

OVERVIEW APRIL 2014 RESTORATION ADVISORY BOARD (RAB)

NWIRP BETHPAGE LONG ISLAND, NEW YORK

04/09/2014

Facility Background



1940s - Naval Weapons Industrial Reserve Plant (NWIRP) Bethpage

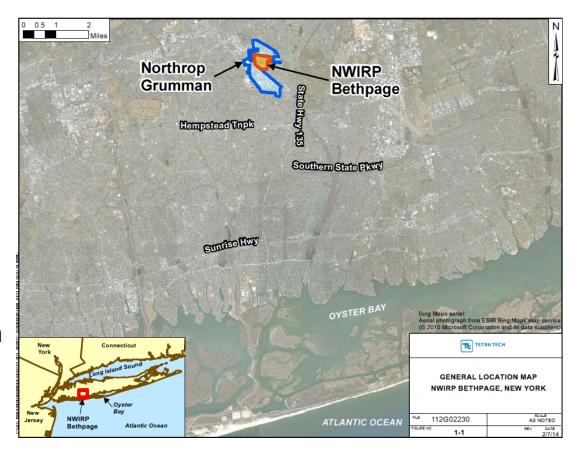
- -established to build Navy aircraft (originally 109 acres)
- –government-owned contractoroperated (GOCO) facility

Northrop Grumman (NG)

- -operated the NWIRP as contractor;
- -also owned and operated its own facility adjacent to NWIRP (500 +/-acres)

· 1998

- NG terminated activities
- -NWIRP property owned by Navy



Facility Background (continued)



Property Transfer/Description:

- 1998 Special Legislation enacted to transfer facility to Nassau County for economic redevelopment
 - Prior to transfer Environmental cleanup conducted as needed by Naval Facilities Engineering Command (NAVFAC) Mid-Atlantic under the Environmental Restoration (ER) Program

• Feb 2008

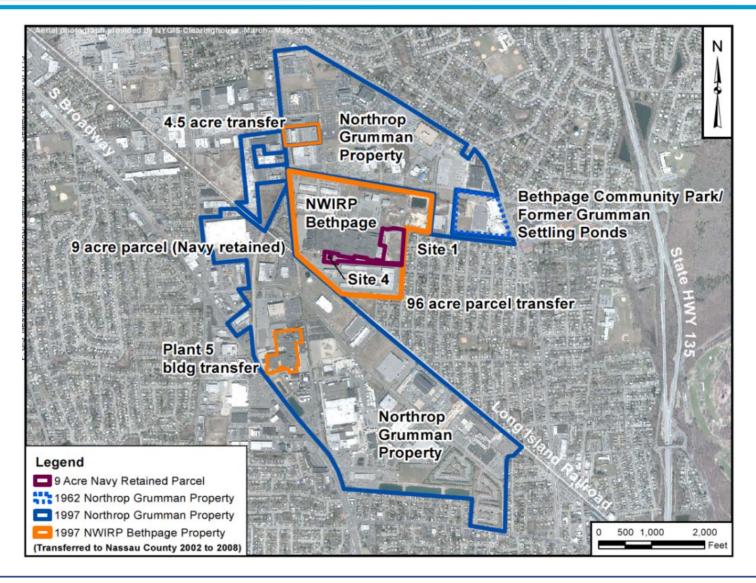
- -transfer complete to Nassau County for most of the facility (100 acres)
- –9 acres retained by Navy for environmental cleanup (ER Sites 1 and 4)

Current Navy property

- -500-foot boundary with a residential neighborhood along the east
- -Remainder mostly bounded by Nassau County and Steel-Los III, LP properties (both former Navy property).
- –Multiple businesses utilizing the Steel-Los III, LP property

Facility Background





Environmental Cleanup Program



Regulatory Compliance

- -Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) the legal mechanism for cleaning up abandoned or uncontrolled hazardous waste sites at DOD, Navy's Environmental Restoration (ER) Program
- -Resource Conservation and Recovery Act (RCRA) Corrective Action a statutorily required cleanup program, similar to CERCLA, that addresses solid waste management units and contaminated media as a condition of RCRA permits, NWIRP Bethpage has a RCRA Permit with NYSDEC
- -Title 6 of the New York Codes, Rules, and Regulations (NYCRR), Part 375 through the Applicable or Relevant and Appropriate Requirements (ARARs) process of CERCLA

The Navy is the lead federal agency for CERCLA

-the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 CFR Part 300, and Executive Order 12580, as amended by Executive Order 13016, for CERCLA response activities at Bethpage.

Environmental Cleanup Program



Regulator Involvement CERCLA Sites

- New York State Department of Environmental Conservation (NYSDEC) provides regulatory review of Navy actions with assistance from the New York State Department of Health (NYSDOH).
- **–USEPA** has had limited involvement since NWIRP Bethpage is not a federal National Priorities List (NPL) site.

Regulator Involvement RCRA Sites

 –NYSDEC is the lead regulatory agency in accordance with the requirements of the New York State RCRA Hazardous Waste Permit for the facility.

