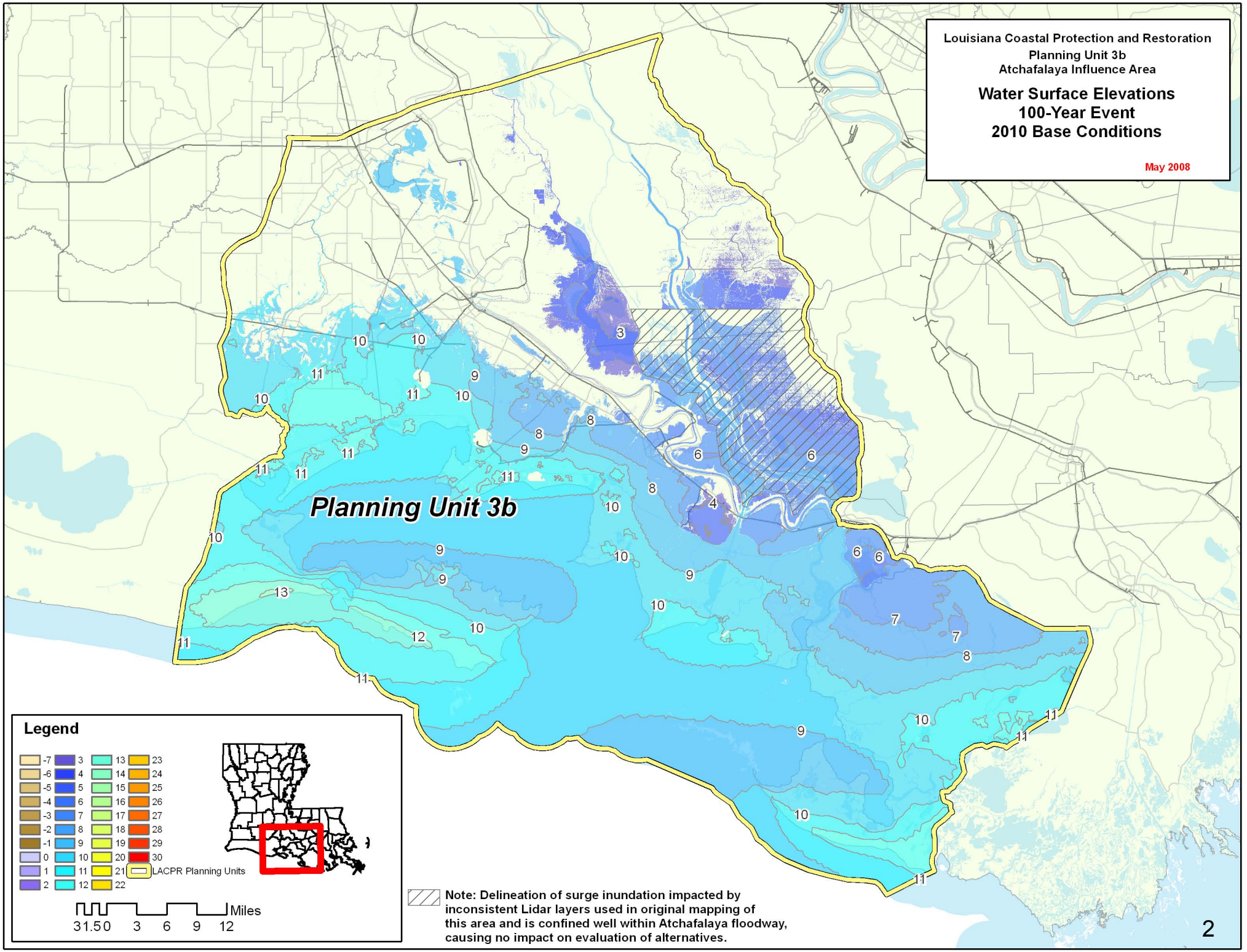
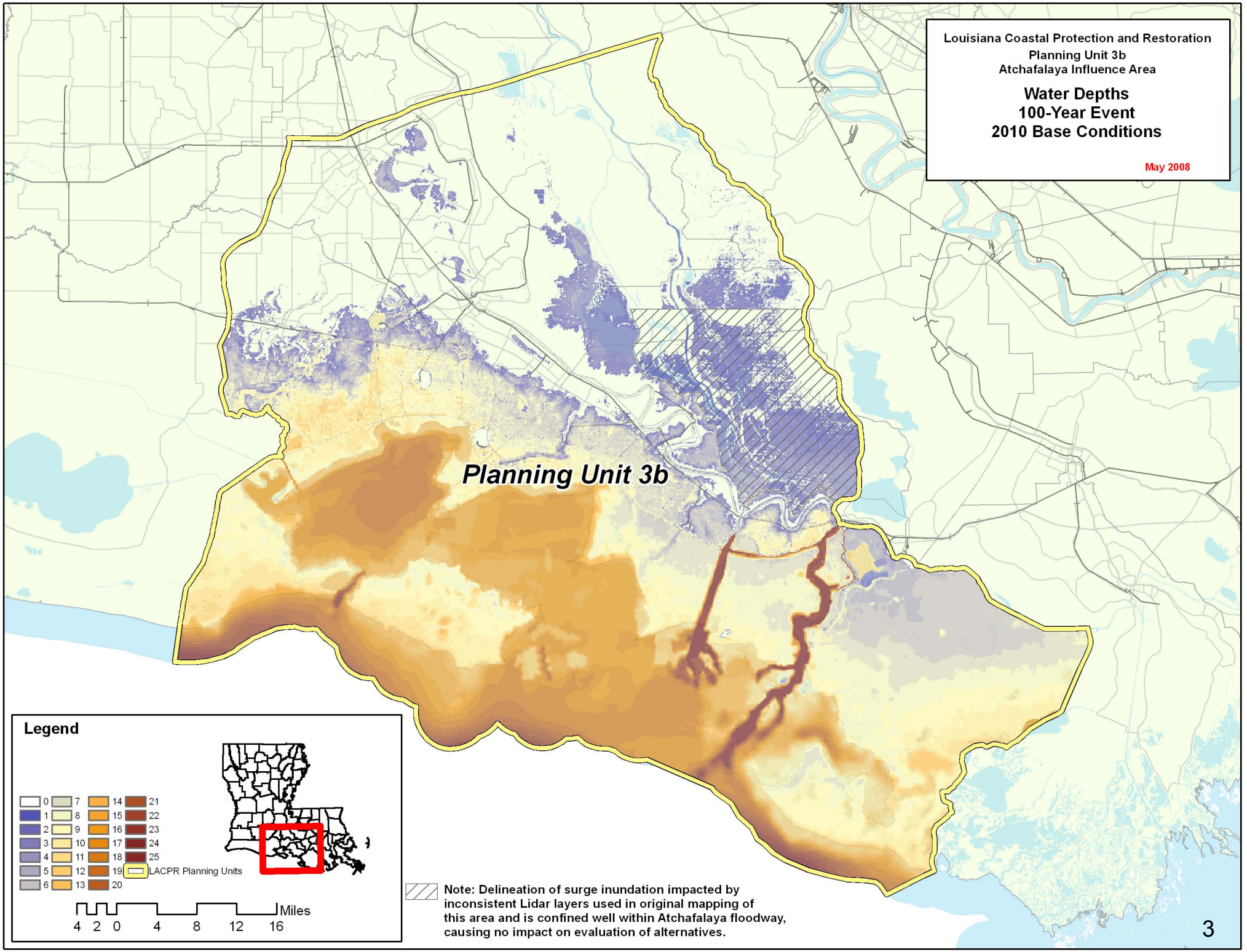
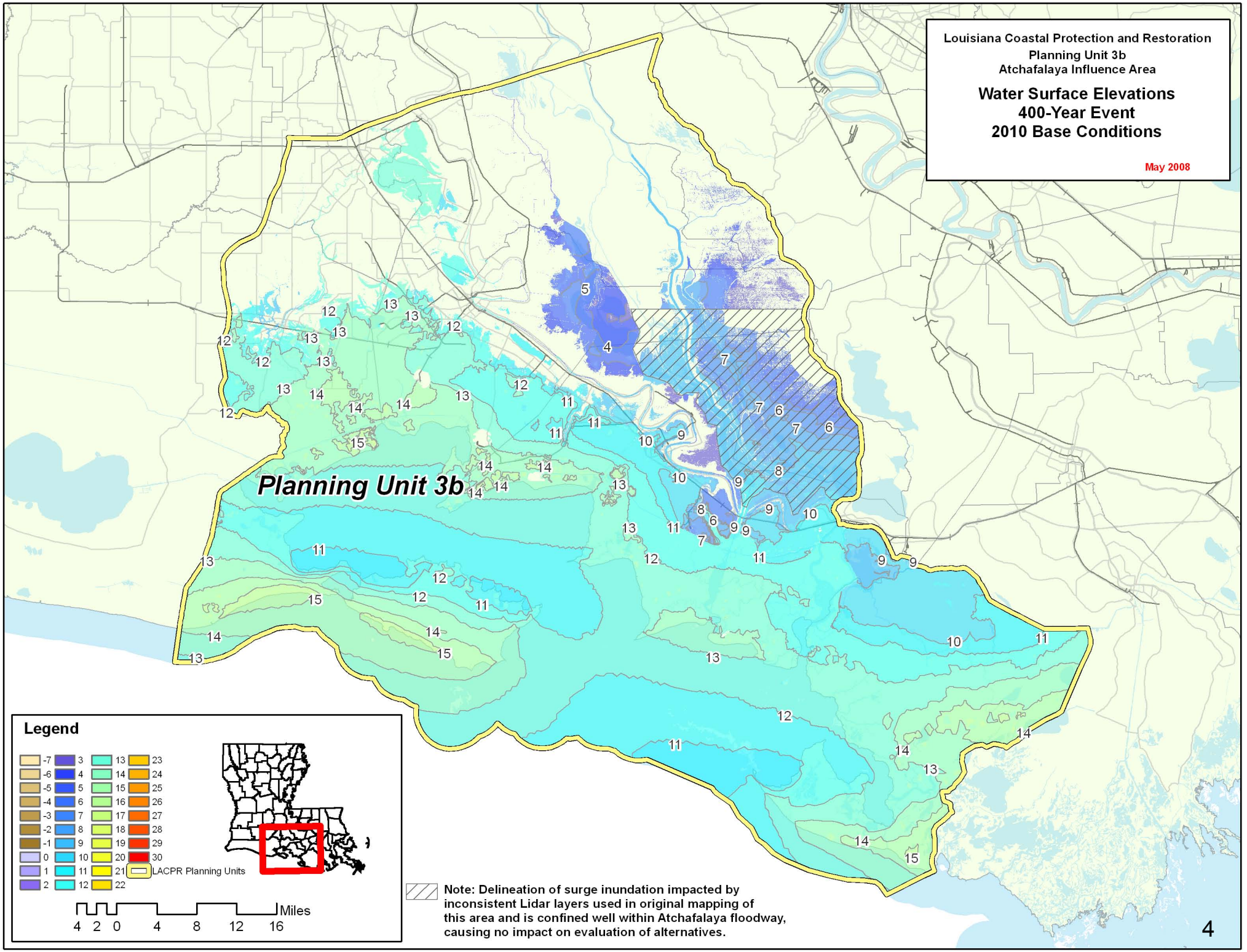
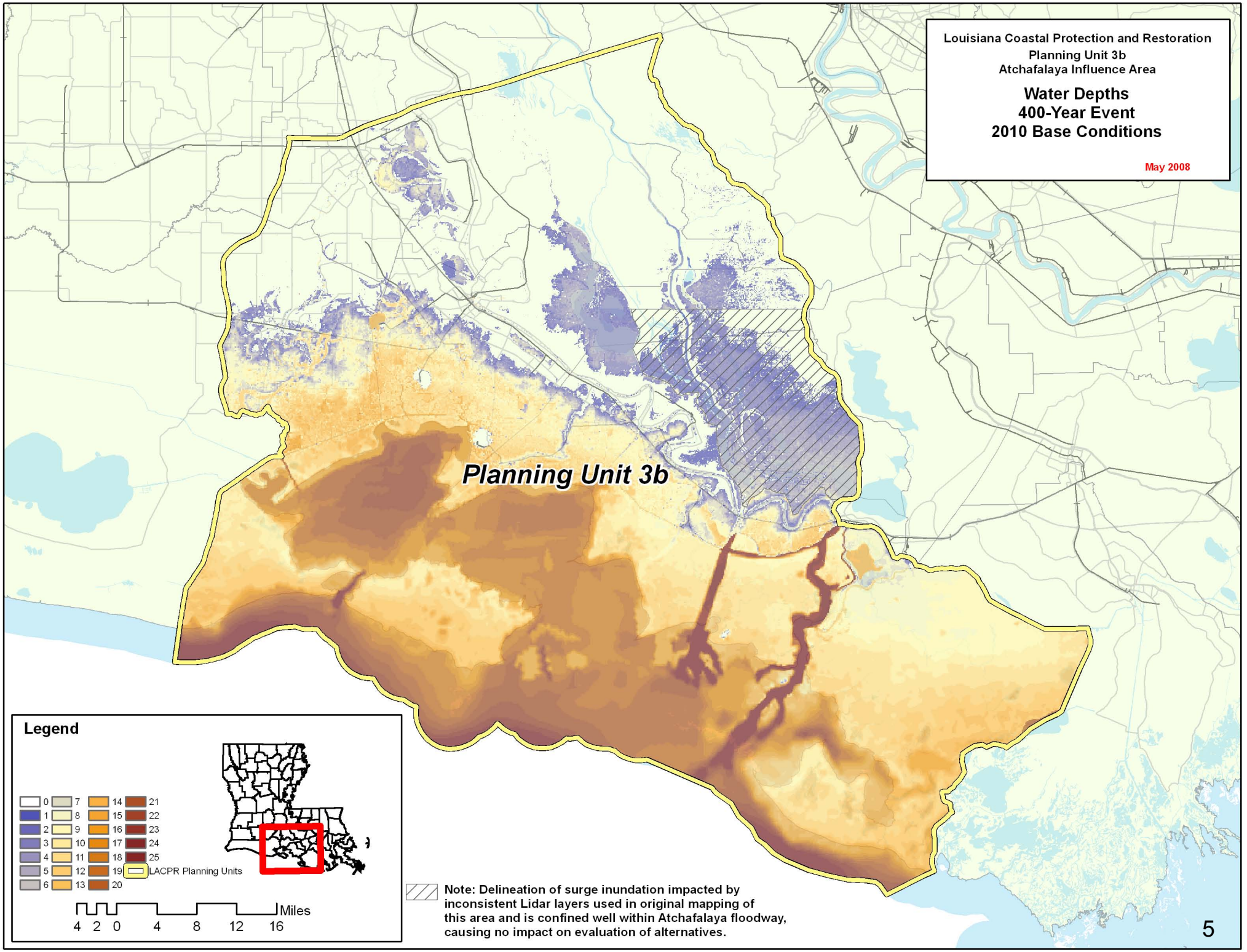
LOUISIANA COASTAL PROTECTION AND RESTORATION FINAL TECHNICAL REPORT
EVALUATION RESULTS APPENDIX

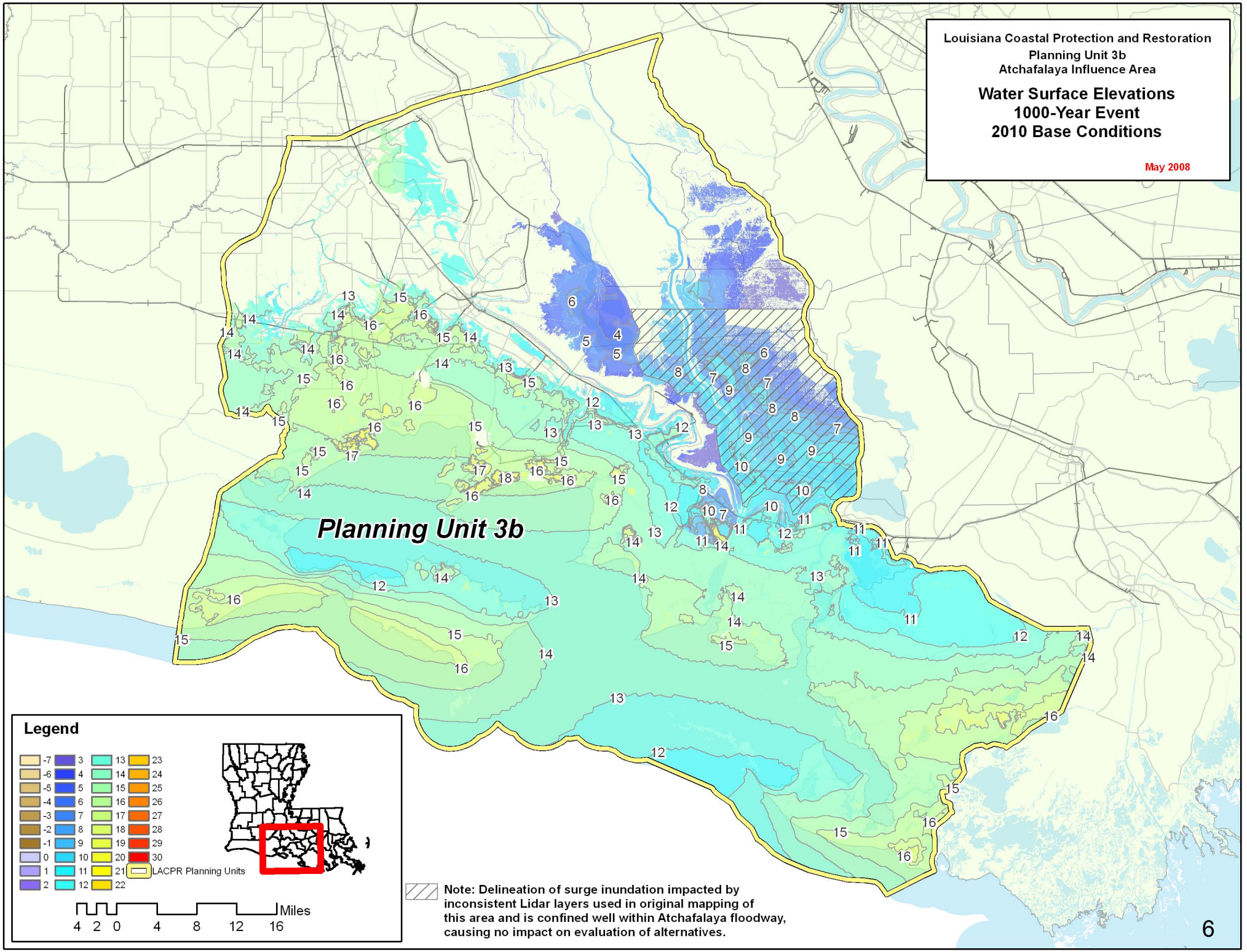
Planning Unit 3b

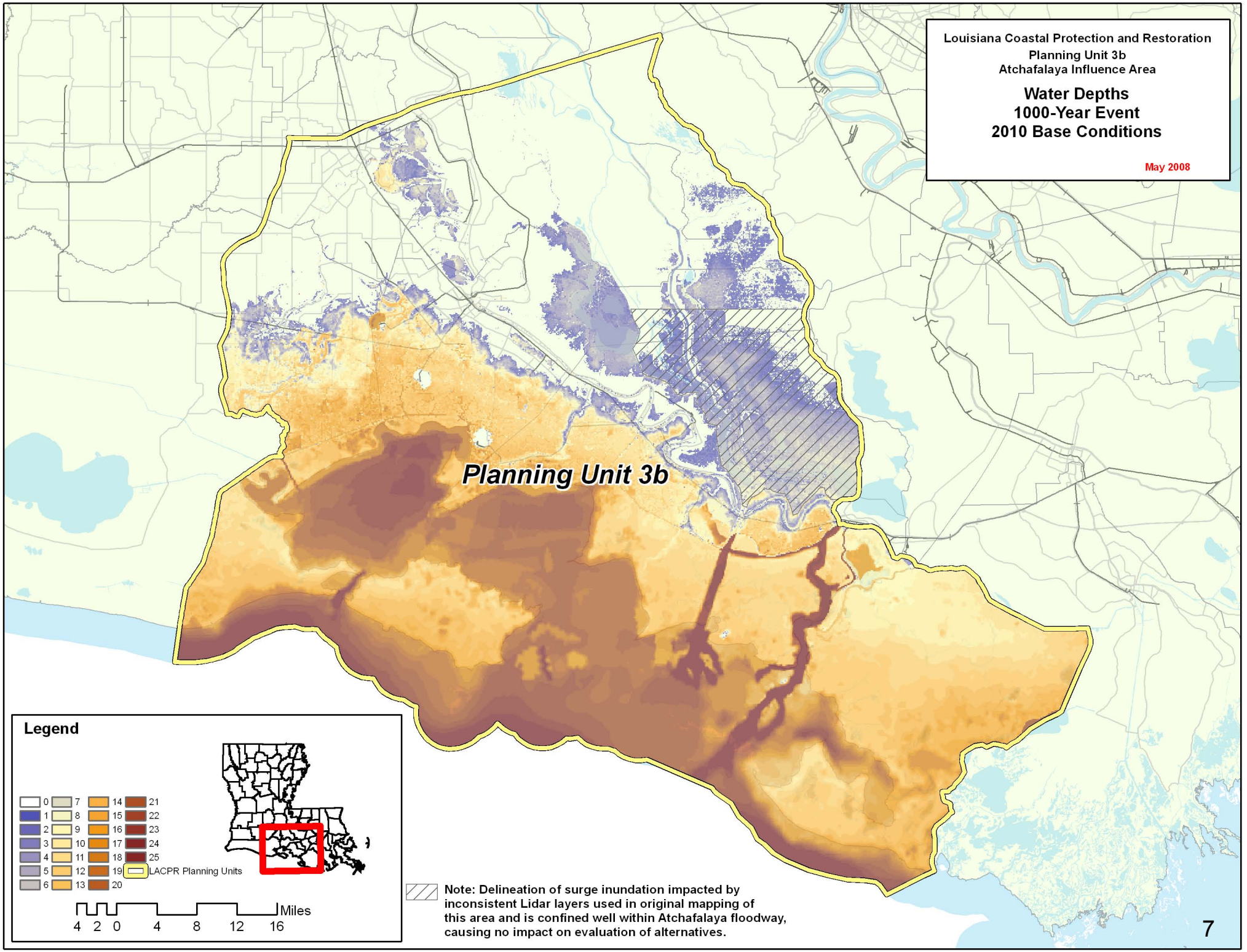

Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Water Surface Elevations
100-Year Event
2010 Base Conditions
May 2008
Planning Unit 3b
Legend
-7 -6 -5 -4 -3 -2 -1 0 1 2
3 4 5 6 7 8 9 10 11 12
13 14 15 16 17 18 19 20 21 22
23 24 25 26 27 28 29 30
LACPR Planning Units
Miles
31.5 0 3 6 9 12
Note: Delineation of surge inundation impacted by inconsistent Lidar layers used in original mapping of this area and is confined well within Atchafalaya floodway, causing no impact on evaluation of alternatives.

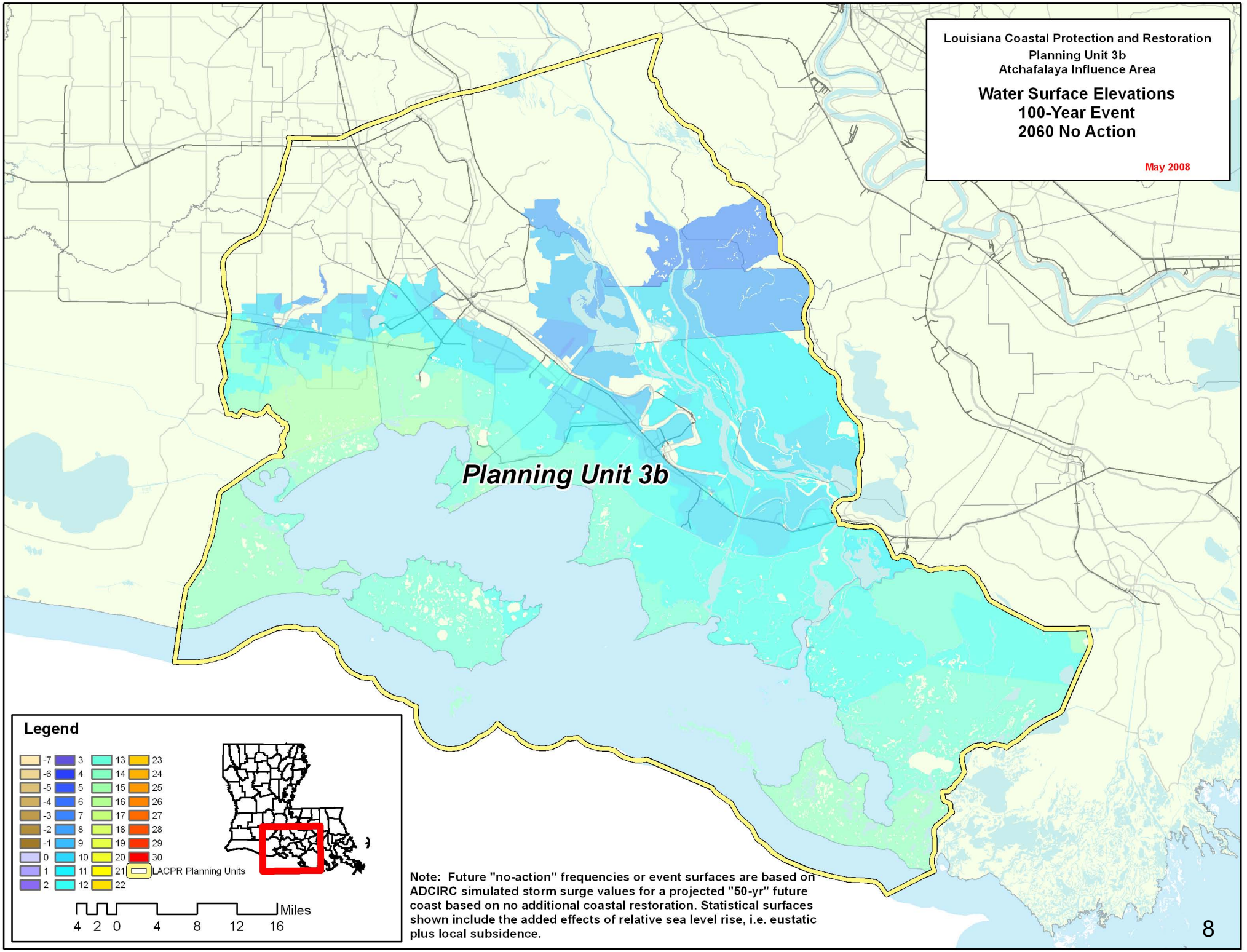

Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Water Depths
100-Year Event
2010 Base Conditions
May 2008
Planning Unit 3b
Legend
0 1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25
LACPR Planning Units
Miles
4 2 0 4 8 12 16
Note: Delineation of surge inundation impacted by inconsistent Lidar layers used in original mapping of this area and is confined well within Atchafalaya floodway, causing no impact on evaluation of alternatives.

