

COASTAL DUNE REG

LEGAL NOTICE

Notice is hereby given that the following regulation has been adopted by the Bourne Board of Health, under the provisions of Massachusetts General Laws, Chapter 111, section 31 and Section. 127A, at its meeting on January 23, 1985.

1. Having determined that coastal beaches, dunes, banks, barrier beach systems, and coastal lands subject to flooding are highly dynamic areas subject to ongoing erosion, over wash process, and a highly responsive groundwater table,
2. Having determined that these areas are characterized by active sediment transport and/or by a highly sensitive and fluctuating groundwater regime,
3. Having determined that these areas have been designated as hazard prone areas in terms of potential public health and safety problems relating to drinking water quality, shellfish and fisheries contamination, and personal life and property damage,
4. And, having found that the health and welfare of the inhabitants and natural resources of the Town may be directly threatened by the exposure of, due to erosion, sewage disposal systems in these hazard prone areas, be it enacted that no newly constructed septic systems shall be installed in any area where there is active shifting of sands or earth, or where the distance from naturally occurring ground elevation, measured as the existing ground surface (exclusive of all fill materials) to observed high ground water elevation, is less than 6 feet This restriction is based on currently available observed and researched geohydrologic characteristics for these areas and may only be overcome by submission from the project proponent, site specific information developed by a qualified geohydrologic personnel that detail as a minimum.

1. 5 groundwater quality analyses of existing conditions.
2. groundwater elevation contours entering , crossing, and leaving the site. These shall be maximum high elevations observed over the spring high tides.
3. projected groundwater quality impact resulting from proposed project including nitrate loading
4. any other information deemed necessary by the Board of Health, its agent, and/or consultant.

Coastal beaches, coastal dunes, barrier beaches, and coastal banks, for the purposes of this regulation shall be defined as:

- a. Coastal beaches, to include any unconsolidated sediment sub subject to wave, tidal and coastal storm action which forms the gently sloping shore of a body of salt water and

includes tidal flats. Coastal beaches extend from the mean low water line landward to the dune line, coastal bank line or the seaward edge of existing man-made structures, where these structures replace one of the above lines, whichever is closest to the ocean:

b. Coastal dunes, to include any natural hill, mound or ridge of sediment landward of a coastal beach deposited by wind action or storm over wash. Coastal dune also means sediment deposited by artificial means and serving the purpose of storm damage prevention or flood control:

c. Barrier beaches, to include any low-lying strip of land generally consisting of coastal beaches and coastal dunes extending roughly parallel to the trend of the coast. It is separated from the mainland by a narrow body of fresh, brackish or saline water or a marsh system. A barrier beach may be joined to the mainland at one or both ends.

d. Coastal banks composed of unconsolidated sediment, to include the seaward face or side of any elevated landform, other than a coastal dune, which lies at the landward edge of a coastal beach, land subject to tidal action, or other wetland. These banks are exposed to vigorous wave action and through that action serve as a major continuous source of sediment by coastal processes. Coastal banks with previously existing manmade structures such as seawalls, riprap, revetments and bulkheads are exempt from this provision.

e. Coastal lands subject to flooding are those areas bordering or adjacent to coastal dunes, coastal banks, marshes and/or barrier beaches, and are mapped on FEMA flood maps as velocity or acceleration zones.

This regulation is to take effect on the date of publication of this notice.