

A photograph of a sunset over the ocean. The sun is low on the horizon, creating a bright orange and yellow glow that reflects on the water. The sky is filled with soft, wispy clouds in shades of blue, purple, and orange. The water in the foreground is dark blue with gentle waves.

STAC Draft Report Round 2: Summary of Subcommittee Revisions

Terry Gaasterland (STAC Chair)

October 26, 2017

Major Changes

1. Took inspiration from Imperial Beach report
 - Easy to read
 - Included all adaptation options
2. Attended to Del Mar's unique character
 - Preserve the beach
 - Preserve homes and property
 - Acknowledge and embrace importance of Del Mar's sea walls along North Beach
3. Remove or revise “remove structures” throughout

Major Changes

4. Split Adaptation Plan single chapter into five chapters

Highest Priorities Chapter 5

Kept: Fire station, public works, sewer lift

Added: Sand Management and Retention

Lagoon / Wetlands Chapter 6

River Flooding Chapter 7

Bluff Erosion Chapter 8 (bluff + beach)

Beach Erosion Chapter 9 (north beach)

Major Changes

5. Template for each Adaptation Plan chapter

Part 1:

Intro paragraph

Vulnerabilities (bullets)

Available Adaptation Measures (bullets)

Part 2:

For each measure, pros and cons, with tables

Part 3:

Summary Table with measures and metrics describing when each becomes relevant

Part 4:

Permits and procedures to adopt measures

Major Changes

6. Executive Summary and Chapters 1 through 4

Executive Summary

Chapter 1 = Planning process, About Del Mar

Chapter 2 = Relevant documents, guidelines

Including Community Plan, BPI, CCC documents

Chapter 3 = Tutorial / Background

Sand movement in the Oceanside Littoral Cell and implications for Del Mar's beaches

Chapter 4 = Monitoring Change /
Planning /
Lead-times

Wetlands

Criteria & Thresholds	Wetland Conversion	Pickleweed / Cordgrass Mudflat	Cordgrass Mudflat Open Water	Mudflat Open Water	Open Water
Adaptation Options	Protect		Sediment placement		
	Accommodate	Conversion and transgression			
	Retreat		Wetland expansion/restoration		

River Flooding

Criteria & Thresholds	Annual risk of extreme flooding*	5%	15%	50%	100%
Adaptation Options	Protect	Channel dredging			
			Reservoir management		
			Levee with partial retreat		
	Accommodate	Raise structures			
	Retreat		Relocate infrastructure		

Bluff Erosion (bluff + beach)

Criteria & Thresholds	Railroad setback from bluff edge	15 - 110 ft	0 - 60 ft	0 - 35 ft	0 - 5 ft	0 ft
	Sewer setback from bluff edge	40 - 170 ft	0 - 130 ft	0 - 110 ft	0 - 65 ft	0 ft
	1st row setback from bluff edge	65 - 175 ft	10 - 190 ft	0 - 150 ft	0 - 100 ft	0 - 50 ft
Adaptation Options	Protect (soft measures)	Beach and dune nourishment				
		Best management practices				
	Retreat (Phase 1)	Relocate Railroad				
	Retreat (Phase 2)	Remove sewer, storm drains, fiber optic cables				

Beach Erosion (north beach)

Criteria & Thresholds	Summer beach width	120 ft	80 ft	35 ft	0 ft
	Winter beach width	65 ft	25 ft	0 ft	0 ft
	Annual risk of extreme flooding*	5%	15%	50%	100%
Adaptation Options	Protect (soft measures)	Beach and dune nourishment			
	Protect (hard measures)		Raise/improve sea walls		
	Protect (hard measures)			Sand retention structures	
	Accommodate		Raise structures		
	Retreat		Relocate public infrastructure		

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Questions?
Suggestions?
Improvements?
What's next?

10/26/17

STAC subcommittee revisions - summary