Investigation and Response



Soil and Shallow GW:

- –Onsite Response Actions conducted:
 - Sites 2 and 3 (2002)
 - Site 1 (VOC)-contaminated soil and shallow GW (2002)
 - Soil Vapor migration (2010)
- –Onsite Response Actions to be completed:
 - Site 1 Polychlorinated biphenyls (PCBs) soil,
 - Site 4 Former USTs contained No. 6 Fuel Oil



Site 1 – Former Drum Marshalling Area



Site 1 Issues:

- Site was used by Northrop Grumman for staging waste solvents, liquid plating wastes (metals), and autoclave (PCB fluid) wastes.
- PCB-contaminated soil original estimate: 1,400 cubic yards and less than 10 feet deep
- 1995 ROD (OU 1) identified excavation and offsite disposal
- Additional testing found PCBs to 65 feet deep
- Current volume estimate increased to 60,000 cubic yards

Path Forward:

- 2014 Remedial Investigation Addendum
- 2014 Feasibility Study Addendum
- 2016 OU1 ROD Amendment or new ROD
- 2017 Start of Remedy



04/09/14

Site 4 – Former UST Site



- Former location of underground storage tanks for No. 6 Fuel Oil (tar).
 - -Tanks were likely removed in the 1980s.
 - -Groundwater sampling found minimal or no impact.
 - Site boundaries are constrained by 20acre building, limits excavation
- In-situ bio pilot study attempted in 2004 to 2006, limited success
- Treatment options limited
- Navy is proceeding with a Proposed Plan in 2014



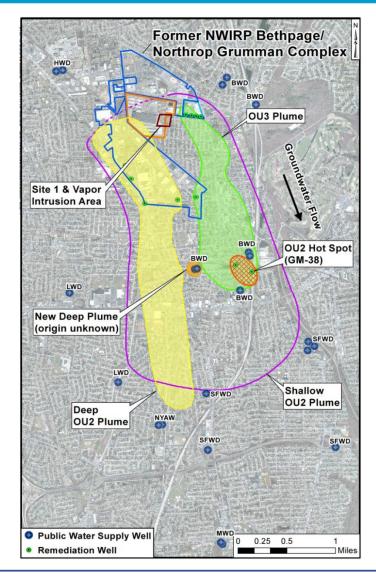


OU2 Groundwater Investigation



Groundwater contamination that originated on NWIRP property and co-mingled with contamination that originated on Northrop Grumman property, such that the source of the contamination cannot be identified.

- Shallow Plume
 - 30 to 300 feet deep; less than 10 parts per billion (ppb) of each contaminant
- GM-38 Hot Spot
 - 250 to 500 feet; 50 to 1,500 ppb
- Deep Eastern Plume, OU 3 groundwater
 - 50 to 600 feet: 50 to 10,000 ppb
- Deep Western Plume
 - 300 to 750 feet; 50 to 400 ppb
- BWD Plant 6 Plume, source uncertain
 - Screen interval 700 feet; 1,200 ppb



OU2 Groundwater ROD



2003 OU2 Groundwater ROD:

- -GM-38 Hot Spot treatment system
- -Public Water Supply Protection
- -Groundwater Monitoring

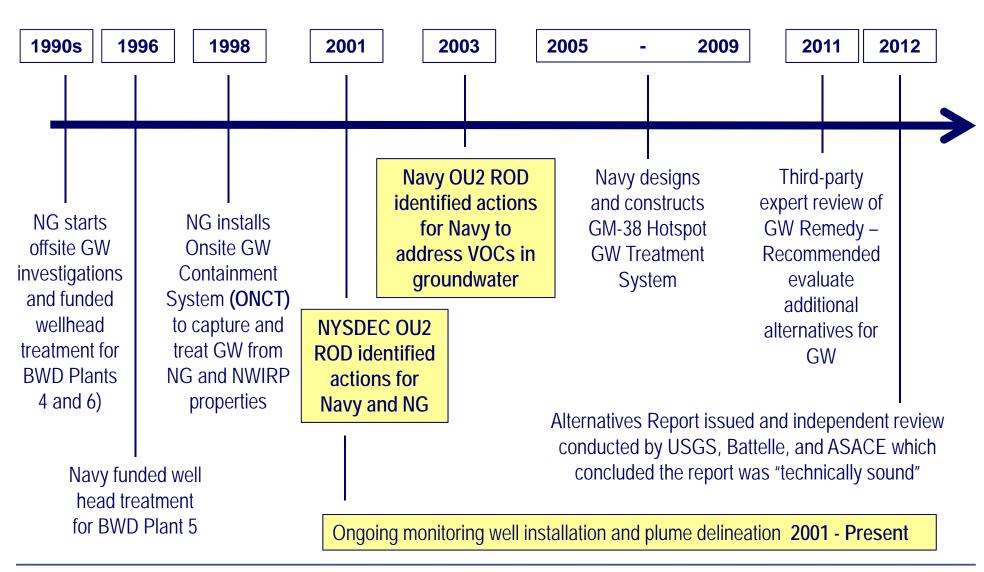






Groundwater Investigation Timeline

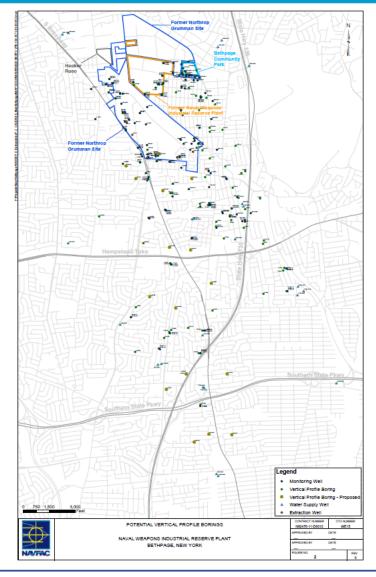




Groundwater



Groundwater remediation wells and public water supplies



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