



April 26, 2013

Glenda Velez - CIP
U.S. Environmental Protection Agency - Region 1
5 Post Office Square – OEP06-01
Boston, MA 02109-3912

Fred Civian
Massachusetts Department of Environmental Protection
One Winter Street - 5th Floor
Boston, MA 02108

**Subject: Annual Update - NPDES Phase II General Permit
Town of Sandwich Stormwater Management Plan: Year 10 Update**

Dear U.S. EPA and MaDEP:

As required under the NPDES Stormwater General Permit, the Town of Sandwich hereby submits this annual update of the Town's Stormwater Management Plan (SMP). This report is a continuation of the original 5-year permit issued for the Town of Sandwich. During the tenth year, the Town continued many efforts implemented in the initial permit and strove to meet goals that were planned but not met within the first five years. An update of Year 10 accomplishments are listed below and shown in the attached tables.

Year 10 Update

The Town of Sandwich continues to be very proactive in the field of stormwater management and has successfully fulfilled nearly all of its goals established in its Stormwater Management Plan over the 10-year period.

This Annual Update provides a look at major accomplishments, new programs and goals and the status of goals that have not been met as scheduled. Below is a summary of Year 10 implementation.

Major Tenth Year Accomplishments (Spring 2012 - Winter 2013)

Below is a list of some of the significant goals accomplished over the past year. Further details and illustrations of these accomplishments are shown in the attached appendix.

Stormwater Mitigation of Mill Creek

Building on an effort that started back in 1990, the Town of Sandwich has continued implementing BMP retrofits through another state grant (319 – Non-point Source Pollution). This grant-funded project was completed in the spring of 2012. All components are complete and operational. The BMPs installed by this program mitigate stormwater pollution entering Mill Creek, a tributary of

Sandwich Harbor. The grant also includes an educational aspect, actively involving local students with stormwater matters.

Shellfishing had been prohibited by the State at Sandwich Harbor since 1985 due to bacteriological contamination. Starting with illicit detection inspection in 1990 and continuing with Coastal Pollution Remediation (CPR) grants and now the 319 grant, the Town continues to actively mitigate stormwater impacts in the Town of Sandwich. The Town's efforts to abate pollution, including stormwater mitigation, have resulted in the recent reopening of the shellfish beds by the Division of Marine Fisheries.

Comprehensive Water Resources Management Plan Development

The Town of Sandwich has continued Comprehensive Water Resources Management Planning to address water resource issues across Town, including stormwater management. In addition to stormwater, the work will assess and develop solutions for wastewater and other potential pollution sources. The Town's consultant has made significant progress on the first phase of this work, the Needs Assessment. It is expected that significant progress will be made over the next year.

Environmental Exposition at Sandwich High School

The Engineering Department attends an Environmental Expo at Sandwich High School each year to view projects completed by the senior class. The Engineering Department assists students throughout their project period by providing mapping and stormwater information related to their local projects.

Sandwich High School Senior Project Program

This year, the Engineering Department participated in the Sandwich High School's Senior Project Program. The Department provided guidance with environmental and stormwater pollution issues.

Household Hazardous Products Collection

The Town collaborates annually with four other neighboring communities to provide opportunities for residents to properly dispose of household hazardous products. This reduces the amount of hazardous material released to the environment, including water resources.

Municipal Solid Waste Disposal Enhancements

Town recently implemented a Pay-As-You-Throw program at the Solid Waste Transfer Station. This program requires users to pay for each bag of general trash disposed of. This, together with improvements to the recycling center has reduced the Town's municipal solid waste stream and increased recycling. The Department of Public Works also distributed compost bins for home composting and aired "Home Composting - Turning Your Spoils to Soil" on local TV (a MassDEP DVD). The Town hosted and participated in a Home Composting demonstration presented by the Cape Cod Commission. The Town gave away recycling and compost bins at this event.

Community Pride Day

The Town of Sandwich continues the annual Community Pride Day where residents participate in the cleanup of the Town. The DPW distributes equipment to assist in the cleanup of trash and identifies locations where residents can focus their efforts, such as at walking trails, roadsides, beaches,

marshes and along shorelines. This event helps prevent trash from entering our valuable water bodies.

Stormwater Inspections and Monitoring

The Town continues to monitor erosion control at developments and inspect illicit connections throughout town as part of its SMP. The Town's enforcement of this program has effectively cleaned up many sites, minimizing impacts to the Town's drainage system and water bodies.

Stormwater Management Plan on Display

The Stormwater Management Plan is on display on the Town's web site for public viewing. Additionally, the Town's GIS allows the public to pinpoint specific stormwater problems and relay this information via e-mail to the Department of Public Works. The e-mail shows a map and ID number of the drainage facility so the DPW can quickly respond to any drainage issues. This process also allows accurate record keeping by the DPW.

Water Quality Groups

The Town of Sandwich is proactive in matters related to water quality in Sandwich and on Cape Cod. The Town has many public officials and volunteers actively involved with water quality committees including but not limited to the Sandwich Water Quality Advisory Board, Mass Estuaries Program, Popponesset Bay State DEP Pilot Intra-municipal Work Group and 3 Bays Initiative.

