elevations
400-Year Event
2010 Base Conditions
Nov, 2007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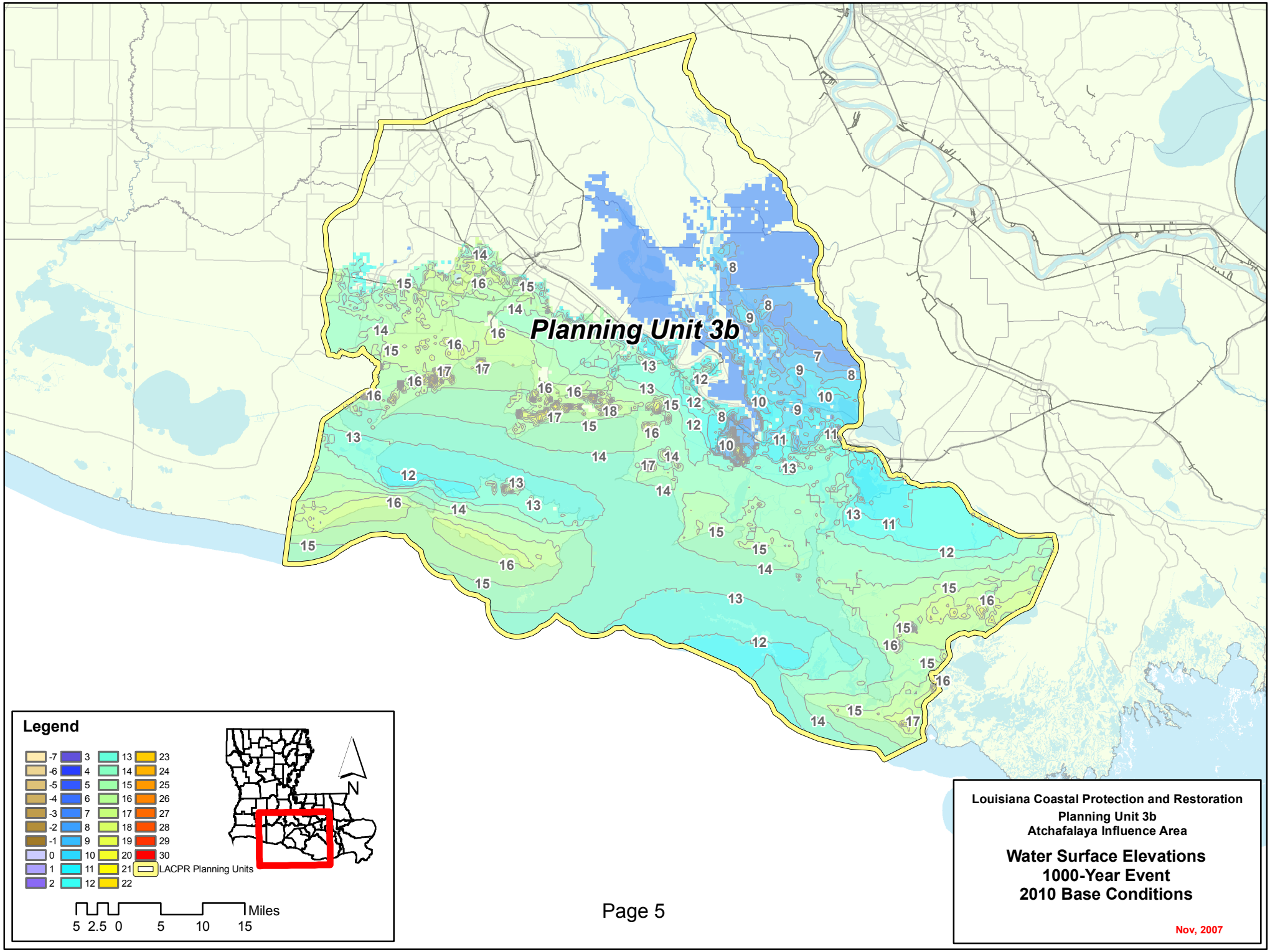
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Water Depths
400-Year Event
2010 Base Conditions
Nov, 2007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Louisiana Coastal Protection and Restoration
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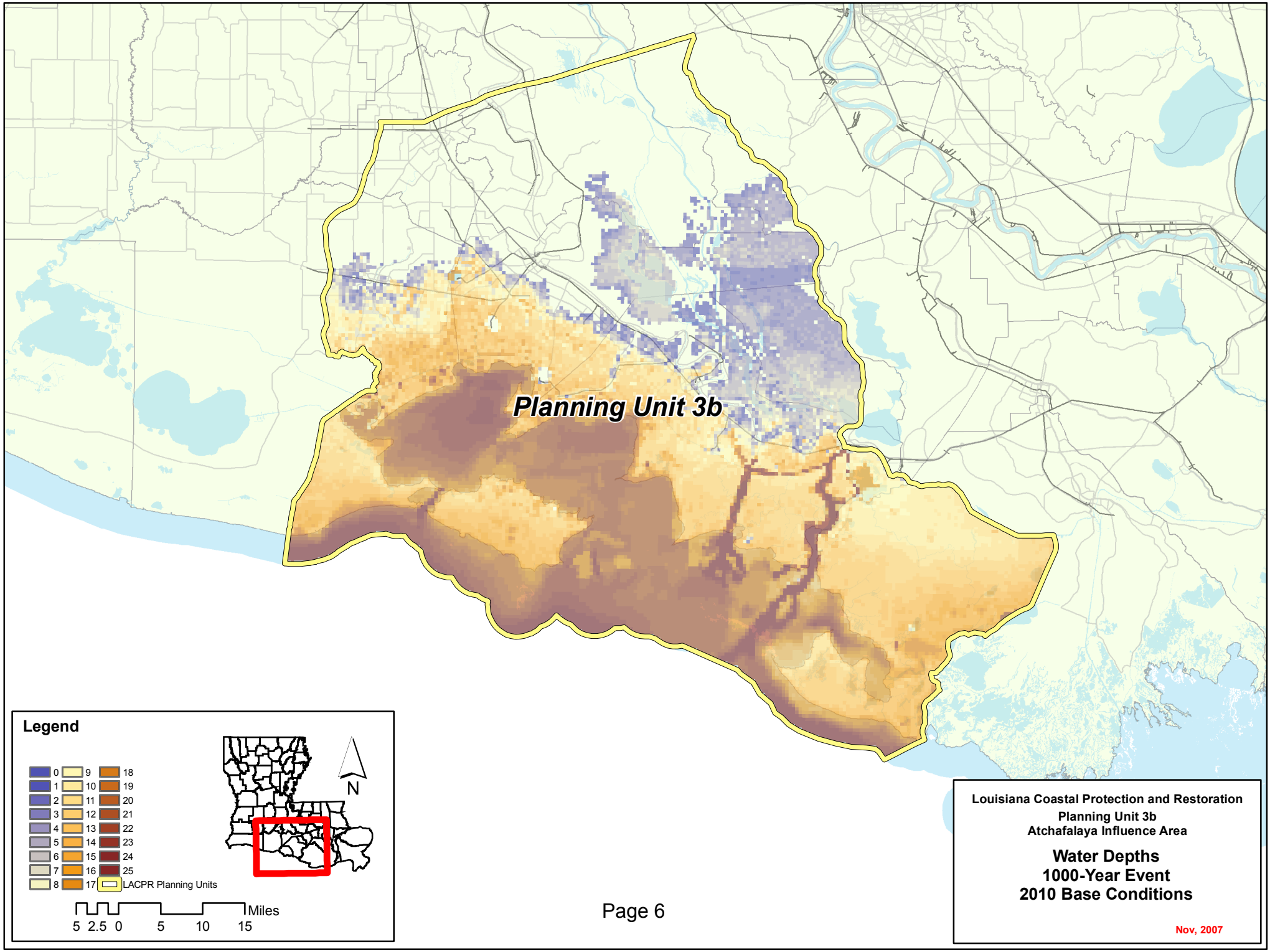
Atchafalaya Influence Area
Water Surface Elevations
1000-Year Event
2010 Base Conditions
Nov, 2007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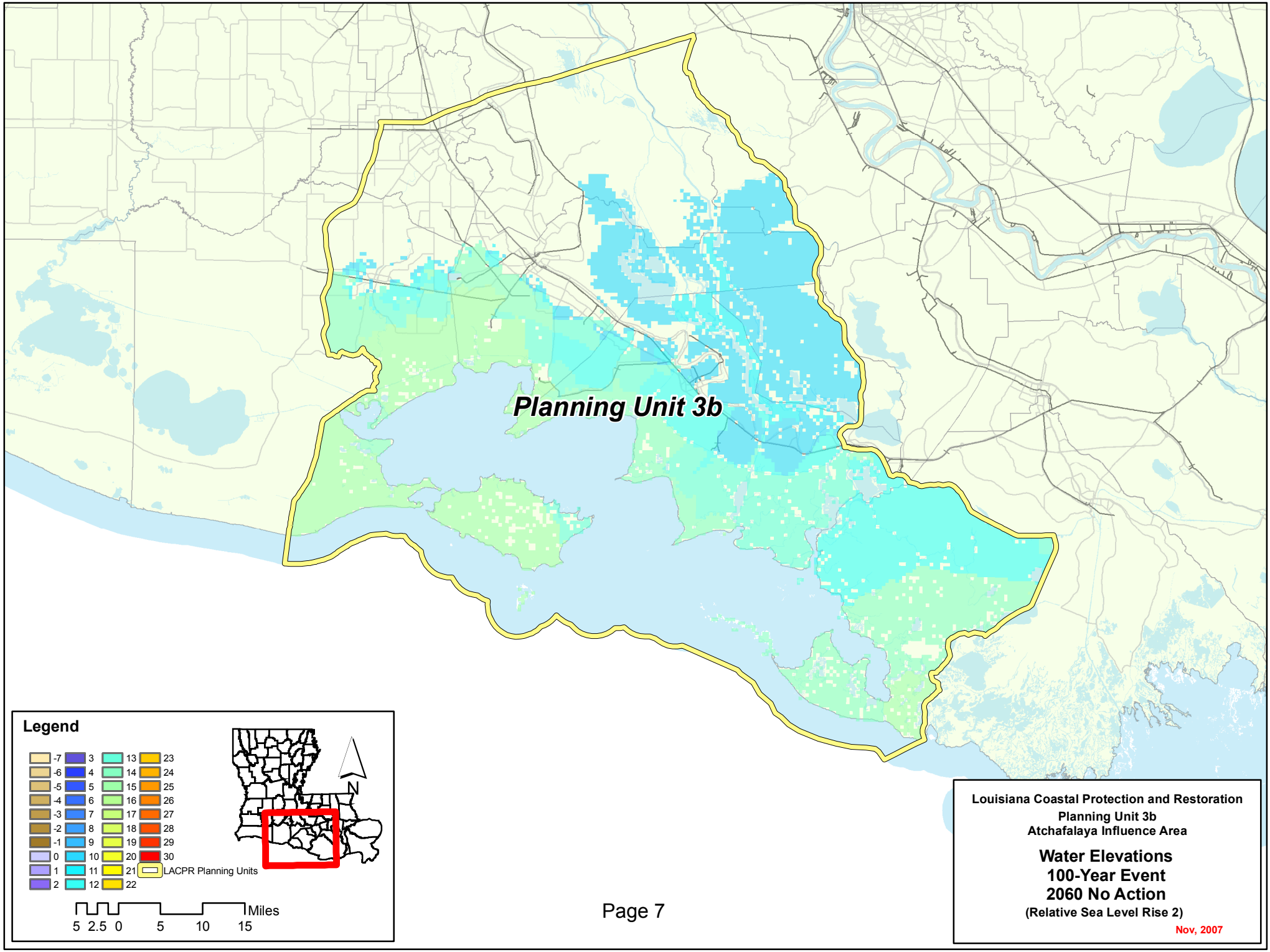
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Water Depths
1000-Year Event