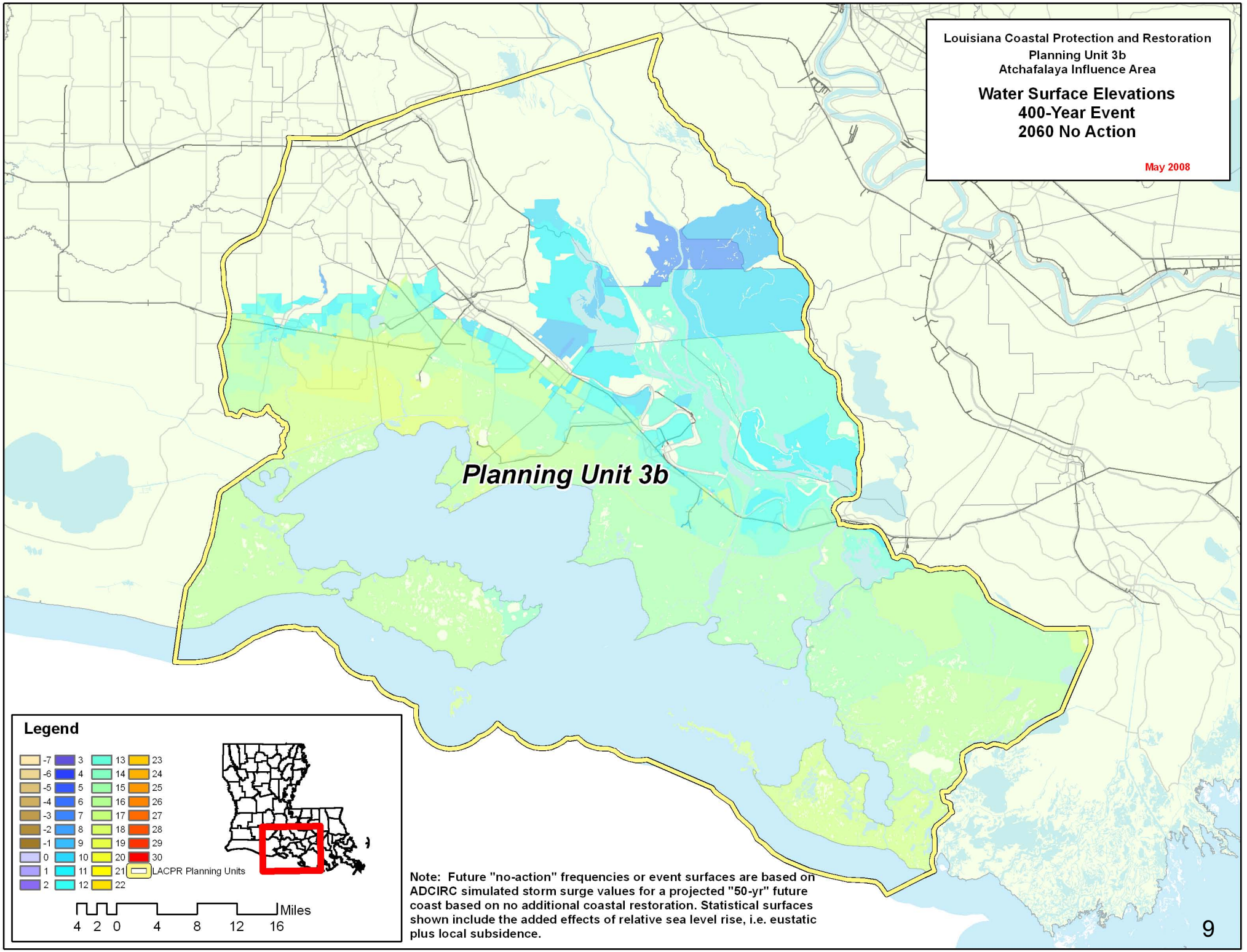

Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Water Surface Elevations
400-Year Event
2010 Base Conditions
May 2008
Planning Unit 3b
Legend
-7 -6 -5 -4 -3 -2 -1 0 1 2
3 4 5 6 7 8 9 10 11 12
13 14 15 16 17 18 19 20 21 22
23 24 25 26 27 28 29 30
LACPR Planning Units
Miles
4 2 0 4 8 12 16
Note: Delineation of surge inundation impacted by inconsistent Lidar layers used in original mapping of this area and is confined well within Atchafalaya floodway, causing no impact on evaluation of alternatives.

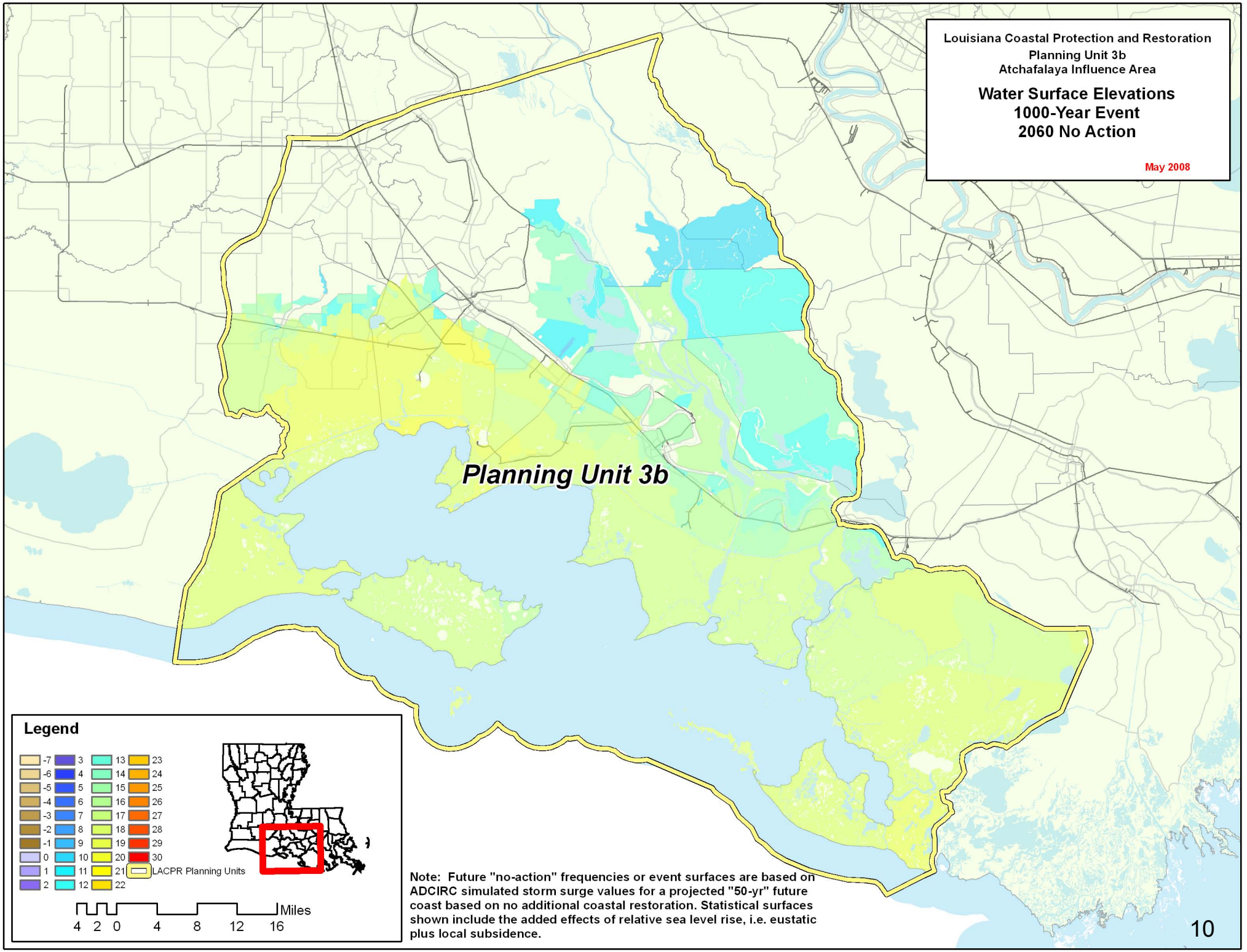

Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Water Depths
400-Year Event
2010 Base Conditions
May 2008
Planning Unit 3b
Legend
0 1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25
LACPR Planning Units
Miles
4 2 0 4 8 12 16
Note: Delineation of surge inundation impacted by inconsistent Lidar layers used in original mapping of this area and is confined well within Atchafalaya floodway, causing no impact on evaluation of alternatives.

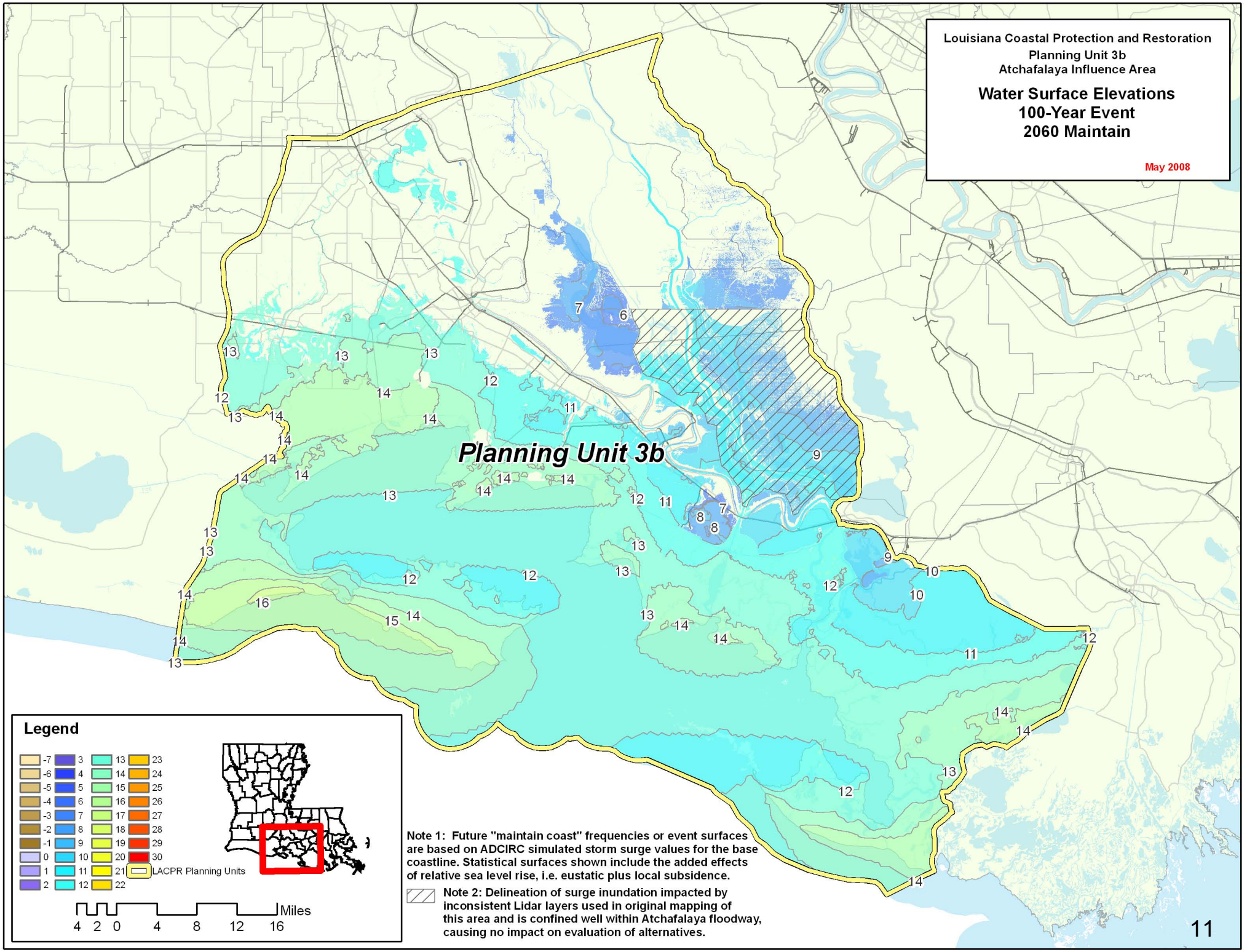

Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Water Surface Elevations
1000-Year Event
2010 Base Conditions
May 2008
Planning Unit 3b
Legend
-7 -6 -5 -4 -3 -2 -1 0 1 2
3 4 5 6 7 8 9 10 11 12
13 14 15 16 17 18 19 20 21 22
23 24 25 26 27 28 29 30
LACPR Planning Units
Miles
4 2 0 4 8 12 16
Note: Delineation of surge inundation impacted by inconsistent Lidar layers used in original mapping of this area and is confined well within Atchafalaya floodway, causing no impact on evaluation of alternatives.

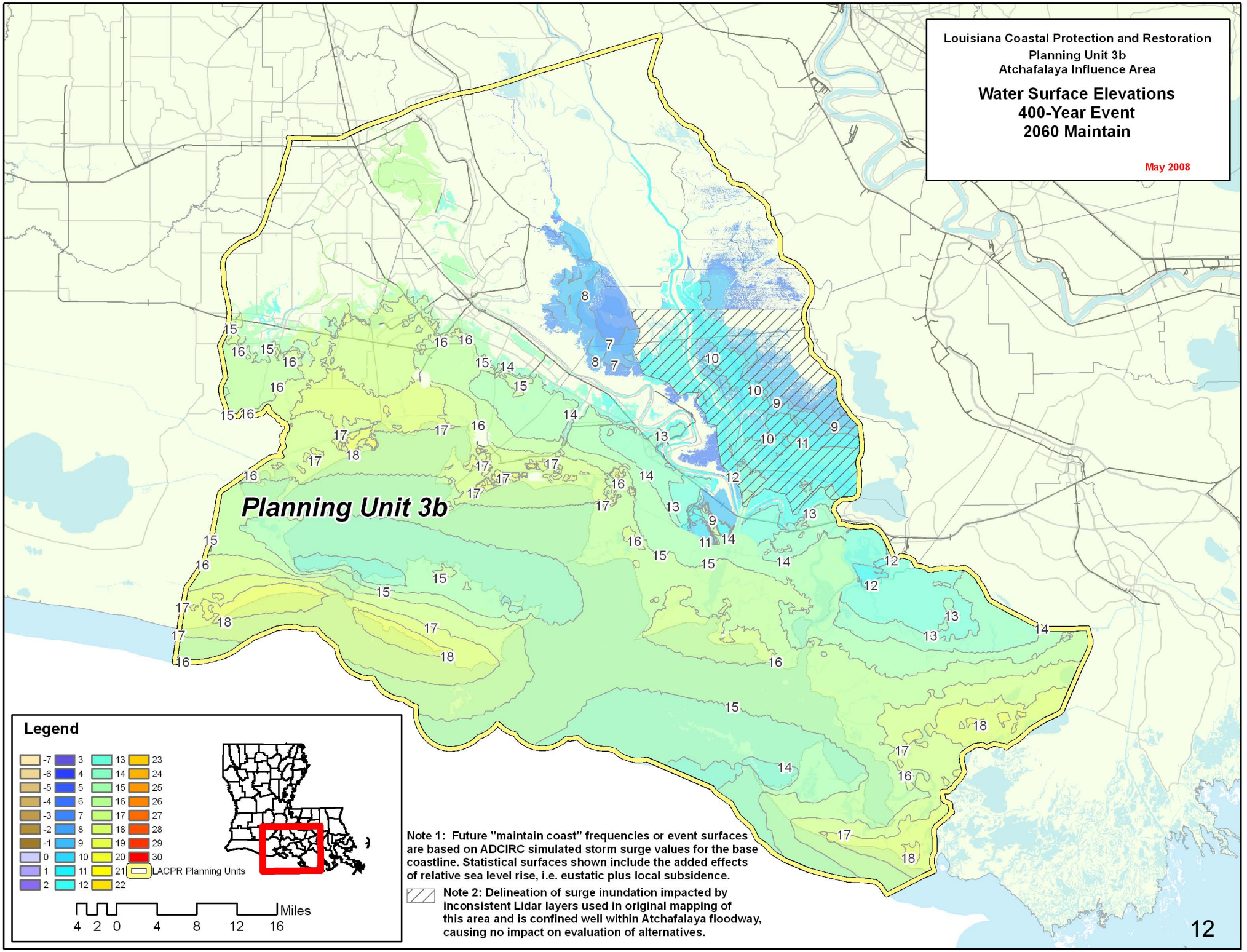

Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Water Depths
1000-Year Event
2010 Base Conditions
May 2008
Planning Unit 3b
Legend
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
LACPR Planning Units
Miles
4 2 0 4 8 12 16
Note: Delineation of surge inundation impacted by inconsistent Lidar layers used in original mapping of this area and is confined well within Atchafalaya floodway, causing no impact on evaluation of alternatives.

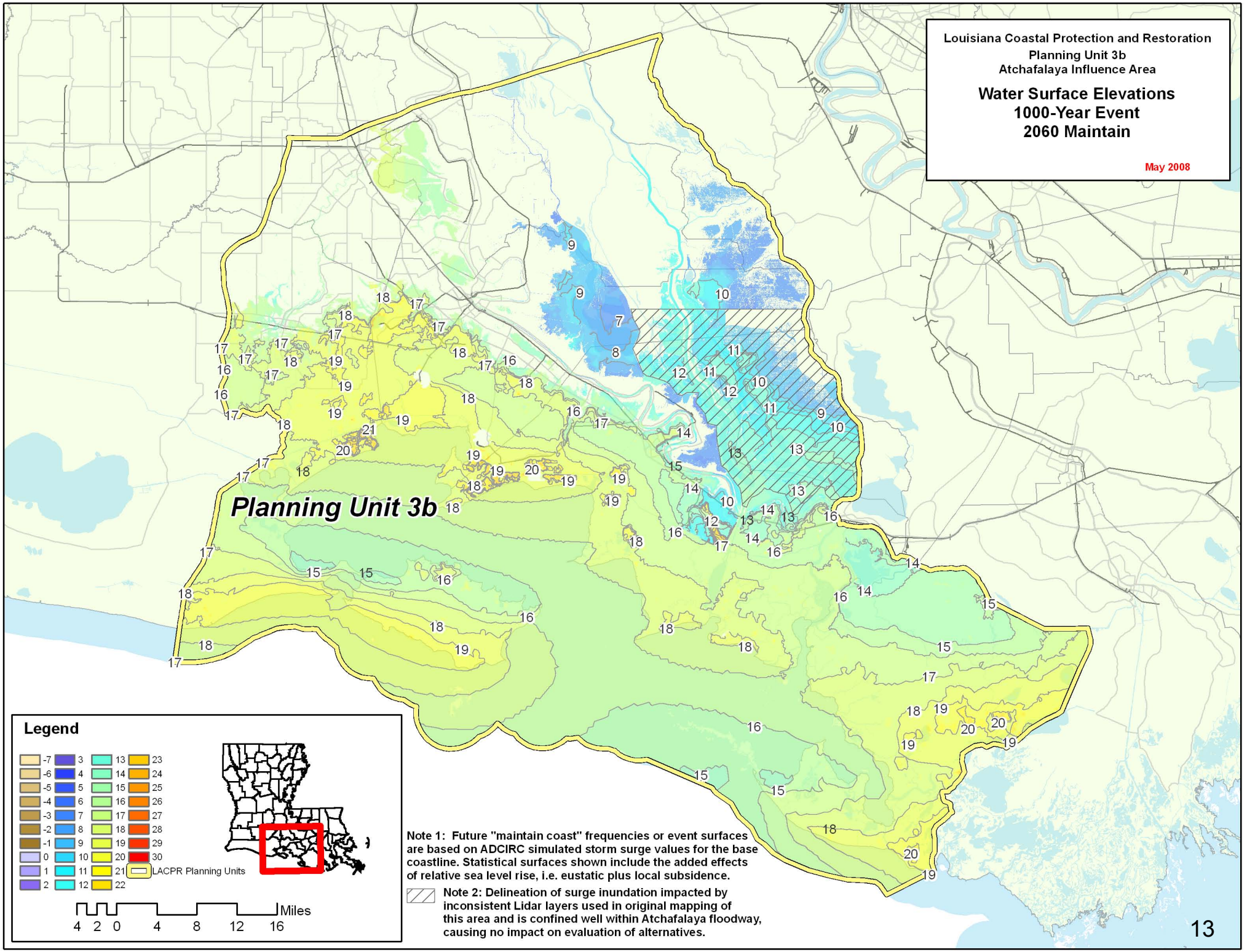

Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Water Surface Elevations
100-Year Event
2060 No Action
May 2008
Planning Unit 3b
Legend
-7 -6 -5 -4 -3 -2 -1 0 1 2
3 4 5 6 7 8 9 10 11 12
13 14 15 16 17 18 19 20 21 22
23 24 25 26 27 28 29 30
LACPR Planning Units
Miles
4 2 0 4 8 12 16
Note: Future "no-action" frequencies or event surfaces are based on ADCIRC simulated storm surge values for a projected "50-yr" future coast based on no additional coastal restoration. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.


Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Water Surface Elevations
400-Year Event
2060 No Action
May 2008
Planning Unit 3b
Legend
-7 -6 -5 -4 -3 -2 -1 0 1 2
3 4 5 6 7 8 9 10 11 12
13 14 15 16 17 18 19 20 21 22
23 24 25 26 27 28 29 30
LACPR Planning Units
Miles
4 2 0 4 8 12 16
Note: Future "no-action" frequencies or event surfaces are based on ADCIRC simulated storm surge values for a projected "50-yr" future coast based on no additional coastal restoration. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.


Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Water Surface Elevations
1000-Year Event
2060 No Action
May 2008
Planning Unit 3b
Legend
-7 -6 -5 -4 -3 -2 -1 0 1 2
3 4 5 6 7 8 9 10 11 12
13 14 15 16 17 18 19 20 21 22
23 24 25 26 27 28 29 30
LACPR Planning Units
Miles
4 2 0 4 8 12 16
Note: Future "no-action" frequencies or event surfaces are based on ADCIRC simulated storm surge values for a projected "50-yr" future coast based on no additional coastal restoration. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.


Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Water Surface Elevations
100-Year Event
2060 Maintain
May 2008
Planning Unit 3b
Legend
-7 -6 -5 -4 -3 -2 -1 0 1 2
3 4 5 6 7 8 9 10 11 12
13 14 15 16 17 18 19 20 21 22
23 24 25 26 27 28 29 30
LACPR Planning Units
Miles
4 2 0 4 8 12 16
Note 1: Future "maintain coast" frequencies or event surfaces are based on ADCIRC simulated storm surge values for the base coastline. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.
Note 2: Delineation of surge inundation impacted by inconsistent Lidar layers used in original mapping of this area and is confined well within Atchafalaya floodway, causing no impact on evaluation of alternatives.


Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Water Surface Elevations
400-Year Event
2060 Maintain
May 2008
Planning Unit 3b
Legend
-7 -6 -5 -4 -3 -2 -1 0 1 2
3 4 5 6 7 8 9 10 11 12
13 14 15 16 17 18 19 20 21 22
23 24 25 26 27 28 29 30
LACPR Planning Units
Miles
4 2 0 4 8 12 16
Note 1: Future "maintain coast" frequencies or event surfaces are based on ADCIRC simulated storm surge values for the base coastline. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.
Note 2: Delineation of surge inundation impacted by inconsistent Lidar layers used in original mapping of this area and is confined well within Atchafalaya floodway, causing no impact on evaluation of alternatives.


Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Water Surface Elevations
1000-Year Event
2060 Maintain
May 2008
Planning Unit 3b
Legend
LACPR Planning Units
Miles
4 2 0 4 8 12 16
Note 1: Future "maintain coast" frequencies or event surfaces are based on ADCIRC simulated storm surge values for the base coastline. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.
Note 2: Delineation of surge inundation impacted by inconsistent Lidar layers used in original mapping of this area and is confined well within Atchafalaya floodway, causing no impact on evaluation of alternatives.

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 for existing levees.				

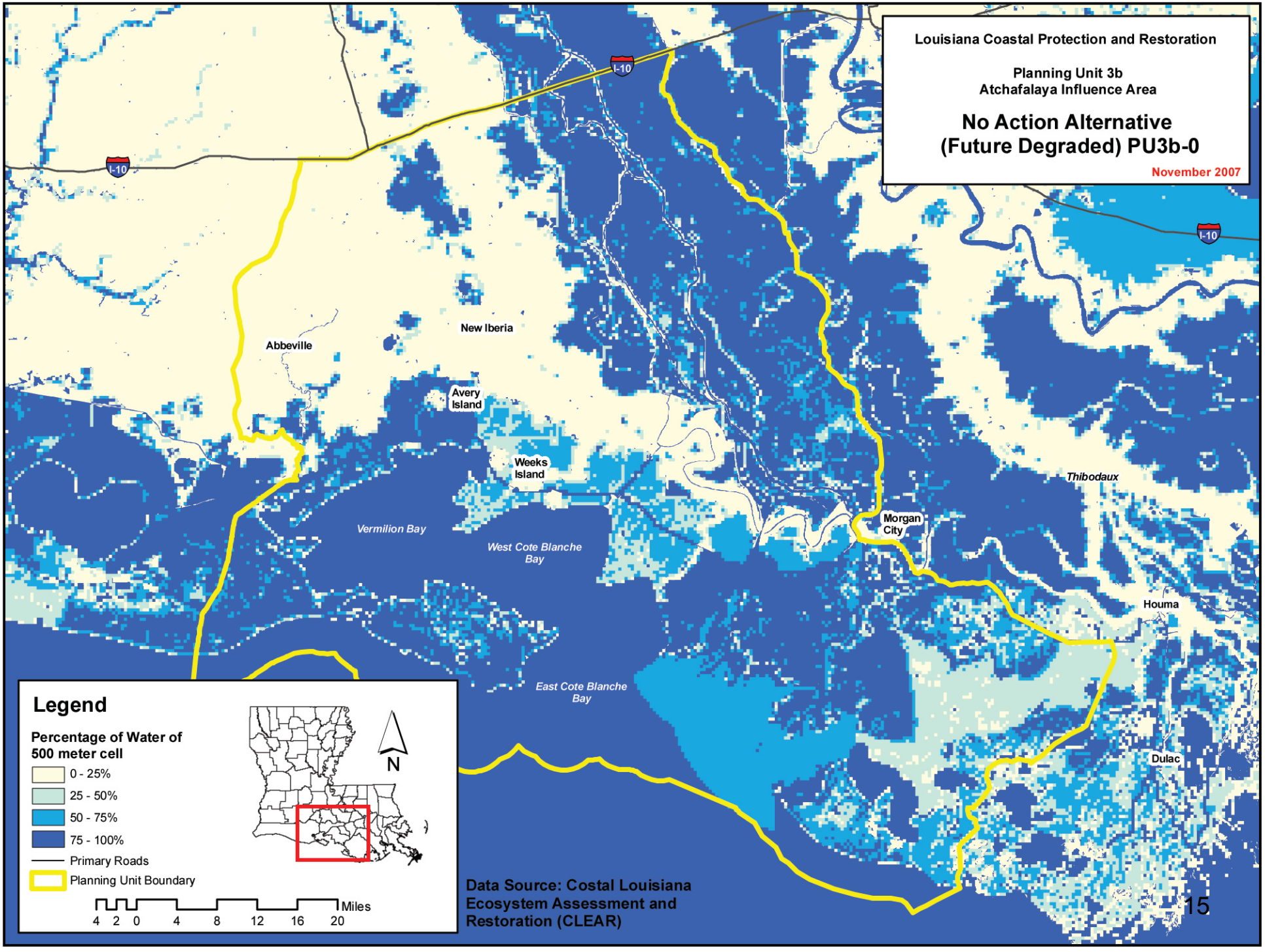
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	0	4,331	203	343	1,176	78	19	13	1
		Mid		6,163	326	503	1,849	118	17	10	1
		Low		7,655	469	614	2,248	141	14	6	0
2	High RSLR High Employment Dispersed Population	High	0	4,852	242	272	1,347	94	19	11	1
		Mid		6,771	379	341	2,017	133	17	8	0
		Low		8,345	529	383	2,357	150	14	3	0
3	Low RSLR Business-as-Usual Compact Population	High	0	4,055	201	360	1,178	81	19	13	1
		Mid		5,863	323	525	1,826	119	17	10	1
		Low		7,317	460	645	2,207	142	14	6	0
4	High RSLR Business-as-Usual Compact Population	High	0	4,571	239	431	1,332	94	19	11	1
		Mid		6,445	373	605	1,997	135	17	8	0
		Low		8,000	516	706	2,338	153	14	3	0

