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INTEROFFICE MEMORANDUM

TO: TWE  
FROM: TWM  
DATE: 11-12-91  
RE: NORTHEASTER OF OCTOBER 31, 1991

No Name Storm

The storm of October 30, 1991 has been referred to as being of sufficient magnitude to classify it as a 100 year storm. The following data was obtained on November 5, 1991 to record the actual flood high water elevations caused by this storm for future reference.

Criteria for observation:

The flood water marks observed were taken from places of relatively calm water and do not reflect the effects of wave action.

All elevations are based on National Geodetic Vertical Datum (NGVD) mean sea level elevation = 0.00

Areas of observation:

1. **Ryders Cove Boat Yard** - the storm tide elevation was observed as a dark oily scum line on the outside of the large boat storage building - elevation **9.33**.
2. **Chatham Fish Pier** - the storm tide elevation was observed as a line drawn on a walk in freezer unit inside the Nickerson Fish & Lobsters building as observed and marked by the owner - elevation **9.83**.
3. **Outermost Harbor** - the storm tide elevation was observed as the top of an oily scum film line on the sliding glass door inside the Outermost Harbor Marine Building - elevation **9.05**.
4. **Stage Harbor** - the storm tide elevation was observed as the water mark line on the stairway to the Stage Harbor Yacht Club - elevation **7.11**.
5. **Oyster Pond** - the storm tide elevation was observed as a rack line across the driveway east of Stage Harbor Road opposite the town beach - elevation **6.94**.
6. **Morris Island Road** - the flood elevation was observed as the rack line across the lawn of the Deadrick property at 121 Morris Island Road - elevation **7.34**.
7. **Seagull Lane** - the flood elevation was observed as a dirty film line across the garage door of the Cunningham property at 131 Seagull Road - elevation **7.62**.

The Morris Island Road and Seagull Lane observations are believed to be the result of overwash flooding and not of direct tidal action as the elevations are higher than that observed in Stage Harbor.

cc Board of Selectmen