COUNTY OF SUFFOLK



STEVE LEVY SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF PLANNING COUNCIL ON ENVIRONMENTAL QUALITY

R. Lawrence Swanson CHAIRPERSON CEQ Michael Mulé
ENVIRONMENTAL PROJECTS
COORDINATOR

NOTICE OF PUBLIC MEETING

Notice is hereby given that the Council on Environmental Quality will convene a regular public meeting at 9:30 a.m. on Wednesday April 20th, 2011 is being held at the Weld House in Blydenburgh County Park, New Mill Road, Smithtown, New York 11788. Pursuant to the Citizens Public Participation Act, all citizens are invited to submit testimony, either orally or in writing at the meeting. Written comments can also be submitted prior to the meeting to the attention of:

Michael P. Mulé Council on Environmental Quality Suffolk County Planning Department P.O. Box 6100 Hauppauge, NY 11788

Council of Environmental Quality R. Lawrence Swanson, Chairperson

COUNTY OF SUFFOLK



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AGENDA

MEETING NOTIFICATION

Wednesday, April 20, 2011 9:30 a.m.
Blydenburgh County Park
Weld House
New Mill Road, Smithtown, New York

Call to Order:

Minutes: - check the web at http://www.co.suffolk.ny.us/departments/planning/minutes.aspx#ceq March Minutes available for review

Correspondence:

Public Portion:

Historic Trust Docket:

Director's Report: Updates on Housing Program for Historic Trust Sites Updates on Historic Trust Custodial Agreements Historic Trust Manual

Project Review:

Recommended TYPE II Actions:

- A. Ratification of Recommendations for Legislative Resolutions Laid on the Table March 22, 2011.
- B. Proposed Acquisition for Open Space Preservation Purposes Known as Beaverdam Creek County Wetlands Addition Brookhaven Vacant Land, LLC, in the Town of Brookhaven.

Other Business:

Suffolk County Stormwater Management Program Annual Report 2011 CEQ Term Limits Resolution

CAC Concerns:

*CAC MEMBERS: The above information has been forwarded to your local Legislators, Supervisors and DEC personnel. Please check with them prior to the meeting to see if they have any comments or concerns regarding these projects that they would like brought to the CEQ's attention.

**CEQ MEMBERS: PLEASE NOTIFY THIS OFFICE AS SOON AS POSSIBLE IF YOU WILL BE UNABLE TO ATTEND.

***FOLLOWING THE MEETING PLEASE LEAVE BEHIND ALL PROJECT MATERIAL THAT YOU DO NOT WANT OR NEED AS WE CAN RECYCLE THESE MATERIALS LATER ON.

SUFFOLK COUNTY COUNCIL ON ENVIRONMENTAL QUALITY MINUTES

DATE: April 20, 2011 TIME: 9:45 to 12:45

LOCATION: Blydenburgh County Park

Weld House, Smithtown, New York

PRESENT:

Larry Swanson, Chair; Gloria Russo, Vice-Chair; Vivian Viloria-Fisher; James Bagg; Eva Growney; Michael Kaufman; Mary Ann Spencer

ABSENT:

Thomas Gulbransen; Richard Machtay; Daniel Pichney

CAC REPARESENTATIVES:

None

STAFF:

Michael Mulé, Environmental Projects Coordinator Christine DeSalvo, Senior Clerk Typist

DEPARTMENTAL STAFF:

Richard Martin, Director, Historic Services

Suffolk County Department of Parks, Recreation & Conservation

Lauretta Fischer, Chief Environmental Analyst

Suffolk County Department of Planning

Erik Bergey, Senior Civil Engineer

Suffolk County Department of Environment and Energy

Dominick Ninivaggi, Superintendent, Division of Vector Control

Suffolk County Department of Public Works

Mary Dempsey, Biologist

Suffolk County Department of Environment and Energy

GUESTS:

Lance Reinheimer, Interim Director Suffolk County Vanderbilt Museum

MINUTES:

March 16th, 2011 minutes approved.