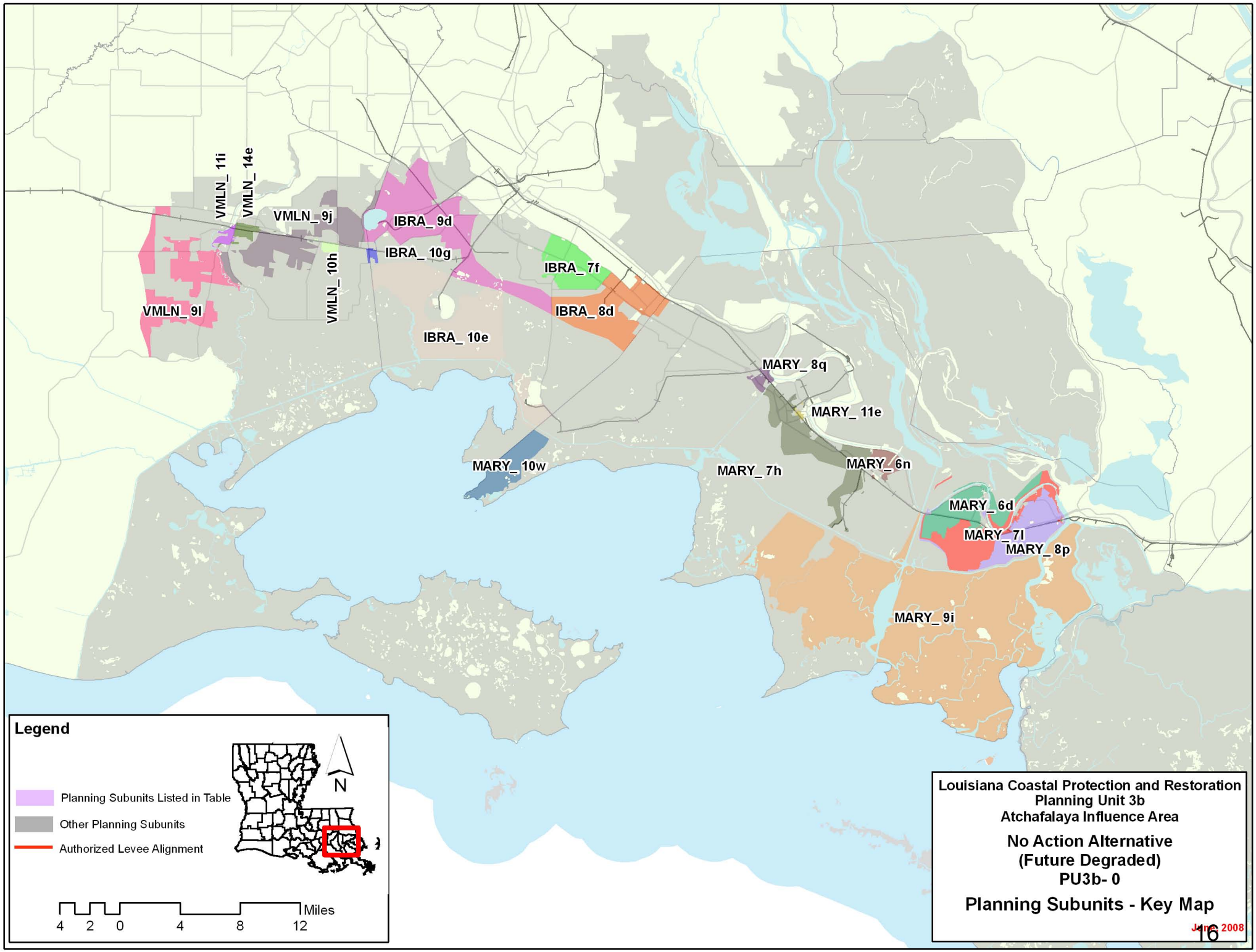
Other Results			
Construction Time (years)			0
Direct Wetland Impacts (acres)			0
Indirect Impacts (unitless)			0
Spatial Integrity (unitless)			0.31
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	($ Millions)	
	1 / 2	0	0
	3 / 4	0	0

Wetlands Created/Protected	Scenario 1	Scenario 2	Scenario 3	Scenario 4
After 50 yrs (% of baseline)	97	95	97	95
After 100 yrs (% of baseline)	94	89	94	89
Present Value of Life Cycle Costs ($ Millions)				
Coastal Component	0	0	0	0
Nonstructural Component	0	0	0	0
Structural Component	0	0	0	0
Total Project	0	0	0	0

2075 Residual Risk / Damages - Low Uncertainty ($ Millions)									Planning Unit 3b
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj	No Action	With Proj	No Action	With Proj	No Action	With Proj	
10-year	1,024	N/A	1,523	N/A	1,013	N/A	1,543	N/A	
100-year	4,254	N/A	5,717	N/A	4,148	N/A	5,447	N/A	
400-year	8,571	N/A	9,628	N/A	7,772	N/A	8,782	N/A	No Action Plan
1,000-year	11,203	N/A	11,827	N/A	10,886	N/A	11,680	N/A	
2,000-year	12,281	N/A	12,591	N/A	12,370	N/A	12,769	N/A	

Note: **Present Value** costs and **Annual Equivalent** numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4 7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.


Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
No Action Alternative
(Future Degraded) PU3b-0
November 2007
I-10
I-10
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: Costal Louisiana Ecosystem Assessment and Restoration (CLEAR)


VMLN_ 11i
VMLN_ 14e
VMLN_ 9j
IBRA_ 9d
IBRA_ 10g
VMLN_ 10h
IBRA_ 7f
VMLN_ 9l
IBRA_ 8d
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
4 2 0 4 8 12
Miles
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
No Action Alternative
(Future Degraded)
PU3b- 0
Planning Subunits - Key Map
June 2008

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	11.7		15.2		17.0		14.9		18.4		20.2	
IBRA_ 10g	11.5		15.4		17.8		14.7		18.6		21.0	
IBRA_ 7f	8.1		11.3		14.5		11.3		14.5		17.7	
IBRA_ 8d	10.1		15.2		19.1		13.3		18.4		22.3	
IBRA_ 9d	9.0		13.8		17.1		12.2		17.0		20.3	
MARY_ 10w	11.7		16.0		17.9		13.9		17.6		20.0	
MARY_ 11e	7.8		11.3		14.1		11.0		14.5		17.3	
MARY_ 6d	7.8		9.6		12.0		11.0		12.8		15.2	
MARY_ 6n	7.9		13.9		14.8		11.1		17.1		18.0	
MARY_ 7h	7.8		10.9		13.2		11.0		14.1		16.4	
MARY_ 7l	7.8		10.6		13.1		11.0		13.8		16.3	
MARY_ 8p	8.6		12.4		14.8		11.8		15.6		18.0	
MARY_ 8q	8.2		13.5		17.2		11.4		16.7		20.4	
MARY_ 9i	9.9		13.4		15.4		13.1		16.6		18.6	
VMLN_ 10h	11.4		15.6		18.3		14.6		18.8		21.5	
VMLN_ 11i	7.8		11.3		14.8		11.0		14.5		18.0	
VMLN_ 14e	7.8		9.4		14.3		11.0		12.6		17.5	
VMLN_ 9j	7.8		13.1		16.3		11.0		16.3		19.5	
VMLN_ 9l	10.6		13.7		15.5		13.8		16.9		18.7	

Evaluation Parameters					
	Confidence Level:	90%		Levee Design:	No Friction Waves
	Future Relative Sea Level Rise:	3.2 feet		Levee Overtopping:	No Friction Waves

Planning Unit:	3b	Alt. No.:	PU3b-R1	Category:	Coastal Restoration Only
Alternative Description:	Sustain coastal landscape through restoration including shoreline protection, marsh creation, etc.				
Coastal Component:	R1	Nonstructural Component:	None		
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

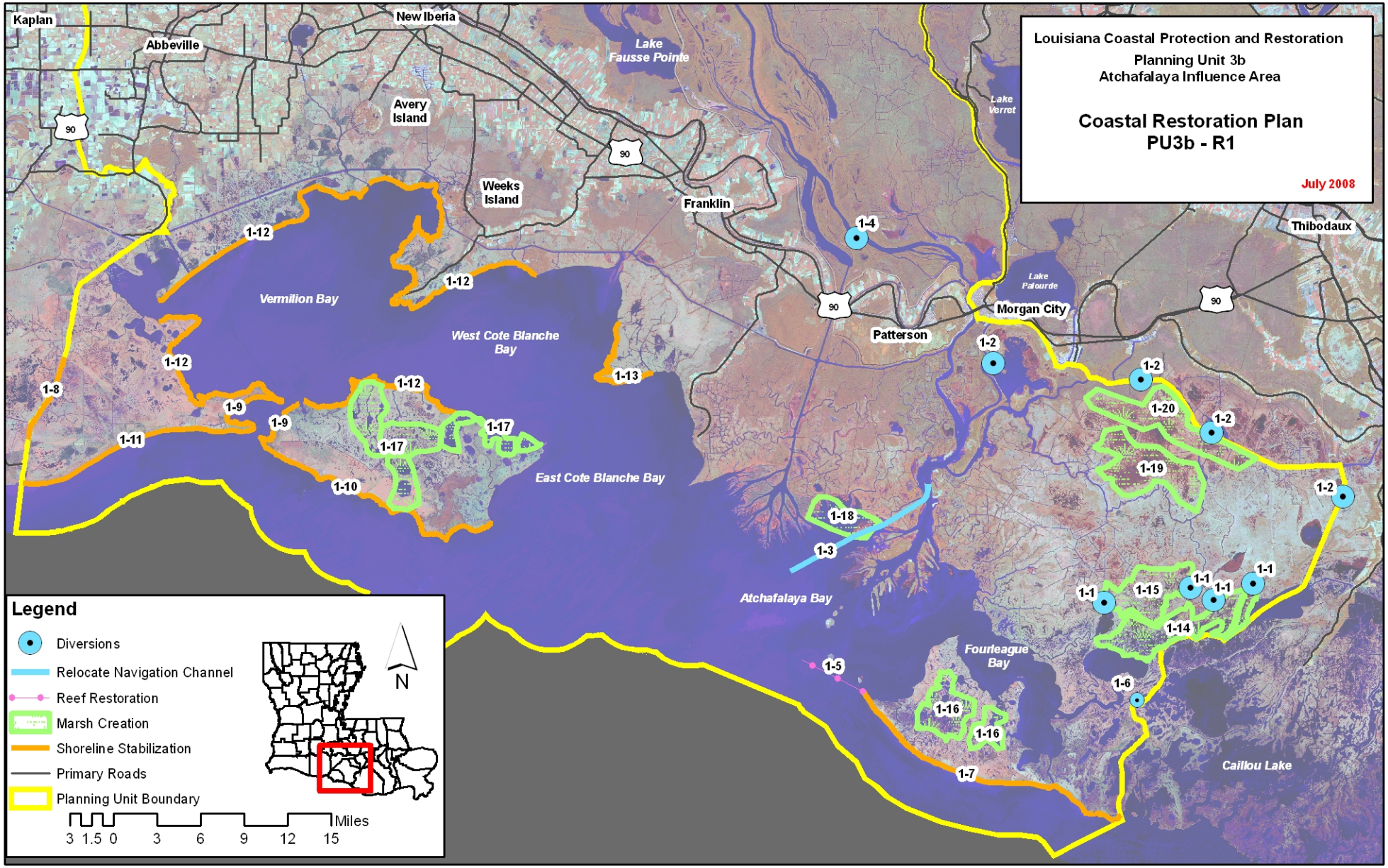
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	243	4,326	203	343	1,177	78	154	2	2
		Mid		6,162	327	502	1,847	118	130	2	2
		Low		7,655	469	613	2,247	141	106	2	0
2	High RSLR High Employment Dispersed Population	High	245	4,854	242	413	1,347	94	154	4	2
		Mid		6,761	379	571	2,017	133	130	2	1
		Low		8,344	529	665	2,358	150	106	2	0
3	Low RSLR Business-as-Usual Compact Population	High	243	4,051	201	361	1,179	81	154	2	2
		Mid		5,862	323	524	1,823	119	130	2	2
		Low		7,316	460	645	2,207	142	106	2	0
4	High RSLR Business-as-Usual Compact Population	High	245	4,574	239	431	1,332	94	154	4	2
		Mid		6,440	373	605	1,997	135	130	2	1
		Low		7,998	516	706	2,339	153	106	2	0

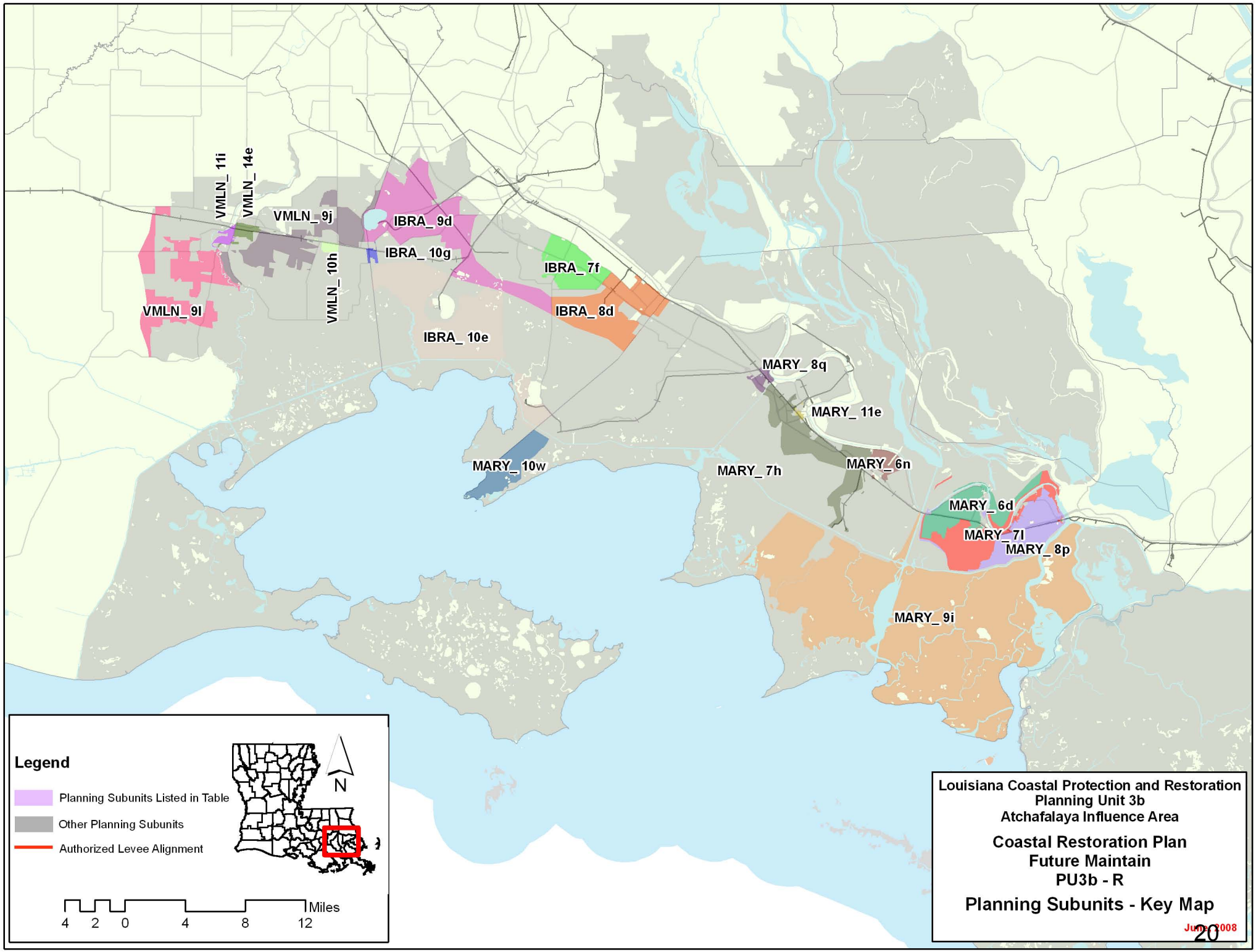
Other Results			
Construction Time (years)			15
Direct Wetland Impacts (acres)			0
Indirect Impacts (unitless)			0
Spatial Integrity (unitless)			0.44
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	($ Millions)	
	1 / 2	1,664	1,679
	3 / 4	1,664	1,679

Wetlands Created/Protected	Scenario 1	Scenario 2	Scenario 3	Scenario 4
After 50 yrs (% of baseline)	105	104	105	104
After 100 yrs (% of baseline)	105	100	105	100
Present Value of Life Cycle Costs ($ Millions)				
Coastal Component	4,756	4,796	4,756	4,796
Nonstructural Component	0	0	0	0
Structural Component	0	0	0	0
Total Project	4,756	4,796	4,756	4,796

2075 Residual Risk / Damages - Low Uncertainty ($ Millions)									Planning Unit 3b Coastal Plan Coastal Restoration Alt
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj	No Action	With Proj	No Action	With Proj	No Action	With Proj	
10-year	1,024	1,022	1,523	1,522	1,013	1,012	1,543	1,545	
100-year	4,254	4,253	5,717	5,721	4,148	4,147	5,447	5,452	
400-year	8,571	8,576	9,628	9,629	7,772	7,771	8,782	8,779	
1,000-year	11,203	11,197	11,827	11,823	10,886	10,877	11,680	11,673	
2,000-year	12,281	12,280	12,591	12,590	12,370	12,369	12,769	12,766	

Note: **Present Value** costs and **Annual Equivalent** numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4 7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.


Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Coastal Restoration Plan
PU3b - R1
July 2008
Kaplan
Abbeville
New Iberia
Avery Island
Weeks Island
Lake Fausse Pointe
Lake Verret
Franklin
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
1-6
1-7
1-8
1-9
1-10
1-11
1-12
1-13
1-14
1-15
1-16
1-17
1-18
1-19
1-20
Legend
Diversions
Relocate Navigation Channel
Reef Restoration
Marsh Creation
Shoreline Stabilization
Primary Roads
Planning Unit Boundary
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
VMLN_ 9l
IBRA_ 8d
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
June 2008

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	11.7	11.7	15.2	15.2	17.0	17.0	14.9	14.9	18.4	18.4	20.2	20.2
IBRA_ 10g	11.5	11.5	15.4	15.4	17.8	17.8	14.7	14.7	18.6	18.6	21.0	21.0
IBRA_ 7f	8.1	8.1	11.3	11.3	14.5	14.5	11.3	11.3	14.5	14.5	17.7	17.7
IBRA_ 8d	10.1	10.1	15.2	15.2	19.1	19.1	13.3	13.3	18.4	18.4	22.3	22.3
IBRA_ 9d	9.0	9.0	13.8	13.8	17.1	17.1	12.2	12.2	17.0	17.0	20.3	20.3
MARY_ 10w	11.7	11.7	16.0	16.0	17.9	17.9	13.9	14.9	17.6	19.2	20.0	21.1
MARY_ 11e	7.8	7.8	11.3	11.3	14.1	14.1	11.0	11.0	14.5	14.5	17.3	17.3
MARY_ 6d	7.8	7.8	9.6	9.6	12.0	12.0	11.0	11.0	12.8	12.8	15.2	15.2
MARY_ 6n	7.9	7.9	13.9	13.9	14.8	14.8	11.1	11.1	17.1	17.1	18.0	18.0
MARY_ 7h	7.8	7.8	10.9	10.9	13.2	13.2	11.0	11.0	14.1	14.1	16.4	16.4
MARY_ 7l	7.8	7.8	10.6	10.6	13.1	13.1	11.0	11.0	13.8	13.8	16.3	16.3
MARY_ 8p	8.6	8.6	12.4	12.4	14.8	14.8	11.8	11.8	15.6	15.6	18.0	18.0
MARY_ 8q	8.2	8.2	13.5	13.5	17.2	17.2	11.4	11.4	16.7	16.7	20.4	20.4
MARY_ 9i	9.9	9.9	13.4	13.4	15.4	15.4	13.1	13.1	16.6	16.6	18.6	18.6
VMLN_ 10h	11.4	11.4	15.6	15.6	18.3	18.3	14.6	14.6	18.8	18.8	21.5	21.5
VMLN_ 11i	7.8	7.8	11.3	11.3	14.8	14.8	11.0	11.0	14.5	14.5	18.0	18.0
VMLN_ 14e	7.8	7.8	9.4	9.4	14.3	14.3	11.0	11.0	12.6	12.6	17.5	17.5
VMLN_ 9j	7.8	7.8	13.1	13.1	16.3	16.3	11.0	11.0	16.3	16.3	19.5	19.5
VMLN_ 9l	10.6	10.6	13.7	13.7	15.5	15.5	13.8	13.8	16.9	16.9	18.7	18.7

Evaluation Parameters				
	Confidence Level:	90%	Levee Design:	No Friction Waves
	Future Relative Sea Level Rise:	3.2 feet	Levee Overtopping:	No Friction Waves

* With and without project base conditions (2010) are the same for coastal restoration only plans.

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:**	100-yr stand alone measures		
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

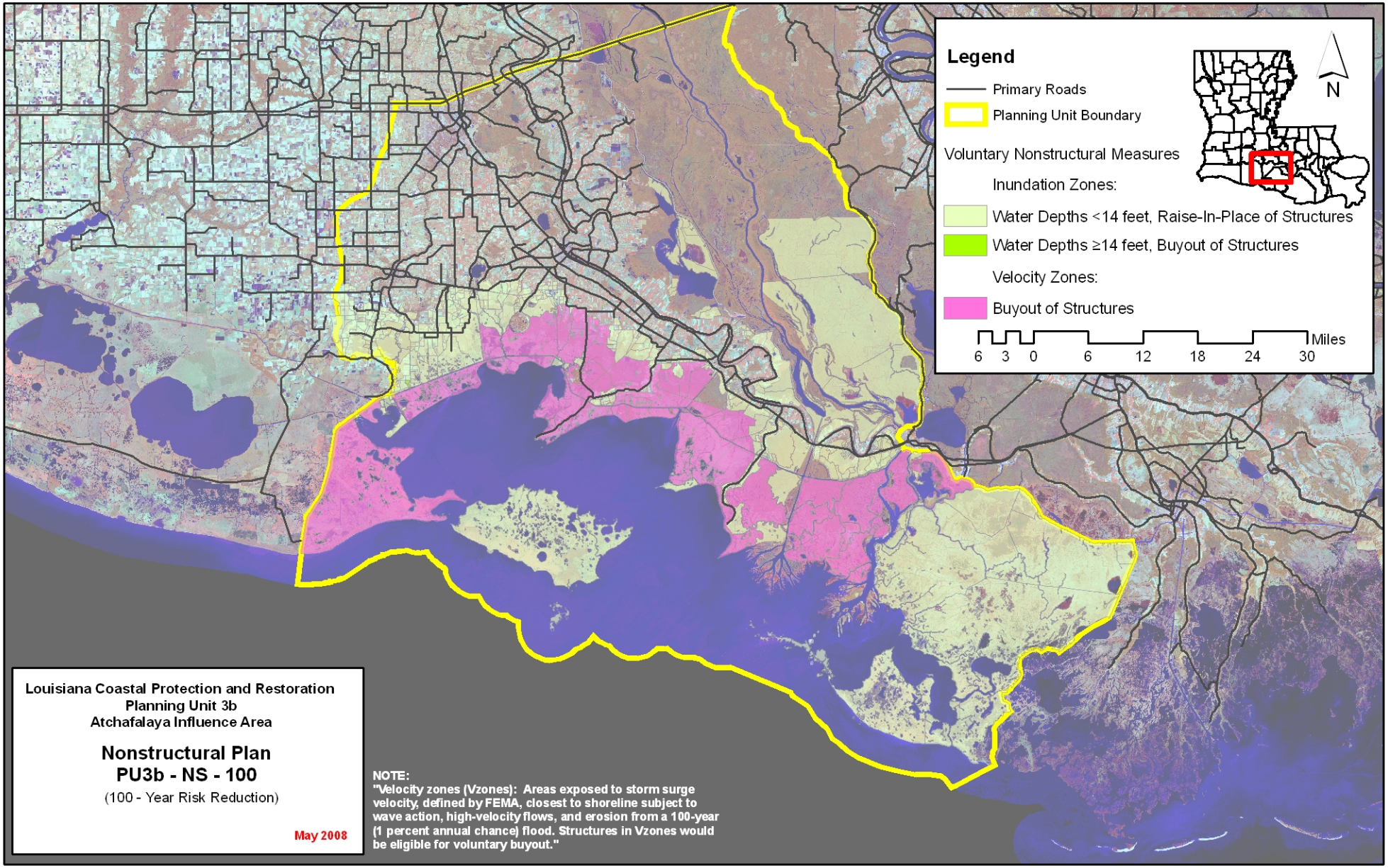
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	377	3,848	81	82	383	19	154	2	2
		Mid		5,662	146	205	855	48	130	2	2
		Low		7,118	245	288	1,142	65	106	2	0
2	High RSLR High Employment Dispersed Population	High	379	4,117	90	72	509	31	154	4	2
		Mid		5,970	173	147	971	60	130	2	1
		Low		7,473	283	195	1,230	74	106	2	0
3	Low RSLR Business-as-Usual Compact Population	High	380	3,603	80	80	358	17	154	2	2
		Mid		5,396	143	208	812	47	130	2	2
		Low		6,818	237	296	1,082	63	106	2	0
4	High RSLR Business-as-Usual Compact Population	High	382	3,870	89	137	478	29	154	4	2
		Mid		5,693	169	263	933	59	130	2	1
		Low		7,169	272	339	1,188	73	106	2	0

Other Results			
Construction Time (years)			15
Direct Wetland Impacts (acres)			0
Indirect Impacts (unitless)			0
Spatial Integrity (unitless)			0.44
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	($ Millions)	
	1 / 2	2,584	2,598
	3 / 4	2,609	2,623

Wetlands Created/Protected	Scenario 1	Scenario 2	Scenario 3	Scenario 4
After 50 yrs (% of baseline)	105	104	105	104
After 100 yrs (% of baseline)	105	100	105	100
Present Value of Life Cycle Costs ($ Millions)				
Coastal Component	4,756	4,796	4,756	4,796
Nonstructural Component	2,628	2,628	2,698	2,698
Structural Component	0	0	0	0
Total Project	7,383	7,424	7,454	7,494

2075 Residual Risk / Damages - Low Uncertainty ($ Millions)									Planning Unit 3b
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj	No Action	With Proj	No Action	With Proj	No Action	With Proj	
10-year	1,024	141	1,523	331	1,013	137	1,543	347	Nonstructural Plan
100-year	4,254	2,344	5,717	4,542	4,148	2,237	5,447	4,259	
400-year	8,571	7,954	9,628	9,163	7,772	7,133	8,782	8,294	
1,000-year	11,203	10,805	11,827	11,505	10,886	10,465	11,680	11,338	
2,000-year	12,281	11,993	12,591	12,328	12,370	12,068	12,769	12,492	100-year Design

Note: **Present Value** costs and **Annual Equivalent** numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4 7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.


