Navy/Grumman Roundtable

Friday, May 4, 2018
10:00 am – 1:00 pm
Community Room, TOB Ice Skating Rink, Bethpage

Agenda

9:30 am	**Registration and Coffee**
10:00 am	**Review of Last Year's Roundtable and Status Update** Congressman Thomas R. Suozzi
10:20 am	**Welcoming Remarks** Joseph Saladino Town of Oyster Bay Supervisor Michael Boufis Superintendent – Bethpage Water District
10:30 am	**Context and Current Operations** Martin Brand Deputy Commissioner for Remediation, NYS DEC Richard Mach Director of Environmental Compliance & Restoration, US Navy Ed Hannon Director of Environmental, Health, Safety & Medical, Northrop Grumman
10:50 am	**Open Discussion - Status of Current Remediation Plans, Alternative Treatment Options and Strategies for Moving Forward/Next Steps** Facilitated by Congressman Thomas R. Suozzi
11:50 am	**Closing Remarks** Congressman Peter King Congressman Thomas R. Suozzi
12:00 pm	**Lunch**

Congressman Thomas R. Suozzi
Bethpage Plume Roundtable
May 4, 2018
Roundtable Attendees

Elected Officials

Congressman Thomas R. Suozzi – NY03
Congressman Peter King – NY02
Town of Oyster Bay Supervisor Joseph Saladino

NYS Department of Environmental Conservation (DEC)

Martin Brand, Deputy Commissioner for Remediation
Carrie Meek Gallagher, Region 1 Director
Karen Gomez, Regional Engineer
Jason Pelton, Engineering Geologist
Don Hesler, Section Chief

US Navy

Richard Mach, Director of Environmental Compliance & Restoration Policy
Brian Murray, Project Manager
David Brayack, Tetra Tech (Contractor)

Northrop Grumman

Ed Hannon, Director of Environmental, Health, Safety & Medicine
Ben Abrams, Director of Legislative Affairs
Pat McMahon, Vice President of Supply Chain
Jill Palmer, Director of Legal Department
Vic Beck, Director of Communications
Mike Wolfert, Arcadis (Contractor)

US Environmental Protection Agency (EPA)

Doug Garbarini, Chief, NY Remediation Branch
Cecelia Echols, Community Involvement Coordinator
Chris Lyon, Chief of Staff to Regional Administrator
Lorenzo Thantu, Remedial Project Manager
Robert Alvey, Hydrologist – Region II

United States Geologic Survey (USGS)

Chris Schubert, Hydrologist

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Navy/Grumman Roundtable Attendees (cont'd)

Nassau County Department of Health
Dr. Lawrence Eisenstein, Commissioner
Don Irwin, Director of Environmental Health

Town of Oyster Bay
Richard Lenz, Commissioner – Department of Public Works
Matt Russo, Civil Engineer

Bethpage Water District
Michael Boufis, Superintendent
John Sullivan, Chairman
John Coumatos, Commissioner
Teri Black, Commissioner
Sal Greco, Retired Commissioner
Richard Humann, H2M architects + engineers (Contractor)

South Farmingdale Water District
Frank Koch, Superintendent
Ralph Atoria, Chairman
John Hirt, Treasurer
Len Constantinopoli, Business Manager

Massapequa Water District
Stan Carey, Superintendent
Joseph Tricarico, Commissioner
Thomas McCarthy, Commissioner

New York American Water Company
Moses Thompson, Vice President

Citizens Campaign for the Environment
Adrienne Esposito, Executive Director

Senator Chuck Schumer
Alyssa Meano, Aide

Congressman Tom Suozzi
Michael Florio, Chief of Staff
Cindy Roger, District Director
Conor Walsh, Legislative Assistant

