

ORLEANS
TOWN SERVICES REPORT
Fiscal Year 2011
(July 1, 2010 – June 30, 2011)

CAPE COD COMMISSION

Planning, Community Development, and Technical Services

- The Commission assisted the town with development of its draft Multi-Hazard Mitigation Plan.
- The Commission assisted the Pleasant Bay Alliance in developing a coastal atlas for Pleasant Bay.
- The Commission committed \$20,000 in District Local Technical Assistance funds to the Orleans Streetscape project, an initiative centering on the Route 6A/Main Street intersection, including landscape design, planning, and mapping services.
- The Commission conducted 28 automatic traffic-recorder counts on road segments and six turning-movement counts at intersections in Orleans.
- With data collected by staff members aided by an AmeriCorps Cape Cod member, the Commission identified the location of private wells in Orleans to ensure the protection of private water supply wells from herbicide spraying adjacent to NSTAR utility rights-of-way (ROWs).
- The Commission provided the mapping and geographic data analysis for the Nauset Marsh watershed analysis for the Massachusetts Estuaries Project.
- The Commission supported the town's work on its Comprehensive Wastewater Management Plan and related activities.
- The Commission conducted the annual Pond and Lake Stewardship (PALS) freshwater ponds sampling snapshot for Bakers, Bolands, Cedar, Critchet's, Deep, Gould, Ice House, Kettle, Little Gould, Little Inn on Pleasant Bay, Meadow Bog, Reuben's, Sarah's, Shoal, Twinings, Uncle Harvey's, Uncle Israel's, and Uncle Seth's ponds, and Crystal and Pilgrim lakes.
- The Commission conducted water education festivals for students in Orleans.

Regulatory Activities

DRI Reviews Ongoing at Year End

- Orleans Comprehensive Wastewater Management Plan – a proposed draft plan that identifies and evaluates three alternative plans for wastewater treatment and disposal.

Other Regulatory Assistance

- The Commission submitted a comment letter to the Massachusetts Environmental Policy Act (MEPA) Office on the Environmental Notification Form for the River Road Boat Ramp Reconstruction (3/8/11).

Cape Cod Cooperative Extension

- The Orleans Tree Department of the Department Public Works received twenty-five low maintenance shade trees from the Barnstable County Shade tree nursery. The nursery was established ten years ago at the Barnstable County Farm to

provide trees and shrubs at below wholesale prices to the municipalities throughout Barnstable County.

- The Orleans Water Department received two grants totaling \$20,000.00 to continue implementing the wildfire protection and preparedness plan on the Orleans Water Department Land. The grant allowed the town the ability to clear and maintain fire roads as well as reduce fuel loads through mechanical removal of heavy under brush in the highest risk areas.
- On-site and remote technical assistance has been provided on a variety of coastal geology topics including: shoreline change, erosion control alternatives, potential effects of various human activities on coastal landforms, coastal flood plains, coastal hazards, hazard mitigation analyses, and shoreline stabilization techniques. On-site visits typically address site-specific coastal processes/hazards, which are followed with unbiased, written technical alternatives analyses. These site visits are most often requested by Conservation Commission Agents but have also been requested by Beach Committees, Department of Natural Resources, and beach residents. Five site visits occurred in the town of Orleans.
- The Coastal Processes Specialist published and distributed educational information to the Conservation Commission Agent of the town. These materials consisted of a Biological Erosion Control Extension Bulletin (4 pages) and a Coastal Managers Guide to Longshore Sediment Transport (46 pages).
- The Coastal Processes Specialist provided technical comments on numerous documents (i.e. Improvement Dredging, Pier/Dock Construction, Sediment Management Plan, Needs Assessment, etc.) for the Pleasant Bay Alliance. In addition, the Alliance sought assistance from the Cape Cod Cooperative Extension Service to develop a coastal management atlas for Pleasant Bay ACEC and adjacent Chatham Harbor area. Technical assistance was provided in compiling and analyzing the information, manipulating and creating GIS-based figures, and writing and editing chapters regarding coastal processes. The atlas should provide a compendium of objective, scientifically based information for Conservation Commissions, other local, regional and state officials, and property owners. Once completed it is hoped that this would be of significant value for projects (ex. coastal erosion protection, beach nourishment, and dredging) to the Alliance communities of Orleans, Chatham, Harwich, and Brewster.
- Eleven children and 3 adults participated in a fish printing program held at Snow Library during one day in July.
- One hundred seventy-five students in grades K-5 participated in 13 marine science classes offered through the Coastal Explorer vehicle during April. Teachers were provided with the *Coastal Explorer Curriculum Guide*.
- The Nauset Middle School hosted three 4-H Babysitting courses reaching 39 youth.
- Several students from Nauset High School participated in the Cape Youth Force Grants Program and were in attendance at the Youth Summit.
- Orleans received 200 bags of remote-set oysters also funded through the Barnstable County Municipal Shellfish Propagation Program. It is estimated that each bag contained a minimum of 1000 juvenile oysters. Value of these bags of remote set at time of dispersal was \$2,300.