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)
May 2008
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:	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:**	400-yr stand alone measures		
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

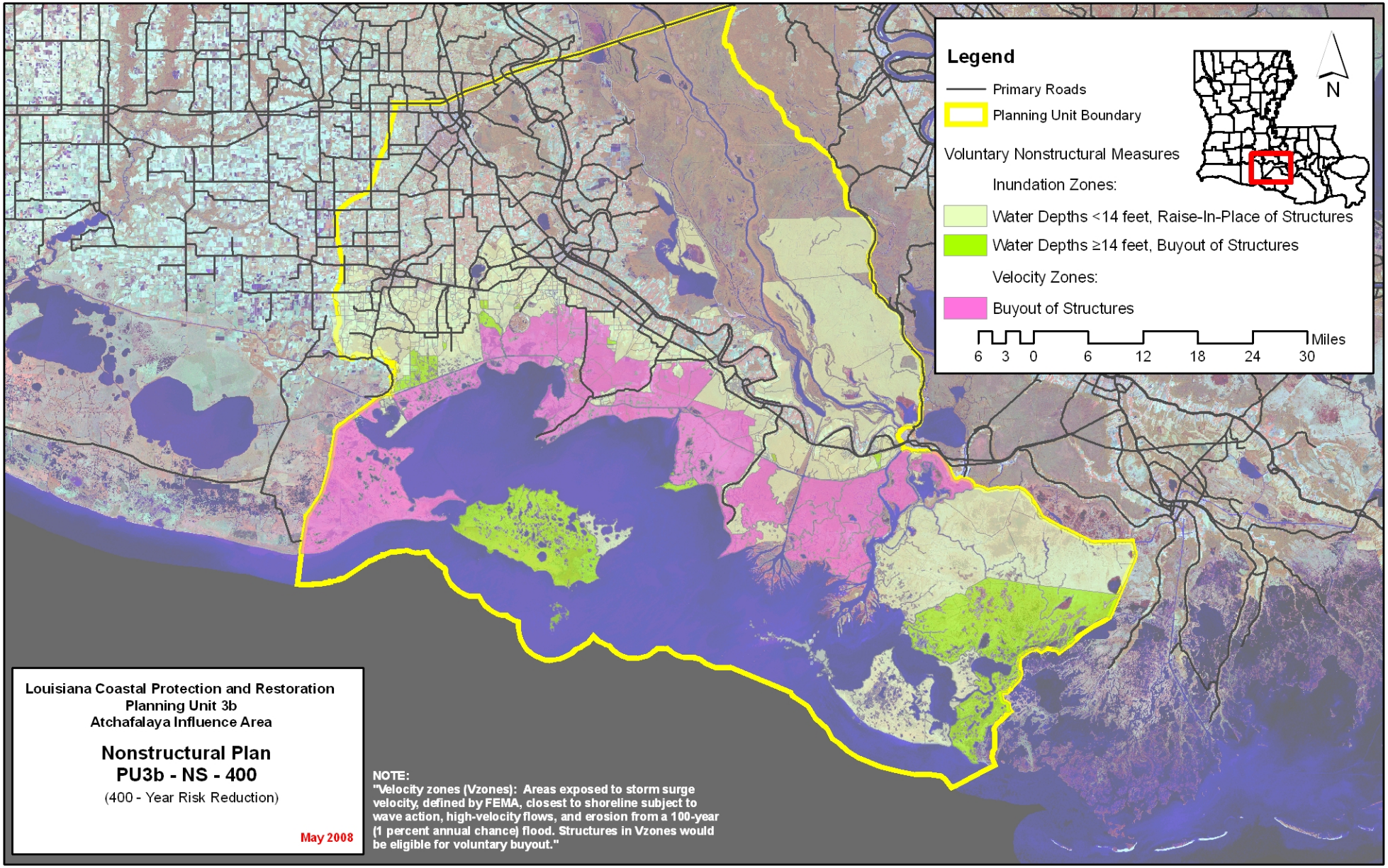
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	475	3,848	72	66	333	15	154	2	2
		Mid		5,661	119	119	598	29	130	2	2
		Low		7,117	183	162	781	37	106	2	0
2	High RSLR High Employment Dispersed Population	High	477	4,116	75	4	338	15	154	4	2
		Mid		5,969	125	20	615	30	130	2	1
		Low		7,472	193	66	845	44	106	2	0
3	Low RSLR Business-as-Usual Compact Population	High	481	3,602	72	63	311	14	154	2	2
		Mid		5,395	118	114	560	27	130	2	2
		Low		6,818	179	158	727	35	106	2	0
4	High RSLR Business-as-Usual Compact Population	High	484	3,869	74	65	316	14	154	4	2
		Mid		5,692	123	122	577	29	130	2	1
		Low		7,169	189	194	788	41	106	2	0

Other Results			
Construction Time (years)			15
Direct Wetland Impacts (acres)			0
Indirect Impacts (unitless)			0
Spatial Integrity (unitless)			0.44
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	($ Millions)	
	1 / 2	3,259	3,274
	3 / 4	3,303	3,318

Wetlands Created/Protected	Scenario 1	Scenario 2	Scenario 3	Scenario 4
After 50 yrs (% of baseline)	105	104	105	104
After 100 yrs (% of baseline)	105	100	105	100
Present Value of Life Cycle Costs ($ Millions)				
Coastal Component	4,756	4,796	4,756	4,796
Nonstructural Component	4,557	4,557	4,683	4,683
Structural Component	0	0	0	0
Total Project	9,313	9,353	9,438	9,479

2075 Residual Risk / Damages - Low Uncertainty ($ Millions)									Planning Unit 3b
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj	No Action	With Proj	No Action	With Proj	No Action	With Proj	
10-year	1,024	116	1,523	167	1,013	112	1,543	162	Nonstructural Plan
100-year	4,254	537	5,717	853	4,148	524	5,447	825	
400-year	8,571	3,643	9,628	6,793	7,772	3,185	8,782	6,048	
1,000-year	11,203	9,691	11,827	10,927	10,886	9,314	11,680	10,695	
2,000-year	12,281	11,524	12,591	12,009	12,370	11,536	12,769	12,144	400-year Design

Note: **Present Value** costs and **Annual Equivalent** numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4 7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.


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)
May 2008
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:	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:**	1000-yr stand alone measures		
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

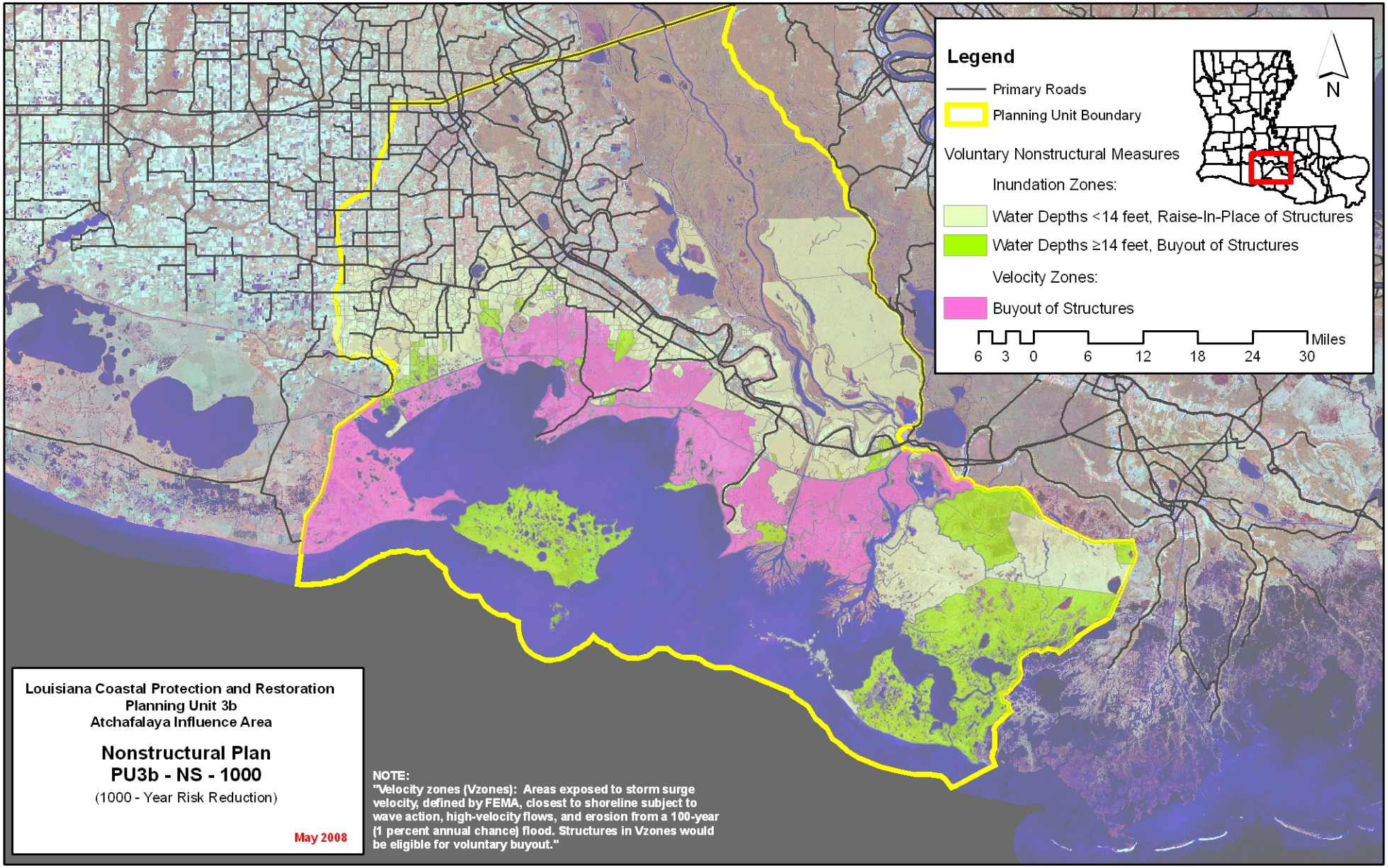
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	533	3,755	70	65	329	15	154	2	2
		Mid		5,562	114	107	568	27	130	2	2
		Low		7,016	166	138	705	32	106	2	0
2	High RSLR High Employment Dispersed Population	High	535	4,024	72	0	330	15	154	4	2
		Mid		5,870	117	4	575	27	130	2	1
		Low		7,370	171	15	723	34	106	2	0
3	Low RSLR Business-as-Usual Compact Population	High	567	3,519	70	62	308	14	154	2	2
		Mid		5,311	113	102	534	25	130	2	2
		Low		6,732	164	133	662	30	106	2	0
4	High RSLR Business-as-Usual Compact Population	High	569	3,786	71	62	309	14	154	4	2
		Mid		5,609	116	105	540	26	130	2	1
		Low		7,083	168	141	680	32	106	2	0

Other Results			
Construction Time (years)			15
Direct Wetland Impacts (acres)			0
Indirect Impacts (unitless)			0
Spatial Integrity (unitless)			0.44
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	($ Millions)	
	1 / 2	3,660	3,674
	3 / 4	3,888	3,902

Wetlands Created/Protected	Scenario 1	Scenario 2	Scenario 3	Scenario 4
After 50 yrs (% of baseline)	105	104	105	104
After 100 yrs (% of baseline)	105	100	105	100
Present Value of Life Cycle Costs ($ Millions)				
Coastal Component	4,756	4,796	4,756	4,796
Nonstructural Component	5,701	5,701	6,353	6,353
Structural Component	0	0	0	0
Total Project	10,457	10,497	11,108	11,149

2075 Residual Risk / Damages - Low Uncertainty ($ Millions)									Planning Unit 3b
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj	No Action	With Proj	No Action	With Proj	No Action	With Proj	
10-year	1,024	103	1,523	139	1,013	100	1,543	135	Nonstructural Plan
100-year	4,254	433	5,717	565	4,148	424	5,447	555	
400-year	8,571	817	9,628	1,370	7,772	801	8,782	1,309	
1,000-year	11,203	3,928	11,827	7,609	10,886	3,963	11,680	7,536	1000-year Design
2,000-year	12,281	9,274	12,591	10,830	12,370	9,374	12,769	10,929	

Note: **Present Value** costs and **Annual Equivalent** numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4 7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.


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 - 1000
(1000 - Year Risk Reduction)
May 2008
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:	3b	**Alt. No.:**	PU3b-G-100-1	**Category:**	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Raise ring levee around Patterson/Berwick to 100-year design level and construct levee along the GIWW west to the boundary of Planning Unit 4 at the 100-year design level.				
Coastal Component:	R1		**Nonstructural Component:**		None
Structural Component:	See alternative description above.				

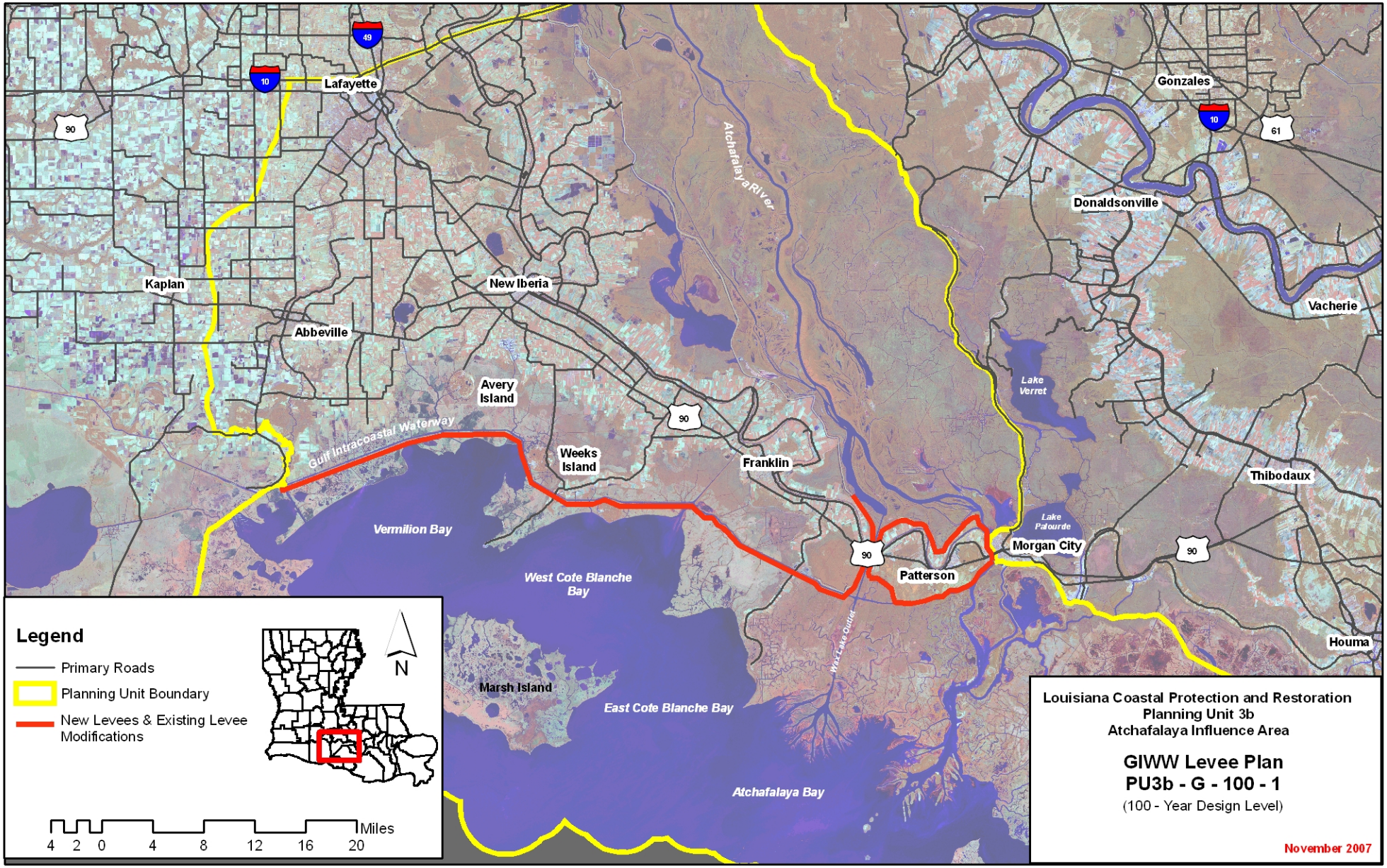
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,020	1,660	94	121	514	27	312	20	5
		Mid		2,465	146	180	816	43	288	19	5
		Low		3,227	210	225	1,000	52	264	18	5
2	High RSLR High Employment Dispersed Population	High	1,023	1,733	100	54	536	29	312	20	5
		Mid		2,551	154	65	838	45	288	18	5
		Low		3,324	219	78	1,014	53	264	18	4
3	Low RSLR Business-as-Usual Compact Population	High	1,020	1,562	94	121	496	27	312	20	5
		Mid		2,357	145	179	782	42	288	19	5
		Low		3,101	208	226	957	50	264	18	5
4	High RSLR Business-as-Usual Compact Population	High	1,023	1,633	100	131	516	29	312	20	5
		Mid		2,439	153	191	806	44	288	18	5
		Low		3,198	216	233	973	52	264	18	4

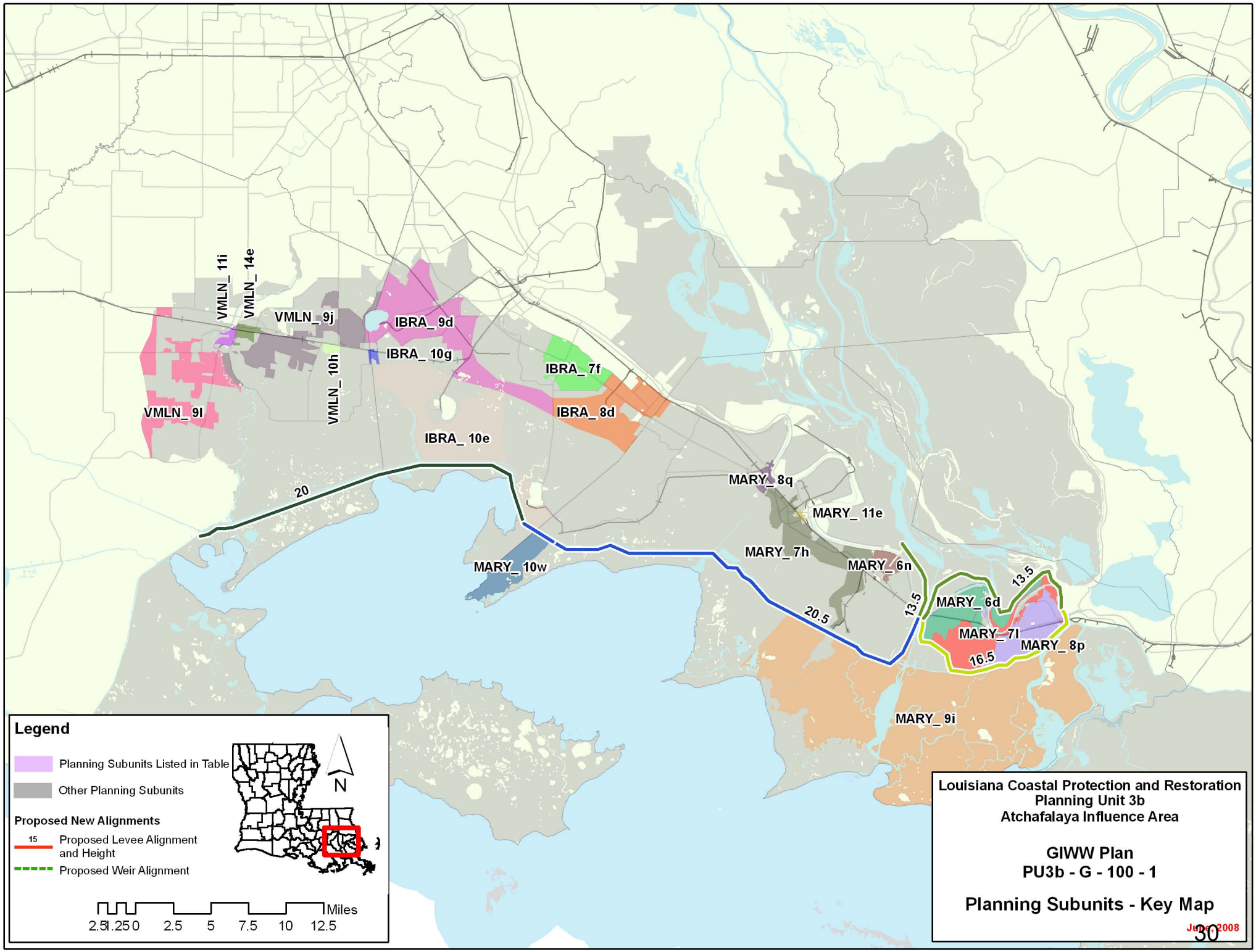
Other Results			
Construction Time (years)			10
Direct Wetland Impacts (acres)			2,300
Indirect Impacts (unitless)			-8
Spatial Integrity (unitless)			0.44
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	($ Millions)	
	1 / 2	7,047	7,070
	3 / 4	7,047	7,070

Wetlands Created/Protected	Scenario 1	Scenario 2	Scenario 3	Scenario 4
After 50 yrs (% of baseline)	105	104	105	104
After 100 yrs (% of baseline)	105	100	105	100
Present Value of Life Cycle Costs ($ Millions)				
Coastal Component	4,756	4,796	4,756	4,796
Nonstructural Component	0	0	0	0
Structural Component	15,214	15,238	15,214	15,238
Total Project	19,970	20,035	19,970	20,035

2075 Residual Risk / Damages - Low Uncertainty ($ Millions)									Planning Unit 3b Structural Plan GIWW Alt 100-year Design
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj	No Action	With Proj	No Action	With Proj	No Action	With Proj	
10-year	1,024	158	1,523	194	1,013	159	1,543	196	
100-year	4,254	318	5,717	359	4,148	318	5,447	357	
400-year	8,571	567	9,628	614	7,772	579	8,782	633	
1,000-year	11,203	2,867	11,827	2,883	10,886	2,950	11,680	2,969	
2,000-year	12,281	6,368	12,591	6,412	12,370	6,321	12,769	6,338	

Note: **Present Value** costs and **Annual Equivalent** numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4 7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.


Lafayette
Kaplan
New Iberia
Abbeville
Avery Island
Weeks Island
Franklin
Gonzales
Donaldsonville
Vacherie
Thibodaux
Morgan City
Patterson
Houma
Lake Verret
Lake Palourde
Atchafalaya River
Gulf Intracoastal Waterway
Vermilion Bay
West Cote Blanche Bay
East Cote Blanche Bay
Marsh Island
Atchafalaya Bay
Wax Lake Outlet
Legend
Primary Roads
Planning Unit Boundary
New Levees & Existing Levee Modifications
N
4 2 0 4 8 12 16 20 Miles
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
GIWW Levee Plan
PU3b - G - 100 - 1
(100 - Year Design Level)
November 2007


VMLN_ 11i
VMLN_ 14e
VMLN_ 9j
IBRA_ 9d
IBRA_ 10g
VMLN_ 10h
IBRA_ 7f
IBRA_ 8d
VMLN_ 9l
IBRA_ 10e
20
MARY_ 8q
MARY_ 11e
MARY_ 7h
MARY_ 6n
MARY_ 10w
20.5
13.5
13.5
MARY_ 6d
MARY_ 7l
MARY_ 8p
16.5
MARY_ 9i
Legend
Planning Subunits Listed in Table
Other Planning Subunits
Proposed New Alignments
15
Proposed Levee Alignment and Height
Proposed Weir Alignment
N
Miles
2.5 1.25 0 2.5 5 7.5 10 12.5
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
GIWW Plan
PU3b - G - 100 - 1
Planning Subunits - Key Map
June 2008

Alternative: PU3b-G-100-1

Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
IBRA_ 10e	11.6	2.4	15.5	3.9	18.0	8.2	14.8	2.4	18.7	3.9	21.2	8.2
IBRA_ 10g	11.5	2.4	15.4	3.9	17.8	8.2	14.7	2.4	18.6	3.9	21.0	8.2
IBRA_ 7f	8.1	2.4	11.3	3.9	14.5	8.2	11.3	2.4	14.5	3.9	17.7	8.2
IBRA_ 8d	10.1	2.4	15.2	3.9	19.1	8.2	13.3	2.4	18.4	3.9	22.3	8.2
IBRA_ 9d	9.0	2.4	13.8	3.9	17.1	8.2	12.2	2.4	17.0	3.9	20.3	8.2
MARY_ 10w	11.7	13.6	16.0	19.0	17.9	22.7	13.9	16.8	17.6	22.2	20.0	25.9
MARY_ 11e	7.8	1.3	11.3	3.5	14.1	9.1	11.0	1.3	14.5	3.5	17.3	9.1
MARY_ 6d	7.8	-0.4	9.6	3.5	12.0	10.8	11.0	-0.4	12.8	3.5	15.2	10.8
MARY_ 6n	7.9	1.3	13.9	3.5	14.8	9.1	11.1	1.3	17.1	3.5	18.0	9.1
MARY_ 7h	7.8	1.3	10.9	3.5	13.2	9.1	11.0	1.3	14.1	3.5	16.4	9.1
MARY_ 7l	7.8	-0.4	10.6	3.5	13.1	10.8	11.0	-0.4	13.8	3.5	16.3	10.8
MARY_ 8p	8.6	-0.4	12.4	3.5	14.8	10.8	11.8	-0.4	15.6	3.5	18.0	10.8
MARY_ 8q	8.2	1.3	13.5	3.5	17.2	9.1	11.4	1.3	16.7	3.5	20.4	9.1
MARY_ 9i	9.9	10.6	13.4	14.6	15.4	16.8	13.1	13.8	16.6	17.8	18.6	20.0
VMLN_ 10h	11.4	2.4	15.6	3.9	18.3	8.2	14.6	2.4	18.8	3.9	21.5	8.2
VMLN_ 11i	7.8	2.4	11.3	3.9	14.8	8.2	11.0	2.4	14.5	3.9	18.0	8.2
VMLN_ 14e	7.8	2.4	9.4	3.9	14.3	8.2	11.0	2.4	12.6	3.9	17.5	8.2
VMLN_ 9j	7.8	2.4	13.1	3.9	16.3	8.2	11.0	2.4	16.3	3.9	19.5	8.2
VMLN_ 9l	10.6	2.4	13.7	3.9	15.5	8.2	13.8	2.4	16.9	3.9	18.7	8.2

Evaluation Parameters				
	Confidence Level:	90%	Levee Design:	No Friction Waves
	Future Relative Sea Level Rise:	3.2 feet	Levee Overtopping:	No Friction Waves

Planning Unit:	3b	Alt. No.:	PU3b-F-100-1	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Raise ring levee around Patterson/Berwick to 100-year design level and construct levee along the edge of development north of the GIWW to high ground west of Abbeville at the 100-year design level.				
Coastal Component:	R1	Nonstructural Component:	None		
Structural Component:	See alternative description above.				