2010 Base Conditions
Nov, 2007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LACPR Planning Units
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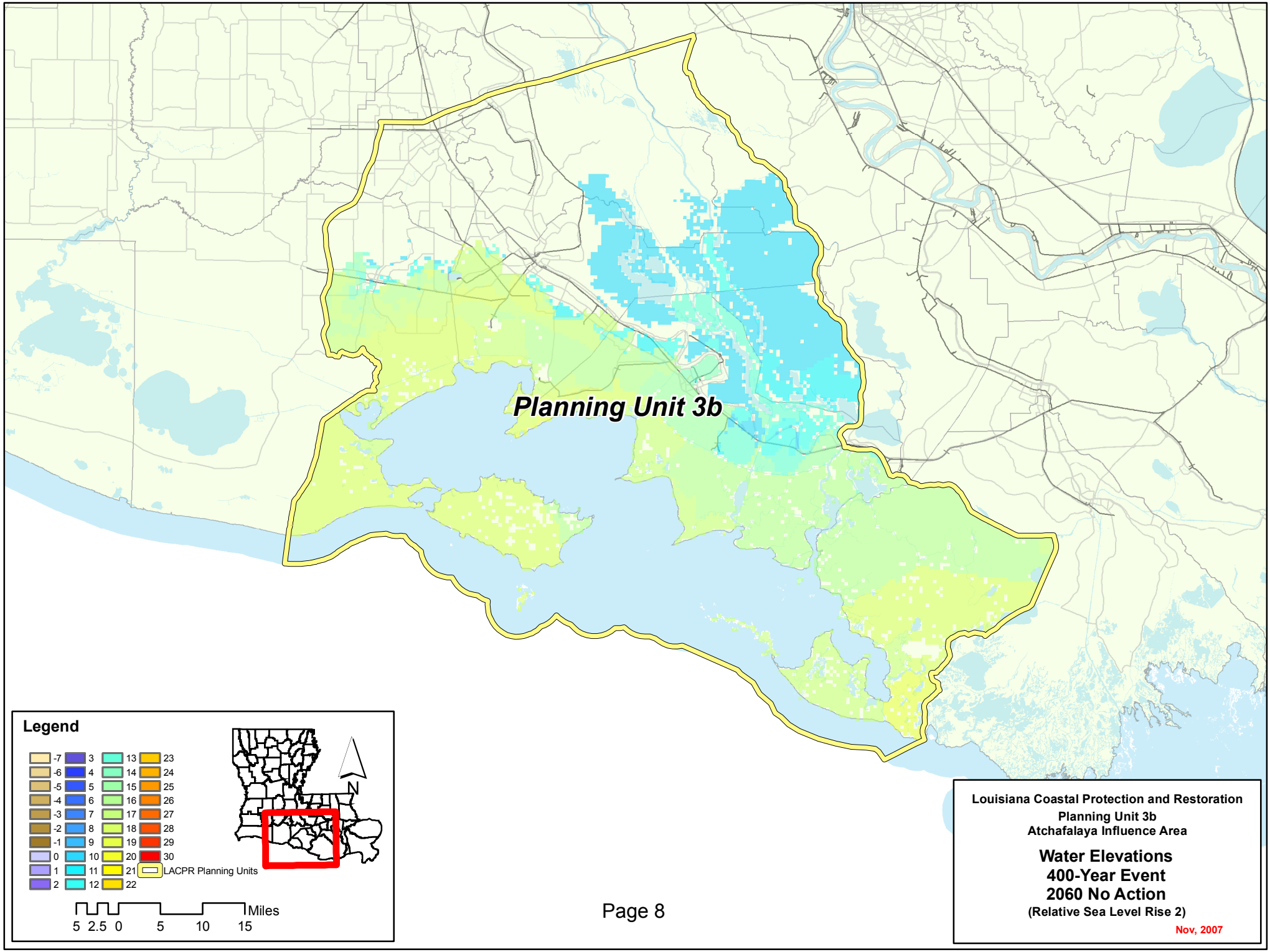
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Water Elevations
100-Year Event
2060 No Action
(Relative Sea Level Rise 2)
Nov, 2007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LACPR Planning Units
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Miles
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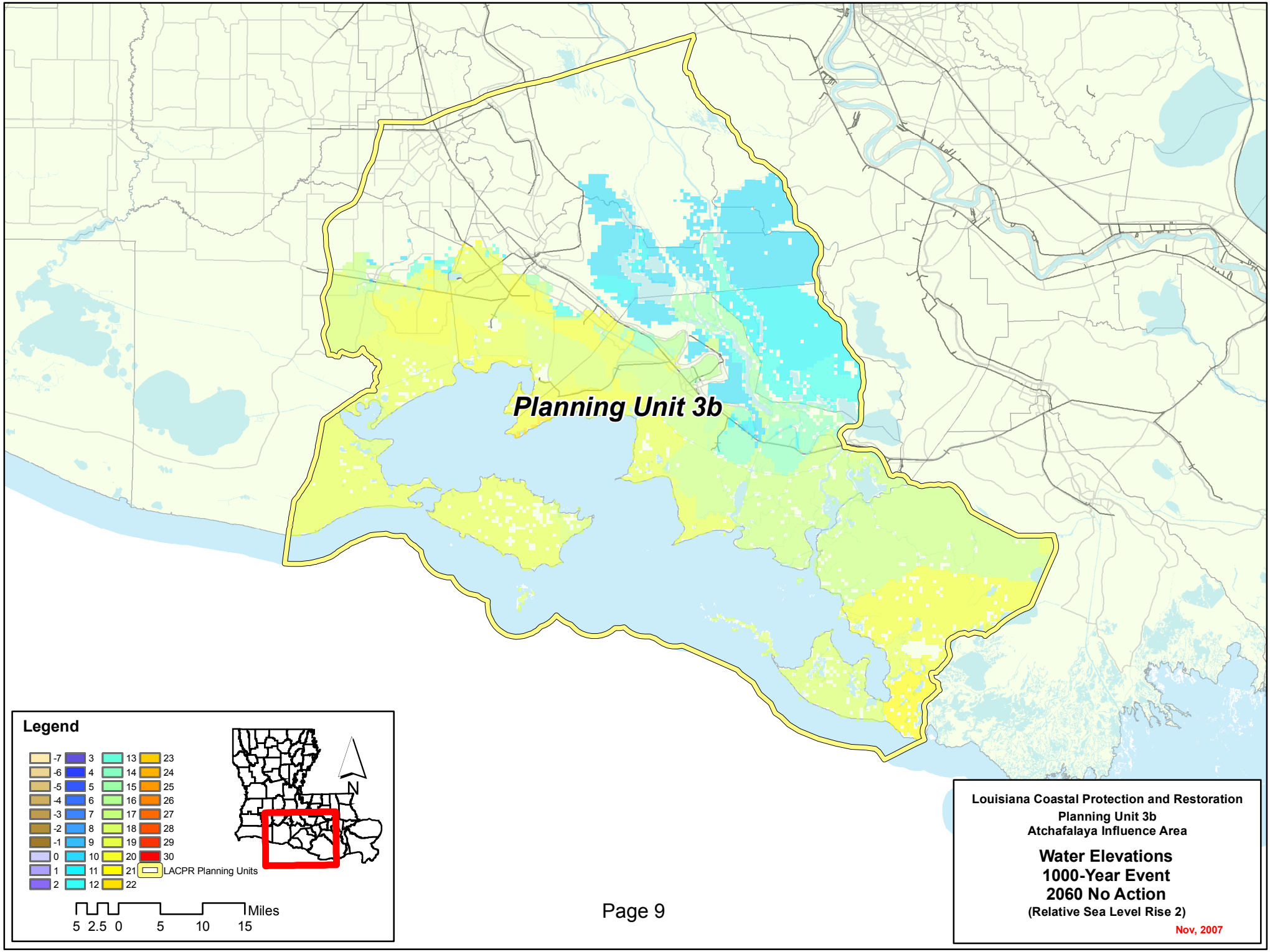
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Water Elevations
400-Year Event
2060 No Action
(Relative Sea Level Rise 2)
Nov, 2007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LACPR Planning Units