- Previously, Orleans received 800 remote-set bags as part of an Estuaries Nitrogen Remediation Project. A site within Orleans (Mill Pond) had been chosen as a test area for determining the effectiveness of using shellfish (oysters) as a tool for water quality improvement.
- For the seventh consecutive year, a site in Orleans remains part of an ongoing shellfish habitat assessment program. This quantitative assessment has future use when considering dock or dredging projects, can optimize shellfish restoration efforts, assist with shellfishery management decision making and help the shellfish farmers maximize their yields.
- One site within Orleans was chosen for long-term deployment of marine water quality instrumentation.
- One shellfish culturist was chosen and funded at \$1,000.00 to be part of the SEMAC Research Farm Network which focused on a comparison of triploid (seedless) oysters and conventionally grown diploid oysters.
- Nauset Inlet in Orleans was assessed and monitored as one of the potential sites for eelgrass restoration and subsequently chosen for experimental eelgrass transplanting to assess it's potential for a full-scale restoration effort.
- Marine staff attended meetings and provided assistance to the Pleasant Bay Alliance.
- Technical assistance and educational programs were also provided to town personnel, aquaculturists, and local citizens.
- Household hazardous waste collections conducted for Orleans in 2010 provided the following data: Eastham residents represented 140 cars and 188 households in two Eastham/Orleans HHW collections. A total of 4,365 gallons / 21,570 pounds of hazardous waste was collected at the two HHW collections. Year round residents comprised 55% of participants, 29% of participants were participating for the first time in the collection, and 9% of participants brought waste that was left in their home when they bought it.
- The Cape Cod Cooperative Extension mercury collection program collected the following items in the Town of Orleans in 2010: 17 fever thermometers, 3 lab thermometers, and 44 thermostats.
- A total of 70 road and marine flares were collected in the Town of Orleans by Cape Cod Cooperative Extension in 2010.
- A total of 158 sharps containers were paid for and provided by Cape Cod Cooperative Extension to the Town of Orleans in 2010 for distribution to the general public. The disposal cost for all full sharps containers returned to the town was paid for by Barnstable County / Cape Cod Cooperative Extension.
- A total of 18 staff and volunteers from the Orleans Council on Aging attended a workshop entitled, "Cooking and Serving for Groups: Food Safety for Volunteers."
- Food Handling is a Risky Business, a workshop for foodservice employees and volunteers, was held for 30 participants in collaboration with the Town of Orleans Board of Health.