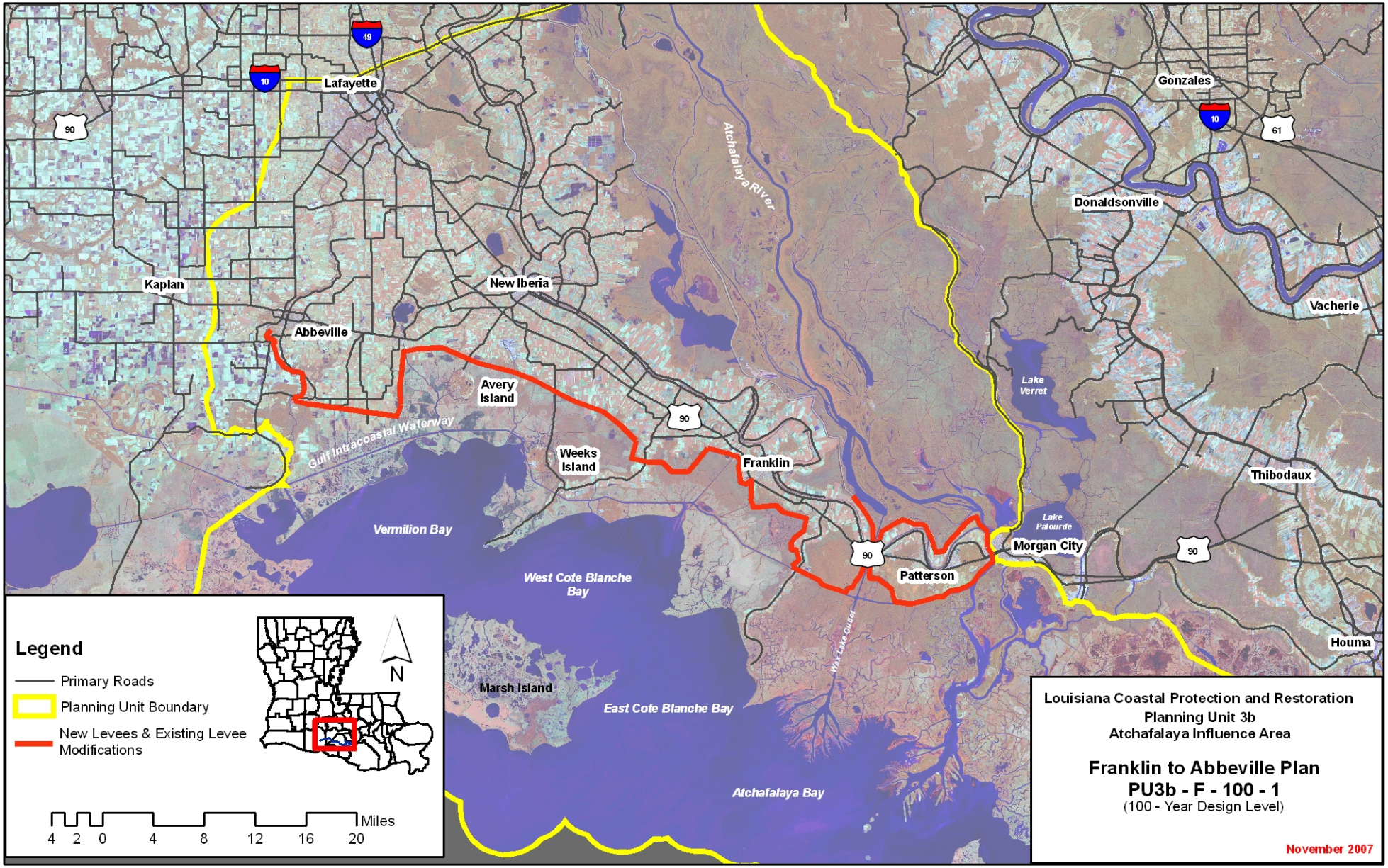
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	954	1,958	107	126	546	29	202	16	3
		Mid		2,881	167	192	875	46	178	15	3
		Low		3,909	261	260	1,148	61	154	14	1
2	High RSLR High Employment Dispersed Population	High	958	2,059	115	60	569	31	202	16	3
		Mid		2,991	178	81	910	50	178	15	2
		Low		4,057	273	113	1,163	62	154	14	0
3	Low RSLR Business-as-Usual Compact Population	High	954	1,829	106	125	523	28	202	16	3
		Mid		2,729	165	191	835	45	178	15	3
		Low		3,734	254	255	1,067	57	154	14	1
4	High RSLR Business-as-Usual Compact Population	High	958	1,922	114	136	546	30	202	16	3
		Mid		2,836	175	203	859	47	178	15	2
		Low		3,869	265	264	1,088	59	154	14	0

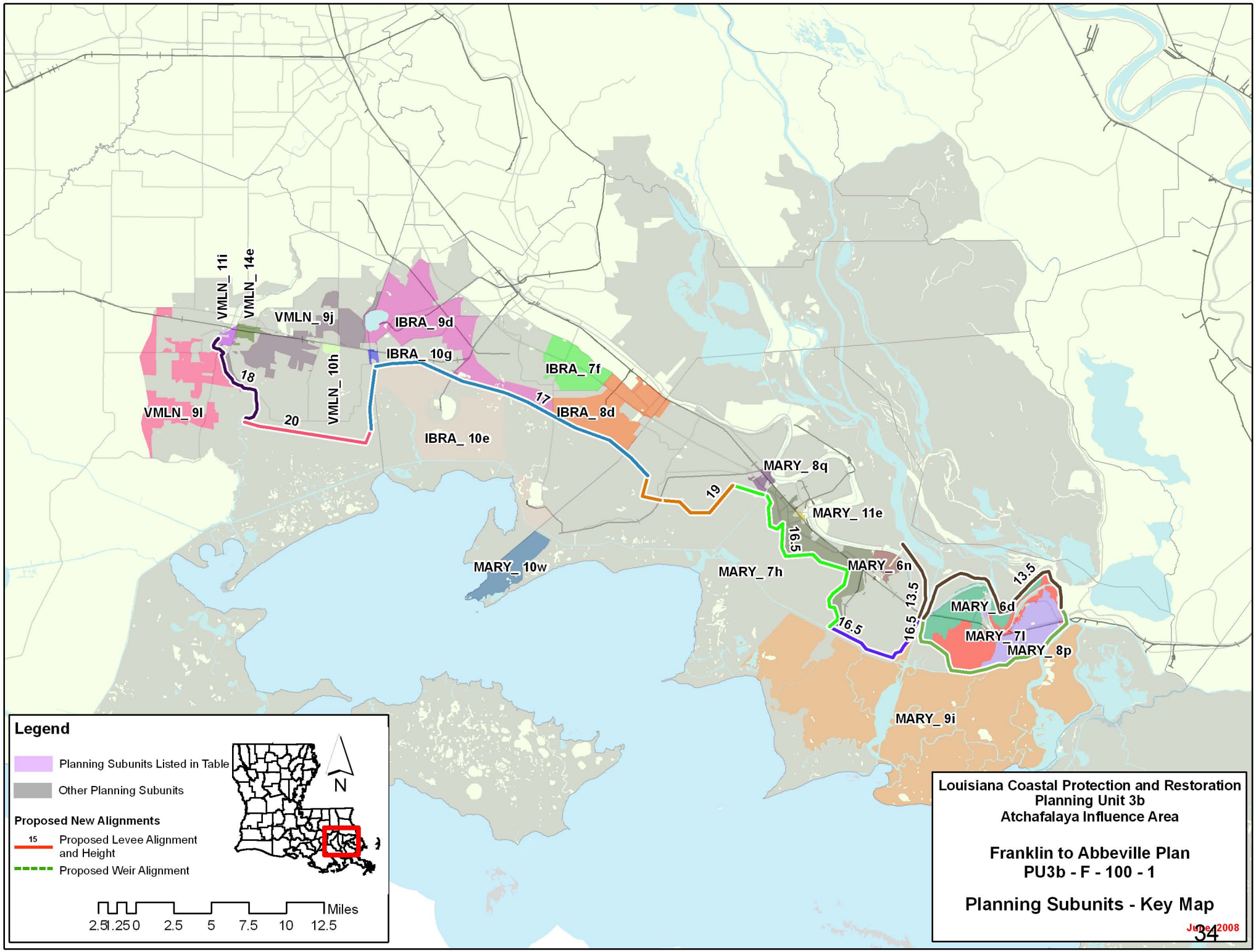
Other Results			
Construction Time (years)			10
Direct Wetland Impacts (acres)			2,500
Indirect Impacts (unitless)			2
Spatial Integrity (unitless)			0.44
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	($ Millions)	
	1 / 2	6,622	6,648
	3 / 4	6,622	6,648

Wetlands Created/Protected	Scenario 1	Scenario 2	Scenario 3	Scenario 4
After 50 yrs (% of baseline)	105	104	105	104
After 100 yrs (% of baseline)	105	100	105	100
Present Value of Life Cycle Costs ($ Millions)				
Coastal Component	4,756	4,796	4,756	4,796
Nonstructural Component	0	0	0	0
Structural Component	13,918	13,955	13,918	13,955
Total Project	18,674	18,751	18,674	18,751

2075 Residual Risk / Damages - Low Uncertainty ($ Millions)									Planning Unit 3b
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj	No Action	With Proj	No Action	With Proj	No Action	With Proj	
10-year	1,024	222	1,523	282	1,013	223	1,543	285	Structural Plan
100-year	4,254	713	5,717	879	4,148	636	5,447	750	Franklin to Abbeville Alt
400-year	8,571	5,508	9,628	5,680	7,772	5,128	8,782	5,287	
1,000-year	11,203	10,913	11,827	11,013	10,886	10,668	11,680	10,828	100-year Design
2,000-year	12,281	11,431	12,591	11,510	12,370	11,339	12,769	11,416	

Note: **Present Value** costs and **Annual Equivalent** numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4 7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.


Lafayette
Kaplan
New Iberia
Abbeville
Avery Island
Weeks Island
Franklin
Patterson
Morgan City
Gonzales
Donaldsonville
Vacherie
Thibodaux
Houma
Atchafalaya River
Gulf Intracoastal Waterway
Vermilion Bay
West Cote Blanche Bay
East Cote Blanche Bay
Marsh Island
Atchafalaya Bay
Lake Verret
Lake Palourde
Wax Lake Outlet
Legend
Primary Roads
Planning Unit Boundary
New Levees & Existing Levee Modifications
N
Miles
4 2 0 4 8 12 16 20
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Franklin to Abbeville Plan
PU3b - F - 100 - 1
(100 - Year Design Level)
November 2007


VMLN_ 11i
VMLN_ 14e
VMLN_ 9j
IBRA_ 9d
IBRA_ 10g
VMLN_ 10h
18
VMLN_ 9l
20
IBRA_ 10e
IBRA_ 7f
17
IBRA_ 8d
MARY_ 8q
19
MARY_ 11e
16.5
MARY_ 10w
MARY_ 7h
MARY_ 6n
13.5
16.5
13.5
MARY_ 6d
MARY_ 7l
MARY_ 8p
MARY_ 9i
Legend
Planning Subunits Listed in Table
Other Planning Subunits
Proposed New Alignments
15
Proposed Levee Alignment and Height
Proposed Weir Alignment
N
Miles
2.5 1.25 0 2.5 5 7.5 10 12.5
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Franklin to Abbeville Plan
PU3b - F - 100 - 1
Planning Subunits - Key Map
June 2008

Alternative: PU3b-F-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
IBRA_ 10e	11.6	12.5	15.5	17.1	18.0	20.0	14.8	15.7	18.7	20.3	21.2	23.2
IBRA_ 10g	11.5	4.6	15.4	11.5	17.8	17.0	14.7	4.6	18.6	11.5	21.0	17.0
IBRA_ 7f	8.1	4.0	11.3	15.0	14.5	17.0	11.3	4.0	14.5	15.0	17.7	17.0
IBRA_ 8d	10.1	4.0	15.2	15.0	19.1	17.0	13.3	4.0	18.4	15.0	22.3	17.0
IBRA_ 9d	9.0	4.0	13.8	15.0	17.1	17.0	12.2	4.0	17.0	15.0	20.3	17.0
MARY_ 10w	11.7	11.9	16.0	16.2	17.9	19.2	13.9	15.1	17.6	19.4	20.0	22.4
MARY_ 11e	7.8	0.5	11.3	9.8	14.1	16.5	11.0	0.5	14.5	9.8	17.3	16.5
MARY_ 6d	7.8	-0.4	9.6	3.5	12.0	10.8	11.0	-0.4	12.8	3.5	15.2	10.8
MARY_ 6n	7.9	0.5	13.9	9.8	14.8	16.5	11.1	0.5	17.1	9.8	18.0	16.5
MARY_ 7h	7.8	0.5	10.9	9.8	13.2	16.5	11.0	0.5	14.1	9.8	16.4	16.5
MARY_ 7l	7.8	-0.4	10.6	3.5	13.1	10.8	11.0	-0.4	13.8	3.5	16.3	10.8
MARY_ 8p	8.6	-0.4	12.4	3.5	14.8	10.8	11.8	-0.4	15.6	3.5	18.0	10.8
MARY_ 8q	8.2	3.0	13.5	8.3	17.2	16.5	11.4	3.0	16.7	8.3	20.4	16.5
MARY_ 9i	9.9	10.5	13.4	14.2	15.4	16.4	13.1	13.7	16.6	17.4	18.6	19.6
VMLN_ 10h	11.4	4.6	15.6	11.5	18.3	17.0	14.6	4.6	18.8	11.5	21.5	17.0
VMLN_ 11i	7.8	4.6	11.3	11.5	14.8	17.0	11.0	4.6	14.5	11.5	18.0	17.0
VMLN_ 14e	7.8	4.6	9.4	11.5	14.3	17.0	11.0	4.6	12.6	11.5	17.5	17.0
VMLN_ 9j	7.8	4.6	13.1	11.5	16.3	17.0	11.0	4.6	16.3	11.5	19.5	17.0
VMLN_ 9l	10.6	10.9	13.7	12.5	15.5	14.0	13.8	14.1	16.9	15.7	18.7	17.2

Evaluation Parameters					
	Confidence Level:	90%	Levee Design:	No Friction Waves	
	Future Relative Sea Level Rise:	3.2 feet	Levee Overtopping:	No Friction Waves	

Planning Unit:	3b	**Alt. No.:**	PU3b-F-400-1	**Category:**	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Raise ring levee around Patterson/Berwick to 400-year design level and construct levee along the edge of development north of the GIWW to high ground west of Abbeville at the 400-year design level.				
Coastal Component:	R1	**Nonstructural Component:**	None		
Structural Component:	See alternative description above.				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,440	2,146	114	140	598	32	202	19	5
		Mid		3,071	175	208	940	50	178	19	5
		Low		3,871	248	256	1,135	60	154	18	5
2	High RSLR High Employment Dispersed Population	High	1,452	2,264	123	67	628	35	202	19	5
		Mid		3,201	188	85	980	54	178	19	5
		Low		4,041	262	93	1,154	61	154	18	4
3	Low RSLR Business-as-Usual Compact Population	High	1,440	2,008	114	140	575	32	202	19	5
		Mid		2,914	173	206	899	49	178	19	5
		Low		3,692	242	253	1,074	57	154	18	5
4	High RSLR Business-as-Usual Compact Population	High	1,452	2,118	122	153	604	34	202	19	5
		Mid		3,040	185	222	930	52	178	19	5
		Low		3,849	255	264	1,099	59	154	18	4

Other Results			
Construction Time (years)			12
Direct Wetland Impacts (acres)			3,900
Indirect Impacts (unitless)			2
Spatial Integrity (unitless)			0.44
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	($ Millions)	
	1 / 2	9,958	10,041
	3 / 4	9,958	10,041

Wetlands Created/Protected	Scenario 1	Scenario 2	Scenario 3	Scenario 4
After 50 yrs (% of baseline)	105	104	105	104
After 100 yrs (% of baseline)	105	100	105	100
Present Value of Life Cycle Costs ($ Millions)				
Coastal Component	4,756	4,796	4,756	4,796
Nonstructural Component	0	0	0	0
Structural Component	23,445	23,639	23,445	23,639
Total Project	28,200	28,436	28,200	28,436

2075 Residual Risk / Damages - Low Uncertainty ($ Millions)								
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4	
	No Action	With Proj	No Action	With Proj	No Action	With Proj	No Action	With Proj
10-year	1,024	222	1,523	282	1,013	223	1,543	285
100-year	4,254	711	5,717	876	4,148	633	5,447	747
400-year	8,571	1,238	9,628	1,409	7,772	985	8,782	1,145
1,000-year	11,203	1,679	11,827	1,778	10,886	1,462	11,680	1,621
2,000-year	12,281	2,167	12,591	2,246	12,370	2,034	12,769	2,112

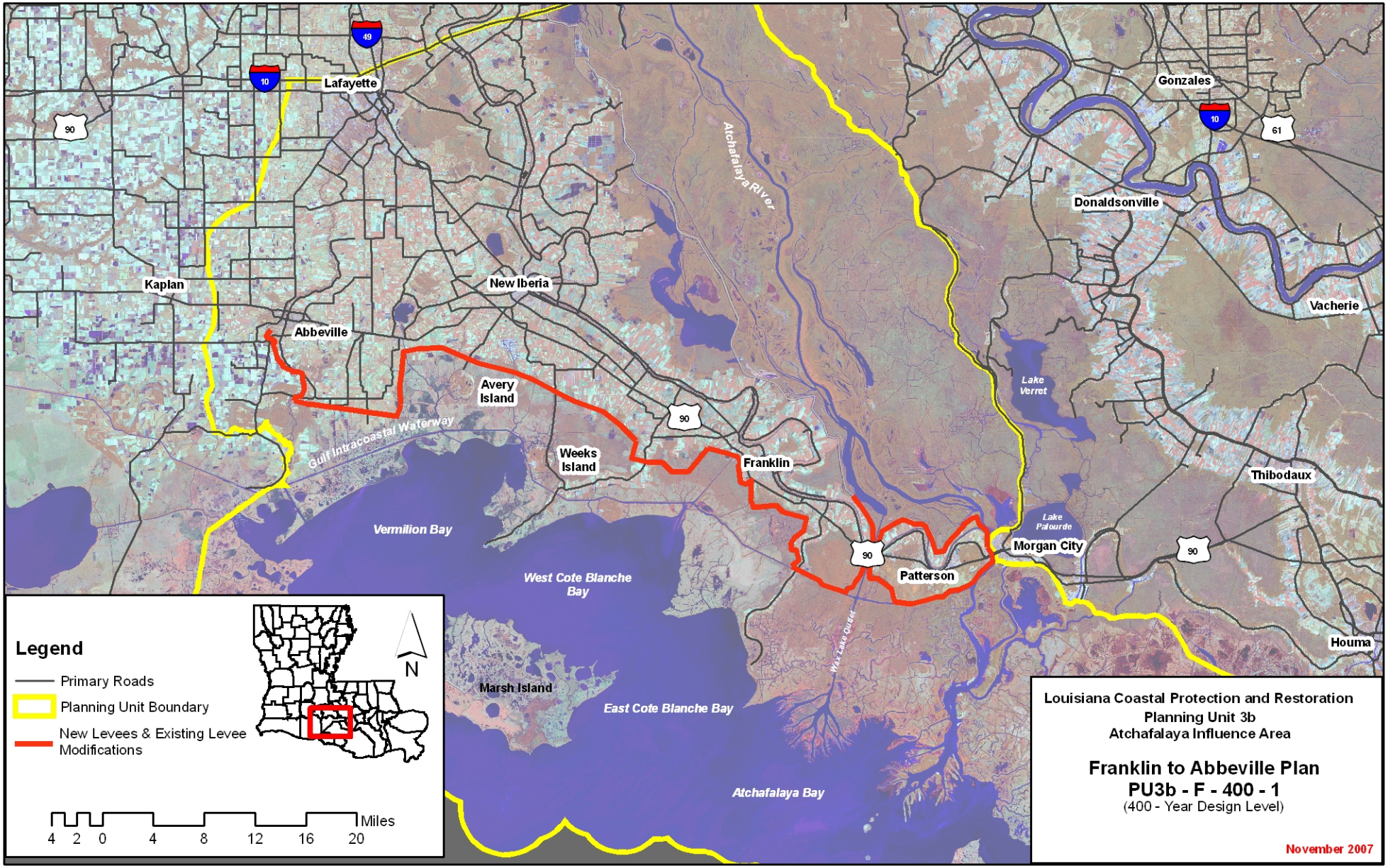
Planning Unit 3b

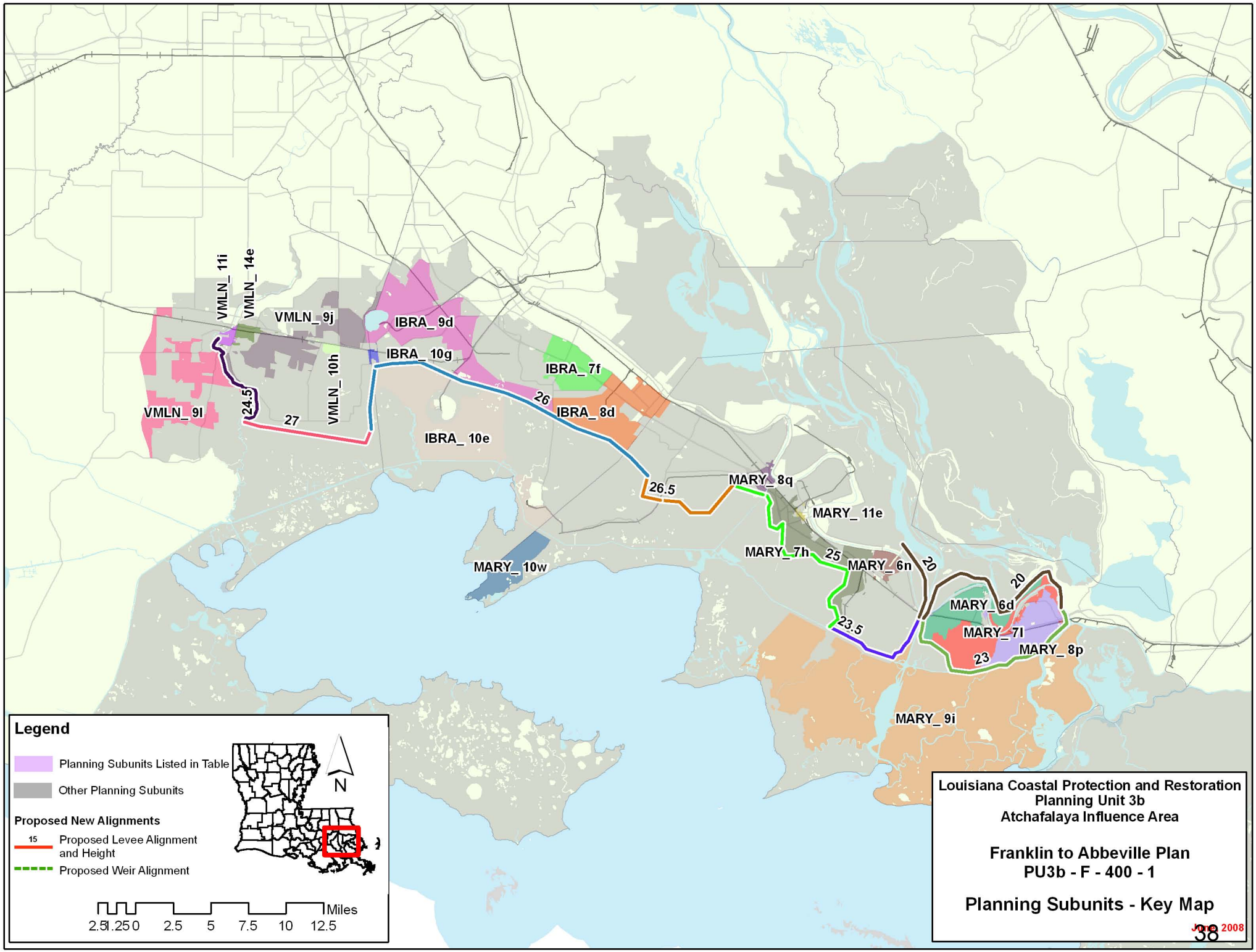
Structural Plan

Franklin to Abbeville Alt

400-year Design

Note: **Present Value** costs and **Annual Equivalent** numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4 7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.


Lafayette
Kaplan
New Iberia
Abbeville
Avery Island
Weeks Island
Franklin
Patterson
Morgan City
Gonzales
Donaldsonville
Vacherie
Thibodaux
Houma
Atchafalaya River
Gulf Intracoastal Waterway
Vermilion Bay
West Cote Blanche Bay
East Cote Blanche Bay
Marsh Island
Atchafalaya Bay
Lake Verret
Lake Palourde
Wax Lake Outlet
Legend
Primary Roads
Planning Unit Boundary
New Levees & Existing Levee Modifications
N
Miles
4 2 0 4 8 12 16 20
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Franklin to Abbeville Plan
PU3b - F - 400 - 1
(400 - Year Design Level)
November 2007


VMLN_ 11i
VMLN_ 14e
VMLN_ 9j
IBRA_ 9d
IBRA_ 10g
VMLN_ 10h
IBRA_ 7f
VMLN_ 9l
24.5
27
26
IBRA_ 8d
IBRA_ 10e
26.5
MARY_ 8q
MARY_ 11e
MARY_ 7h
25
MARY_ 6n
20
20
MARY_ 6d
MARY_ 10w
23.5
MARY_ 7l
MARY_ 8p
23
MARY_ 9i
Legend
Planning Subunits Listed in Table
Other Planning Subunits
Proposed New Alignments
15
Proposed Levee Alignment and Height
Proposed Weir Alignment
N
Miles
2.5 1.25 0 2.5 5 7.5 10 12.5
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Franklin to Abbeville Plan
PU3b - F - 400 - 1
Planning Subunits - Key Map
June 2008

Alternative: PU3b-F-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
IBRA_ 10e	11.6	12.5	15.5	17.1	18.0	20.0	14.8	15.7	18.7	20.3	21.2	23.2
IBRA_ 10g	11.5	4.3	15.4	4.5	17.8	5.6	14.7	4.3	18.6	4.5	21.0	5.6
IBRA_ 7f	8.1	3.9	11.3	4.0	14.5	5.3	11.3	3.9	14.5	4.0	17.7	5.3
IBRA_ 8d	10.1	3.9	15.2	4.0	19.1	5.3	13.3	3.9	18.4	4.0	22.3	5.3
IBRA_ 9d	9.0	3.9	13.8	4.0	17.1	5.3	12.2	3.9	17.0	4.0	20.3	5.3
MARY_ 10w	11.7	11.9	16.0	16.2	17.9	19.2	13.9	15.1	17.6	19.4	20.0	22.4
MARY_ 11e	7.8	0.2	11.3	0.4	14.1	1.5	11.0	0.2	14.5	0.4	17.3	1.5
MARY_ 6d	7.8	-0.6	9.6	-0.5	12.0	0.1	11.0	-0.6	12.8	-0.5	15.2	0.1
MARY_ 6n	7.9	0.2	13.9	0.4	14.8	1.5	11.1	0.2	17.1	0.4	18.0	1.5
MARY_ 7h	7.8	0.2	10.9	0.4	13.2	1.5	11.0	0.2	14.1	0.4	16.4	1.5
MARY_ 7l	7.8	-0.6	10.6	-0.5	13.1	0.1	11.0	-0.6	13.8	-0.5	16.3	0.1
MARY_ 8p	8.6	-0.6	12.4	-0.5	14.8	0.1	11.8	-0.6	15.6	-0.5	18.0	0.1
MARY_ 8q	8.2	2.8	13.5	3.0	17.2	3.6	11.4	2.8	16.7	3.0	20.4	3.6
MARY_ 9i	9.9	10.5	13.4	14.2	15.4	16.4	13.1	13.7	16.6	17.4	18.6	19.6
VMLN_ 10h	11.4	4.3	15.6	4.5	18.3	5.6	14.6	4.3	18.8	4.5	21.5	5.6
VMLN_ 11i	7.8	4.3	11.3	4.5	14.8	5.6	11.0	4.3	14.5	4.5	18.0	5.6
VMLN_ 14e	7.8	4.3	9.4	4.5	14.3	5.6	11.0	4.3	12.6	4.5	17.5	5.6
VMLN_ 9j	7.8	4.3	13.1	4.5	16.3	5.6	11.0	4.3	16.3	4.5	19.5	5.6
VMLN_ 9l	10.6	10.9	13.7	12.5	15.5	14.0	13.8	14.1	16.9	15.7	18.7	17.2

Evaluation Parameters					
	Confidence Level:	90%	Levee Design:	No Friction Waves	
	Future Relative Sea Level Rise:	3.2 feet	Levee Overtopping:	No Friction Waves	

Planning Unit:	3b	Alt. No.:	PU3b-F-1000-1	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Raise ring levee around Patterson/Berwick to 1000-year design level and construct levee along the edge of development north of the GIWW to high ground west of Abbeville at the 1000-year design level.				
Coastal Component:	R1	Nonstructural Component:	None		
Structural Component:	See alternative description above.				