Status of Goals for Year 10

Similar to the original table submitted for the NPDES General Permit, the attached table shows goals proposed for all Six Control Measures. This updated table reflects new goals and the status of Year 1 through 10 goals. The yellow highlighted cells represent goals scheduled and met in each season of respective years. New goals mentioned earlier have also been included in the table.

The attached appendix shows several of the actions performed by the Town to meet the Year 10 goals listed in the table.

Overall Status of 10-Year Permit Term

As can be seen in the attached table, almost all of the goals in the Town's SMP have been met over the permit period. It's important to note that several new goals were added to the Six Control Measures as the SMP evolved. Goals that were not achieved are shown below. In all instances, these goals will be accomplished in future years, as identified in the table. Note: Some of the goals overlap in the Six Control Measures.

Unmet Goals of Six Control Measures

5.4 Construction Stormwater Runoff Control

4g. Recommended BMP's – Future Goal

The Town requires developers to design drainage facilities using BMP's. The Town had anticipated the Cape Cod Commission obtaining a grant to create a list of "Cape Cod BMP's" to distribute to developers. Since the grant was not awarded, the Town has begun to develop its own brochure and list of BMP's. This work is underway and is anticipated to be completed in the next permit year.

4i. Erosion Control Guidelines – Future Goal

The Town has begun to update its current Erosion Control Guideline to reflect current BMP practices and design. This guideline will be available for developers and homeowners. The guideline will also complement enforcement letters for non-compliance. This work is underway and is anticipated to be completed in the next permit year.

5.5 Post Construction Stormwater Management

5f. Recommended BMP's – Future Goal. See Unmet Goal 5.2, 4g above.

5h. Erosion Control Guidelines – Future Goal. See Unmet Goal 5.2, 4.i above.

Future Stormwater Management Plan & Permit

As mentioned above, the Town plans to complete the remaining goals of the SMP during the next permit and will continue implementing most of the SMP goals annually.

The Town will add to its SMP goals as necessary to meet compliance requirements of new permits issued by EPA and DEP. Several of the preliminary requirements for the new permit listed in the EPA letter dated August 3, 2007 are goals that the Town of Sandwich has already implemented. The Town anticipates that it will be able to comply with the others as staffing and funding becomes available.

Conclusion

The Town of Sandwich's accomplishments over the permit period meet or exceed nearly all of the scheduled goals. Additionally, new goals have been created to further enhance the Town's Stormwater Management Plan. We trust that these accomplishments will satisfy the Massachusetts Department of Environmental Protection and the United States Environmental Protection Agency requirements for this permit. Please contact Sam Jensen of the Sandwich Engineering Department if you have any questions or require further information regarding this Annual Update.

Sincerely,

A handwritten signature in blue ink, appearing to read "Sam J.", is written over the signature line.

Samuel J.P. Jensen, P.E.
Assistant Town Engineer


Encl.

