EBC Program Series with MassDEP Leadership:
Update from Commissioner Suuberg and the Southeast Regional Leadership Team
Welcome

Daniel K. Moon

*Executive Director & President*

*Environmental Business Council of New England*
Keynote

Martin Suuberg

Commissioner

Department of Environmental Protection

Commonwealth of Massachusetts
Commissioner's Overview - 10/3/17

- MassDEP Generally
  - FY 18
- Climate
  - “3(d)” Rules
  - RGGI
  - Going Forward
- NPDES
  - Delegation
  - MS4
Commissioner’s Overview

• Lead in Drinking Water
  • FY 17 and FY 18 Schools Initiative

• IT Improvements – EIPAS!!!
  • Some permits on line; data sharing portal
  • More to follow
Commissioner’s Overview

- Outreach
  - Ombudsman
- Municipal Partnerships
- MS4 – Stormwater Coalitions
- Urban Compliance Initiatives
- Better Use of Technology/Web
- An Open Invitation
Update from MassDEP Southeast Leadership Team

- Millie Garcia-Serrano, Regional Director
- Maria Pinaud, Bureau of Air and Waste
- Gerard Martin, Bureau of Waste Site Cleanup
- David Johnston, Bureau of Water Resources
- Jennifer Viveiros, Bureau of Administrative Services
A Day in the Life of the SERO Regional Director

CLIMATE

ENERGY

ENVIRONMENT

ACCESSIBILITY

Millie Garcia-Serrano, MPH
millie.garcia-serrano@state.ma.us
508.946.2727
MEPA Filings: 102
Permit Applications: 405
Permit Decisions: 337
Pre-Permitting Meetings: 46
Inspections: 1324
Penalty Dollars: $289,558

MEPA Filings: 86
Permit Applications: 426
Permit Decisions: 355
Pre-Permitting Meetings: 49
Inspections: 1666
Penalty Dollars: $292,684

Notices of Intent
SERO: 2384
NERO: 1570
CERO: 1091
WERO: 403

SERO Service Delivery “by the Numbers”

FY 16 ▲ FY 17
• **Extreme Weather Preparedness**
  - **Winter Storm & Hurricane Season Preparedness Planning**
    - BWSC: Update & Circulate Plan & COOP; Assets Check; 24/7 Event Support
    - BWR: Contact Water & Wastewater Facilities; Circulate Emergency Wetlands Regs; Snow Disposal; Contact ConsComms / BOH
    - BAW: Update SW/Debris Management Plan
  - **MassDEP Water Utility Resilience through Mapping Initiative**

• **ER Training & Response (FY17)**
  - HAZWOPER Technician - Refresher
  - Asbestos Inspector – Refresher
  - FEMA ICS 100, 200, 300, 700
  - Geographic Response Plan (GRP) Exercises
  - Computer-Aided Management of Emergency Operations (CAMEO)
  - Radiological Nuclear Detection Primary Screening
  - Emergency Operations Center Management and Operations
  - Qualified Individual (QI)
  - 125 Responses in FY17 (2/72-hr notifications)

• **Disaster Relief**
  **State / Region-Wide**
  - Shoreline Damage Surveys in Coordination with MEMA and CZM
  - MA State Emergency Operations Center
  **Nation-Wide**
  - **Emergency Management Assistance Compact (EMAC)**
    - Hurricane Irma support in FL from 2 DEP Responders
  - FEMA Ready Reservist
    - Public assistance, damage assessment, debris management
ENERGY: Electric Vehicles – Anaerobic Digesters – Solars on Landfills

- **Most Energy Efficient State in the Nation (7 years)**
  - Clean energy development + Energy Efficiency = Lower Ratepayer Cost and Lower Greenhouse Gas Emissions
- **MassEVIP - Earth Fest EV Showcase (04/17)**
- **CommonWealth New Bedford Energy LLC, Dartmouth**
  - Landfill Gas to Energy, Electric Power Generation Facility
  - Success Story with Future AD Operation Expansion Plans
- **Stop & Shop Supermarket Company LLC, Freetown**
  - Grocer’s first AD at distribution center
  - Unsold food directed to AD (not landfill)
  - Organic material converted into a biogas and used as a power source
- **Republic-Soltage Solar Energy Projects**
  - 41,000 solar panels in Plainville, Randolph & E. Bridgewater
  - State/Private Partnership = Clean/Low Cost Electricity for Local Community
ENIRONMENT: SERO 2017 – YEAR IN REVIEW

- “Staff First”: SERO Superstars & Employee of the Year Recognitions
- First-in the Region “Soils ACO” Executed
- Lead in Schools DW Project Support
- Lead Service Line Outreach to Water Suppliers
- SERO Staff Presentation at U.S. EPA National Brownfields Conference, Detroit MI
- DW Public Notice Training Program, Carver
- SERO AQ staff EIPAS permitting app testing
- Wastewater Reuse & Food Rescue – Reuse via Pre-Permitting, Gillette Stadium, Foxborough
- WS Emergency Declaration Support
- Compliance Strategy for Fishing Vessels, New Bedford
- Municipal Health Officers Assoc. Seminars, Hyannis
- Successful MassGIS /Wetchange Data layer C&E
- 3 SERO Brownfield Grant Recipients (total $1.5M)
- 208 Consistent Watershed Permitting Pilot Effort
Pre-Permitting (All Bureaus)
- “One-Stop-Shopping” process for large, complex projects
- **Plymouth Water Street Promenade**
  - Addresses inadequate/deteriorating pedestrian facilities
  - Incorporates climate change adaptation elements
- **Partnership**
  - Scientific, Technical and Educational
    - MassDEP/City of Taunton Urban Compliance Initiative (Phase II)
- **Innovation in Enforcement Settlement**
  - **Shoestring Bay/Mashpee Neck Marina, Mashpee**
    - C.91 Enforcement Action Resulted in Significant Public Benefit via Public Access Projects
    - Kayak/Dinghy Racks for Public Use
    - ADA Compliant Mobi-Chair, Mat & Pathway
    - Stairs Repair
A Lovely Day for a football game GO PATS!