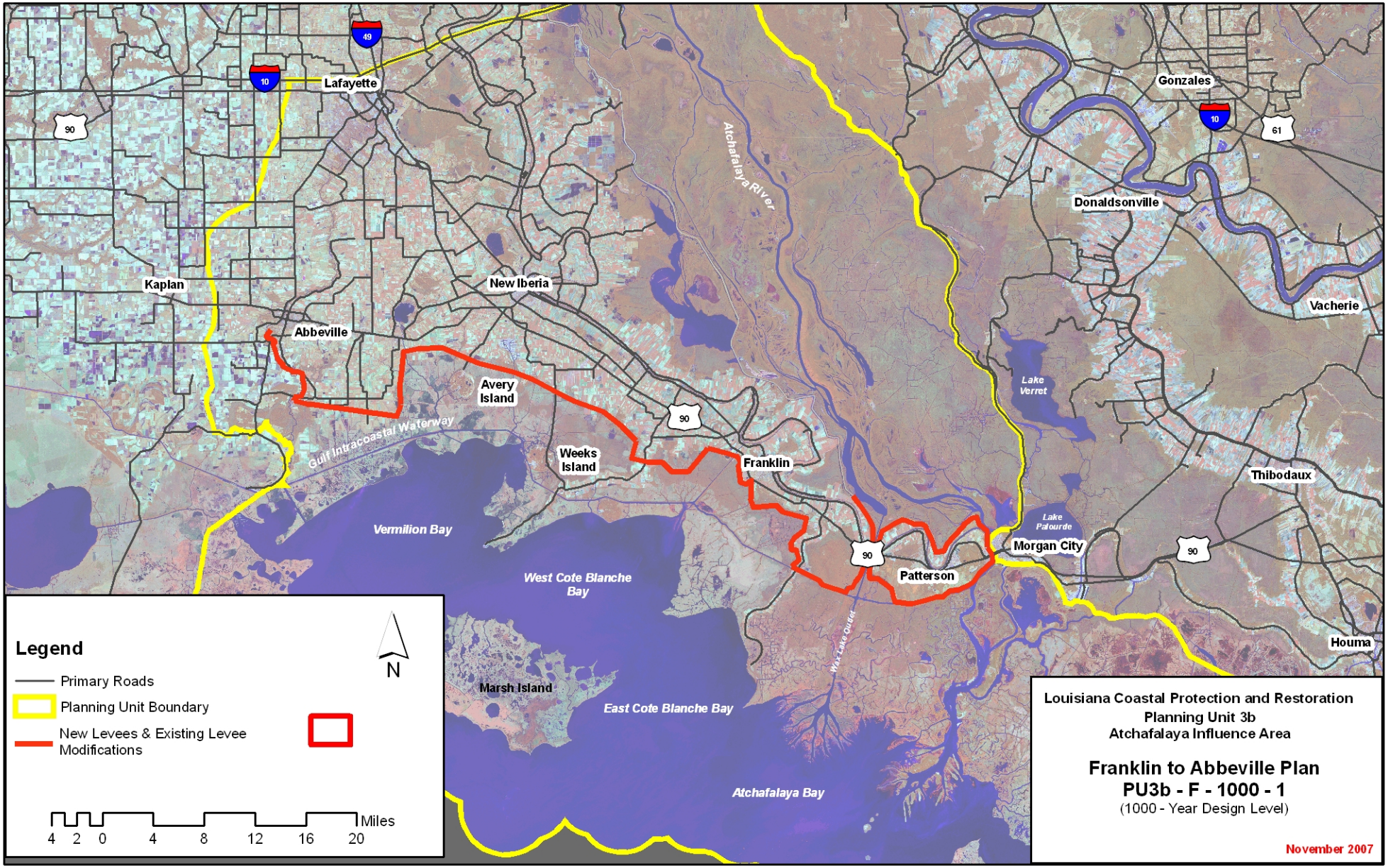
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,830	2,327	121	154	647	35	202	19	5
		Mid		3,340	188	229	1,023	55	178	19	5
		Low		4,201	267	282	1,236	66	154	18	5
2	High RSLR High Employment Dispersed Population	High	1,832	2,463	132	76	684	38	202	19	5
		Mid		3,492	202	96	1,069	60	178	19	5
		Low		4,394	283	106	1,259	67	154	18	4
3	Low RSLR Business-as-Usual Compact Population	High	1,830	2,178	121	154	624	35	202	19	5
		Mid		3,172	186	229	981	54	178	19	5
		Low		4,011	261	280	1,173	63	154	18	5
4	High RSLR Business-as-Usual Compact Population	High	1,832	2,307	131	170	659	38	202	19	5
		Mid		3,319	199	247	1,019	57	178	19	5
		Low		4,191	275	294	1,204	66	154	18	4

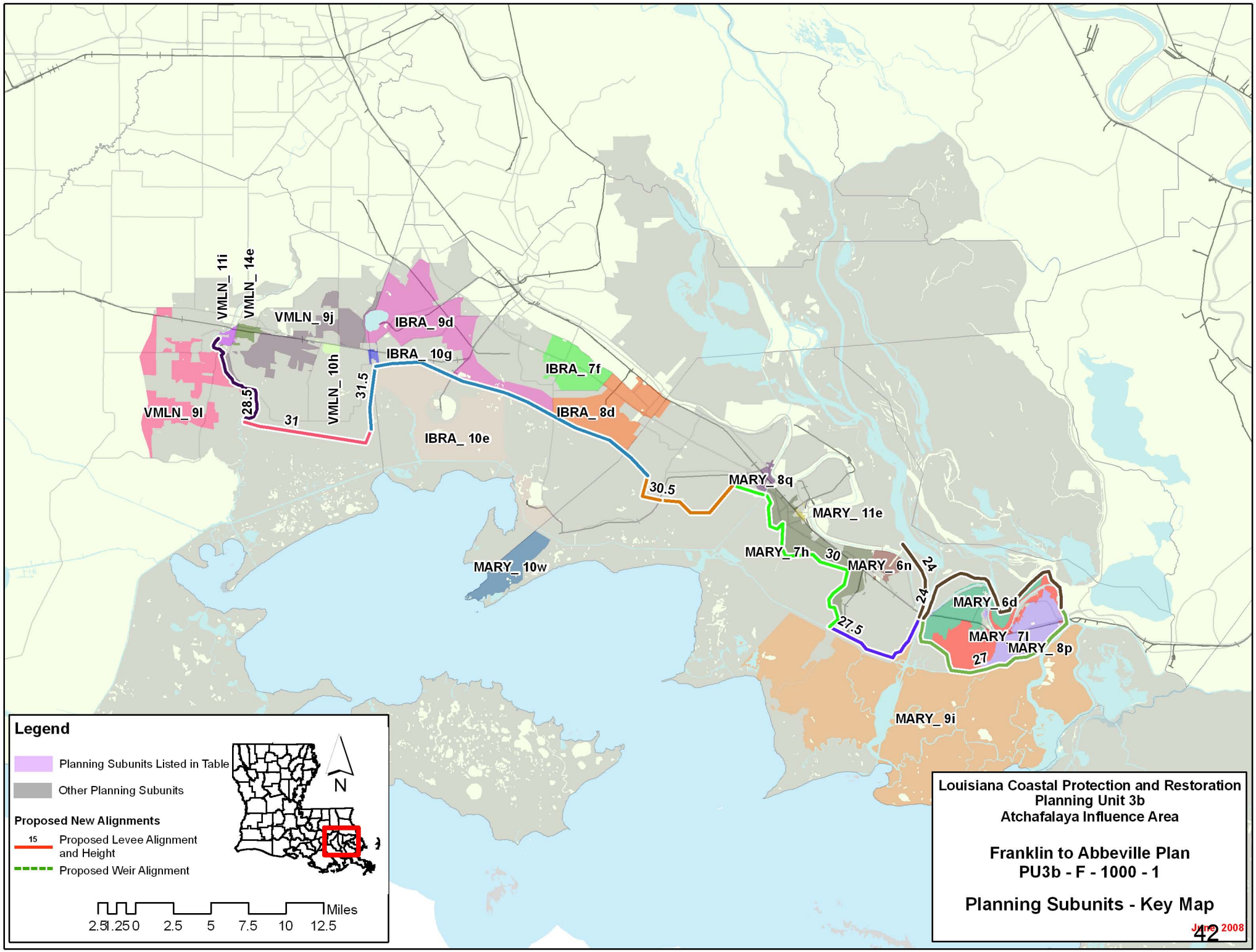
Other Results			
Construction Time (years)			14
Direct Wetland Impacts (acres)			5,200
Indirect Impacts (unitless)			2
Spatial Integrity (unitless)			0.44
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	($ Millions)	
	1 / 2	12,618	12,637
	3 / 4	12,618	12,637

Wetlands Created/Protected	Scenario 1	Scenario 2	Scenario 3	Scenario 4
After 50 yrs (% of baseline)	105	104	105	104
After 100 yrs (% of baseline)	105	100	105	100
Present Value of Life Cycle Costs ($ Millions)				
Coastal Component	4,756	4,796	4,756	4,796
Nonstructural Component	0	0	0	0
Structural Component	31,074	31,087	31,074	31,087
Total Project	35,830	35,884	35,830	35,884

2075 Residual Risk / Damages - Low Uncertainty ($ Millions)									Planning Unit 3b
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj	No Action	With Proj	No Action	With Proj	No Action	With Proj	
10-year	1,024	222	1,523	282	1,013	223	1,543	285	Structural Plan
100-year	4,254	711	5,717	876	4,148	633	5,447	747	Franklin to Abbeville Alt
400-year	8,571	1,236	9,628	1,408	7,772	983	8,782	1,143	
1,000-year	11,203	1,652	11,827	1,751	10,886	1,433	11,680	1,593	1000-year Design
2,000-year	12,281	1,844	12,591	1,922	12,370	1,696	12,769	1,773	

Note: **Present Value** costs and **Annual Equivalent** numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4 7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.


Lafayette
Kaplan
New Iberia
Abbeville
Avery Island
Weeks Island
Franklin
Patterson
Morgan City
Gonzales
Donaldsonville
Vacherie
Thibodaux
Houma
Atchafalaya River
Gulf Intracoastal Waterway
Vermilion Bay
West Cote Blanche Bay
East Cote Blanche Bay
Marsh Island
Atchafalaya Bay
Lake Verret
Lake Palourde
Wax Lake Outlet
Legend
Primary Roads
Planning Unit Boundary
New Levees & Existing Levee Modifications
N
Miles
4 2 0 4 8 12 16 20
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Franklin to Abbeville Plan
PU3b - F - 1000 - 1
(1000 - Year Design Level)
November 2007


VMLN_ 11i
VMLN_ 14e
VMLN_ 9j
IBRA_ 9d
IBRA_ 10g
VMLN_ 10h
31.5
28.5
31
VMLN_ 9l
IBRA_ 7f
IBRA_ 8d
IBRA_ 10e
30.5
MARY_ 8q
MARY_ 11e
MARY_ 7h
30
MARY_ 6n
24
24
MARY_ 6d
27.5
MARY_ 7l
MARY_ 8p
27
MARY_ 10w
MARY_ 9i
Legend
Planning Subunits Listed in Table
Other Planning Subunits
Proposed New Alignments
15
Proposed Levee Alignment and Height
Proposed Weir Alignment
N
Miles
2.5 1.25 0 2.5 5 7.5 10 12.5
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Franklin to Abbeville Plan
PU3b - F - 1000 - 1
Planning Subunits - Key Map
June 2008

Alternative: PU3b-F-1000-1

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
IBRA_ 10e	11.6	12.5	15.5	17.1	18.0	20.0	14.8	15.7	18.7	20.3	21.2	23.2
IBRA_ 10g	11.5	4.3	15.4	4.3	17.8	4.5	14.7	4.3	18.6	4.3	21.0	4.5
IBRA_ 7f	8.1	3.9	11.3	3.9	14.5	4.0	11.3	3.9	14.5	3.9	17.7	4.0
IBRA_ 8d	10.1	3.9	15.2	3.9	19.1	4.0	13.3	3.9	18.4	3.9	22.3	4.0
IBRA_ 9d	9.0	3.9	13.8	3.9	17.1	4.0	12.2	3.9	17.0	3.9	20.3	4.0
MARY_ 10w	11.7	11.9	16.0	16.2	17.9	19.2	13.9	15.1	17.6	19.4	20.0	22.4
MARY_ 11e	7.8	0.2	11.3	0.2	14.1	0.4	11.0	0.2	14.5	0.2	17.3	0.4
MARY_ 6d	7.8	-0.6	9.6	-0.6	12.0	-0.5	11.0	-0.6	12.8	-0.6	15.2	-0.5
MARY_ 6n	7.9	0.2	13.9	0.2	14.8	0.4	11.1	0.2	17.1	0.2	18.0	0.4
MARY_ 7h	7.8	0.2	10.9	0.2	13.2	0.4	11.0	0.2	14.1	0.2	16.4	0.4
MARY_ 7l	7.8	-0.6	10.6	-0.6	13.1	-0.5	11.0	-0.6	13.8	-0.6	16.3	-0.5
MARY_ 8p	8.6	-0.6	12.4	-0.6	14.8	-0.5	11.8	-0.6	15.6	-0.6	18.0	-0.5
MARY_ 8q	8.2	2.8	13.5	2.9	17.2	3.0	11.4	2.8	16.7	2.9	20.4	3.0
MARY_ 9i	9.9	10.5	13.4	14.2	15.4	16.4	13.1	13.7	16.6	17.4	18.6	19.6
VMLN_ 10h	11.4	4.3	15.6	4.3	18.3	4.5	14.6	4.3	18.8	4.3	21.5	4.5
VMLN_ 11i	7.8	4.3	11.3	4.3	14.8	4.5	11.0	4.3	14.5	4.3	18.0	4.5
VMLN_ 14e	7.8	4.3	9.4	4.3	14.3	4.5	11.0	4.3	12.6	4.3	17.5	4.5
VMLN_ 9j	7.8	4.3	13.1	4.3	16.3	4.5	11.0	4.3	16.3	4.3	19.5	4.5
VMLN_ 9l	10.6	10.9	13.7	12.5	15.5	14.0	13.8	14.1	16.9	15.7	18.7	17.2

Evaluation Parameters				
	Confidence Level:	90%	Levee Design:	No Friction Waves
	Future Relative Sea Level Rise:	3.2 feet	Levee Overtopping:	No Friction Waves

Planning Unit:	3b	Alt. No.:	PU3b-RL-100-1	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Raise ring levee around Patterson/Berwick to 100-year design level and construct ring levees around Franklin/Baldwin, New Iberia, Erath, Delcambre, and Abbeville at the 100-year design level.				
Coastal Component:	R1	Nonstructural Component:	None		
Structural Component:	See alternative description above.				

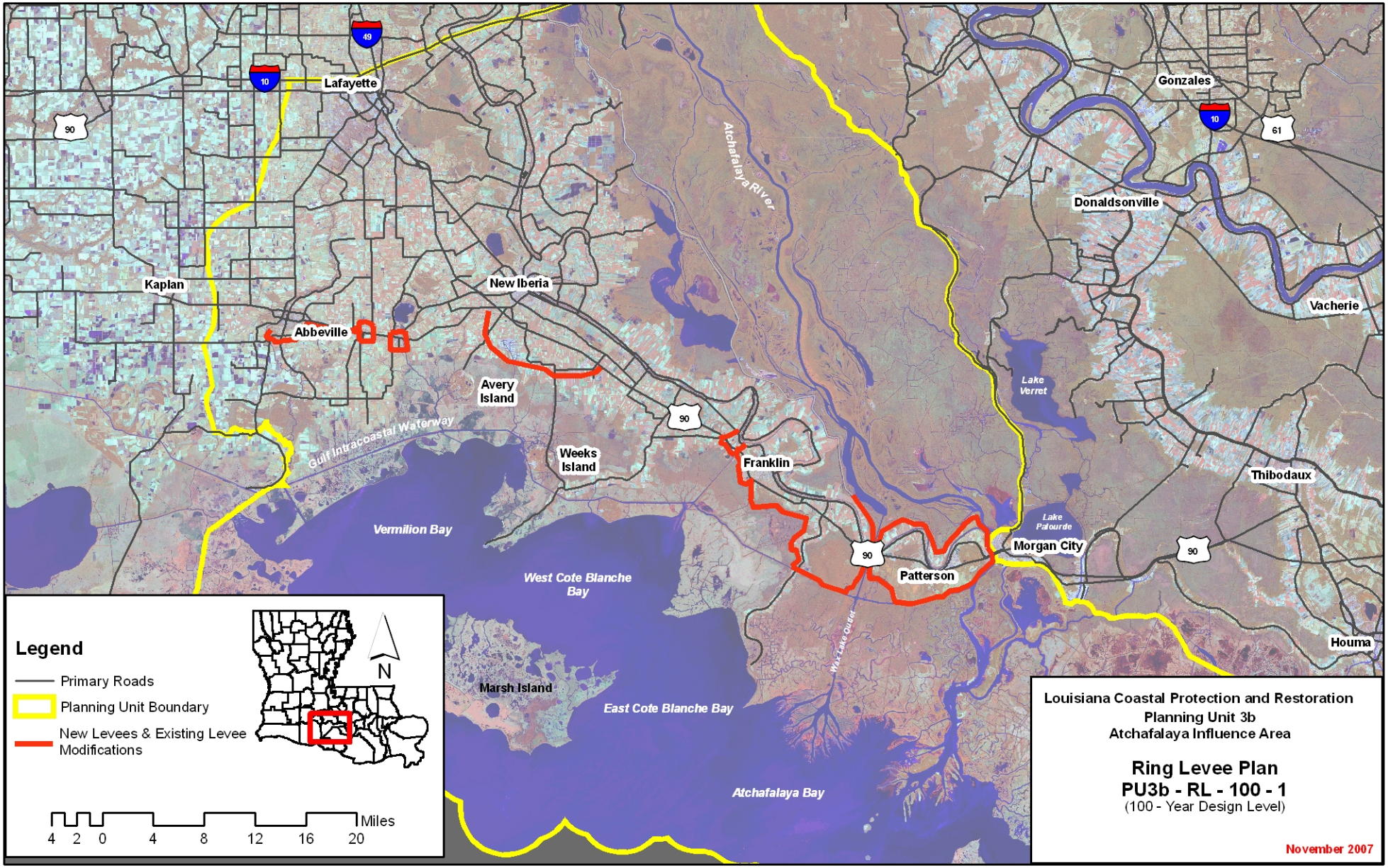
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	834	2,785	132	159	615	34	171	15	3
		Mid		3,885	205	234	974	54	147	12	3
		Low		5,093	303	297	1,221	66	123	11	0
2	High RSLR High Employment Dispersed Population	High	838	2,959	146	101	664	39	171	13	3
		Mid		4,104	226	130	1,025	59	147	12	1
		Low		5,385	327	155	1,252	69	123	8	0
3	Low RSLR Business-as-Usual Compact Population	High	834	2,565	131	158	587	33	171	15	3
		Mid		3,644	203	233	925	52	147	12	3
		Low		4,811	296	295	1,141	63	123	11	0
4	High RSLR Business-as-Usual Compact Population	High	838	2,737	144	174	623	36	171	13	3
		Mid		3,848	221	252	966	56	147	12	1
		Low		5,088	316	307	1,174	66	123	8	0

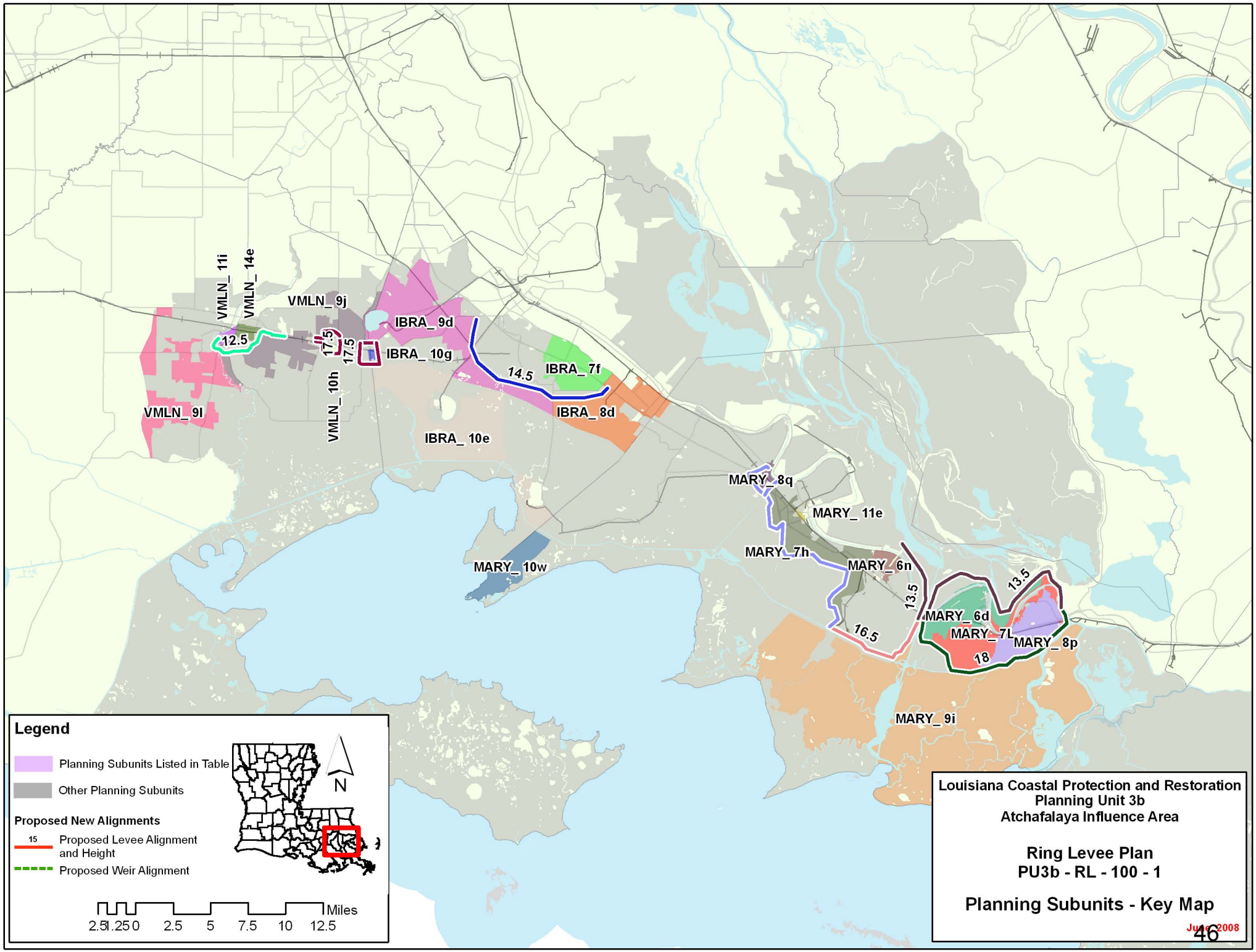
Other Results			
Construction Time (years)			10
Direct Wetland Impacts (acres)			900
Indirect Impacts (unitless)			2
Spatial Integrity (unitless)			0.44
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	($ Millions)	
	1 / 2	5,890	5,916
	3 / 4	5,890	5,916

Wetlands Created/Protected	Scenario 1	Scenario 2	Scenario 3	Scenario 4
After 50 yrs (% of baseline)	105	104	105	104
After 100 yrs (% of baseline)	105	100	105	100
Present Value of Life Cycle Costs ($ Millions)				
Coastal Component	4,756	4,796	4,756	4,796
Nonstructural Component	0	0	0	0
Structural Component	11,579	11,612	11,579	11,612
Total Project	16,335	16,408	16,335	16,408

2075 Residual Risk / Damages - Low Uncertainty ($ Millions)									Planning Unit 3b
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj	No Action	With Proj	No Action	With Proj	No Action	With Proj	
10-year	1,024	316	1,523	453	1,013	315	1,543	456	Structural Plan
100-year	4,254	1,664	5,717	2,321	4,148	1,564	5,447	2,055	Ring Levee Alt
400-year	8,571	6,800	9,628	7,302	7,772	6,294	8,782	6,694	
1,000-year	11,203	9,637	11,827	9,951	10,886	9,032	11,680	9,388	100-year Design
2,000-year	12,281	10,525	12,591	10,723	12,370	10,107	12,769	10,340	

Note: **Present Value** costs and **Annual Equivalent** numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4 7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.


Lafayette
Kaplan
New Iberia
Abbeville
Avery Island
Weeks Island
Franklin
Patterson
Morgan City
Gonzales
Donaldsonville
Vacherie
Thibodaux
Houma
Atchafalaya River
Gulf Intracoastal Waterway
Vermilion Bay
West Cote Blanche Bay
East Cote Blanche Bay
Marsh Island
Atchafalaya Bay
Lake Verret
Lake Palourde
Wax Lake Outlet
Legend
Primary Roads
Planning Unit Boundary
New Levees & Existing Levee Modifications
N
Miles
4 2 0 4 8 12 16 20
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Ring Levee Plan
PU3b - RL - 100 - 1
(100 - Year Design Level)
November 2007


VMLN_ 11i
VMLN_ 14e
VMLN_ 9j
IBRA_ 9d
12.5
17.5
17.5
IBRA_ 10g
14.5
IBRA_ 7f
VMLN_ 10h
VMLN_ 9l
IBRA_ 8d
IBRA_ 10e
MARY_ 8q
MARY_ 11e
MARY_ 7h
MARY_ 6n
MARY_ 10w
13.5
13.5
MARY_ 6d
MARY_ 7L
MARY_ 8p
16.5
18
MARY_ 9i
Legend
Planning Subunits Listed in Table
Other Planning Subunits
Proposed New Alignments
15
Proposed Levee Alignment and Height
Proposed Weir Alignment
N
Miles
2.5 1.25 0 2.5 5 7.5 10 12.5
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Ring Levee Plan
PU3b - RL - 100 - 1
Planning Subunits - Key Map
June 2008

Alternative: PU3b-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
IBRA_ 10e	11.6	11.6	15.5	15.5	18.0	18.0	14.8	14.8	18.7	18.7	21.2	21.2
IBRA_ 10g	11.5	5.4	15.4	17.5	17.8	17.5	14.7	5.4	18.6	17.5	21.0	17.5
IBRA_ 7f	8.1	6.3	11.3	14.5	14.5	14.5	11.3	6.3	14.5	14.5	17.7	14.5
IBRA_ 8d	10.1	10.1	15.2	15.2	19.1	19.1	13.3	13.3	18.4	18.4	22.3	22.3
IBRA_ 9d	9.0	9.0	13.8	13.8	17.1	17.1	12.2	12.2	17.0	17.0	20.3	20.3
MARY_ 10w	11.7	11.7	16.0	16.0	17.9	17.9	13.9	14.9	17.6	19.2	20.0	21.1
MARY_ 11e	7.8	0.5	11.3	9.8	14.1	16.5	11.0	0.5	14.5	9.8	17.3	16.5
MARY_ 6d	7.8	-0.4	9.6	3.5	12.0	10.8	11.0	-0.4	12.8	3.5	15.2	10.8
MARY_ 6n	7.9	0.5	13.9	9.8	14.8	16.5	11.1	0.5	17.1	9.8	18.0	16.5
MARY_ 7h	7.8	0.5	10.9	9.8	13.2	16.5	11.0	0.5	14.1	9.8	16.4	16.5
MARY_ 7l	7.8	-0.4	10.6	3.5	13.1	10.8	11.0	-0.4	13.8	3.5	16.3	10.8
MARY_ 8p	8.6	-0.4	12.4	3.5	14.8	10.8	11.8	-0.4	15.6	3.5	18.0	10.8
MARY_ 8q	8.2	5.2	13.5	16.5	17.2	16.5	11.4	5.2	16.7	16.5	20.4	16.5
MARY_ 9i	9.9	9.9	13.4	13.4	15.4	15.4	13.1	13.1	16.6	16.6	18.6	18.6
VMLN_ 10h	11.4	6.5	15.6	17.5	18.3	17.5	14.6	6.5	18.8	17.5	21.5	17.5
VMLN_ 11i	7.8	9.3	11.3	12.5	14.8	12.5	11.0	9.3	14.5	12.5	18.0	12.5
VMLN_ 14e	7.8	9.3	9.4	12.5	14.3	12.5	11.0	9.3	12.6	12.5	17.5	12.5
VMLN_ 9j	7.8	7.8	13.1	13.1	16.3	16.3	11.0	11.0	16.3	16.3	19.5	19.5
VMLN_ 9l	10.6	10.6	13.7	13.7	15.5	15.5	13.8	13.8	16.9	16.9	18.7	18.7

Evaluation Parameters				
	Confidence Level:	90%	Levee Design:	No Friction Waves
	Future Relative Sea Level Rise:	3.2 feet	Levee Overtopping:	No Friction Waves

Planning Unit:	3b	Alt. No.:	PU3b-RL-400-1	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Raise ring levee around Patterson/Berwick to 400-year design level and construct ring levees around Franklin/Baldwin, New Iberia, Erath, Delcambre, and Abbeville at the 400-year design level.				
Coastal Component:	R1	Nonstructural Component:	None		
Structural Component:	See alternative description above.				