A motion was made by Ms. Russo

The motion was seconded by Mr. Bagg and passed unanimously.

Mr. Swanson thanked Allan Drost the caretaker of the Weld House for letting us use the room. He also thanked Richard Martin, Michael Mulé and Christine DeSalvo for their efforts in making the meeting come together at the Weld House. He also thanked the members of CEQ for their appearance at the Public Hearing that was held on April 12, 2011 for the DGEIS. He noted that it was the very well attended by staff; unfortunately it wasn't well attended by the public.

CORRESPONDENCE:

Mr. Swanson drew attention to a letter dated April 12, 2011 from Lance Reinheimer, Interim Director of the Suffolk County Vanderbilt Museum, indicating that the Vanderbilt Museum is considering using the Normandy Manor as a Design Show House. Would be explained and discussed under the Historic Trust section of the meeting.

Legislator Vivian Viloria-Fisher had a question for Dominick Ninivaggi regarding an email correspondence from Mr. Palmer regarding her understanding of the larvacide or adulticide and asked Dominick to address it when he made his presentation.

HISTORIC TRUST DOCKET:

Richard Martin, Director, Historic Services, Suffolk County Department of Parks, Recreation & Conservation updated the Council on the following:

The Office of Historic Services has two vacancies at West Hills. They had a rent reduction but there has been no interest. The county is planning to have a mailing regarding the vacancies but it hasn't been completed yet. These are also the only vacancies the county currently has.

Mr. Martin introduced Lance Reinheimer the Interim Director of the Suffolk County Vanderbilt Museum to discuss the plans and purpose of using the Normandy Manor as a Designer Show Home. Mr. Martin reminded the members that Deepwells was used twice as a Designer Show Home and Deepwells received a lot of repairs it needed and had visitation increase. Mr. Reinheimer discussed how they've spoken with Claudia Dowling, owner of Claudia Dowling Interiors regarding bringing in designers to show case the home and their work and how they can utilize Normandy Manor for fundraising purposes at a potential financial benefit to the county.

A motion was made by Mr. Kaufman to approve the use of the Normandy Manor as a Designer Show Home. The motion was seconded by Ms. Russo and passed unanimously.

PROJCET REVIEW:

1. Recommended Type I Actions

None

2. Recommended Type II Actions

Ratification of Recommendations for Legislative Resolutions Laid on the Table March 22, 2011

Mike Kaufman abstained on IR 1284.

A motion was made by Ms. Growney to accept the staff recommendations. The motion was seconded by Mr. Bagg and passed unanimously.

3. Recommended Unlisted Actions

Proposed Acquisition of Land for Open Space Preservation Purposes Known as the Beaverdam Creek County Wetlands Addition – Brookhaven Vacant Land, LLC Property, Town of Brookhaven

A presentation was given by Ms. Lauretta R. Fischer, Chief Environmental Analyst with the Suffolk County Department of Planning, concerning the acquisition of five (5) lots consisting of 1.2 acres total. We have significant holdings currently in this area.

A motion was made by Mr. Kaufman to classify the project as an Unlisted Action with a Negative Declaration. The motion was seconded by Ms. Russo and was passed unanimously.

OTHER BUSINESS:

<u>Suffolk County Stormwater Management Program Annual Report 2011:</u> A presentation was given by Emerson Hasbrouck regarding the Stormwater Management Program, see attached report.

<u>Vector Control, Integrated Marsh Management at Wertheim 2003-2010:</u> A presentation was given by Dominick Ninivaggi on Integrated Marsh Management at Wertheim, see attached.

A motion was made by Mr. Swanson to adjourn. The motion was seconded by Mr. Kaufman.