cc: G. Dunham, Town Manager
P. Tilton, DPW Director, Town Engineer



| BMP ID # | PERMIT YEAR ONE | | | | PERMIT YEAR TWO | | | | PERMIT YEAR THREE | | | | PERMIT YEAR FOUR | | | | PERMIT YEAR FIVE | | | | PERMIT YEAR 6 ACHIEVEMENTS | PERMIT YEAR 7 ACHIEVEMENTS | PERMIT YEAR 8 ACHIEVEMENTS | PERMIT YEAR 9 ACHIEVEMENTS | PERMIT YEAR 10 ACHIEVEMENTS | STATUS | |
|--|-----------------|-----------|---------|--------------|-----------------|-----------|---------|--------------|-------------------|-----------|---------|--------------|------------------|-----------|---------|--------------|------------------|-----------|---------|--------------|----------------------------|----------------------------|----------------------------|----------------------------|--|---|----------|
| | Spring 03 | Summer 03 | Fall 03 | Winter 03-04 | Spring 04 | Summer 04 | Fall 04 | Winter 04-05 | Spring 05 | Summer 05 | Fall 05 | Winter 05-06 | Spring 06 | Summer 06 | Fall 06 | Winter 06-07 | Spring 07 | Summer 07 | Fall 07 | Winter 07-08 | | | | | | Goals | Comments |
| 5.1: Public Education & Outreach | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1a | | | | | | | | | | | | | | | | | | | | | | | | | Current Educational Brochures | Brochures available at Town buildings and distributed at Stormwater events. Earth Day Events. | |
| 1b | | | | | | | | | | | | | | | | | | | | | | | | | Development Review | Continue to enforce stormwater and erosion regulations during development review. | |
| 1c | | | | | | | | | | | | | | | | | | | | | | | | | Public Display of Stormwater Mgmt Plan | Displayed on Town web site and at Public Library. | |
| 1d | | | | | | | | | | | | | | | | | | | | | | | | | Public Meeting | Held Public Meeting. Updated Board of Selectmen on SMP - BoS endorsed continuation. | |
| 1e | | | | | | | | | | | | | | | | | | | | | | | | | Proposed Educational Brochure | Continue to distribute brochures and educational information. | |
| 1f | | | | | | | | | | | | | | | | | | | | | | | | | Outfall & Catch Basin ID & Mapping | GIS Drainage Layer is complete. Continue drainage updates. | |
| 1g | | | | | | | | | | | | | | | | | | | | | | | | | Web Site Information | SMP is displayed on web site. Future Stormwater information to be displayed on web. | |
| 1h | | | | | | | | | | | | | | | | | | | | | | | | | Educational Festival | Participated in Water Festivals at Elementary Schools w/ County and AmeriCorps. | |
| 1i | | | | | | | | | | | | | | | | | | | | | | | | | Educate DPW Employees | Educated DPW employees about disposal and containment of hazardous wastes | |
| 1j | | | | | | | | | | | | | | | | | | | | | | | | | Educational Video | AmeriCorps Cape Cod w/ Stormwater video in Sandwich complete | |
| 1k | | | | | | | | | | | | | | | | | | | | | | | | | Catch Basin Stencils | Placing approx 100 CB markers & 500 door hangers in Town Neck area during summer. | |
| 1l | | | | | | | | | | | | | | | | | | | | | | | | | Stormwater Posters | Displayed 4 stormwater posters in several Town offices. | |
| 1m | | | | | | | | | | | | | | | | | | | | | | | | | Student Involvement | Assisted Environmental Science Classes at High School. | |
| 1n | | | | | | | | | | | | | | | | | | | | | | | | | Stormwater Committee | Project Storm team continues to meet to discuss stormwater and implement Phase II Regs | |
| 1o | | | | | | | | | | | | | | | | | | | | | | | | | Environmental Expo Review Team | Member of Environmental Expo Review Team for Sandwich High School | |
| 5.2: Public Involvement & Participation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2a | | | | | | | | | | | | | | | | | | | | | | | | | Development Review | Continue to enforce stormwater and erosion regulations during development review. | |
| 2b | | | | | | | | | | | | | | | | | | | | | | | | | Public Meeting | Held Public Meeting. Updated Board of Selectmen on SMP - BoS endorsed continuation. | |
| 2c | | | | | | | | | | | | | | | | | | | | | | | | | Public Display of Stormwater Mgmt Plan | Displayed on Town web site and at Public Library. | |
| 2d | | | | | | | | | | | | | | | | | | | | | | | | | Proposed Educational Brochure | Continue to distribute brochures and educational information. | |
| 2e | | | | | | | | | | | | | | | | | | | | | | | | | Illicit Discharge Identification | Continued inspection of potential illicit connections. | |
| 2f | | | | | | | | | | | | | | | | | | | | | | | | | Outfall & Catch Basin ID & Mapping | W/ AmeriCorps, identified over 2,500 CB's and outfalls w/ GPS. Report is available. GIS complete. | |
| 2g | | | | | | | | | | | | | | | | | | | | | | | | | Water Monitoring Program | Health Dept performs annual sampling. | |
| 2h | | | | | | | | | | | | | | | | | | | | | | | | | Educational Video | AmeriCorps Cape Cod w/ Stormwater video in Sandwich complete | |
| 2i | | | | | | | | | | | | | | | | | | | | | | | | | Educational Festival | Participated in Water Festivals at Elementary Schools w/ County and AmeriCorps. | |
| 2j | | | | | | | | | | | | | | | | | | | | | | | | | Student Involvement | Taught HS class, interacted w/ students on projects & involved them with data collection. | |
| 2k | | | | | | | | | | | | | | | | | | | | | | | | | Stormwater Committee | Formed Cape-wide group w/ CCC to develop & distribute educational info related to stormwater | |
| 5.3: Illicit Discharge Detection & Elimination | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3a | | | | | | | | | | | | | | | | | | | | | | | | | Household Hazardous Waste Program | Continue to distribute info and schedule household hazardous waste collection days w/ County. | |
| 3b | | | | | | | | | | | | | | | | | | | | | | | | | Sandwich Village Stormwater Assessment | Cont'd using Town funds/grants to mitigate stormwater. Completed construction of 319 grant. | |
| 3c | | | | | | | | | | | | | | | | | | | | | | | | | Illicit Discharge & Dumping Identification | Continued inspections of illicit discharges. Inspected and issued notices to sump pump owners. | |
| 3d | | | | | | | | | | | | | | | | | | | | | | | | | Catch Basin Cleaning | Continue to clean & monitor CB conditions. GIS drainage layer complete. | |
| 3e | | | | | | | | | | | | | | | | | | | | | | | | | Outfall & Catch Basin ID & Mapping | W/ AmeriCorps, identified over 2,500 CB's and outfalls w/ GPS. Report is available. GIS complete. | |
| 3f | | | | | | | | | | | | | | | | | | | | | | | | | Educational Information | Displayed posters & distributed brochures to public & developers. Earth Day Activities. | |
| 3g | | | | | | | | | | | | | | | | | | | | | | | | | Allowable Non-Stormwater Discharges | Will continue to search for non-stormwater discharges that may be significant polluters. | |
| 3h | | | | | | | | | | | | | | | | | | | | | | | | | Town Bylaw - Illegal Disposal | Town By-law includes illegal disposal law and fines. Will continue to update regs as necessary | |
| 3i | | | | | | | | | | | | | | | | | | | | | | | | | Water Sampling | Town continues sampling to monitor water quality improvements and to use for stormwater grants. | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Note: Many of the BMP's above will continue beyond the initial 5-year permit period.
= Goals completed in the season & year shown above. Words in Red = goals not accomplished under the five year permit.