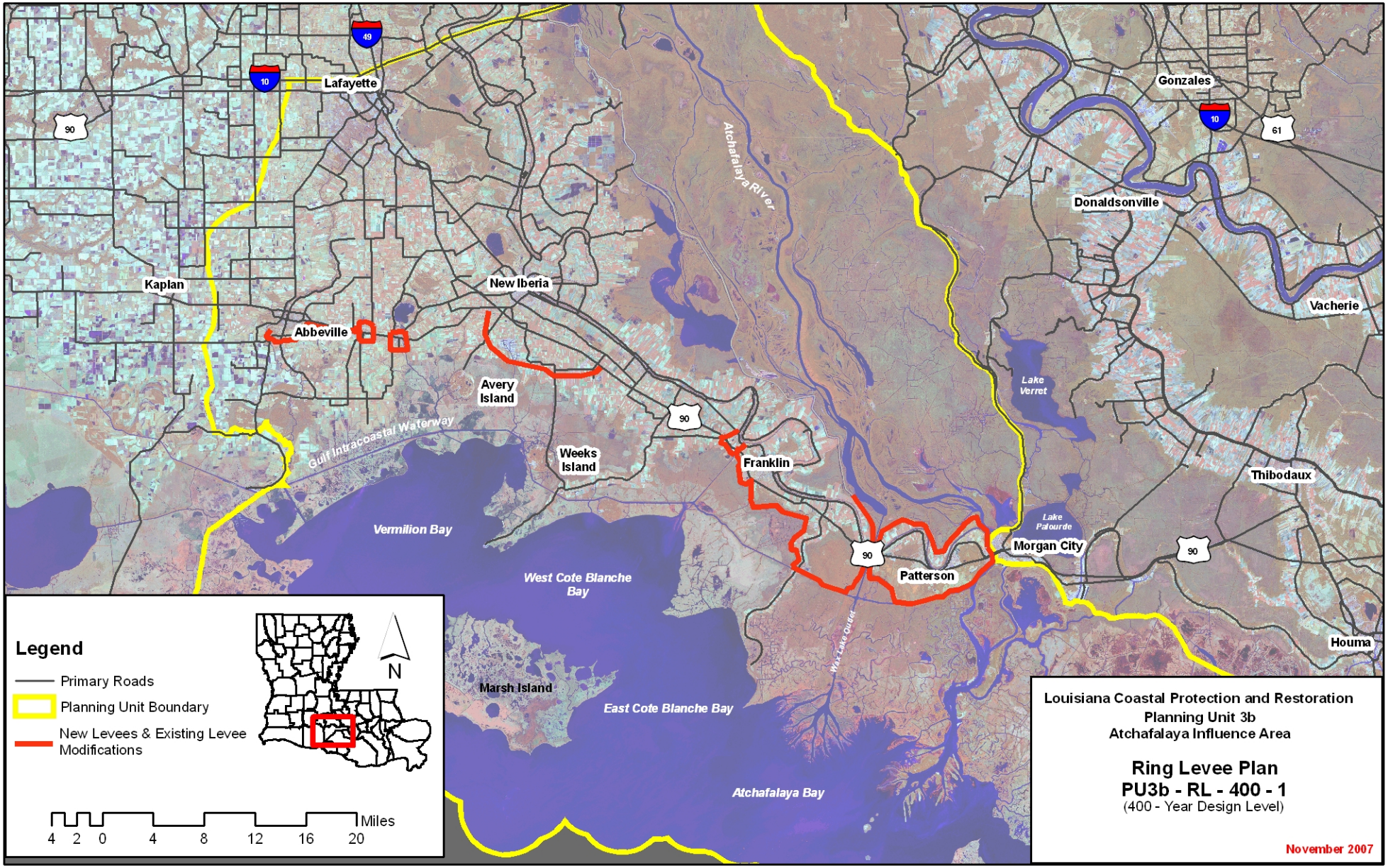
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,162	2,842	134	165	646	36	171	17	3
		Mid		3,943	207	239	1,009	56	147	16	3
		Low		4,988	299	297	1,238	67	123	15	3
2	High RSLR High Employment Dispersed Population	High	1,165	3,027	150	100	698	41	171	15	3
		Mid		4,174	229	121	1,064	61	147	15	3
		Low		5,289	324	139	1,272	70	123	13	2
3	Low RSLR Business-as-Usual Compact Population	High	1,162	2,616	134	164	618	35	171	17	3
		Mid		3,695	204	237	960	54	147	16	3
		Low		4,698	290	294	1,163	64	123	15	3
4	High RSLR Business-as-Usual Compact Population	High	1,165	2,799	148	182	658	39	171	15	3
		Mid		3,911	223	259	1,006	58	147	15	3
		Low		4,986	311	308	1,200	67	123	13	2

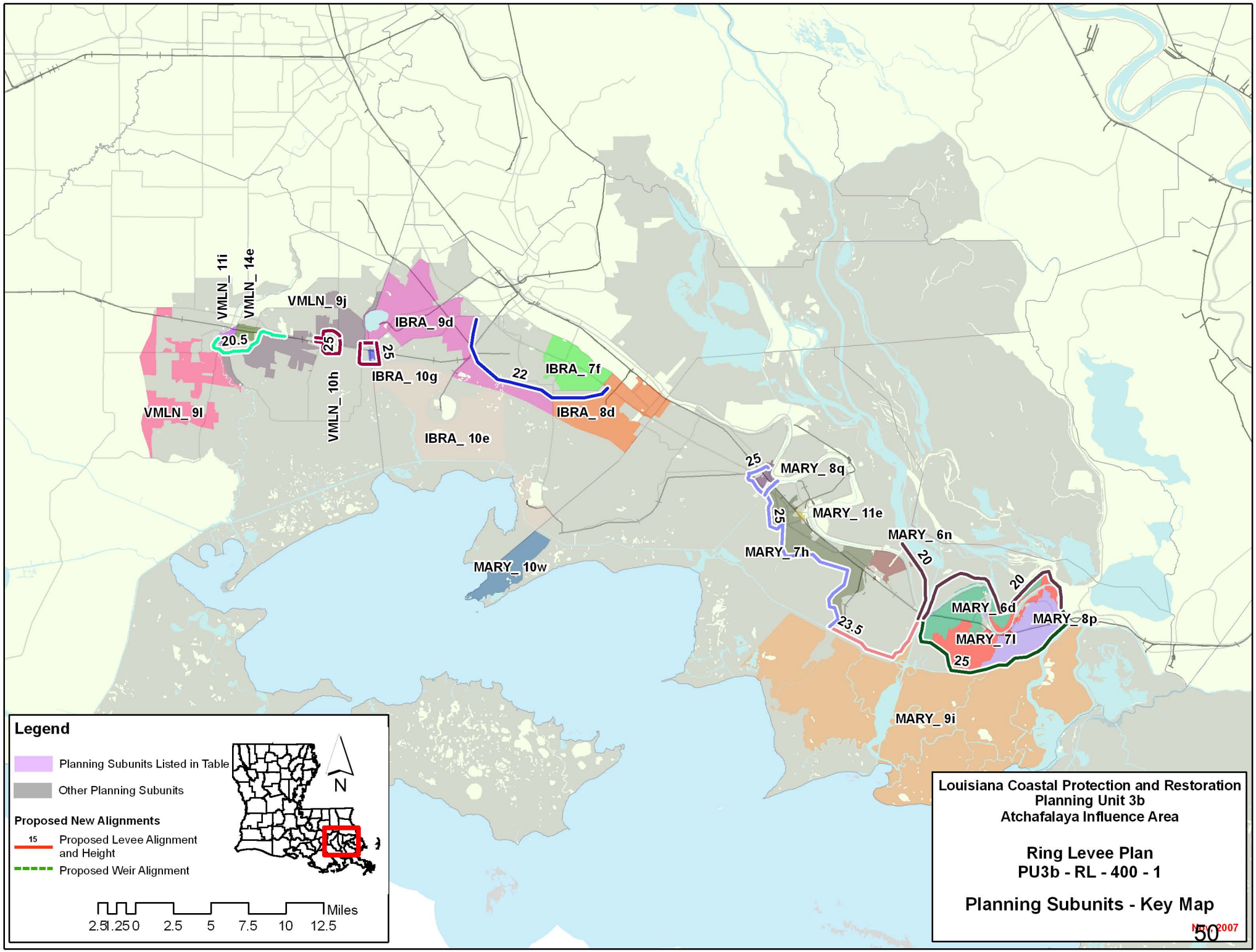
Other Results			
Construction Time (years)			12
Direct Wetland Impacts (acres)			1,700
Indirect Impacts (unitless)			2
Spatial Integrity (unitless)			0.44
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	($ Millions)	
	1 / 2	8,142	8,166
	3 / 4	8,142	8,166

Wetlands Created/Protected	Scenario 1	Scenario 2	Scenario 3	Scenario 4
After 50 yrs (% of baseline)	105	104	105	104
After 100 yrs (% of baseline)	105	100	105	100
Present Value of Life Cycle Costs ($ Millions)				
Coastal Component	4,756	4,796	4,756	4,796
Nonstructural Component	0	0	0	0
Structural Component	17,996	18,024	17,996	18,024
Total Project	22,752	22,820	22,752	22,820

2075 Residual Risk / Damages - Low Uncertainty ($ Millions)									Planning Unit 3b
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj	No Action	With Proj	No Action	With Proj	No Action	With Proj	
10-year	1,024	316	1,523	453	1,013	315	1,543	456	Structural Plan
100-year	4,254	1,628	5,717	2,284	4,148	1,526	5,447	2,017	Ring Levee Alt
400-year	8,571	3,993	9,628	4,495	7,772	3,117	8,782	3,516	400-year Design
1,000-year	11,203	6,852	11,827	7,166	10,886	5,917	11,680	6,273	
2,000-year	12,281	9,058	12,591	9,256	12,370	8,573	12,769	8,807	

Note: **Present Value** costs and **Annual Equivalent** numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4 7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.


Lafayette
Kaplan
New Iberia
Abbeville
Avery Island
Weeks Island
Franklin
Patterson
Morgan City
Gonzales
Donaldsonville
Vacherie
Thibodaux
Houma
Atchafalaya River
Gulf Intracoastal Waterway
Vermilion Bay
West Cote Blanche Bay
East Cote Blanche Bay
Marsh Island
Atchafalaya Bay
Lake Verret
Lake Palourde
Wax Lake Outlet
Legend
Primary Roads
Planning Unit Boundary
New Levees & Existing Levee Modifications
N
Miles
4 2 0 4 8 12 16 20
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Ring Levee Plan
PU3b - RL - 400 - 1
(400 - Year Design Level)
November 2007


VMLN_ 11i
VMLN_ 14e
VMLN_ 9j
IBRA_ 9d
20.5
25
25
IBRA_ 10g
22
IBRA_ 7f
IBRA_ 8d
VMLN_ 10h
VMLN_ 9l
IBRA_ 10e
25
MARY_ 8q
MARY_ 11e
25
MARY_ 6n
MARY_ 7h
20
MARY_ 10w
20
MARY_ 6d
MARY_ 8p
23.5
MARY_ 7l
25
MARY_ 9i
Legend
Planning Subunits Listed in Table
Other Planning Subunits
Proposed New Alignments
15
Proposed Levee Alignment and Height
Proposed Weir Alignment
N
Miles
2.5 1.25 0 2.5 5 7.5 10 12.5
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Ring Levee Plan
PU3b - RL - 400 - 1
Planning Subunits - Key Map
Nov 2007

Alternative: PU3b-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
IBRA_ 10e	11.6	11.6	15.5	15.5	18.0	18.0	14.8	14.8	18.7	18.7	21.2	21.2
IBRA_ 10g	11.5	3.7	15.4	5.5	17.8	10.5	14.7	3.7	18.6	5.5	21.0	10.5
IBRA_ 7f	8.1	6.0	11.3	6.2	14.5	8.4	11.3	6.0	14.5	6.2	17.7	8.4
IBRA_ 8d	10.1	10.1	15.2	15.2	19.1	19.1	13.3	13.3	18.4	18.4	22.3	22.3
IBRA_ 9d	9.0	9.0	13.8	13.8	17.1	17.1	12.2	12.2	17.0	17.0	20.3	20.3
MARY_ 10w	11.7	11.7	16.0	16.0	17.9	17.9	13.9	14.9	17.6	19.2	20.0	21.1
MARY_ 11e	7.8	0.2	11.3	0.4	14.1	1.5	11.0	0.2	14.5	0.4	17.3	1.5
MARY_ 6d	7.8	-0.6	9.6	-0.5	12.0	0.1	11.0	-0.6	12.8	-0.5	15.2	0.1
MARY_ 6n	7.9	0.2	13.9	0.4	14.8	1.5	11.1	0.2	17.1	0.4	18.0	1.5
MARY_ 7h	7.8	0.2	10.9	0.4	13.2	1.5	11.0	0.2	14.1	0.4	16.4	1.5
MARY_ 7l	7.8	-0.6	10.6	-0.5	13.1	0.1	11.0	-0.6	13.8	-0.5	16.3	0.1
MARY_ 8p	8.6	-0.6	12.4	-0.5	14.8	0.1	11.8	-0.6	15.6	-0.5	18.0	0.1
MARY_ 8q	8.2	3.9	13.5	4.7	17.2	9.6	11.4	3.9	16.7	4.7	20.4	9.6
MARY_ 9i	9.9	9.9	13.4	13.4	15.4	15.4	13.1	13.1	16.6	16.6	18.6	18.6
VMLN_ 10h	11.4	5.6	15.6	6.5	18.3	10.2	14.6	5.6	18.8	6.5	21.5	10.2
VMLN_ 11i	7.8	8.4	11.3	9.3	14.8	16.8	11.0	8.4	14.5	9.3	18.0	16.8
VMLN_ 14e	7.8	8.4	9.4	9.3	14.3	16.8	11.0	8.4	12.6	9.3	17.5	16.8
VMLN_ 9j	7.8	7.8	13.1	13.1	16.3	16.3	11.0	11.0	16.3	16.3	19.5	19.5
VMLN_ 9l	10.6	10.6	13.7	13.7	15.5	15.5	13.8	13.8	16.9	16.9	18.7	18.7

Evaluation Parameters				
	Confidence Level:	90%	Levee Design:	No Friction Waves
	Future Relative Sea Level Rise:	3.2 feet	Levee Overtopping:	No Friction Waves

Planning Unit:	3b	**Alt. No.:**	PU3b-C-G-100-1	**Category:**	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU3b-G-100-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1		**Nonstructural Component:**		100-yr complementary measures
Structural Component:	Same as Alternative PU3b-G-100-1				

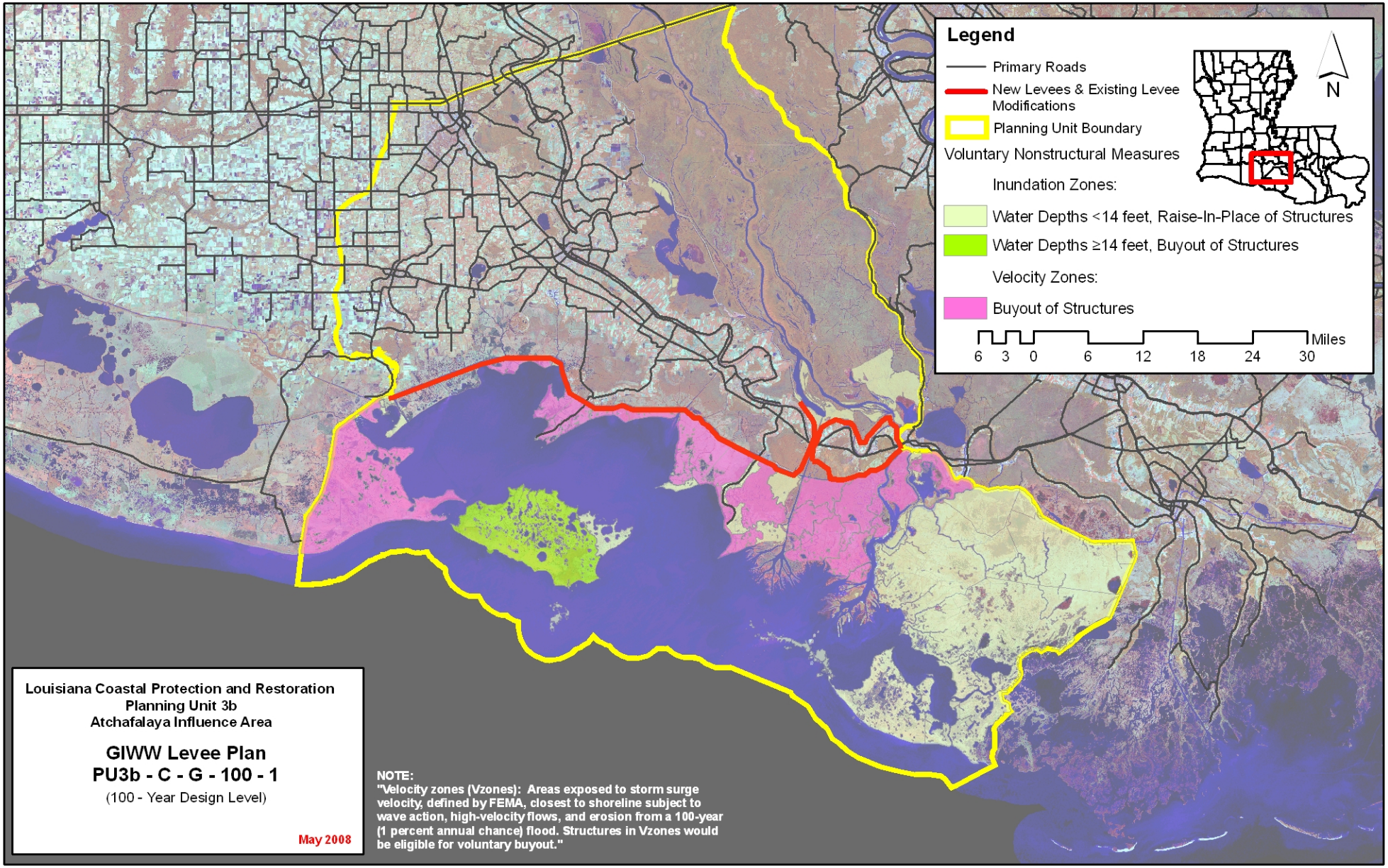
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands: Life Cycle Cost Ann. Equiv. $ Millions	Population Impacted Ann. Equiv. #	Residual Damages Ann. Equiv. $ Millions	Gross Regional Output Impacted Ann. Equiv. $ Millions	Employment Impacted Ann. Equiv. #	People's Earned Income Impacted Ann. Equiv. $ Millions	Archeo. Sites Protected # Sites	Historic Properties Protected # Properties	Historic Districts Protected # Districts
1	Low RSLR High Employment Dispersed Population	High	1,032	1,624	78	100	432	23	312	20	5
		Mid		2,429	129	163	744	39	288	19	5
		Low		3,191	191	208	928	48	264	18	5
2	High RSLR High Employment Dispersed Population	High	1,035	1,697	84	36	461	25	312	20	5
		Mid		2,515	136	48	766	41	288	18	5
		Low		3,288	201	61	942	49	264	18	4
3	Low RSLR Business-as-Usual Compact Population	High	1,033	1,526	78	100	415	22	312	20	5
		Mid		2,322	128	162	713	39	288	19	5
		Low		3,066	189	209	887	47	264	18	5
4	High RSLR Business-as-Usual Compact Population	High	1,036	1,597	83	113	444	25	312	20	5
		Mid		2,404	135	174	736	41	288	18	5
		Low		3,162	198	216	904	48	264	18	4

Other Results			
Construction Time (years)			10
Direct Wetland Impacts (acres)			2,300
Indirect Impacts (unitless)			-8
Spatial Integrity (unitless)			0.44
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	($ Millions)	
	1 / 2	7,132	7,155
	3 / 4	7,136	7,159

Wetlands Created/Protected	Scenario 1	Scenario 2	Scenario 3	Scenario 4
After 50 yrs (% of baseline)	105	104	105	104
After 100 yrs (% of baseline)	105	100	105	100
Present Value of Life Cycle Costs ($ Millions)				
Coastal Component	4,756	4,796	4,756	4,796
Nonstructural Component	244	244	255	255
Structural Component	15,214	15,238	15,214	15,238
Total Project	20,214	20,278	20,225	20,290

2075 Residual Risk / Damages - Low Uncertainty ($ Millions)									Planning Unit 3b Comprehensive Plan GIWW Alt 100-year Design
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj	No Action	With Proj	No Action	With Proj	No Action	With Proj	
10-year	1,024	68	1,523	83	1,013	68	1,543	84	
100-year	4,254	147	5,717	204	4,148	146	5,447	200	
400-year	8,571	426	9,628	478	7,772	435	8,782	496	
1,000-year	11,203	2,733	11,827	2,754	10,886	2,815	11,680	2,839	
2,000-year	12,281	6,240	12,591	6,286	12,370	6,192	12,769	6,211	

Note: **Present Value** costs and **Annual Equivalent** numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4 7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.


Legend
Primary Roads
New Levees & Existing Levee Modifications
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
GIWW Levee Plan
PU3b - C - G - 100 - 1
(100 - Year Design Level)
May 2008
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:	3b	**Alt. No.:**	PU3b-C-F-100-1	**Category:**	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU3b-F-100-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1	**Nonstructural Component:**		100-yr complementary measures	
Structural Component:	Same as Alternative PU3b-F-100-1				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	972	1,904	80	101	432	23	202	16	3
		Mid		2,825	137	171	773	42	178	15	3
		Low		3,839	229	238	1,046	56	154	14	1
2	High RSLR High Employment Dispersed Population	High	976	2,002	87	38	465	26	202	16	3
		Mid		2,934	148	60	808	45	178	15	2
		Low		3,987	242	92	1,060	57	154	14	0
3	Low RSLR Business-as-Usual Compact Population	High	973	1,775	80	100	414	23	202	16	3
		Mid		2,672	135	170	739	41	178	15	3
		Low		3,666	223	234	970	52	154	14	1
4	High RSLR Business-as-Usual Compact Population	High	977	1,866	87	115	447	25	202	16	3
		Mid		2,779	145	182	763	43	178	15	2
		Low		3,801	233	243	991	54	154	14	0

Other Results			
Construction Time (years)			10
Direct Wetland Impacts (acres)			2,500
Indirect Impacts (unitless)			2
Spatial Integrity (unitless)			0.44
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	($ Millions)	
	1 / 2	6,749	6,776
	3 / 4	6,754	6,781

Wetlands Created/Protected	Scenario 1	Scenario 2	Scenario 3	Scenario 4
After 50 yrs (% of baseline)	105	104	105	104
After 100 yrs (% of baseline)	105	100	105	100
Present Value of Life Cycle Costs ($ Millions)				
Coastal Component	4,756	4,796	4,756	4,796
Nonstructural Component	365	365	379	379
Structural Component	13,918	13,955	13,918	13,955
Total Project	19,039	19,116	19,053	19,130

2075 Residual Risk / Damages - Low Uncertainty ($ Millions)								
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4	
	No Action	With Proj	No Action	With Proj	No Action	With Proj	No Action	With Proj
10-year	1,024	83	1,523	102	1,013	82	1,543	102
100-year	4,254	418	5,717	631	4,148	351	5,447	508
400-year	8,571	5,300	9,628	5,482	7,772	4,923	8,782	5,092
1,000-year	11,203	10,720	11,827	10,826	10,886	10,477	11,680	10,643
2,000-year	12,281	11,245	12,591	11,328	12,370	11,154	12,769	11,236

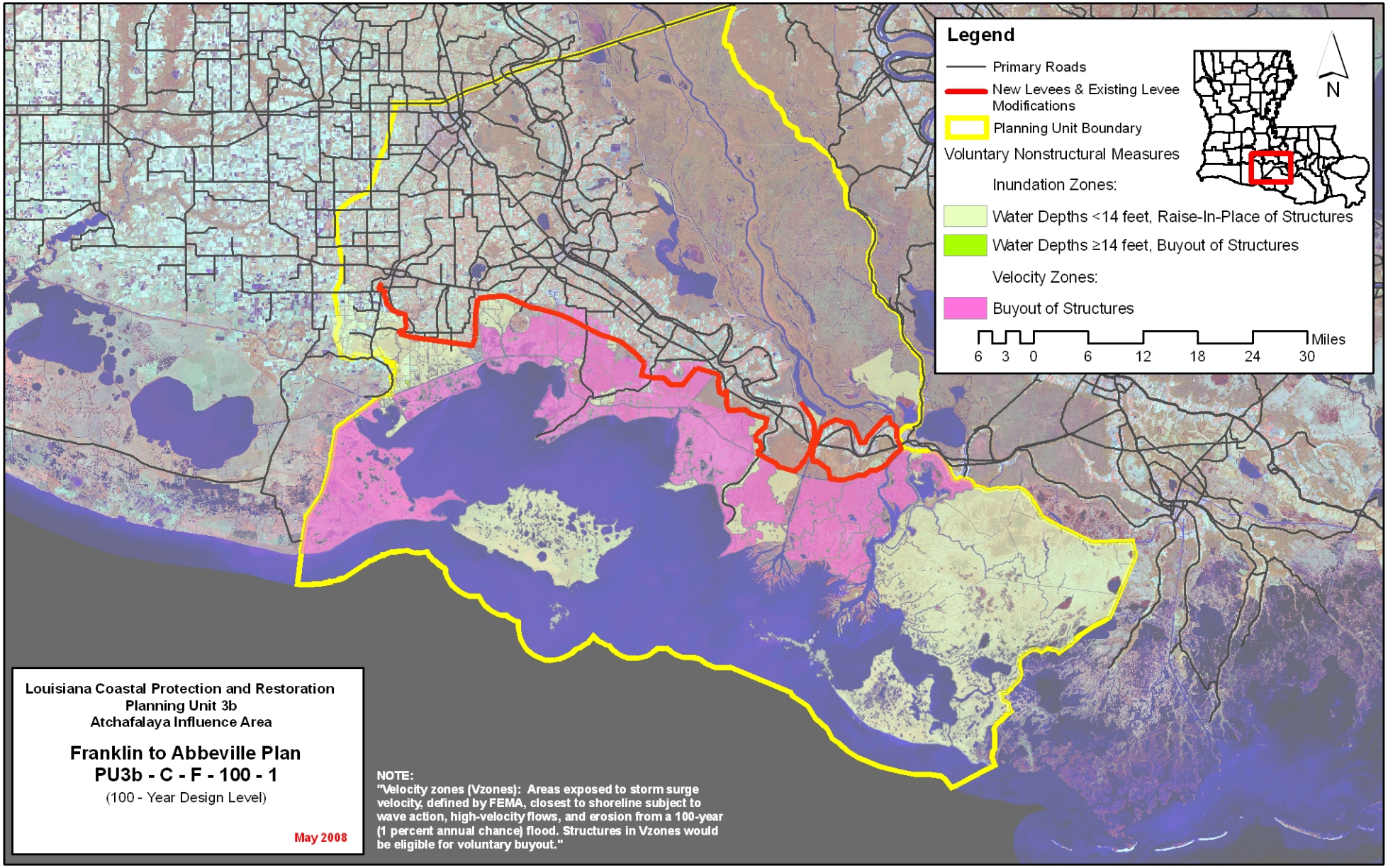
Planning Unit 3b

Comprehensive Plan

Franklin to Abbeville Alt

100-year Design

Note: **Present Value** costs and **Annual Equivalent** numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4 7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.


