



NJDEP Regulatory Perspective on the Harbor Deepening Project/ Beneficial Use of Dredged Material

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What was the NJ/NY Harbor Crisis?

- August 1997, the US EPA Region 2 promulgated a final rule which closed the Mud Dump Site
- Re-designated as the Historic Area Remediation Site” to be remediated with Category 1 material.

2-3 Million Cubic Yards of Dredged Material
No Longer had a disposal location.

State of New Jersey Response

- 1996 Joint Dredging Plan for NJ and NY
- 1996 Dredging and Harbor Re-vitalization Bond Act

Together this provided for over \$265 Million for dredging projects and dredged material management research

State of New Jersey Response

- 1998 - \$18.2 million contract to evaluate the beneficial use of dredged material using a process referred to “Solidification and Stabilization” S/S.
- NJDOT, Office of Maritime Resources – Sediment Decontamination Technology Demonstration Program
- 1999, 2008 –NY/NJ Harbor DMMP Published by NY District – NJDEP/NJDOT strong involvement in steering the DMMP toward upland beneficial use of dredged material

NJDEP Regulatory Changes to Promote Beneficial Use of Dredged Material in the Harbor Complex

- Dredged material deregulated as a solid waste – Acceptable Use Determination Process (AUD) vs. BUD
- NJDEP Dredging Technical Manual - Published in 1989
- Created NJDEP, Office of Dredging and Sediment Technology
- Developed uniform sampling protocol for upland placement of dredged material in both New Jersey and New York

NJDEP Regulatory Changes to Promote Beneficial Use of Dredged Material in the Harbor Complex

- Risk Assessment on upland placement of dredged material – OENJ Elizabeth Fill Protocol
 - *Then* – NJDEP implements “Alternative Fill Protocol” for contaminated sites/landfill closures
 - *Final Outcome 2015*– NJDEP Site Remediation Program’s “Fill Material Guidance for SRP Sites” – the **Like on Like Policy** for SRP Site
http://www.nj.gov/dep/srp/guidance/srra/fill_protocol.pdf?version_3_0

Pugmill Processing Facility



- Two currently operating in the Harbor
- 3000 cy throughput daily
- 500,000 cy per year
- Rail and/or truck transport to end use site



In - Barge Processing Facility



- One facility operational
- 6000 K + throughput daily
- 500,000 cy per year
- Barge or truck transport to end use site



Example of final product from processing facility

Beneficial Uses of Processed Dredged Material

- Mine Reclamation
- Brownfield Remediation Projects
- Landfill Closure/Redevelopment





Bark Camp Mine Reclamation Project



- 500,00 cy of PDM
- Pre-processing in NJ and then final addition of additives at mine site



OENJ Elizabeth

- Accepted 800K of PDM
- Used as grading material and low permeability cap – landfill closure
- End Use: Jerseys Garden Mall



Bayonne Golf Club



- Accepted 2 MCY of PDM
- Used as grading material and low permeability cap in remediation of two sites
- End Use: Golf course

Prologis Port Reading Business Park



- 130,000 cy as grading material and low permeability cap in remediation of three brownfield remediation sites
- End Use: Warehouses (1 million square feet)

Burlington Neck LLC Site



- 280,000 cy of PDM placed as grading material and cap material
- End Use: Warehouse (1.6 million sq. ft.)

Brownfield Sites

- Koppers Seaboard Site - 1 MCY +
- Port Liberte Golf Course - 200K
- FDP Enterprises - 420K
- Elizabeth Seaport Park - 260K
- Sayreville Seaport Site - 500K +

Landfill Interim/Final Closure



- Meadowlands Landfills - 2+ MCY
- Linden Landfill - 500K
- Bellmawr Landfills - 500K+
- Fresh Kills Landfill - 1 MCY

How Did We Move That Much Mud?

- NY/NJ Harbor Dredge Material Management **Team** – Monthly Meetings
- Promote Beneficial Use With Developers
- Relationships with local government/NGOs where sites are proposed
- Ongoing involvement during construction
- Dredged material versus “Spoil”

Questions?