| <div><div></div><div><div>Massachusetts Department of Environmental Protection</div><div>Bureau of Resource Protection - Watershed Management</div><div>BRP WM 08A NPDES Stormwater General Permit Notice of Intent</div><div>for Discharges from Small Municipal Separate Stormwater Sewer Systems (MS4's)</div><div>F. Storm Water Management Program TIME FRAMES</div></div></div> | | | | | | | | | | | | | | | | | | | | | | | | | Transmittal Number: <u>W035665</u> | | |
|---|-----------------|-----------|---------|--------------|-----------------|-----------|---------|--------------|-------------------|-----------|---------|--------------|------------------|-----------|---------|--------------|------------------|-----------|---------|--------------|----------------------------|----------------------------|----------------------------|----------------------------|------------------------------------|---|---|
| | | | | | | | | | | | | | | | | | | | | | | | | | Facility ID (if known): _____ | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | Page: <u>2</u> of <u>3</u> | | |
| BMP ID # | PERMIT YEAR ONE | | | | PERMIT YEAR TWO | | | | PERMIT YEAR THREE | | | | PERMIT YEAR FOUR | | | | PERMIT YEAR FIVE | | | | PERMIT YEAR 6 ACHIEVEMENTS | PERMIT YEAR 7 ACHIEVEMENTS | PERMIT YEAR 8 ACHIEVEMENTS | PERMIT YEAR 9 ACHIEVEMENTS | PERMIT YEAR 10 ACHIEVEMENTS | STATUS | |
| | Spring 03 | Summer 03 | Fall 03 | Winter 03-04 | Spring 04 | Summer 04 | Fall 04 | Winter 04-05 | Spring 05 | Summer 05 | Fall 05 | Winter 05-06 | Spring 05 | Summer 05 | Fall 05 | Winter 05-06 | Spring 07 | Summer 07 | Fall 07 | Winter 07-08 | | | | | | Goals | Comments |
| 5.4: Const. Stormwater Runoff Control | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4a | | | | | | | | | | | | | | | | | | | | | | | | | | Town Bylaw - Driveway Regulation | Continue to enforce driveway regulations to minimize stormwater impacts. |
| 4b | | | | | | | | | | | | | | | | | | | | | | | | | | Existing Laws & Regulations | Continue to enforce stormwater and erosion regulations and will evaluate need for updates. |
| 4c | | | | | | | | | | | | | | | | | | | | | | | | | | Educational Info & Public Participation | Distributed & displayed educational information. Earth Day Activities. Water & Sewer article. |
| 4d | | | | | | | | | | | | | | | | | | | | | | | | | | Development Review | Continue to enforce stormwater and erosion regulations during development review. |
| 4e | | | | | | | | | | | | | | | | | | | | | | | | | | Consideration of Public Information | Public notifies DPW of drainage issues via GIS. Town will solicit input on SMP and from web site. |
| 4f | | | | | | | | | | | | | | | | | | | | | | | | | | Site Inspections | Town officials continue to inspect & enforce regulations related to stormwater & erosion control. |
| 4g | | | | | | | | | | | | | | | | | | | | | | | | | | Recommended BMP's | Required BMP's thru development review. Town will complete BMP List for developers.. |
| 4h | | | | | | | | | | | | | | | | | | | | | | | | | | Zoning Bylaw - Erosion Control | Erosion control law in place and being enforced by site visits. Update as necessary. |
| 4i | | | | | | | | | | | | | | | | | | | | | | | | | | Erosion Control Guidelines | Will include with recommended BMP List for distribution. Old version is being updated. |
| 4j | | | | | | | | | | | | | | | | | | | | | | | | | | Subdivision Rules & Regulations | Made changes to stormwater regs in the Subdivision Rules & Regulations. Update as necessary. |
| 4k | | | | | | | | | | | | | | | | | | | | | | | | | | Water Sampling | Health Department/County sample water quality annually. DPW sampled Mill Creek for 319 Grant. |
| 4l | | | | | | | | | | | | | | | | | | | | | | | | | | Stormwater Posters | Displayed 4 Stormwater posters in Town buildings. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.5: Post-Construction Stormwater Management | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5a | | | | | | | | | | | | | | | | | | | | | | | | | | Growth Incentive Zones - Stormwater Plans | Working with CCC on Growth Centers and Local Comprehensive Plan to address these issues. |
| 5b | | | | | | | | | | | | | | | | | | | | | | | | | | Existing Laws and Regulations | Continue to enforce stormwater and erosion regulations and will evaluate need for updates. |
| 5c | | | | | | | | | | | | | | | | | | | | | | | | | | Educational Info & Public Participation | Distributed & displayed educational information. Earth Day Activities. Water & Sewer article. |
| 5d | | | | | | | | | | | | | | | | | | | | | | | | | | Development Review | Continue to enforce stormwater and erosion regulations during development review. |
| 5e | | | | | | | | | | | | | | | | | | | | | | | | | | Catch Basin Cleaning | Continue to clean & monitor CB conditions. Will include Maintenance Plan on GIS. |
| 5f | | | | | | | | | | | | | | | | | | | | | | | | | | Recommended BMP's | Required BMP's thru development review. Town will complete BMP List for developers. |
| 5g | | | | | | | | | | | | | | | | | | | | | | | | | | Zoning Bylaw - Erosion Control | Erosion control law in place and being enforced by site visits. Will update w/ BMP focus |
| 5h | | | | | | | | | | | | | | | | | | | | | | | | | | Erosion Control Guidelines | Will include with recommended BMP List for distribution. Old version is being updated. |
| 5i | | | | | | | | | | | | | | | | | | | | | | | | | | Subdivision Rules & Regulations | Made changes to stormwater regs in the Subdivision Rules & Regulations. Update as necessary. |
| 5j | | | | | | | | | | | | | | | | | | | | | | | | | | Water Sampling | Health Department and County continue to sample water quality and report to DPW. |
| 5k | | | | | | | | | | | | | | | | | | | | | | | | | | Stormwater Posters | Displayed 4 Stormwater posters in Town buildings. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.6: Pollution Prevention & Good Housekeeping in Municipal Operations | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6a | | | | | | | | | | | | | | | | | | | | | | | | | | Stormwater Mitigation w/ BMP's | Cont'd using Town funds/grants to mitigate stormwater. Completed construction of 319 Grant |
| 6b | | | | | | | | | | | | | | | | | | | | | | | | | | Pollution Control & Mitigation Measures | Installed fuel spill cleanup kit. Will continue pollution control at DPW and Town buildings. |
| 6c | | | | | | | | | | | | | | | | | | | | | | | | | | BMP Projects on Town-Owned Land | Will continue to implement BMP's at townwide projects. |
| 6d | | | | | | | | | | | | | | | | | | | | | | | | | | DPW: On-Site Stormwater Containment | DPW inspects Transfer Station drainage facilities quarterly and entire site annually. |
| 6e | | | | | | | | | | | | | | | | | | | | | | | | | | DPW Environmental Audit - EPA Program | Constructed Salt Shed and Interior washing area in DPW Garage. |
| 6f | | | | | | | | | | | | | | | | | | | | | | | | | | DPW Maintenance Program | DPW uses GIS to assist w/ catch basin maintenance records |
| 6g | | | | | | | | | | | | | | | | | | | | | | | | | | DPW Training | Employees are trained about stormwater impacts. DPW attends stormwater seminars |
| 6h | | | | | | | | | | | | | | | | | | | | | | | | | | Tree Planting Program | Town has completed a Tree Inventory and Management Plan for Sandwich Village. |
| 6i | | | | | | | | | | | | | | | | | | | | | | | | | | DPW Brochures | DEP and other agency brochures/FAQ are made available to employees/public. On web. |
| Note: Many of the BMP's above will continue beyond the initial 5-year permit period. = Goals completed in the season & year shown above. Words in Red = goals not accomplished under the five year permit. | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Page: 3 of 3