Legend
Primary Roads
New Levees & Existing Levee Modifications
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
Franklin to Abbeville Plan
PU3b - C - F - 100 - 1
(100 - Year Design Level)
May 2008
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:	3b	**Alt. No.:**	PU3b-C-F-400-1	**Category:**	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU3b-F-400-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1		**Nonstructural Component:**		400-yr complementary measures
Structural Component:	Same as Alternative PU3b-F-400-1				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands: Life Cycle Cost Ann. Equiv. $ Millions	Population Impacted Ann. Equiv. #	Residual Damages Ann. Equiv. $ Millions	Gross Regional Output Impacted Ann. Equiv. $ Millions	Employment Impacted Ann. Equiv. #	People's Earned Income Impacted Ann. Equiv. $ Millions	Archeo. Sites Protected # Sites	Historic Properties Protected # Properties	Historic Districts Protected # Districts
1	Low RSLR High Employment Dispersed Population	High	1,455	2,092	85	115	482	26	202	19	5
		Mid		3,014	141	181	821	44	178	19	5
		Low		3,801	209	229	1,017	54	154	18	5
2	High RSLR High Employment Dispersed Population	High	1,467	2,207	93	41	511	29	202	19	5
		Mid		3,144	152	58	862	48	178	19	5
		Low		3,970	222	67	1,036	55	154	18	4
3	Low RSLR Business-as-Usual Compact Population	High	1,463	1,953	84	114	464	26	202	19	5
		Mid		2,857	139	180	785	43	178	19	5
		Low		3,624	204	226	960	51	154	18	5
4	High RSLR Business-as-Usual Compact Population	High	1,475	2,061	92	126	490	28	202	19	5
		Mid		2,983	149	195	816	46	178	19	5
		Low		3,781	215	238	985	53	154	18	4

Other Results			
Construction Time (years)			12
Direct Wetland Impacts (acres)			3,900
Indirect Impacts (unitless)			2
Spatial Integrity (unitless)			0.44
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	($ Millions)	
	1 / 2	10,061	10,144
	3 / 4	10,117	10,199

Wetlands Created/Protected	Scenario 1	Scenario 2	Scenario 3	Scenario 4
After 50 yrs (% of baseline)	105	104	105	104
After 100 yrs (% of baseline)	105	100	105	100
Present Value of Life Cycle Costs ($ Millions)				
Coastal Component	4,756	4,796	4,756	4,796
Nonstructural Component	293	293	452	452
Structural Component	23,445	23,639	23,445	23,639
Total Project	28,494	28,729	28,652	28,888

2075 Residual Risk / Damages - Low Uncertainty ($ Millions)								
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4	
	No Action	With Proj	No Action	With Proj	No Action	With Proj	No Action	With Proj
10-year	1,024	70	1,523	88	1,013	70	1,543	88
100-year	4,254	244	5,717	376	4,148	185	5,447	277
400-year	8,571	763	9,628	1,051	7,772	540	8,782	800
1,000-year	11,203	1,369	11,827	1,520	10,886	1,155	11,680	1,365
2,000-year	12,281	1,921	12,591	2,017	12,370	1,790	12,769	1,884

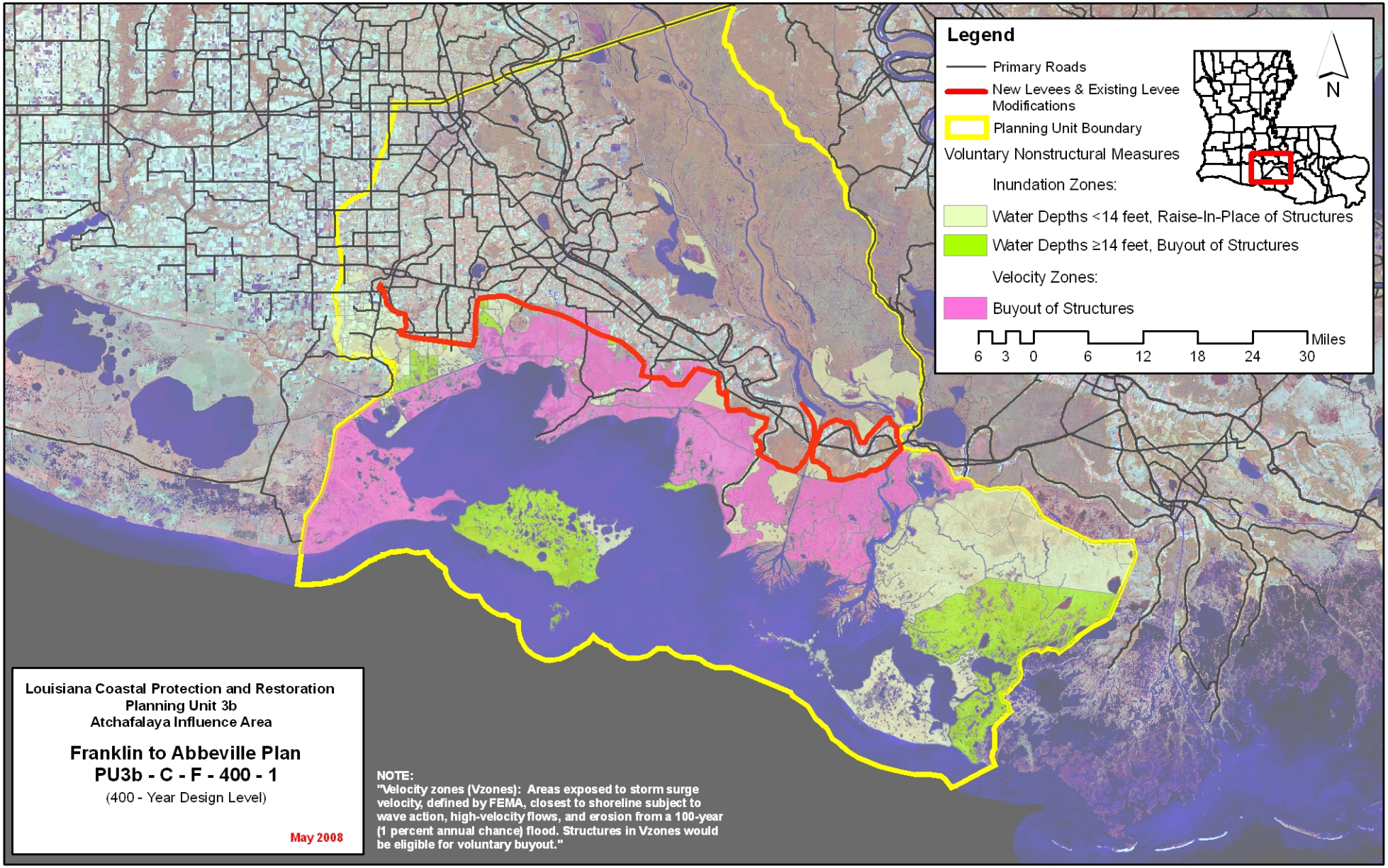
Planning Unit 3b

Comprehensive Plan

Franklin to Abbeville Alt

400-year Design

Note: **Present Value** costs and **Annual Equivalent** numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4 7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.


Legend
Primary Roads
New Levees & Existing Levee Modifications
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
N
6 3 0 6 12 18 24 30 Miles
Louisiana Coastal Protection and Restoration
Planning Unit 3b
Atchafalaya Influence Area
Franklin to Abbeville Plan
PU3b - C - F - 400 - 1
(400 - Year Design Level)
May 2008
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:	3b	**Alt. No.:**	PU3b-C-F-1000-1	**Category:**	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU3b-F-1000-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1		**Nonstructural Component:**		1000-yr complementary measures
Structural Component:	Same as Alternative PU3b-F-1000-1				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,853	2,269	91	128	530	29	202	19	5
		Mid		3,280	152	202	900	49	178	19	5
		Low		4,128	224	251	1,104	58	154	18	5
2	High RSLR High Employment Dispersed Population	High	1,856	2,403	100	50	566	32	202	19	5
		Mid		3,431	164	65	937	52	178	19	5
		Low		4,320	239	78	1,137	61	154	18	4
3	Low RSLR Business-as-Usual Compact Population	High	1,855	2,119	91	129	512	29	202	19	5
		Mid		3,112	151	202	866	48	178	19	5
		Low		3,939	220	252	1,057	57	154	18	5
4	High RSLR Business-as-Usual Compact Population	High	1,857	2,246	99	144	545	32	202	19	5
		Mid		3,258	162	219	903	51	178	19	5
		Low		4,119	233	267	1,088	60	154	18	4

Other Results			
Construction Time (years)			14
Direct Wetland Impacts (acres)			5,200
Indirect Impacts (unitless)			2
Spatial Integrity (unitless)			0.44
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	($ Millions)	
	1 / 2	12,779	12,798
	3 / 4	12,790	12,809

Wetlands Created/Protected	Scenario 1	Scenario 2	Scenario 3	Scenario 4
After 50 yrs (% of baseline)	105	104	105	104
After 100 yrs (% of baseline)	105	100	105	100
Present Value of Life Cycle Costs ($ Millions)				
Coastal Component	4,756	4,796	4,756	4,796
Nonstructural Component	459	459	492	492
Structural Component	31,074	31,087	31,074	31,087
Total Project	36,288	36,343	36,321	36,375

2075 Residual Risk / Damages - Low Uncertainty ($ Millions)								
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4	
	No Action	With Proj	No Action	With Proj	No Action	With Proj	No Action	With Proj
10-year	1,024	65	1,523	81	1,013	65	1,543	82
100-year	4,254	153	5,717	226	4,148	144	5,447	196
400-year	8,571	556	9,628	811	7,772	402	8,782	616
1,000-year	11,203	1,125	11,827	1,365	10,886	956	11,680	1,228
2,000-year	12,281	1,507	12,591	1,636	12,370	1,368	12,769	1,491

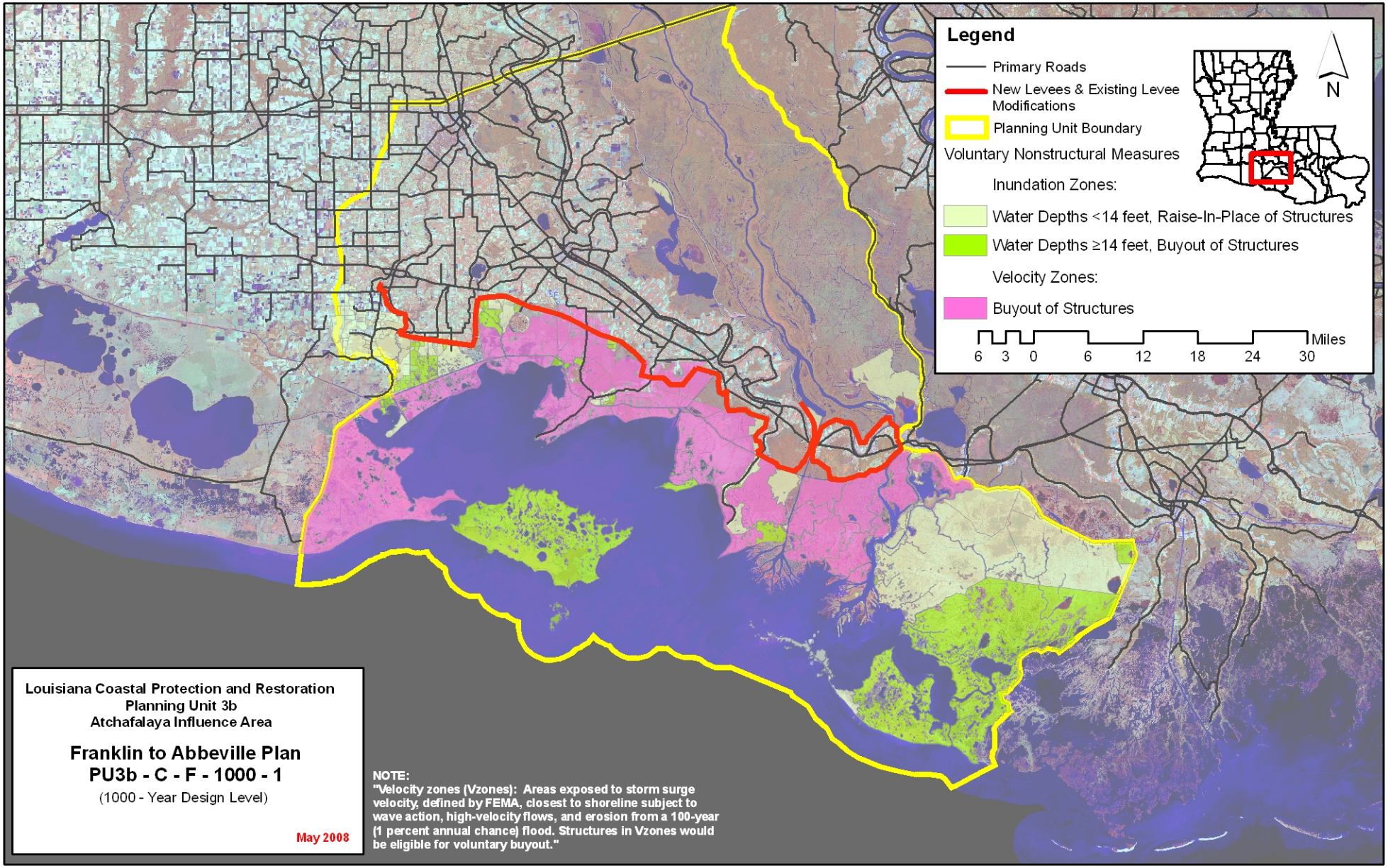
Planning Unit 3b

Comprehensive Plan

Franklin to Abbeville Alt

1000-year Design

Note: **Present Value** costs and **Annual Equivalent** numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4 7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.


Legend
Primary Roads
New Levees & Existing Levee Modifications
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
Franklin to Abbeville Plan
PU3b - C - F - 1000 - 1
(1000 - Year Design Level)
May 2008
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:	3b	**Alt. No.:**	PU3b-C-RL-100-1	**Category:**	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU3b-RL-100-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1		**Nonstructural Component:**		100-yr complementary measures
Structural Component:	Same as Alternative PU3b-RL-100-1				

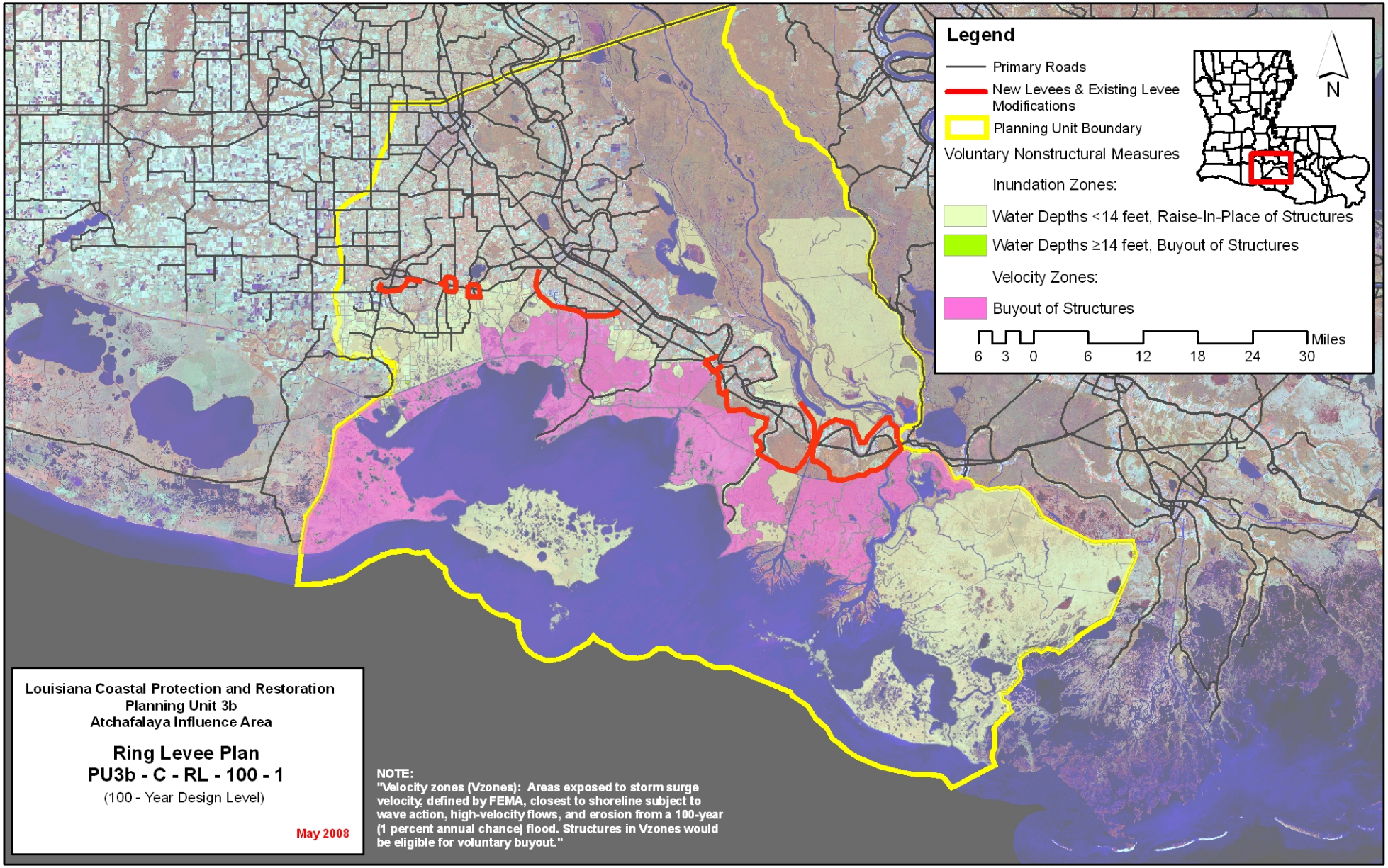
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	878	2,711	91	126	472	26	171	15	3
		Mid		3,807	154	204	841	47	147	12	3
		Low		4,988	244	267	1,085	60	123	11	0
2	High RSLR High Employment Dispersed Population	High	882	2,882	103	73	535	32	171	13	3
		Mid		4,026	174	100	889	52	147	12	1
		Low		5,280	269	124	1,110	62	123	8	0
3	Low RSLR Business-as-Usual Compact Population	High	880	2,487	90	127	455	26	171	15	3
		Mid		3,563	151	205	802	46	147	12	3
		Low		4,704	236	266	1,014	57	123	11	0
4	High RSLR Business-as-Usual Compact Population	High	884	2,657	101	147	504	30	171	13	3
		Mid		3,767	168	224	841	49	147	12	1
		Low		4,981	257	278	1,044	59	123	8	0

Other Results			
Construction Time (years)			10
Direct Wetland Impacts (acres)			900
Indirect Impacts (unitless)			2
Spatial Integrity (unitless)			0.44
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	($ Millions)	
	1 / 2	6,192	6,218
	3 / 4	6,208	6,233

Wetlands Created/Protected	Scenario 1	Scenario 2	Scenario 3	Scenario 4
After 50 yrs (% of baseline)	105	104	105	104
After 100 yrs (% of baseline)	105	100	105	100
Present Value of Life Cycle Costs ($ Millions)				
Coastal Component	4,756	4,796	4,756	4,796
Nonstructural Component	862	862	907	907
Structural Component	11,579	11,612	11,579	11,612
Total Project	17,197	17,271	17,242	17,315

2075 Residual Risk / Damages - Low Uncertainty ($ Millions)									Planning Unit 3b Comprehensive Plan Ring Levee Alt 100-year Design
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj	No Action	With Proj	No Action	With Proj	No Action	With Proj	
10-year	1,024	107	1,523	128	1,013	105	1,543	125	
100-year	4,254	1,038	5,717	1,859	4,148	926	5,447	1,585	
400-year	8,571	6,486	9,628	7,016	7,772	5,973	8,782	6,399	
1,000-year	11,203	9,360	11,827	9,686	10,886	8,745	11,680	9,113	
2,000-year	12,281	10,261	12,591	10,468	12,370	9,833	12,769	10,075	

Note: **Present Value** costs and **Annual Equivalent** numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4 7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.


Legend
Primary Roads
New Levees & Existing Levee Modifications
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
Ring Levee Plan
PU3b - C - RL - 100 - 1
(100 - Year Design Level)
May 2008
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."

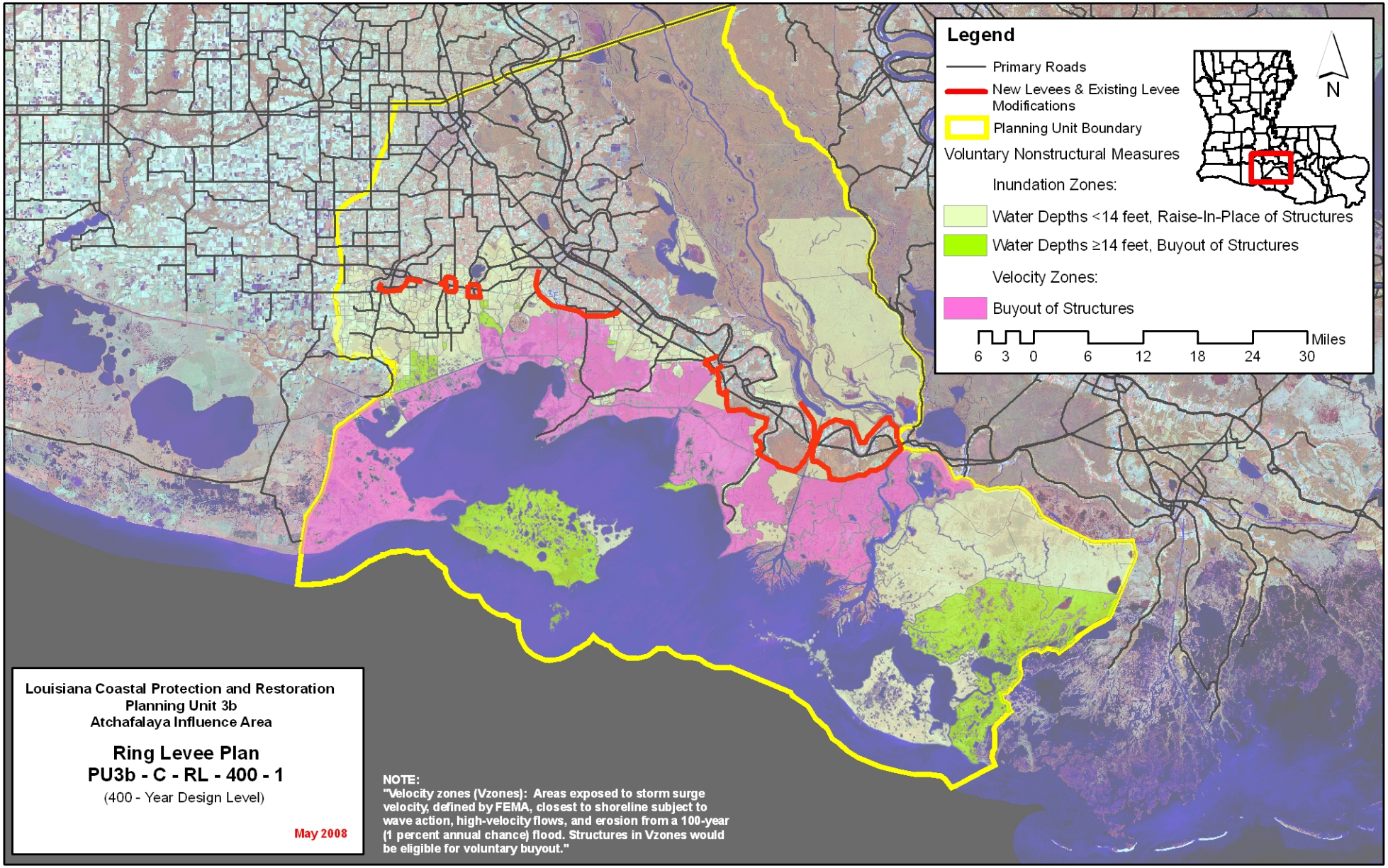
Planning Unit:	3b	**Alt. No.:**	PU3b-C-RL-400-1	**Category:**	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU3b-RL-400-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1		**Nonstructural Component:**		400-yr complementary measures
Structural Component:	Same as Alternative PU3b-RL-400-1				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	Ann. Equiv. $ Millions	Ann. Equiv. #	Ann. Equiv. $ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,213	2,767	88	129	492	27	171	17	3
		Mid		3,864	143	196	832	46	147	16	3
		Low		4,882	213	247	1,037	56	123	15	3
2	High RSLR High Employment Dispersed Population	High	1,216	2,949	97	57	525	31	171	15	3
		Mid		4,095	156	72	869	49	147	15	3
		Low		5,184	229	85	1,058	58	123	13	2
3	Low RSLR Business-as-Usual Compact Population	High	1,253	2,537	87	131	478	27	171	17	3
		Mid		3,613	142	197	801	45	147	16	3
		Low		4,591	208	248	990	54	123	15	3
4	High RSLR Business-as-Usual Compact Population	High	1,256	2,718	96	144	506	30	171	15	3
		Mid		3,829	154	213	836	48	147	15	3
		Low		4,878	223	259	1,016	56	123	13	2

Other Results			Wetlands Created/Protected	Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)		12	After 50 yrs (% of baseline)	105	104	105	104
Direct Wetland Impacts (acres)		1,700	After 100 yrs (% of baseline)	105	100	105	100
Indirect Impacts (unitless)		2	Present Value of Life Cycle Costs ($ Millions)				
Spatial Integrity (unitless)		0.44	Coastal Component	4,756	4,796	4,756	4,796
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	($ Millions)	Nonstructural Component	1,002	1,002	1,785	1,785
	1 / 2	8,493 / 8,516	Structural Component	17,996	18,024	17,996	18,024
	3 / 4	8,767 / 8,791	Total Project	23,754	23,822	24,537	24,605

2075 Residual Risk / Damages - Low Uncertainty ($ Millions)									Planning Unit 3b Comprehensive Plan Ring Levee Alt 400-year Design
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj	No Action	With Proj	No Action	With Proj	No Action	With Proj	
10-year	1,024	95	1,523	113	1,013	92	1,543	110	
100-year	4,254	291	5,717	376	4,148	284	5,447	364	
400-year	8,571	1,827	9,628	3,227	7,772	1,413	8,782	2,466	
1,000-year	11,203	6,161	11,827	6,696	10,886	5,280	11,680	5,812	
2,000-year	12,281	8,635	12,591	8,885	12,370	8,156	12,769	8,441	

Note: **Present Value** costs and **Annual Equivalent** numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4 7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.


Legend
Primary Roads
New Levees & Existing Levee Modifications
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
Ring Levee Plan
PU3b - C - RL - 400 - 1
(400 - Year Design Level)
May 2008
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."