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Miles
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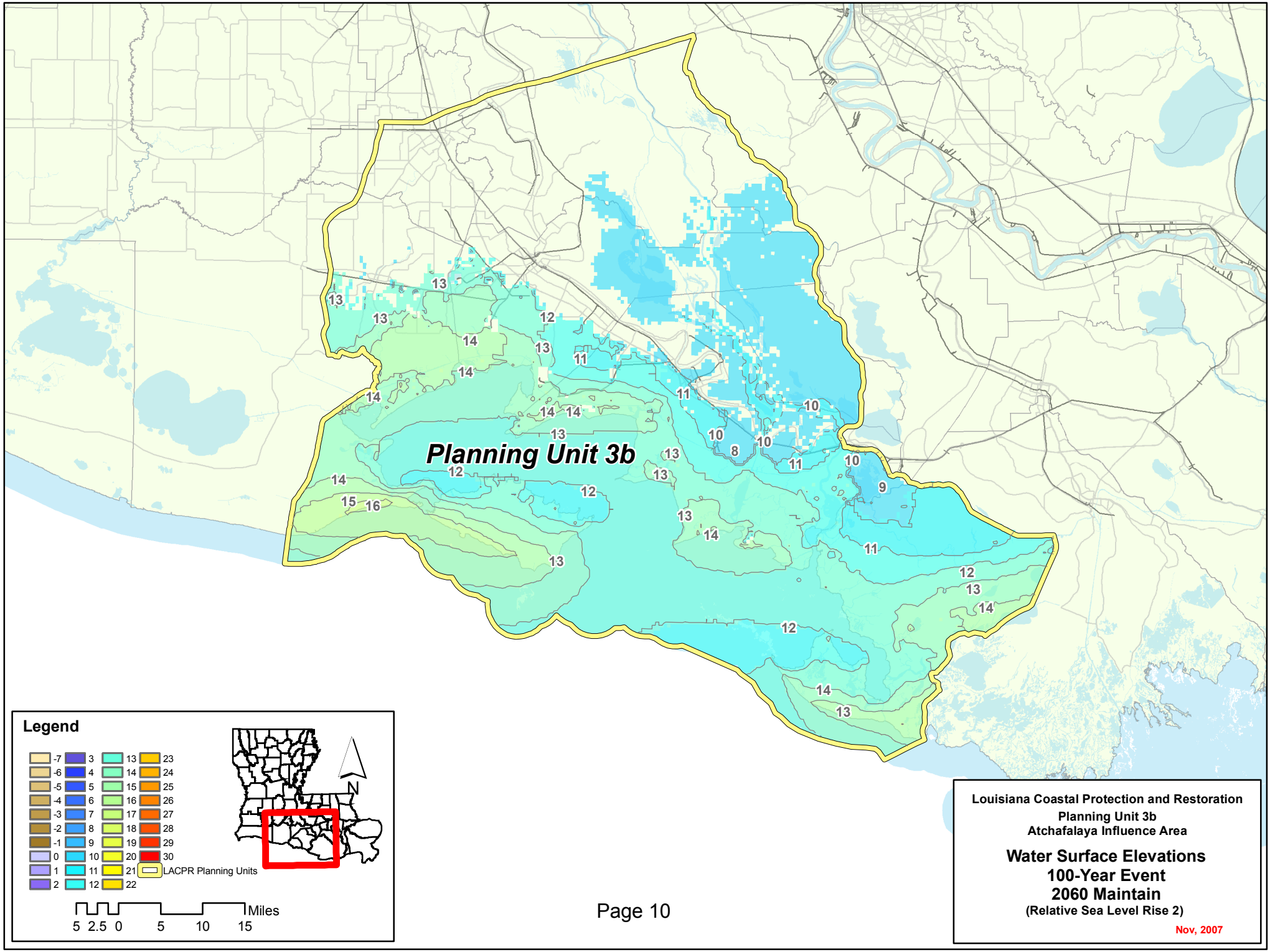
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Water Elevations
1000-Year Event
2060 No Action
(Relative Sea Level Rise 2)
Nov, 2007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Legend
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LACPR Planning Units
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Miles
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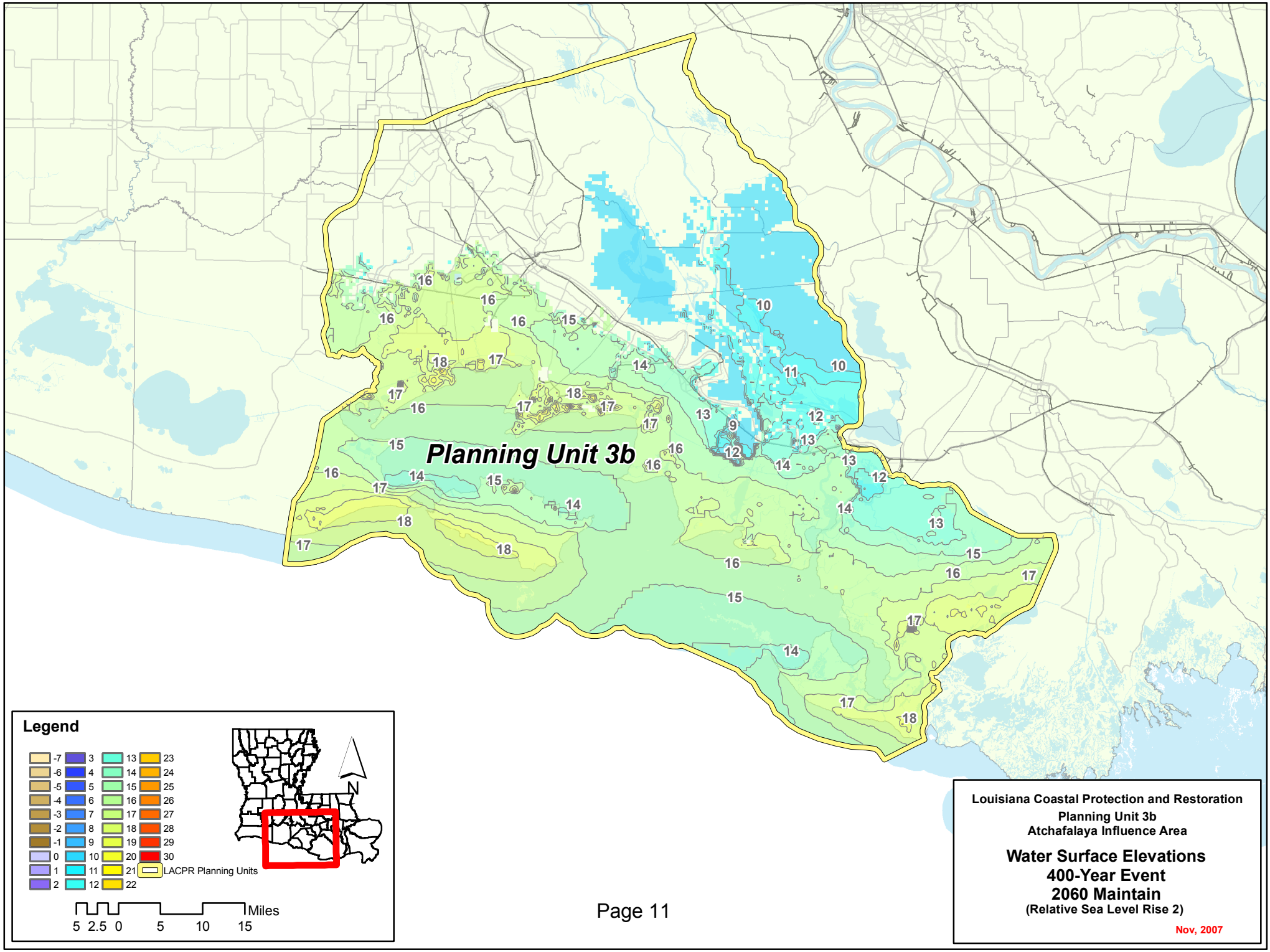
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Water Surface Elevations
100-Year Event
2060 Maintain
(Relative Sea Level Rise 2)