Note: Many of the BMP's above will continue beyond the initial 5-year permit period.

APPENDIX

YEAR 10 UPDATE

- HIGH SCHOOL ENVIRONMENTAL TECHNOLOGY PROJECT
NEWSCLIPPING & HANDOUT
- HOUSEHOLD HAZARDOUS PRODUCTS COLLECTION
- DPW HANDOUTS
- COMPREHENSIVE WATER RESOURCES MANAGEMENT PLAN
- COMMUNITY PRIDE DAY – TRASH CLEANUP

*****5-DIGIT 02563
SANDWICH ENGINEERING
16 JAN SEBASTIAN DR
SANDWICH MA 02563-2319



Inside

MUSIC

'Bourbon Cowboy'

Jeff Givens shares his tales from the country music trail. **Page 9**



GIRLS' TENNIS

Knights Knock Bourne

Headed to tournament. **Page 14**



The Sandwich Enterprise

Sandwich, Massachusetts

Friday, May 25, 2012

One Dollar

Dedicated To Serving Cape Cod's Oldest Community

Environmental Extravaganza



Photographs by GENE M. MARCHAND/ENTERPRISE
State Representative Randy Hunt speaks with Sandwich High School seniors Kyle Van Cleef and Ceara Tavares about their project about Green Briar Nature Center's Smiling Pond during this week's Environmental Expo at the high school. The students in Gil Newton's environmental science class created projects on an array of subjects, from solar cars to the stone jetties on Town Neck Beach. Rep. Hunt was one of the invited guests tasked with reviewing the 20 project at this year's expo.



Senior Brian Sullivan explains his team's project on conifers (evergreen) trees in Sandwich to sophomore Sasha Rudyakov and special education math teacher Don Shewchuk. This project examined the ideal conditions for conifer growth.



SHS Principal Elin Booras (second from right) gets a lesson about the many uses of seaweed, such as for food, fertilizer and even shampoo, from students Elizabeth Doleman, Elizabeth Simkins, Meghan Harden and Katherine Oliver.

