



Town of

Orleans
Massachusetts

Orleans Water Quality Advisory Panel

Water Quality and Wastewater Planning

Program Status Update

June 15, 2016

Agenda

1. Approval of Meeting Summary of April 20, 2016
 2. Consensus Agreement: Discussion and Approval
 3. Tri-Town Septage Facility Decommissioning and Demolition Update
 4. Status of Public-Private Partnership Options Evaluations
 5. Financial Planning Update
 6. NT Technology Demonstration Project Update
- Break
7. Monitoring and Modeling Plan (AMP) Update
 8. Amended CWMP Document: Review and Submission Plans
 9. Public Information Activities
 10. Other Items
 11. Public Comment



Consensus Agreement

❖ Purpose & Approach

- Addendum
- FY 2016 Work Summary and FY 2017 Objectives

❖ Comments & Suggestions Received

❖ Discussion & Agreement



Tri-Town Septage Facility Decommissioning and Demolition Update

❖ Tri-Town District IMA and Permit expire on December 31, 2016

❖ Septage Receipts Ceased on June 1, 2016

❖ Agreement Executed with AECOM on 06/08/16

- Develop Decommissioning Plan – Workshop to be held on 06/13/16
- Prepare Contract Documents for Demolition

❖ Schedule

- Decommissioning – June 2016 thru August 2016
- Contract Documents – June 2016 thru November 2016
- Bidding – November 2016 thru February 2017
- Town Meeting Appropriations (Brewster, Eastham & Orleans) – May 2017
- Demolition – September 2017 thru February 2018



Public-Private Partnership Options Evaluations

- ❖ Working with proponent of near-term large scale Downtown development to move project forward
- ❖ Consider needs/options of a range business and residential owners
- ❖ Engaging Selectmen, business community, Planning Board, FinCom, Health Department, Selectmen, engineering team
- ❖ Addressing zoning needs, issues and opportunities
- ❖ Engaging outside privatization consultant to identify, define and evaluate potential ownership, management, operational, financing, permitting, phasing, residential development and other issues
- ❖ Develop allocations of capital and operating costs to downtown properties based on value of centralized system, water usage.
- ❖ Timeframe: Recommend best option in late August



Financial Plan Update

- ❖ Producing best “reasonably optimistic” scenario – outlining assumptions and priorities
- ❖ Testing various options for new or increased non-resident fees
- ❖ Completing “affordability” study based on EPA, state and local metrics and benchmarks
- ❖ Evaluating P3 financial options in conjunction with P3 study
- ❖ Assessing costs by “water usage” and “value” to business and residential owners



NT Technology Demonstration Project Update: Shellfish/Aquaculture

Lonnies Pond Demo Project

- ❖ **Working Group Mtgs.** June 3
Next Meeting – June 21 - 10:30 AM
- ❖ **Build-a-Bag** - June 3 and 17
- ❖ **Oyster Seed** - Falmouth bid-opening - June 13
- ❖ **Friends of Lonnies** Annual Meeting - June 17 (location TBD)
- ❖ **SMAST** field work
- ❖ **RDA Hearing** – June 21, 9:00 AM at Conservation Commission
- ❖ **Oyster Bag installation** – June 22

Phase 2

- ❖ **Quanset Pond** – Design of Oyster Bed Project
- ❖ **Town Cove** - Quahog Population Inventory in Preparation for Quahog Propagation Project
- ❖ **Working with Existing Growers** to Expand Grant Operations, including in Town Cove



NT Technology Demonstration Project Update (cont.) Permeable Reactive Barriers (PRB)

Eldredge Park

Update Preliminary Engineering Work Plan into Final Details/Design

- ❖ Underground Injection Control Permit and MassDEP Review
- ❖ Mark out Monitoring Well and Injection Point Locations
- ❖ Install Monitoring Wells and Collect Baseline Groundwater Samples
- ❖ Application of Food-grade Carbon Substrate through Direct-push Tooling
- ❖ Groundwater Sampling for Performance Monitoring

Town Landfill (Town Cove)

Update Preliminary Engineering Work Plan into Final Details/Design

- ❖ Underground Injection Control Permit and MassDEP Review
- ❖ **Design occurs Summer 2016**



NT Technology Demonstration Project Update Floating Contracted Wetlands (FCW)

- ❖ Investigate FCW capital and operating costs and performance effectiveness in more detail based on operating projects
- ❖ Evaluate Emerging I/A and Other NT Alternatives to FCWs
- ❖ Recommend Additional NT Demonstration Project

The header of a presentation slide for the Town of Orleans, Massachusetts. It features the town's seal on the left and the text "Town of Orleans Massachusetts" on the right. The background is a gradient of blue and green.

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Break

Monitoring and Modeling Plan (AMP) Update

❖ **SMAST Scope of Work / Priorities and Schedule**

❖ **Water Quality Monitoring for MEP Compliance**

- Ongoing coordination with SMAST and other WQ monitoring programs
- Planning data base integration and management

❖ **Water Quality Monitoring for NT Project Baselines**

- SMAST technical and monitoring support for Lonnie's Pond demo project
- Developing scope, budget for Quanset Pond demonstration project
- Nauset Estuary – support of increased monitoring program
- MEP compliance and MEP model recalibration – Nauset and Pleasant Bay data gap analyses (in conjunction with PBA)

❖ **Ponds**

- Working with SMAST to review and integrate new water quality data
- Developing scope, schedule and budget for Ponds Management Plan for Fall Town Meeting approval



Amended CWMP Document: Review and Submission Plans

❖ **Supplement to Existing CWMP**

- Description of Current Plan and Changes from Original CWMP
- Summary of Financial Plan and Public-Private Partnership Evaluation
- Schedule for Implementation
- Regulatory Requirements
- Summary of Technical Memorandums
- Technical Memorandums in Appendix

❖ **Schedule for ACWMP**

- Submit Draft to Town - End of June
- Submit Draft to Regulatory Agencies – End of September
- Submit Final to Town/Regulatory Agencies – End of December

❖ **208 Submission Requirement: Orleans has met submission requirements to Cape Cod Commission for 208 Plan submittal to EPA**



Public Information Activities

❖ OWQAP Meeting Summaries

- Summer OWQAP Workshops - Town Hall at 19 School Road
 - July 13, 2016, 9:00 am to Noon
 - August 10, 2016, 9:00 am to Noon
 - September 14, 2016, 9:00 am to Noon

❖ Public Information activities

❖ Demonstration projects

❖ FY 2017 Remaining Funding Approval

- November 2016 to June 2017 – Fall 2016 Special Town Meeting

❖ Other activities needed?



Other Items and Public Comment

❖ Public Comments and Questions





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Thank You