- Nutrition educator participated in Biometric Screenings offered by the Cape Cod Municipal Health Group. Nutrition education through a display, one-on-one conversations, educational materials, and food demonstrations was made available in conjunction with health screenings.
- Body Walk, an interactive educational exhibit, was conducted at Orleans Elementary School. Body Walk features an eleven-station tour of the body, from brain to mouth, stomach, small intestine, heart, lungs, bones, muscles, and skin with a focus on the role of nutrition along the way. A total of 63 students experienced the exhibit. Follow-up activities for use in the classroom were provided to each participating teacher. Additionally, take home materials were developed and provided to every student, allowing them to share the messages with parents.
- Six issues out of the year-long series of Pumpkin Post & Banana Beat newsletters have been distributed in collaboration with elementary schools throughout Barnstable County to 2031 families with children in kindergarten. The Pumpkin Post series is an educational newsletter including recipes and regular columns on child feeding challenges, seasonal foods, physical activity, and menu ideas. The series of six newsletters focus on themes about breakfast, fitness, fruits and vegetables, healthy lunches, goal setting and holiday eating.
- Fifty residents received technical information from the Plant Clinic via phone call, office visit, fact sheet, or soil test.
- Master Gardeners made five presentations to civic groups in the Town of Orleans.
- Educational materials for distribution included wallet cards and rack cards. These materials contain key information on tick identification, life cycle and prevention tips for tick bites and lowering the risk of tick-borne illnesses such as Lyme. Distribution points included Town Halls including all Department of Health Offices, Chambers of Commerce, Public Libraries and golf courses. Golf courses were offered signs to post to alert people about tick habitat and precautions. Each distribution point was visited between May and June as the highest risk period for Lyme disease approached (June – August). In general, each location received between 50 and 200 each of rack and wallet cards.

Children’s Cove

- Conducted 7 SAIN (Sexual Abuse Intervention Network) interviews.
- Provided counseling sessions to 16 child victim and their family members with referrals to community providers for long term treatment.
- Conducted 1 medical examination for children at Children’s Cove.

Fire & Rescue Training Academy

- Chainsaw Awareness
 - 1 Firefighter
- Confined Space Rescue
 - 3 Firefighters
- Firefighter I&II

- 1 Firefighter
- ICS 400
 - 1 Student
- Thermal Imager
 - 3 Firefighters

9 Students, \$3,700.00 Dollar Value, 41.5 Day value, 336 Hour Value

Department of Health & Environment

- Provided assistance to Orleans Health Dept. per contract with Barnstable County Department of Health and Environment for 15 hour/week of inspectional services. Inspectional services include restaurant, pools and Title 5 septic systems. Assisted in septic system and building plan review and investigated any complaints received in town. Conducted 60 restaurant inspections, 20 pool inspections and witnessed 73 test holes. 50 Title V Septic inspections were conducted and 10 housing/ miscellaneous complaints were investigated.
- Conducted site evaluation with John McLaughlin, MassDEP at the Orleans Transfer Station.
- Evaluated Orleans Public Health Emergency Communication Plan
- Participated in Oral Rabies Vaccination (ORV) distribution (1 day).
- Responded to 32 residential and commercial referrals for Indoor Air Quality (IAQ), hazardous material issues, or Environmental Health and Safety (EHS) assistance (27 residential/commercial IAQ/housing, 4 commercial/industrial hazardous materials, 1 residential hazardous material).
- Continued work with DPW on comprehensive and written EHS program for transfer station and garage area.
- Conducted a complete assessment of ventilation issues in DPW apparatus area-working with town on upgrading ventilation for worker safety.
- Mitigated DEP action against town for hazardous material release-approximate savings to town \$1700.
- Coordinated County and Cape Cod Medical Reserve Corps nurse and volunteer staff scheduling for regional adult immunization clinic; 117 adult immunizations (shingles, Td, Tdap, MMR, varicella, Hepatitis A, Hepatitis B, pneumonia) given to Orleans's residents at no charge. Acted as an evaluator for the HSEEP compliant public health preparedness drill conducted at this clinic
- Presented Sun Safety education to over 200 adolescent and adult participants at Nauset Beach
- Managed underground storage tank (UST) program which tracks testing and removal of tanks; also perform tank testing. Two active tanks tracked and tested; have overseen removal of 27 tanks in conformance with Board of Health regulations.
- Provided technical information on Title 5 and innovative/alternative wastewater treatment at Board of Health hearings.
- Secured a grant for the collection and laboratory analyses of marine beach samples. Sampling of marine water was conducted weekly at five sites; Meeting House Pond, Nauset Beach, Pleasant Bay, Rock Harbor, and Town Cove.