Nov, 2007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LACPR Planning Units
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Miles
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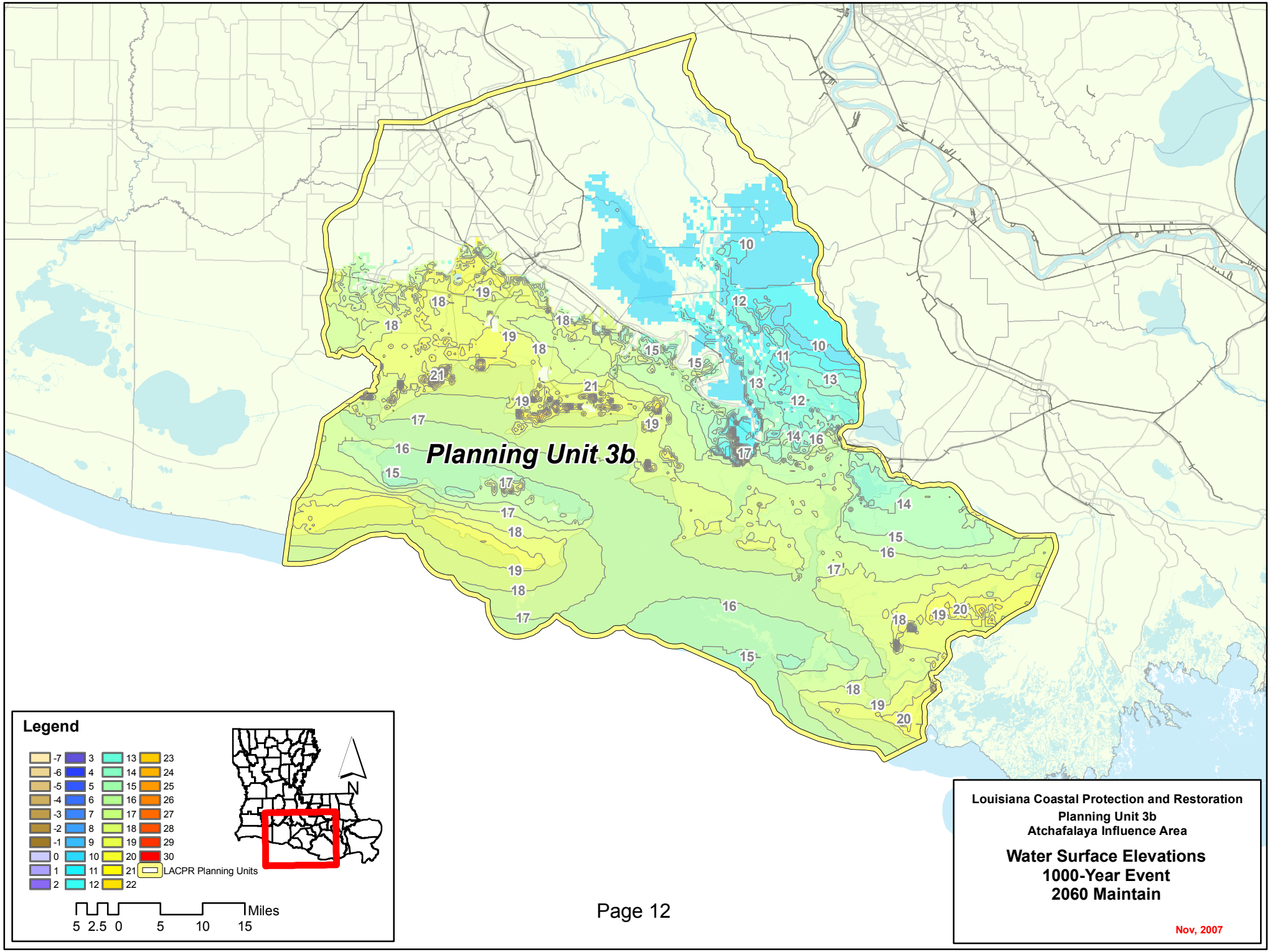
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Water Surface Elevations
400-Year Event
2060 Maintain
(Relative Sea Level Rise 2)
Nov, 2007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LACPR Planning Units
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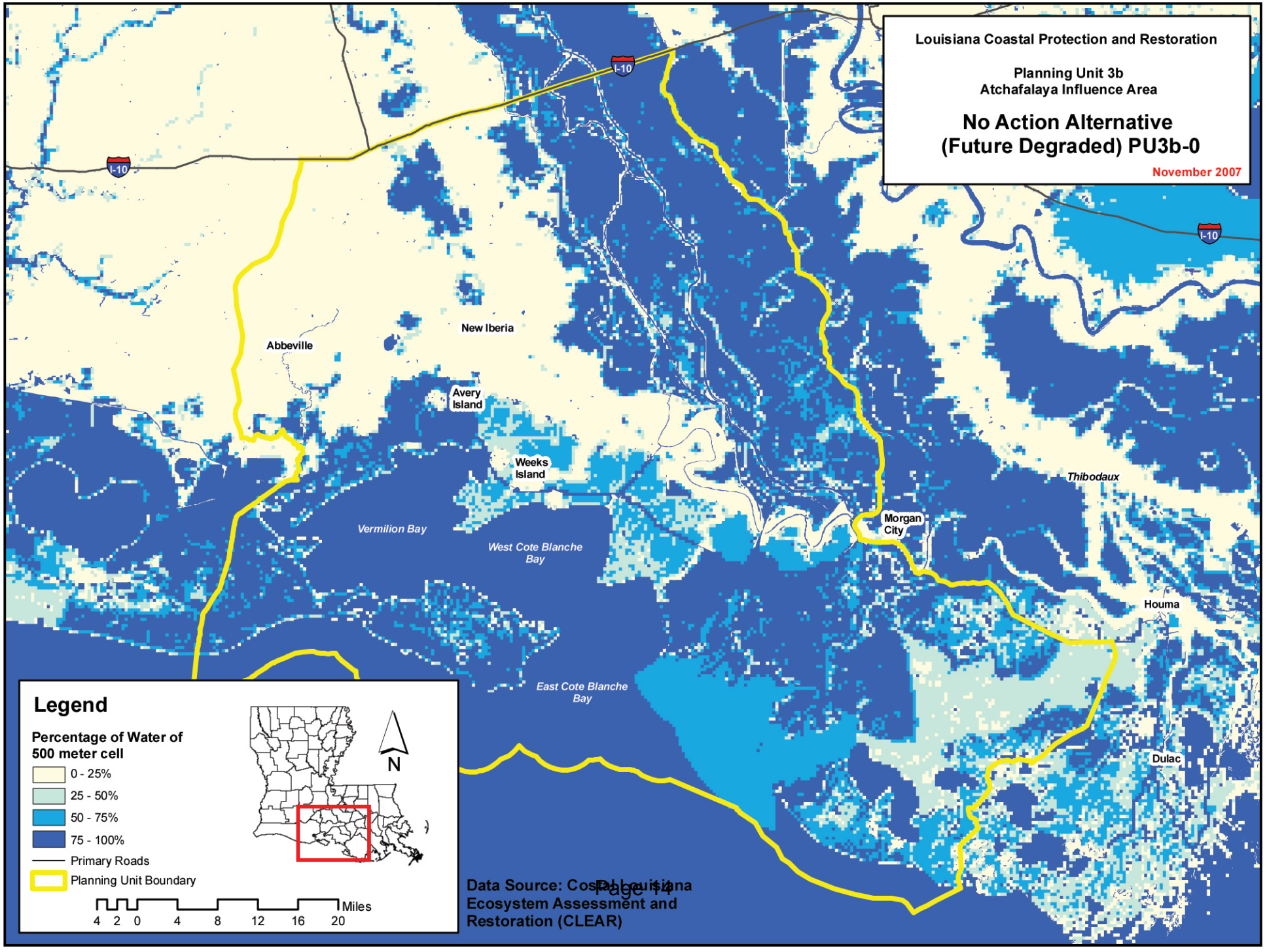
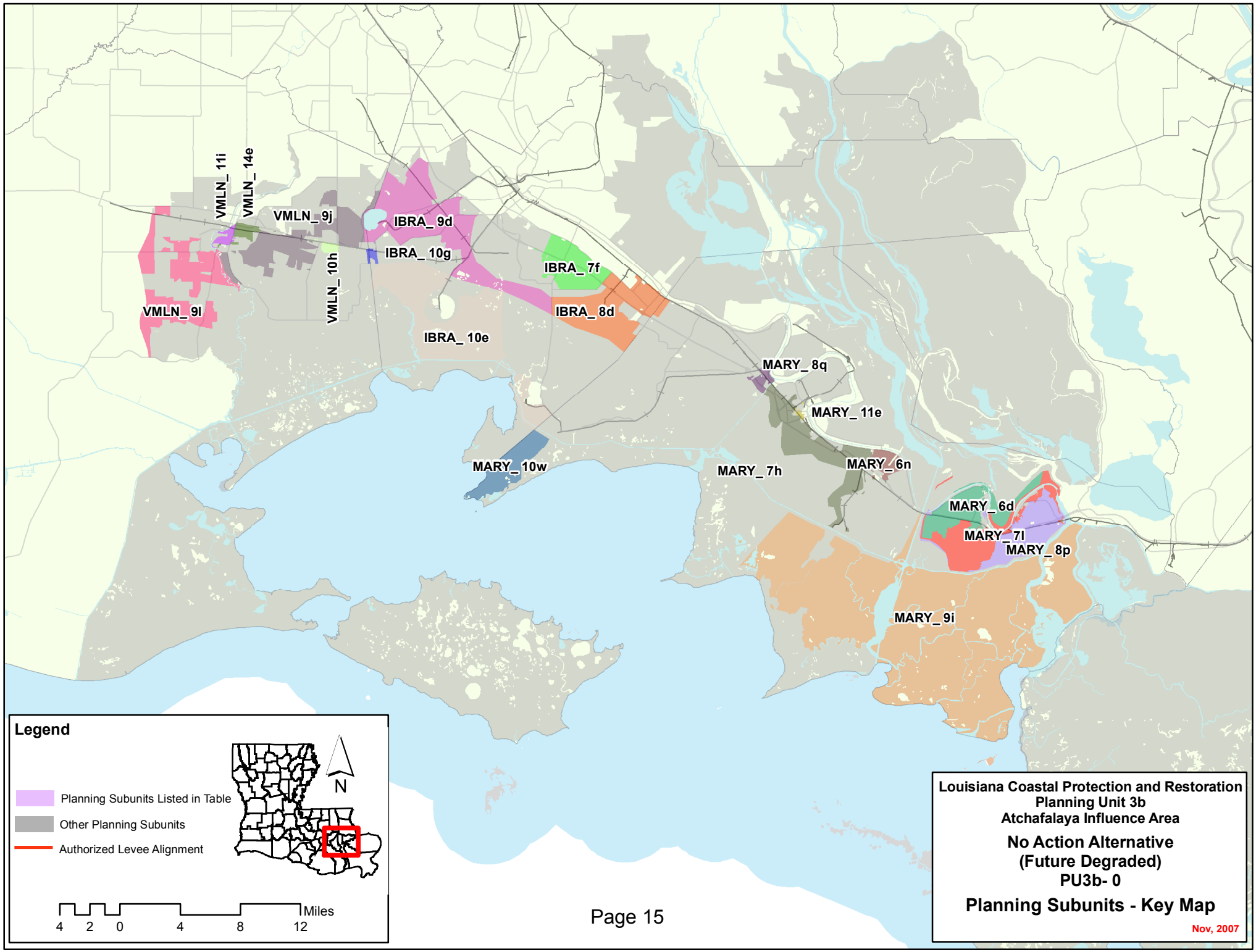
Miles
5 2.5 0 5 10 15
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Water Surface Elevations
1000-Year Event
2060 Maintain
Nov, 2007