423 Griffing Avenue, Suite 100 Riverhead, New York 11901-3071 t. 631.727.7850 f. 631.727.7130

Public Education and Outreach

- 128 youth classes (3,111 children) and 6 civic association meetings (193adults) were conducted in 2010-2011 permit year.
- The stormwater website had 3,066 visitors. A new page on wetlands was added and the following links were added to the home page: Added a link to the Marine Moment on lawn care, added a link to the brochure for the Long Island Native Grass Symposium, and added information about the Long Island Native Grass Initiative Plant Sale prior to the plant sale.
- An additional 6,312 copies of the brochure "Where Does the Rain Go" were distributed to Suffolk County residents through mailings to Suffolk County libraries, legislator's offices, and municipal buildings. Brochures were also handed out at fairs/festivals. Both Spanish and English versions of the brochures were distributed.
- As part of an on-going green roof project, CCE staff assisted Cutchogue East Elementary School
 in adding additional plants to their green roof. 52 fifth grade students worked with their
 teacher and CCE to plant donated plants from a local nursery in metal 12 foot by 4 foot trays
 (192 square feet). This is the second year of the program. The teacher hopes to continue the
 program in the spring of 2011 and add more plants to current trays and add more trays to cover
 a larger portion of the roof.
- A new PSA was created and aired on WBAB. The PSA focused on lawn care and fertilizer use.

Public Participation and Involvement

- A rain garden project was completed at Sweetbriar Nature Center, near their education building.
 The public participated in the creation of the rain garden with help from Master Gardeners. The
 rain garden was completed in June and showcased at a festival at the nature center on June
 12th. CCE staff, as well as master gardeners, were available to answer questions about the rain
 garden.
- Curb marking was completed with Rock Point Middle Elementary School, 10 storm drains in their school parking lot were marked with markers.
- 112 adults and 220 children were directly interacted with at fairs/festivals.
- As part of the Peconic Estuary Program, a total of 10 beach clean-up events we're held. A total
 of 3,435 pounds of debris was collected by 146 volunteers. An additional 9 clean-up events
 were held at County Parks, with 441 volunteers.

Illicit Discharge Detection and Elimination

2 outfalls were monitored for dry weather flow, completing dry weather flow monitoring for all
 288 outfalls. Each outfall was visited 3 times to check for dry weather flow. Information such as

- flow volume, color, odor, floatables, deposits, turbidity, and vegetative growth were obtained at all dry weather flow outfalls.
- 55 outfalls with dry weather flow were tested for illicit discharges/connection. Water samples
 collected at these pipes were tested for salinity, pH, temperature, surfactants, nitrogen,
 turbidity, potassium, chlorine, and fecal coliforms.
- Stormwater conveyance system mapping for all 288 outfalls was completed. A total of 1711 conveyance structures (catch basins, culverts, leaching basins, man holes, swales, and sluiceways) and 1682 pipe connections were mapped and entered into GIS.
- Completed "storm sewershed" delineation using ArcGIS and ArcHydro. The NYSDEC defines a
 storm sewershed as "the catchment area that drains into the storm sewer system based on the
 surface topography in the area served by the storm sewer." In order to delineate the storm
 sewersheds, the subwatersheds were first delineated. A methodology has been developed and
 implemented to delineate subwatersheds and storm sewersheds. All storm sewersheds where a
 stormwater outfall pipe exists have been delineated.

Construction/Post-Construction Site Runoff Control

- 4 Erosion and Sediment Control Training Workshops were given; 30 County employees and 166 contractors were trained.
- SC DPW invests extensive resources in implementing a stormwater remediation program. As of the end of the reporting period, 54 projects were completed (since the remediation program began); 24 projects were funded and in the design phase; 3 projects are currently being constructed; and approximately 16 additional projects are planned for future funding.
- Multiple draft documents were developed to incorporate enforceable mechanisms for
 construction runoff requirements and post-construction runoff control from new development
 and re-development projects. The three documents created included a directive to DPW
 Engineers, a letter to contractors, and language to be included with DPW Project Manuals and
 Request for Proposals.