- Monthly sampling of marine water was conducted at two sites; Skaket Beach and Kent's Point. Bi-monthly sampling of marine water was conducted at two sites; Pah Wah Pond and Priscilla's Landing. The Orleans Board of Health was notified immediately of bacterial exceedences and retesting was conducted daily until bacteria levels were found to be within acceptable limits.
- Sampling of fresh water was conducted weekly at three sites; Bakers Pond, Crystal Lake, and Pilgrim Lake. Samples were processed for detection of fresh water indicator bacteria *E. coli*. The Orleans Board of Health was notified immediately of bacterial exceedences and retesting was conducted daily until bacteria levels were found to be within acceptable limits.
 - Biometric Screening, Town of Orleans, 20 attendees
 - Created ClinicACE, an internet-based immunization clinic preregistration system and successfully pre-registered 612 immunizations. Necessary immunization documents were printed by each registrant following completion of the registration process, saving the town valuable time on the day of the clinic.
 - Compliance management of 43 innovative/alternative wastewater treatment units.
 - Sent/received 34 correspondences involving 16 innovative/alternative wastewater treatment systems.
 - Resolved three O&M contract non-compliance issues.
 - Continued Carmody Innovative/Alternative(I/A) Septic System Database User Fee collection, invoicing I/A operators for 34 systems for which they are responsible for reporting to the database.
 - Landfill sampled semi-annually for a total of 22 wells/year and approximately 50 person hours (this total does not include lab work). Quarterly soil gas monitoring is also performed for the Town of Orleans resulting in an additional 85 hours.
 - Over 90 inspections (food service/pools) were performed in support of the town Health Department during the seasonal influx of tourists.
 - BCREPC provided two mobile message boards for one community events in the Town of Orleans.
 - Two inspections of every tobacco retailer and two tobacco compliance checks of each tobacco retailer were conducted. Educated the BOH on "Other Tobacco Products".
 - Secured home betterment loans for the correction of 4 septic systems within the town (\$45,326 in projects).
 - Laboratory services saved town over \$2,000 in analytical fees.

Department of Human Services

- Health and Human Services Advisory Council: COA Director represents the Lower and Outer Cape COA on the Council
- HRC: HRC sponsors an annual party for J-1 Students in Rock Harbor Orleans. Several hundred students come, along with many area residents, to celebrate the summer and thank the students for helping our local economy. Ocean Edge workers are always well represented. In FY11, the party was July 21, 2010. This certainly cultivates an atmosphere of mutual understanding and harmonious inter-group relationships.

- HRC: In November 2010, the HRC cosponsored a “tree of life” program in Harwich (St Peter Lutheran Church) and Orleans (Holy Spirit Church). This brought Israeli and Palestinian leaders to our towns, to meet with local residents, to underscore the need for peace and to share background on the current conflicts.

Resource Development Office/AmeriCorps Cape Cod

- Field Habitat Succession, Champlain Road
Members removed invasive vines and honeysuckle to restore a native field habitat.
- Watershed Tree Removal
Members thinned standing and downed trees for improved access and management of the watershed areas.
- Uncle Harvey’s Town Landing Restoration
Members removed invasive plants at the town landing site to restore native plant populations.
- Little Sipson Island Osprey Pole Installation
Members moved and installed an osprey pole on Little Sipson Island.
- Hopkins Garden Restoration
Members removed invasive species.
- Members assisted with the ongoing restoration of Uncle Harvey’s Town Landing, removed invasives from other conservation lands, and planted trees and shrubs at Orleans Elementary School. Members celebrated Arbor Day with the students of Orleans Elementary and spent the week working with students and community volunteers.