**School Board
Reorganized,
But Not Without
Some Contention**



**Town Set To Put
Commercial
Acres Up For
Sale Again**



SANDWICH HIGH SCHOOL
ENVIRONMENTAL TECHNOLOGY
SNAKE POND ROAD ~ FALL 2012

- Introduction
 - Snake Pond Road Drainage Patterns & Points of Discharge
 - Significance of Stormwater and Road Runoff
 - U.S.E.P.A. Stormwater Program website:
 - <http://cfpub.epa.gov/npdes/stormwater/swbasicinfo.cfm>
 - Mass.D.E.P.
 - <http://www.mass.gov/dep/water/resources/nonpoint.htm>
 - Barnstable County ~ Cape Cod Commission
 - <http://www.capecodcommission.org/index.php?id=172&maincatid=49>
 - <http://www.capecodgroundwater.org/stormwater.html>
- Current Stormwater Policy & Programs
 - Massachusetts Stormwater Handbook
 - <http://www.mass.gov/dep/water/laws/policies.htm#storm>
 - Volume 1, Chapter 1, pp 1-2 Introduction & Standards
 - V1, ch1, p 17, Table CA 1 Standard 6
 - Volume 2, Chapter 1 – The Three Components of Stormwater Management
 - Town of Sandwich Stormwater Management Plan
 - <http://www.sandwichmass.org/Documents.asp?iFrame=Stormwater%20Management%20Plan.pdf&ID=50&DID=41>
- Engineering Assessment
 - Review Map of Discharges
 - Estimate Contributing Road Area
 - Review Available Water Quality Data
 - Field Investigation
 - Examine Data & Identify Trends
 - Formulate Recommendations

COLLECTION SCHEDULE

Saturday 9 am – 1 pm

April 21

Sandwich High School
365 Quaker Meetinghouse Road
East Sandwich, MA 02537

June 16

Falmouth High School
874 Gifford Street (off Brick Kiln Road)
Falmouth, MA 02540

August 18

Mashpee High School
500 Old Barnstable Road (off Route 151)
Mashpee, MA 02649

October 20

Peebles Elementary School
70 Trowbridge Road (off Bourne Rotary)
Bourne, MA 02532

** Residents /Homeowners of Bourne, Sandwich, Falmouth, Mashpee, & Air Station Cape Cod may attend any of the above listed Collection dates. **



Questions?

Contact the Barnstable County
Hazardous Materials Program
(508) 375-6699 / (800) 319-2783

Businesses must call to participate at cost.

Upper Cape Household Hazardous Products collections are funded by the towns of Bourne, Sandwich, Falmouth, and Mashpee, Covanta SEMASS, Cape Cod Cooperative Extension, and Barnstable County. Supported in part by AmeriCorps Cape Cod and Senior Environment Corps.



GOVANTA



Cape Cod Cooperative Extension
P.O. Box 367
Barnstable, MA 02630-0367

ECRWSS POSTAL CUSTOMER



Dehumidifier & Air Conditioner Turn-In Event
June 16th

Receive a \$35 mail-in rebate toward
an ENERGY STAR rated replacement

HOUSEHOLD HAZARDOUS PRODUCTS COLLECTIONS



2012 Schedule

Bourne • Sandwich
Falmouth • Mashpee
Air Station Cape Cod

What Are HOUSEHOLD HAZARDOUS PRODUCTS?

A wide range of materials used in homes are considered hazardous. Generally, these products are oil or solvent based, contain heavy metals such as mercury, or are caustic materials like drain cleaners.

Why should I be concerned?

Thousands of adults will visit a poison control center or emergency room this year with burns, poisonings, or eyesight damage caused by hazardous household products. Almost 1 million children under the age of six will be poisoned or injured in the home by household products, as will thousands of pets.

How can they be identified?

Read the label. If the label says Danger, Poison, Warning, or Caution, the product may be hazardous to your health or may pollute our ground and surface water.

Should I throw them away?

No! Some household products release toxic fumes or explode if they are mixed together in the trash, causing fires or injuring workers. Dumping them in landfills or sewers could contaminate our water supply or kill fish and other wildlife.

COLLECTION CHECKLIST

Cleaners & Chemicals

- Oven Cleaner
- Spot Remover
- Disinfectant
- Drain Opener
- Pool Cleaners & Chemicals
- Solvents & Degreasers
- Photo & Hobby Chemicals
- Acids

Paints, Polishes, & Stains

- **PLEASE DO NOT BRING LATEX PAINT!**
- See right panel for disposal details!

- Oil & Alkyd-Based Paint/Stain
- Paint Thinner & Remover
- Solvent-Based Wood Finish
- Auto Paint
- Marine Paints & Sealers
- Metal & Furniture Polish
- Wood Preservatives

Yard Chemicals

- Driveway Sealer with Solvent
- Insecticides, Pesticides, & Rodent Poison
- Weed Killer
- Fertilizers with Weed Killer

Auto Fluids

- Brake & Power Steering Fluid
- Bug & Tar Remover
- Car Polish & Cleaner with Solvent
- Gasoline
- Radiator Flush
- Camp Fuel

Mercury Products

- Blood Pressure Gauges
- Thermometers & Thermostats*
- Switches
- Mercury in Bottles

*Mercury thermometers and thermostats can be exchanged for their digital counterparts while supplies last, compliments of Covanta SEMASS.