Planning Unit:	3b	**Alt. No.**	PU3b-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	5,503	351,671	453,537	1,381	94,018	14	6	0
	Mean	0.00	9,511	632,646	695,305	2,395	150,151	17	10	1
	High	0.00	11,787	854,755	830,351	2,912	176,034	19	13	1
Scenario 2	**Low**	0.00	6,195	403,500	517,976	1,538	109,524	14	3	0
	Mean	0.00	9,988	691,632	748,612	2,539	162,685	17	8	0
	High	0.00	12,349	907,998	901,667	3,048	190,088	19	11	1
Scenario 3	**Low**	0.00	5,123	330,276	508,700	1,448	101,797	14	6	0
	Mean	0.00	8,922	588,085	780,463	2,509	162,943	17	10	1
	High	0.00	11,073	793,336	908,948	2,931	181,729	19	13	1
Scenario 4	**Low**	0.00	5,773	374,809	591,551	1,653	121,751	14	3	0
	Mean	0.00	9,344	640,302	830,071	2,613	171,144	17	8	0
	High	0.00	11,687	839,630	980,012	3,055	194,197	19	11	1

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		N/A	N/A
Indirect Impacts	N/A	**PV Cost of Coastal Component ($ Billions)**	N/A	N/A			
Spatial Integrity							
		PV Cost of Structural Component ($ Billions)	N/A	N/A			


Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
No Action Alternative
(Future Degraded) PU3b-0
November 2007
I-10
Abbeville
New Iberia
Avery Island
Weeks Island
Vermilion Bay
West Cote Blanche Bay
East Cote Blanche Bay
Morgan City
Thibodaux
Houma
Dulac
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: Coastal Louisiana Ecosystem Assessment and Restoration (CLEAR)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VMLN_ 14e
VMLN_ 9j
IBRA_ 9d
IBRA_ 10g
VMLN_ 10h
IBRA_ 7f
IBRA_ 8d
VMLN_ 9l
IBRA_ 10e
MARY_ 8q
MARY_ 11e
MARY_ 10w
MARY_ 7h
MARY_ 6n
MARY_ 6d
MARY_ 7l
MARY_ 8p
MARY_ 9i
Legend
Planning Subunits Listed in Table
Other Planning Subunits
Authorized Levee Alignment
N
Miles
4 2 0 4 8 12
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
No Action Alternative
(Future Degraded)
PU3b- 0
Planning Subunits - Key Map
Nov, 2007

Alternative: PU3b-0

Water Surface Elevations (feet - NAVD88 2004.65)

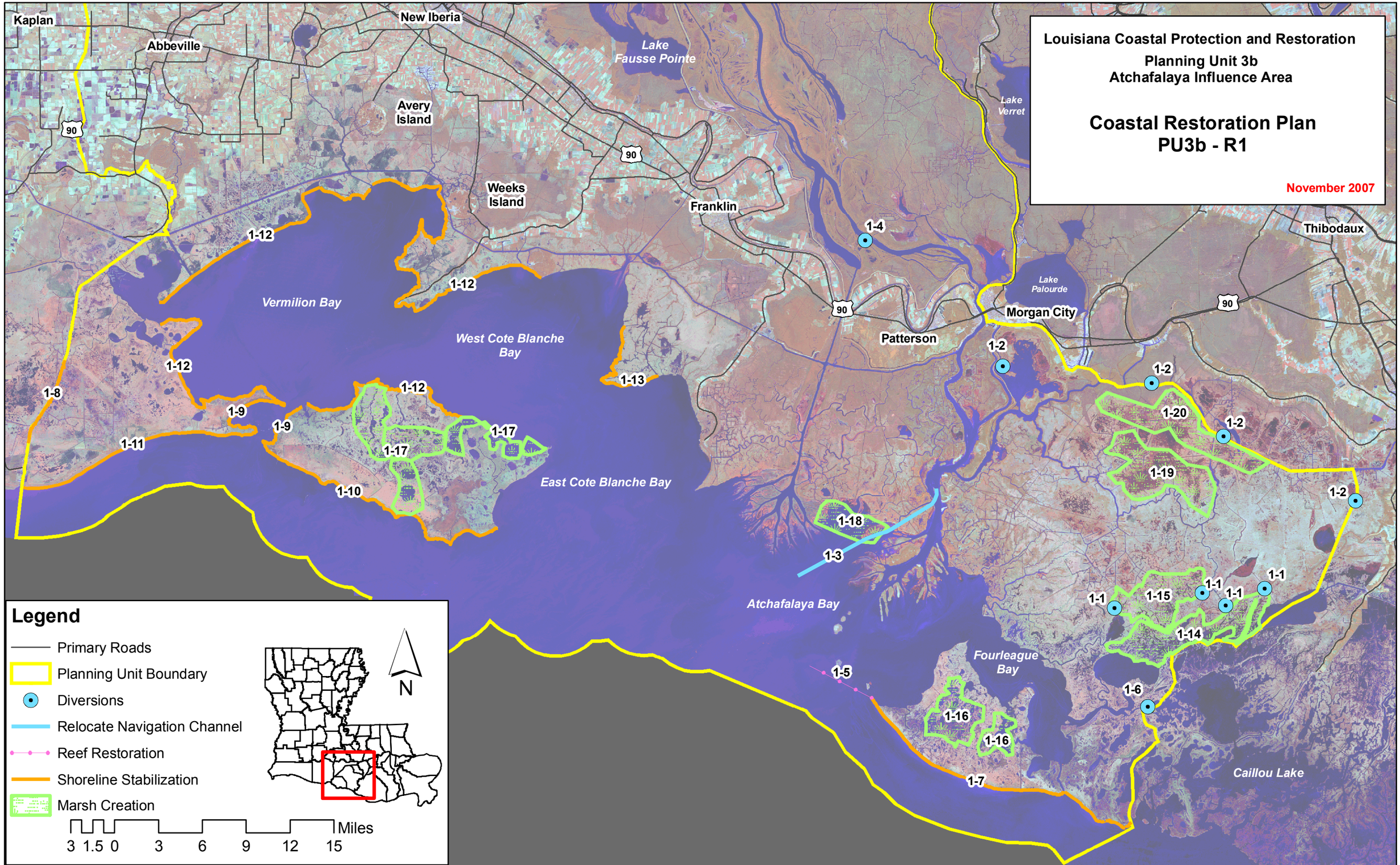
Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
IBRA_ 10e	11.6		15.5		18.0		15.0		18.7		21.0	
IBRA_ 10g	11.5		15.4		17.8		15.2		18.7		20.9	
IBRA_ 7f	7.8		7.8		9.4		11.0		11.6		12.6	
IBRA_ 8d	10.1		15.2		19.1		13.9		19.6		23.6	
IBRA_ 9d	9.0		13.8		17.1		14.5		17.9		20.3	
MARY_ 10w	11.7		16.0		18.9		14.8		18.5		21.2	
MARY_ 11e	7.8		11.3		14.1		11.0		16.2		19.4	
MARY_ 6d	7.8		9.6		12.0		11.0		12.9		15.3	
MARY_ 6n	7.8		11.1		13.3		11.0		14.0		16.6	
MARY_ 7h	7.8		10.9		13.2		12.9		16.1		17.8	
MARY_ 7l	7.8		10.6		13.1		11.0		13.8		16.2	
MARY_ 8p	8.6		12.4		14.8		11.8		15.2		17.5	
MARY_ 8q	8.2		13.5		17.2		13.7		18.4		21.4	
MARY_ 9i	9.9		13.4		15.4		13.0		16.6		18.5	
VMLN_ 10h	11.4		15.6		18.3		14.8		18.9		21.7	
VMLN_ 11i	7.8		11.3		14.8		11.0		15.5		18.9	
VMLN_ 14e	7.8		9.4		14.3		11.0		13.6		18.4	
VMLN_ 9j	7.8		13.1		16.3		13.1		17.3		20.4	
VMLN_ 9l	10.6		13.7		15.5		14.4		17.7		19.6	

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

Planning Unit:	3a	**Alt. No.**	PU3a-R1	**Category**	Coastal Restoration Only
Alternative Description:	Sustain coastal landscape through restoration including shoreline protection, marsh creation, and diversions.				
Coastal Component:	R1			**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**		5,250	324,206	430,032	1,290	86,950	14	6	0
	Mean	4.76	9,318	609,574	669,547	2,343	143,695	17	10	1
	High		11,724	834,729	804,642	2,856	169,289	19	13	1
Scenario 2	**Low**		5,909	376,452	500,905	1,505	105,463	14	3	0
	Mean	4.80	9,929	670,704	721,320	2,479	155,600	17	8	0
	High		12,273	894,123	862,603	2,973	183,269	19	11	1
Scenario 3	**Low**		4,908	305,345	494,356	1,394	99,014	14	6	0
	Mean	4.76	8,763	570,774	756,306	2,468	157,628	17	10	1
	High		11,010	778,973	886,913	2,896	177,200	19	13	1
Scenario 4	**Low**		5,539	352,533	571,478	1,613	117,037	14	3	0
	Mean	4.80	9,289	625,366	805,962	2,573	166,021	17	8	0
	High		11,630	828,608	942,087	2,996	189,109	19	11	1

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		50,027	62,021		N/A	N/A
Indirect Impacts	N/A	**PV Cost of Coastal Component ($ Billions)**	4.76	4.80			
Spatial Integrity	0.505						
		PV Cost of Structural Component ($ Billions)	N/A	N/A			


Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Coastal Restoration Plan
PU3b - R1
November 2007
Kaplan
Abbeville
New Iberia
Lake Fausse Pointe
Avery Island
Weeks Island
Franklin
Lake Verret
Thibodaux
Lake Palourde
Morgan City
Patterson
Vermilion Bay
West Cote Blanche Bay
East Cote Blanche Bay
Atchafalaya Bay
Fourleague Bay
Caillou Lake
90
1-1
1-2
1-3
1-4
1-5
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1-10
1-11
1-12
1-13
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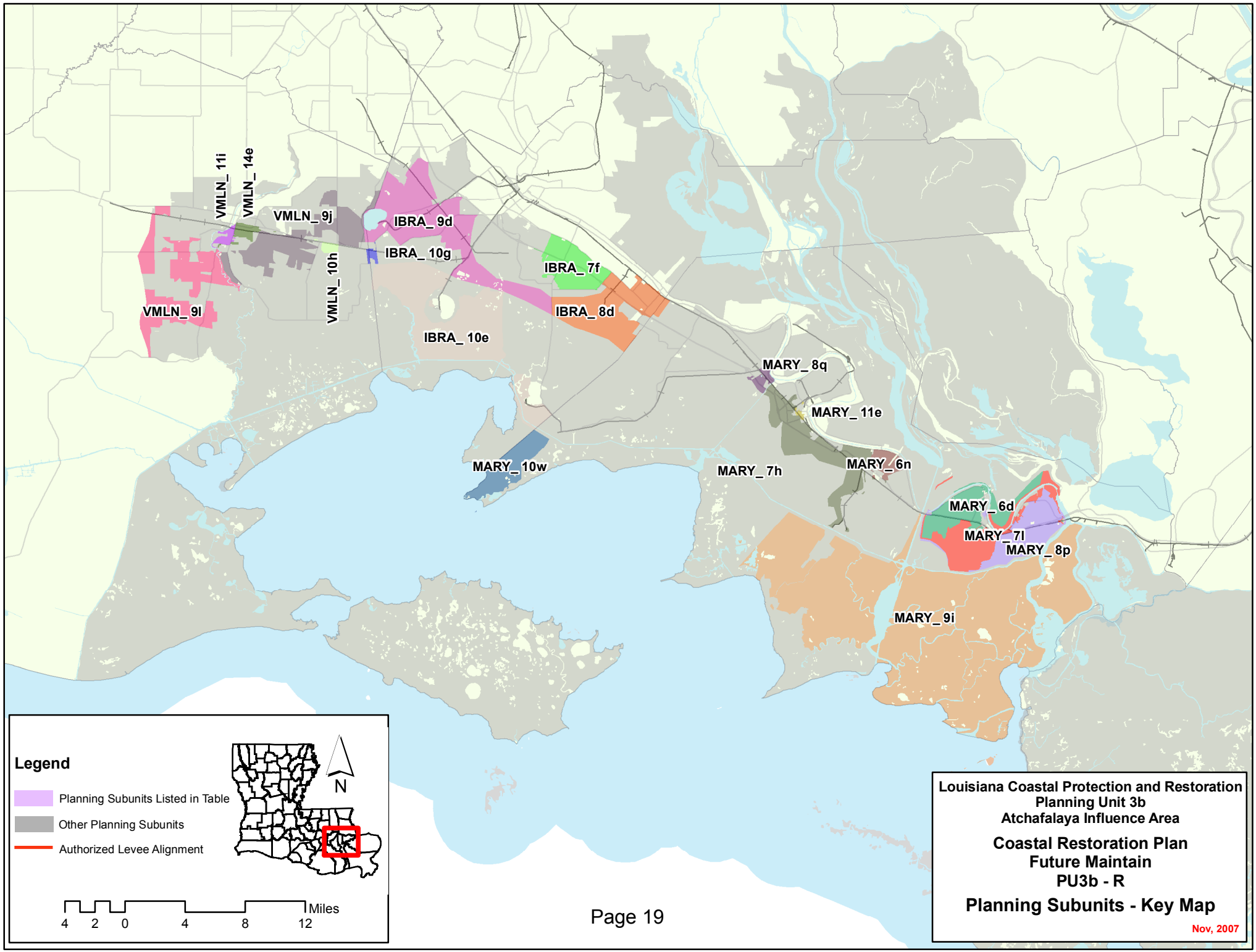
1-18
1-19
1-20
Legend
Primary Roads
Planning Unit Boundary
Diversions
Relocate Navigation Channel
Reef Restoration
Shoreline Stabilization
Marsh Creation
N
Miles
3 1.5 0 3 6 9 12 15