Pollution Prevention/Good Housekeeping

- County maintained roads, bridges, and parking lots were swept according to the annual rotating shift schedule. Approximately 1,500 miles of road was swept and 3,000 cubic yards of debris was removed.
- 2140 catch basins were inspected and cleaned, approximately 1875 cubic yards of debris was removed from these structures.
- CCE assisted County Parks in developing a draft local law to prohibit feeding of waterfowl and pet waste on County property. The draft law was reviewed by CCE and sent back to Parks for submission and approval by the County legislature.
- CCE worked with Suffolk County Soil and Water Conservation District to organize a Goose
 Management Committee tasked with managing goose populations on County property.
 Relevant County employees were invited to participate in the committee with CCE and Soil and
 Water leading the effort. The committee reviewed the draft local law to prohibit feeding of
 waterfowl and pet waste on County property. Meetings were also set up with each committee
 member to discuss and map out municipal properties where geese are a problem (waste,
 aggressiveness, nesting near public buildings). Egg oiling has begun on 7 County properties.



Integrated Marsh Management (IMM) at Wertheim 2003-2010

Dominick Ninivaggi, Thomas Iwanejko, Ilia Rochlin and Mary Dempsey

Is the Wertheim Project "Working"

- · Were mosquitoes controlled?
- · Was invasive Phragmites controlled?
- Was native high marsh vegetation protected and enhanced?
- Did the project provide improved habitat for native high marsh and estuarine fishes?
- Did bird use, as an indicator of wildlife habitat, improve?

OMWM vs. IMM

- OMWM: Open Marsh Water Management Biological/physical control of mosquitoes using techniques more compatible with resource values than ditching.
- IMM: Integrated Marsh Management Designed for multiple benefits and resources, such as wildlife use and invasive control. May include OMWM techniques where mosquitoes are a concern.

Design, documentation and permits are a big part of the process

- USFWS
- DU
- NYSDEC
- Corps of Engineers
- NYSDOS
- National Marine Fisheries Service



The Wertheim NWR Demonstration Project

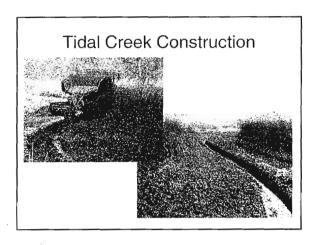
- Proof of concept for IMM techniques in Suffolk's microtidal environment
- Rehabilitating ditched marshes is a USFWS concern, along with reducing pesticide use
- · Assess benefits, impacts.
- · Develop technical capabilities in design
- · Develop permitting capabilities
- · Develop construction skills, techniques
- Demonstrate cooperative design with a USFWS for multiple objectives; mosquitoes. migratory birds, other resources

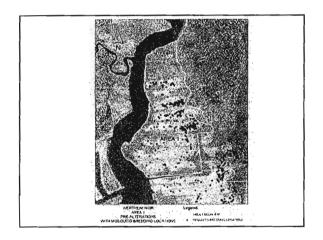
Major Features of the Project

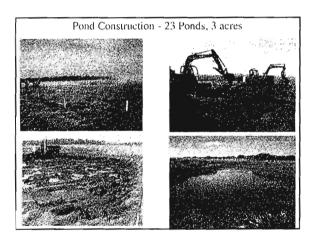
- · Tidal Creeks
 - Ponds
- · Filling Select Ditches
- · Back-blading and smoothing material

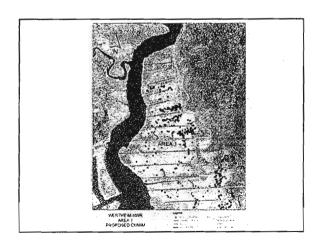
Design Concepts

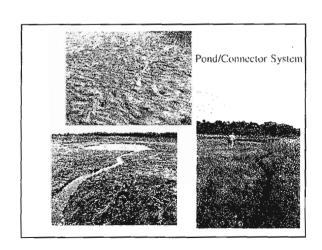
- Restore habitat by replacing grid ditches with features designed to emulate natural tidal creeks and shallow ponds
- Achieve mosquito control by placing new open water features among mapped larval habitats
- "Back channel" in Area 1 to cut off Phragmites from fresh water input