**Abington, Rockland, Weymouth**
- BWSC-BWR-BAW
- Smart Growth Development

**Foxborough**
- BWR-BAW
- Water Reuse Conservation
- Food Rescue & Redirection

**Assonet**
- BAW
- Organics Waste Ban
- Energy Production

**Statewide**
- BWSC
- Emergency Response contractor
Efficient Project Permitting: Effluent Reuse

- Conceptualize Project & Organize Project Team
- Contact MassDEP Boston or Regional Office
- Pre-permitting meeting
- Identify MassDEP Permits & flag challenge areas
- Consider MEPA Thresholds & other permits
- Consider Alternative Schedule Project
Coastal Erosion

- Sea Level Rise & Increased Storm Intensity
- Impacts of Coastal Development
- Coastal Bank Function
- Pre/Post 1978 Development
- Hard Armoring
- Soft Solutions, Nourishment and Retreat

Wellfleet – Sand-filled Coir Envelopes

Passive Erosion
Blue-Green Algae: East & West Monponsett Pond

- Cyanobacteria
- Cyanotoxins
- Bloom Causality
- Impact Response
- Total Maximum Daily Loads (TMDLs)
• Consistently formatted critical infrastructure maps of Water and Wastewater Assets

• Current mapping varies widely from hand drawings and blue-prints, to fully engineered GIS and CAD maps

• For emergency response & recovery, permitting, troubleshooting and resiliency planning

• Collaboration with local partners, MassDEP funded “Water Utility Resilience Program” (WURP)

• Data security coordination with the Commonwealth Fusion Center and the Department of Homeland Security (DHS)

• To Date, 49 utilities in 32 Communities completed

• E.g., Somerset Sewer: 30 miles of pipe, pump stations, cleanouts and 2,345 manholes
A Day in the Life of the SERO BWSC DRD

Gerard Martin
508-946-2799
gerard.martin@state.ma.us
Warehouse Fire, Brockton

- BWSC ER responds to warehouse fires to:
  - address chemicals stored in/at the facility
  - monitor air
  - oversee management of water runoff
  - address potential asbestos issues

- Works with fire department, state Hazmat Team, BOH and Con-Com

- Works with property owner or EPA to dispose of debris
Brownfields Redevelopment

- Source property cleanup resulted in redevelopment
  - Plymouth Redevelopment Authority
- Cleanup continuing on adjacent town property
  - Tidal marsh filled with zinc waste in 1890s
  - Engineered barrier along the shoreline
  - Town of Plymouth, EPA, ACOE, CZM, Mass and US Marine Fisheries and MassDEP BWSC SERO and ORS
Former Fireworks Site, Hanover

- BWSC Site Management working collaboratively with PRP Group, UXO consultant, AGO, DOD and DOJ
- Geophysical Investigation and removal/disposal of military ordinance at former test range
- Soil, groundwater and sediment contaminated with VOCs and metals (particularly mercury)
Soil Reclamation Project

- COM-15-01 ACO executed 1 October 2016
- Reclaiming 60 acres of 105-acre gravel pit with 2 million cy of soil over 3 to 5 years
- End use: Sustainable mixed-use transit oriented district village
7:00 PM

New Bedford Riverwalk

• EPA places NB Upper Harbor on NPL (1982)

• Trustee Council established (1991) to administer NB Harbor settlement and restore injured resources
  – Reconnect residents with the water resource
  – Create a welcoming vista or “gateway” to the Upper Harbor
  – Restore, revitalize and reclaim the Upper Harbor in an EJ community
A Day in the Life of the SERO BAW DRD

Maria Pinaud
508-946-2764
maria.pinaud@state.ma.us
• Added capacity permitted through construction of solar arrays on the flat plateau as well as the steeper 3:1 side slopes

• Requires added engineering for side slope stability design analysis

• Need to consider improved drainage capacity to ensure stability of the final cover system for older landfill closures

• May be more costly to construct
• Seek early pre-application consultation
• More detail = Improved Process
• Submit complete application & ensure timely payment of fees to avoid delays
• Equipment should not be purchased or installed before all permits are obtained
• Frequent communication = Better outcome
Compliance at a glance
A Day in the Life of the SERO BAS DRD

[Image of a clock with arrows pointing to different times]

Jennifer Viveiros
508-946-2739
jennifer.viveiros@state.ma.us
Taunton Urban Initiative - Building on Municipal Partnerships

Environmental Justice Populations - City of Taunton

Legend:
- Mass/Stage Route
- Administrative Type
- Environmental Justice Populations
  - Racial and Ethnic Population
  - Income and Education
  - Income and Education
  - Income and Education
  - Income and Education

MassDEP
Completed/ On-going Tasks

- Preventing Releases to the Environment at Fueling Stations
- Increasing capacity at the City’s Wastewater Treatment Plant
- Using GIS data to find wetlands change
Next Steps

Commercial Organics Waste Ban Technical Assistance

Environmental Education
Thank you for spending a day with the MassDEP SERO Team!
Moderated Discussion

Moderator:
• John Shea, Shareholder, Mackie Shea PC

Keynote Speaker:
• Martin Suuberg, Commissioner, MassDEP
EBC Program Series with MassDEP Leadership:
Update from Commissioner Suuberg and the Southeast Regional Leadership Team