VMLN_ 11i
VMLN_ 14e
VMLN_ 9j
IBRA_ 9d
IBRA_ 10g
VMLN_ 10h
IBRA_ 7f
IBRA_ 8d
VMLN_ 9l
IBRA_ 10e
MARY_ 8q
MARY_ 11e
MARY_ 10w
MARY_ 7h
MARY_ 6n
MARY_ 6d
MARY_ 7l
MARY_ 8p
MARY_ 9i
Legend
Planning Subunits Listed in Table
Other Planning Subunits
Authorized Levee Alignment
N
Miles
4 2 0 4 8 12
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Coastal Restoration Plan
Future Maintain
PU3b - R
Planning Subunits - Key Map
Nov, 2007

Alternative: PU3b-R1
Water Surface Elevations (feet - NAVD88 2004.65)

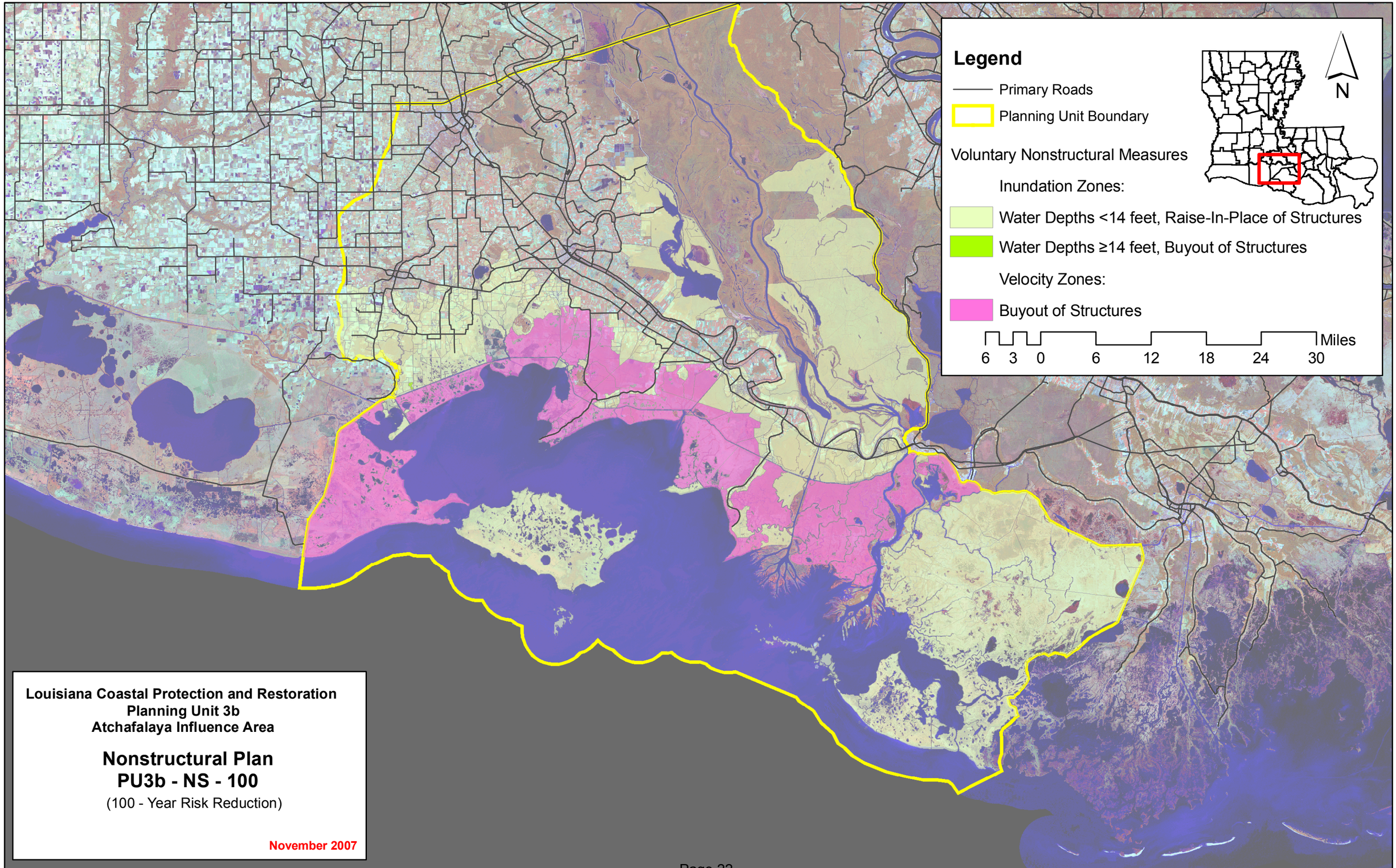
Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
IBRA_ 10e	11.6	11.6	15.5	15.5	18.0	18.0	15.0	14.8	18.7	18.7	21.0	21.2
IBRA_ 10g	11.5	11.5	15.4	15.4	17.8	17.8	15.2	14.7	18.7	18.6	20.9	21.0
IBRA_ 7f	7.8	7.8	7.8	7.8	9.4	9.4	11.0	11.0	11.6	11.0	12.6	12.6
IBRA_ 8d	10.1	10.1	15.2	15.2	19.1	19.1	13.9	13.3	19.6	18.4	23.6	22.3
IBRA_ 9d	9.0	9.0	13.8	13.8	17.1	17.1	14.5	12.2	17.9	17.0	20.3	20.3
MARY_ 10w	11.7	11.7	16.0	16.0	18.9	18.9	14.8	14.9	18.5	19.2	21.2	22.1
MARY_ 11e	7.8	7.8	11.3	11.3	14.1	14.1	11.0	11.0	16.2	14.5	19.4	17.3
MARY_ 6d	7.8	7.8	9.6	9.6	12.0	12.0	11.0	11.0	12.9	12.8	15.3	15.2
MARY_ 6n	7.8	7.8	11.1	11.1	13.3	13.3	11.0	11.0	14.0	14.3	16.6	16.5
MARY_ 7h	7.8	7.8	10.9	10.9	13.2	13.2	12.9	11.0	16.1	14.1	17.8	16.4
MARY_ 7l	7.8	7.8	10.6	10.6	13.1	13.1	11.0	11.0	13.8	13.8	16.2	16.3
MARY_ 8p	8.6	8.6	12.4	12.4	14.8	14.8	11.8	11.8	15.2	15.6	17.5	18.0
MARY_ 8q	8.2	8.2	13.5	13.5	17.2	17.2	13.7	11.4	18.4	16.7	21.4	20.4
MARY_ 9i	9.9	9.9	13.4	13.4	15.4	15.4	13.0	13.1	16.6	16.6	18.5	18.6
VMLN_ 10h	11.4	11.4	15.6	15.6	18.3	18.3	14.8	14.6	18.9	18.8	21.7	21.5
VMLN_ 11i	7.8	7.8	11.3	11.3	14.8	14.8	11.0	11.0	15.5	14.5	18.9	18.0
VMLN_ 14e	7.8	7.8	9.4	9.4	14.3	14.3	11.0	11.0	13.6	12.6	18.4	17.5
VMLN_ 9j	7.8	7.8	13.1	13.1	16.3	16.3	13.1	11.0	17.3	16.3	20.4	19.5
VMLN_ 9l	10.6	10.6	13.7	13.7	15.5	15.5	14.4	13.8	17.7	16.9	19.6	18.7