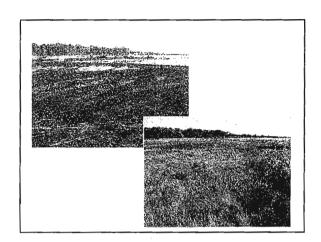




Filling of Select Ditches



- Material removed from pond construction used to fill select ditches
- Transported by 2 dump bodies
- 5293 Feet of Ditches filled; 19 of 22



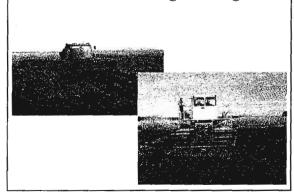
A Filled Ditch

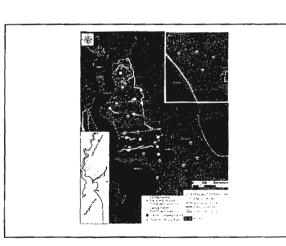


BACI Design

- Before–After–Control-Impact statistical design. Similar to USFWS and other impact studies
- 4 Areas: 1&2 managed, 3&4, reference
- Transect, geostatistical or fixed station sampling, depending on the parameter measured.

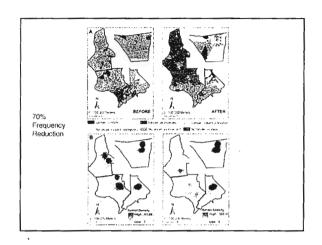
Final Smoothing/Blading





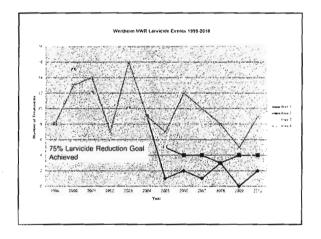
Key Measures of Success

- Many parameters were measured at Wertheim, based on USFWS and NYDEC guidance
- Mosquito larvae, vegetation response, nekton and birds could be analyzed statistically and showed significance.



Suffolk County improved upon previous studies of wetlands projects. So far at Wertheim, we have 2-3 seasons pre-manipulation monitoring, and 4-5 seasons on-going post-project monitoring.

- · Mosquito larvae/applications
- Vegetation
- · Nekton finfish and crustaceans
- Birds

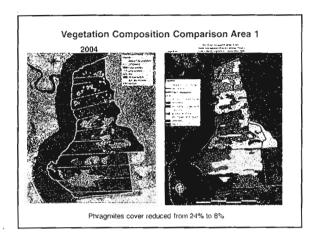


Mosquito Larvae

- Larvae are hard to sample patchy, variable distribution, subject to bias
- Larvae/dip is particularly difficult to evaluate statistically.
- Frequency of breeding is is of great interest, robust and objective
- Area of marsh with larvae is also robust and of great interest. Can be mapped with GPS/GIS for geostatistical analysis.

Vegetation

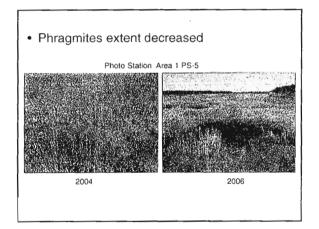
- Major vegetation classes were mapped using aerial photography and ground GPS
- · Phragmites was of particular concern
- Biomass, species and other factors were measured on transects
- Mapping and photography contain most of the relevant information and are robust and easy to comprehend



Surface Water Area

Area	Pre-project (acres)	Post-project (acres)
1	0.6	1.6
	1.6%	3.9%
2	0.9	1.8
	1.9%	3.8%