How to... RECYCLE OTHER ITEMS

Recycle at your Transfer Station:

- Used Oil, Oil Filters, & Antifreeze
- Auto & Rechargeable Batteries
- Fluorescent Tubes & Compact Light Bulbs
- Empty Fire Extinguishers
- Propane Tanks
- Empty Cans
- Dry Paint Cans

Dispose of these items as noted:

- **Latex & Acrylic paints, Water-Based Stains & Wood Finishes** – Pour over cat litter to absorb liquid and throw away
- Alkaline Batteries – Throw away
- Ammunition, Firearms, Fireworks, & Explosives – Take to Police Department
- Sharps/Syringes – Bourne & Sandwich take to Fire Department, Mashpee take to Department of Public Works Building, Falmouth does not participate
- Safety Flares – Bourne, Sandwich, & Falmouth take to Fire Department, Mashpee take to Department of Public Works Building

Use up, Give away, or Dry out:

- Abrasive Cleaners
- Air Fresheners
- Ammonia
- Borax & Boric Acid
- Car Washes & Finishes
- Detergents
- Compounds
- Latex Glues & Caulks
- Cosmetics & Nail Polish
- Personal Care Products
- Lime & Plant Food
- Chlorine Bleach



How to Recycle in Sandwich

| MATERIAL | WHAT TO RECYCLE | HOW TO PREPARE | DO NOT INCLUDE |
|----------|-----------------|----------------|----------------|
|----------|-----------------|----------------|----------------|

METAL



- Steel/tin and metal food cans
- Aluminum pie plates and trays
- Deposit and non-deposit beverage cans

Deposit cans may also be donated at the Sandwich Little League shed

Recycle **DO NOT INCLUDE** items in the light-iron pile

- Rinse clean
- Labels OK

- Aerosol cans
- Paint cans
- Coat hangers
- Cookware

GLASS



- Clear and colored beverage containers
- Food and sauce jars
- Rinse clean
- Collar, neck rings & labels OK
- Caps & lids OK

Deposit bottles may also be donated at the Sandwich Little League shed

- Broken glass/auto glass
- Mirrors
- Ceramics: plates, cookware
- Drinking glasses
- Light bulbs
- Windows

PLASTIC



- All number 1 thru 7 recyclable rigid plastic containers
- Milk, water, soda, juice bottles
- Shampoo, conditioner bottles
- Laundry, bleach, fabric softener bottles
- Waxy gable cartons: Milk and Juice

- Rinse clean, caps OK



- Plastic bags: recycled in waste receptacles located in front of each compactor
- Styrofoam packaging of ANY KIND
- Chemical and motor oil containers
- Water/Garden Hose

CARDBOARD



- All cardboard must be recycled and will not be allowed in the trash-trailer except as noted in **DO NOT INCLUDE**
- Break down, flatten or fold

Complete list on back of brochure

- Contaminated boxes
- Food soiled and frozen food boxes example: pizza and Chinese take out

PAPER



- Newspapers
- Magazines, catalogs
- Junk mail, envelopes: tearable
- Books
- Paper bags
- Phone books
- Office and computer paper
- Boxboard: cereal, cracker - remove plastic liners

Complete list on back of brochure

- Place in paper grocery bags

- Food soiled as noted above
- Paper towels
- Tissues
- Diapers
- Boxboard plastic liners: recycled in waste receptacles located in front of each recycling compactor.

Paper (Fiber) is recycled in first or second designated compactor from left to right. Commingled metal, glass and plastic is recycled in third or fourth designated compactors from left to right. Only one Fiber and one Commingled compactor is open at a time. Limited recycling and Transfer station stickers may be obtained at the Town Hall Annex, 145 Main Street, across from the Sandwich Library. If unsure where a specific item should be recycled, please ask an attendant.

How to Recycle Fiber (Paper) in Sandwich

WHAT FIBER TO RECYCLE

Booklets
Books: soft cover
Boxes: for office supplies, like paper clips
Boxes: cereal, cracker, pasta, shoe, etc
Boxes: with plastic window
Brochures: including glossy
Calendars: wall type
Cardboard: corrugated and paperboard
Catalogs
Clasp envelopes
Colored paper
Construction and kraft paper
Cover and card stock, index cards
Envelopes: with plastic windows or labels
File folders
Flyers
Glossy paper
Greeting cards
Lottery tickets
Mail
Magazines
Mat board: used in picture framing
Math paper: graph and ledger, etc.
Newspapers: with or without inserts
Newsprint
Office and copy paper
Packing paper
Paper: lined and white
Paper: fax
Paper bags: brown and white
Paper bags: with handles
Paper towel and toilet paper tubes
Phone books
Photocopies
Post-it notes
Receipts
Shredded paper: in paper bags
Spiral notebooks
Writing tablets

DO NOT INCLUDE

Candy wrappers
Carbon paper
Disposable diapers
Envelopes with bubble wrap
Food-soiled paper and cardboard
Label backings
Paper cups or plates
Paper towels, napkins, tissues
Photographs
Take-out food containers: Chinese, etc.
Tyvek® mailing envelopes
Waxed paper and cardboard
Waxy gable cartons: Milk and Orange Juice

Metal spiral notebooks, paper clips, plastic envelope windows, self-stick labels and staples are allowed to be recycled with the items listed above

Items containing personal information should be shredded and recycled in paper bags

Composting is easy!