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

Planning Unit:	3b	Alt. No.	PU3b-NS-100	Category	Coastal Restoration + Nonstructural Measures
Alternative Description:	Sustain coastal landscape through restoration. Implement comprehensive 100-year nonstructural measures.				
Coastal Component:	R1			Nonstructural Component:	See alternative description.
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		4,626	116,107	96,296	418	20,351	14	6	0
	Mean	7.59	8,595	245,920	278,336	1,058	58,588	17	10	1
	High		11,032	412,022	401,500	1,505	84,243	19	13	1
Scenario 2	Low		4,966	127,861	145,840	536	31,094	14	3	0
	Mean	7.63	8,909	300,287	341,953	1,220	73,808	17	8	0
	High		11,314	465,310	451,534	1,610	96,244	19	11	1
Scenario 3	Low		4,337	109,407	94,735	402	19,752	14	6	0
	Mean	7.69	8,107	230,211	299,224	1,058	60,101	17	10	1
	High		10,411	384,561	427,769	1,448	83,836	19	13	1
Scenario 4	Low		4,662	120,232	147,893	516	29,707	14	3	0
	Mean	7.73	8,378	279,944	373,375	1,231	76,358	17	8	0
	High		10,730	431,698	484,568	1,563	96,729	19	11	1

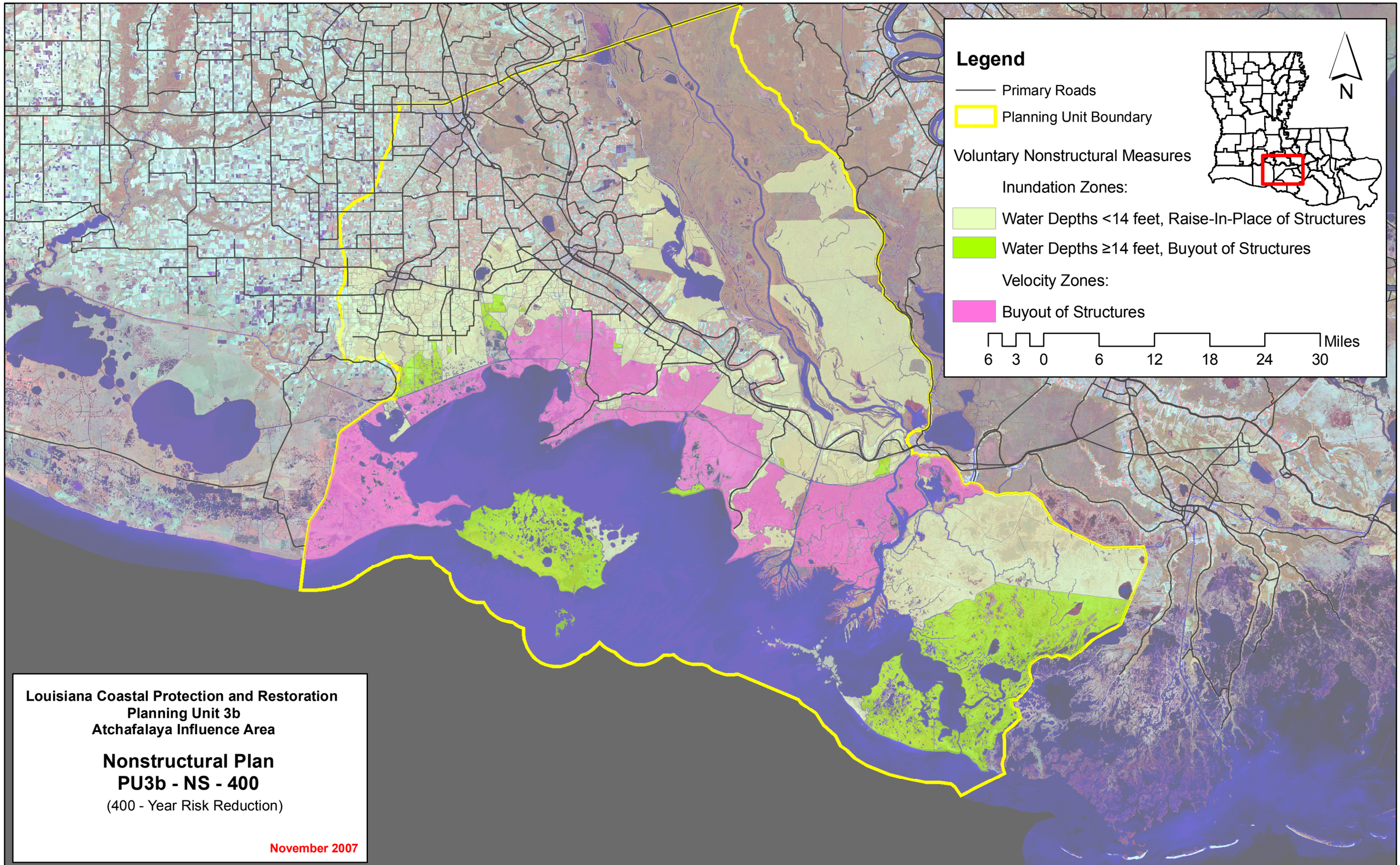
Other Metric Results							
Construction Time (years)	15	Wetlands Created/ Protected (acres)	Scen 1&3	Scen 2&4	PV Cost of NS Comp ($ Billions)	Scen 1&2	Scen 3&4
Direct Wetland Impacts (acres)	0		50,027	62,021		2.83	2.93
Indirect Impacts	N/A	PV Cost of Coastal Component ($ Billions)	4.76	4.80			
Spatial Integrity	0.505						
		PV Cost of Structural Component ($ Billions)	N/A	N/A			


Legend
Primary Roads
Planning Unit Boundary
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
6 3 0 6 12 18 24 30
Miles
N
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Nonstructural Plan
PU3b - NS - 100
(100 - Year Risk Reduction)
November 2007

Planning Unit:	3b	Alt. No.	PU3b-NS-400	Category	Coastal Restoration + Nonstructural Measures
Alternative Description:	Sustain coastal landscape through restoration. Implement comprehensive 400-year nonstructural measures.				
Coastal Component:	R1			Nonstructural Component:	See alternative description.
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		4,569	102,906	79,474	364	16,673	14	6	0
	Mean	9.44	8,539	203,806	168,923	760	36,019	17	10	1
	High		10,976	307,271	222,542	987	45,975	19	13	1
Scenario 2	Low		4,909	105,174	81,306	368	17,075	14	3	0
	Mean	9.48	8,853	215,899	177,669	782	38,106	17	8	0
	High		11,259	324,361	245,351	1,044	51,679	19	11	1
Scenario 3	Low		4,327	97,855	76,650	352	16,120	14	6	0
	Mean	9.62	8,097	191,921	174,828	747	35,917	17	10	1
	High		10,402	287,975	229,044	949	44,839	19	13	1
Scenario 4	Low		4,652	99,998	78,471	356	16,476	14	3	0
	Mean	9.66	8,368	202,229	184,753	771	38,190	17	8	0
	High		10,721	303,298	252,540	1,006	50,495	19	11	1

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		50,027	62,021		4.68	4.86
Indirect Impacts	N/A	PV Cost of Coastal Component ($ Billions)	4.76	4.80			
Spatial Integrity	0.505						
		PV Cost of Structural Component ($ Billions)	N/A	N/A			


Legend
Primary Roads
Planning Unit Boundary
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
6 3 0 6 12 18 24 30
Miles
N
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Nonstructural Plan
PU3b - NS - 400
(400 - Year Risk Reduction)
November 2007

Planning Unit:	3b	**Alt. No.**	PU3b-NS-1000	**Category**	Coastal Restoration + Nonstructural Measures
Alternative Description:	Sustain coastal landscape through restoration. Implement comprehensive 1000-year nonstructural measures.				
Coastal Component:	R1			**Nonstructural Component:**	See alternative description.
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**		4,064	99,499	78,488	360	16,440	14	6	0
	Mean	11.06	7,984	195,833	156,813	733	33,916	17	10	1
	High		10,422	284,590	197,736	916	40,728	19	13	1
Scenario 2	**Low**		4,403	100,999	78,690	361	16,493	14	3	0
	Mean	11.10	8,299	202,185	159,162	739	34,427	17	8	0
	High		10,704	293,575	207,095	933	42,654	19	11	1
Scenario 3	**Low**		3,901	94,495	75,659	349	15,898	14	6	0
	Mean	11.30	7,628	184,436	161,378	720	33,712	17	10	1
	High		9,933	266,927	201,301	878	39,301	19	13	1
Scenario 4	**Low**		4,226	95,954	75,831	350	15,940	14	3	0
	Mean	11.34	7,899	189,407	164,022	727	34,259	17	8	0
	High		10,252	274,749	212,165	897	41,471	19	11	1

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		50,027	62,021		**6.30**	**6.54**
Indirect Impacts	N/A	**PV Cost of Coastal Component ($ Billions)**	4.76	4.80			
Spatial Integrity	0.505						
		PV Cost of Structural Component ($ Billions)	N/A	N/A			