NE US unditched marshes mean ~ 10%

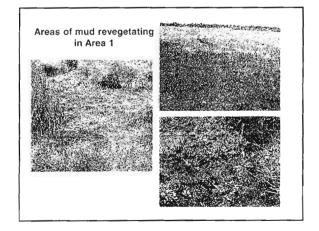


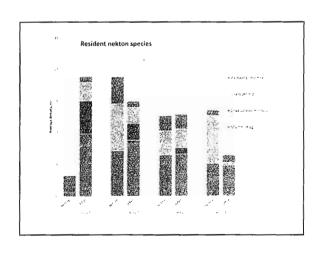
Nekton in ponds and channels

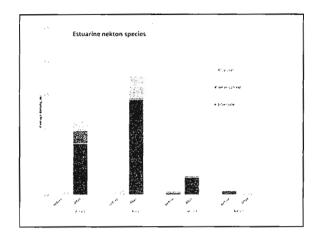
- Mummichogs
- Rainwater killifish
- Sheepshead minnow
- Atlantic silversides
- American Eel
- Grass shrimp
- Blue crab

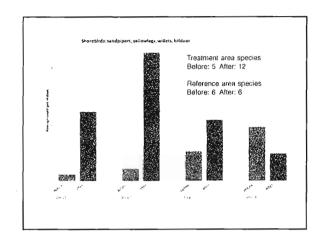


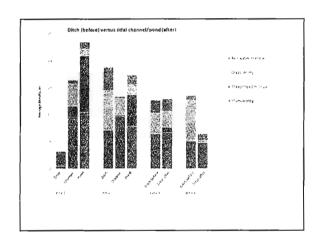


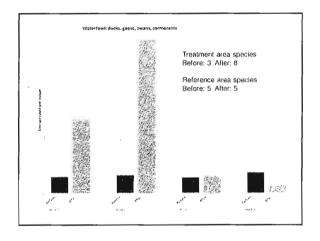


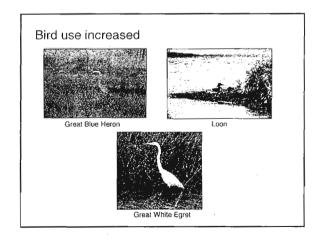










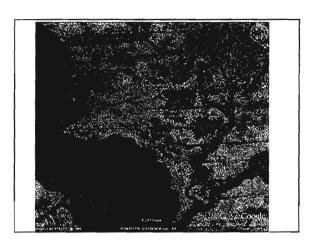


Conclusions

- · Mosquito goals were achieved
- Phragmites was reduced in Area 1, as planned, and replaced by native HM vegetation
- Vegetation in Area 2 was already reasonably intact, and was not significantly changed
- The restored marshes support healthy populations of typical marsh and estuarine fish and crustaceans
- Replacing ditches with tidal channels and ponds resulted in desirable nekton changes
- The restored marshes support larger and more diverse bird communities as a result of the planned changes to the habitat

Management Lessons

- The design process resulted in a viable plan that was implemented with the type of staffing and equipment available
- The changes to the marsh vegetation unfolded largely as planned
- Marine species responded as intended, as a result of replacing ditches with channels and ponds
- Bird populations responded positively to the provision of habitats designed specifically to attract them
- · IMM is a viable option for Suffolk salt marshes



Future Plans

- Continue monitoring until at least 2014 with annual reports
- Presentation of results at New England Estuarine Research Society meeting, May
 7 in Port Jefferson
- Manuscript in preparation for peerreviewed publication in collaboration with URI and USFWS

Rehabilitating a Wetland – So Easy, A Cave Man Can Do it

But only along with:

•SC Dept. of Health

SC Dept. of Environment and

•USFWS

•NYDEC

•DU

•Cashin Associates

•The crack team of modern humans at Suffolk County Vector Control