To make compost, just follow these simple steps:

1. Add three parts "browns"...

Fall leaves, straw, salt marsh hay, shredded paper and cardboard (newspaper, paper towels, paper plates, paper bags), chipped brush, sawdust, pine needles (pine needles should not make up more than 10% of total material in pile).

...and one part "greens"

Grass clippings, weeds (not laden with seeds), vegetable and fruit wastes, seaweed, eggshells, coffee grounds and filters, tea bags, manure (horse, cow, rabbit, chicken, goat, gerbil, etc).

2. Mix or layer materials.

After every 12" or so, add a few shovelfuls of rich soil or compost.

3. Keep it damp and aerated.

Wait a few months, and voila...black gold!

For best results, and to keep out odors and pests,

DO NOT ADD:

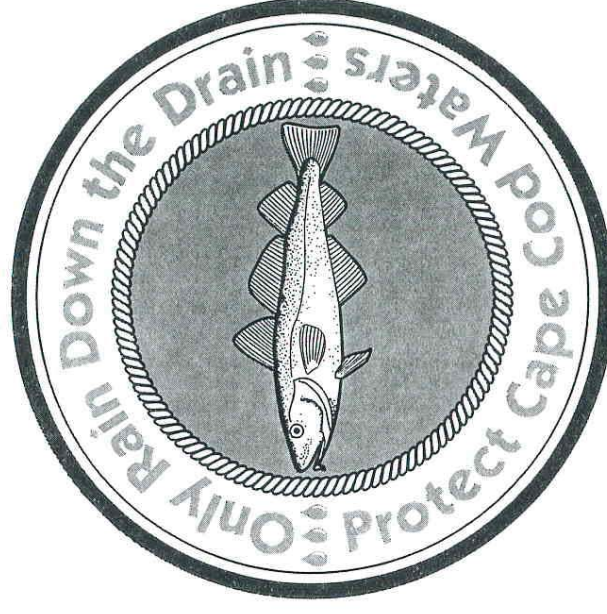
- ♦ Meat, bones, fat, grease, oils
- ♦ Peanut butter
- ♦ Dairy products
- ♦ Cooked foods with sauces or butter
- ♦ Dog and cat manure
- ♦ Diseased plants
- ♦ Weeds gone to seed
- ♦ Weeds that spread by roots and runners (vines)



WHEN IT RAINS IT DRAINS!

A HOMEOWNER'S GUIDE TO UNDERSTANDING STORMWATER POLLUTION

*Did you know your neighborhood drains to
Cape Cod waters? A little effort on
everyone's part goes a long way toward
keeping our waters clean!*



For more information:

Why should I care about stormwater pollution?

Stormwater is rain that falls on driveways, roads, and lawns. As stormwater travels over the land, it picks up contaminants not naturally found in our waterways. This water is carried away by stormwater pipes and drains. It eventually ends up in our groundwater, rivers, ponds, estuaries and the ocean. Pollution of our waterways can kill plants and animals that live in the water and make it unpleasant or even unsafe to boat, swim or fish.

What is in stormwater pollution?

| | |
|-----------------------|----------------------------|
| Animal and yard waste | Septic system overflow |
| Oil and grease | Motor vehicle fluids |
| Sediments | Fertilizers and pesticides |
| Litter | Car washing detergents |

What can I do to keep Cape Cod waters clean?

- Never dump anything into or near storm drains.
- Use fertilizers sparingly and avoid pesticides.
- Sweep up driveways, sidewalks and roads.
- Compost your yard waste.
- Water the lawn, not driveways or streets.
- Instead of washing the car in the driveway - wash it on the lawn or, better yet, go to a carwash that recycles.
- Check your car for oil, antifreeze and transmission leaks and make immediate repairs if needed.
- Never dump oil or antifreeze on the ground; recycle it instead at a designated recycling center.
- Pick up after your pet.
- Pump and inspect your septic tank regularly.

Helpful Websites:

www.epa.gov/npdes/stormwater
www.state.ma.us/dep/brp/stormwtr/stormpub.htm
www.capecodgroundwater.org



Town Of Sandwich Comprehensive Water Resource Management Plan



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[Massachusetts Estuary Project \(MEP\)](#)

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BOARDWALK AND TOWN NECK
BEACH AREA ARE CURRENTLY
CLOSED DUE TO
STORM DAMAGE

Double Click [HERE](#) for Draft Zoning
Articles from Planning Department

[Town Hall](#)[Transfer Station Webcam](#)[Directory](#)[Public Documents](#)[Calendar](#)[MAPS](#)[Minutes/Agendas](#)

Inc.
1639

Departments In

ABOUT SANDWICH

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COMMUNITY PRIDE

Community Pride Day is the 2nd Saturday prior to Memorial Day each year. But, you can contact the Department of Public Works at other times of the year at (508) 833-8002 to pick up your free clean-up supplies -- gloves, bags and safety vests -- to help keep our town clean anytime!



Town of Sandwich

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