

John H. Chafee Coastal Barrier Resources System Unit L06, Topsail, North Carolina

Type of Unit: System unit

Location of Unit: South of Jacksonville, in Onslow County

Congressional District: 3

Establishment of Unit: Coastal Barrier Resources Act (P.L. 97-348) enacted on 10/18/1982

Historical Changes to Unit: 11/16/1990: P.L. 101-591 modified the boundaries of Unit L06 to include new areas.

Existing Boundary Description: The northern boundary of Unit L06 roughly follows New River Inlet, cutting across an accreted spit on the north side of the inlet. The landward boundary generally follows the center of the Intracoastal Waterway and roughly follows the shoreline and the wetland/fastland interface. The southern boundary cuts across Everett Bay and extends across the barrier island. The excluded area boundaries are drawn around clusters of development which existed on-the-ground when the surrounding area was added to Unit L06.

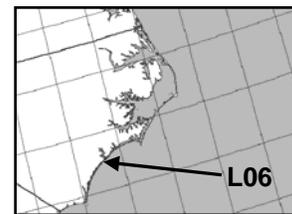
Proposed Changes to Boundary: The northern boundary of Unit L06 is adjusted to be contiguous with the proposed boundaries of Unit L05, which follow the center of New River Inlet and the New River. The landward boundary is adjusted to include the entire Intracoastal Waterway and to follow more precisely the wetland/fastland interface and the shoreline from Swan Point to Turkey Creek. The landward boundary in the vicinity

of Sandford Landing is aligned with digital property parcel data to remove development that existed on-the-ground when this area was added to Unit L06. The southern boundary is adjusted to follow the wetland/fastland break and to align with a road.

In the northern excluded area of Unit L06, the southern boundary is adjusted to align with digital property parcel data to exclude a condominium built prior to 1982. The western boundary is adjusted to follow digital property parcel data and add undeveloped land to Unit L06. The northern boundary is adjusted to align with digital property parcel data to remove development that was on-the-ground in 1990 when this area was added to Unit L06. The seaward boundary is adjusted to follow the Atlantic Ocean shoreline.

In the southern excluded area of Unit L06, the southern boundary is aligned with digital property parcel data to include the properties that were not developed in 1982 when the area was established as Unit L06. The western boundary is adjusted to add associated aquatic habitat to Unit L06 and follow the eastern edge of the Intracoastal Waterway. The seaward boundary is adjusted to follow the shoreline.

Additional Comments: An infrastructure analysis was performed for the development in the area around the excluded areas and in the vicinity of Sandford Landing. This analysis looked at whether roads, a wastewater



disposal system, electric service, and a fresh water supply served each lot or building site prior to the areas being added to Unit L06. The results affirmed that sewer and water lines were installed along the main roads and primary electric service was available but secondary services were not constructed until the lots were developed. No information was available on the roads except what is visible on the April 30, 1982, photography in the Coastal Barrier Resources Act of 1982: Photographic Inventory, Volume 7, North Carolina. An infrastructure analysis was not performed for any other pilot project unit due to resource and time restrictions. The results of this analysis were not used as a justification of any proposed boundary adjustments for Unit L06, but are included here for information purposes.

The proposed adjustments to the landward boundary of Unit L06 add undeveloped fastland to the unit.

Acreeage, Shoreline, and Structures:

	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	6,043.5	1,032.1	5,011.4	6.9	
Added to the CBRS	188.4	9.4	179.0		0
Removed from the CBRS	127.6	76.9	50.7		56
Reclassified Area	(48.6)	0.0	(48.6)	0.0	
Proposed Unit	6,055.7	964.6	5,091.1	7.3	
Net Change	12.2	(67.5)	79.7	0.4	(56)

¹ Land above mean high tide

² Includes adjacent wetlands, marshes, estuaries, inlets, and nearshore waters

³ Structure count derived from 1998 aerial photography, and 2006 Onslow County property parcel information