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Protocols for Nourishment, Maintenance, and Monitoring of Fiber Roll Array

234 Middle Point Road, West Tisbury
January 10, 2020

Nourishment

Sand nourishment of the fiber roll array, using 95 cubic yards, shall be conducted once a year in the month of March regardless of any specific trigger. Sand nourishment that was conducted under the previous Order of Conditions (SE 79-344) was consistent with an estimated rate of erosion for the project area which was 2.1-feet per year. This rate of erosion provided a volume of 55 cubic yards. The 95 cubic yards of sand proposed for this NOI filing is based on the actual volumes used to maintain the sand depths that were specified in the previous Order. The volume of sand nourishment has been determined based on the average amount of sand applied, per year, over the last six years, 2014 through 2019 (see Table 1).

Sand nourishment shall be compatible beach sediment in size and content. Local sources of compatible sediment will be investigated prior to purchasing off-island sand. Access for nourishment work will be the access as shown on the diagram titled "Proposed Nourishment Access for 234 Middle Point Road" dated January 10, 2020.

Table 1. Sand nourishment amounts per year

Year	Month	Nourishment Amount (cu yds)	Annual Total (cu yds)
2014	April	36	36
2015	January	51	51
2016	January	55	55
2017	February	55	165
	March	55	
	December	55	
2018	March	100	155
	November	55	
2019	January	55	110
	November	55	
Average Annual Nourishment per Year			95

Maintenance

Repairs to the fiber roll array, including tightening of the anchoring system and mending of torn fiber rolls, will be conducted as needed, customarily in spring after the winter storm season, to the extent necessary to repair the fiber roll array. These mends or repairs shall not exceed the scope of the

existing fiber roll array as shown on the approved plans. Materials to be used for repairs will be staged landward of the fiber roll array. Access for maintenance work will be the access as shown on the diagram titled "Proposed Nourishment Access for 234 Middle Point Road" dated January 10, 2020. The site will be restored and returned to its previous conditions following any proposed maintenance work.

Monitoring

Site inspections to document the condition and function of the fiber roll array and to assess any potential changes to nearby coastal areas or to vegetation will be carried out twice a year; once in the spring after the winter storm season and once in the fall prior to winter storm season. An annual monitoring report will be completed and submitted to the West Tisbury Conservation Commission by the end of each year. The monitoring reports will include: a description of the work to date, general performance and condition of the fiber roll array, anticipated work, and other site observations, including vegetation and the beach profile, and photographic documentation. Site inspections and reports shall be carried out by a contractor considered qualified by the West Tisbury Conservation Commission to have a demonstrated expertise in these types of projects, 2020.