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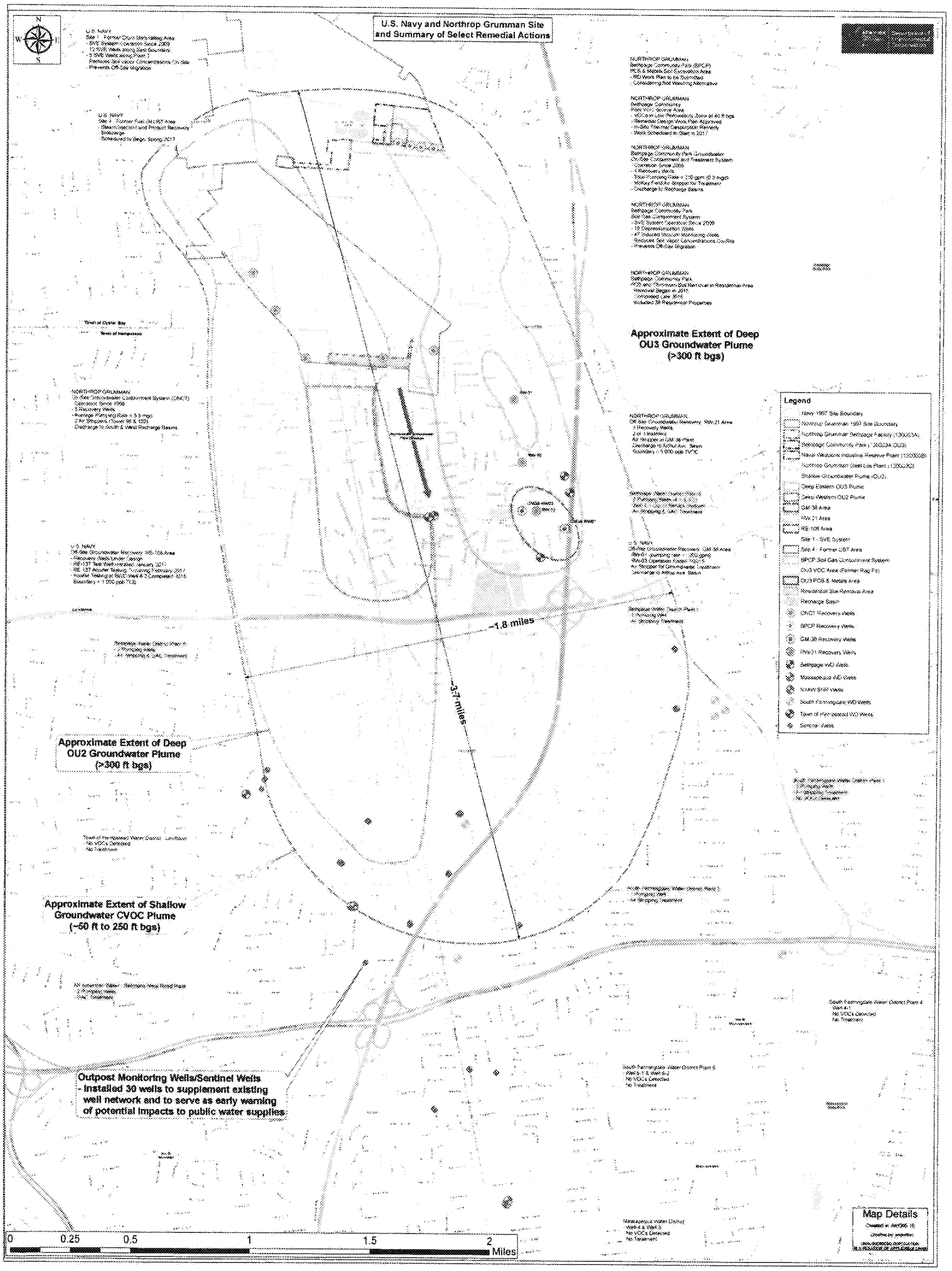
U.S. Navy and Northrop Grumman Site and Summary of Select Remedial Actions
Approximate Extent of Deep OU3 Groundwater Plume (>300 ft bgs)
Approximate Extent of Deep OU2 Groundwater Plume (>300 ft bgs)
Approximate Extent of Shallow Groundwater CVOC Plume (~50 ft to 250 ft bgs)
Outpost Monitoring Wells/Sentinel Wells - Installed 30 wells to supplement existing well network and to serve as early warning of potential impacts to public water supplies
~1.8 miles
~3.7 miles
Legend
Navy 1997 Site Boundary
Northrop Grumman 1997 Site Boundary
Northrop Grumman Bethpage Facility (120003A)
Bethpage Community Park (120003A-OU3)
Naval Weapons Industrial Reserve Plant (120003B)
Northrop Grumman Steel Los Plant (120003C)
Shallow Groundwater Plume (OU3)
Deep Eastern OU3 Plume
Deep Western OU2 Plume
GM-38 Area
RW-21 Area
RE-108 Area
Site 1 - SVE System
Site 4 - Former UST Area
BPCP Soil Gas Containment System
OU3 VOC Area (Former Rag Fs)
OU3 PCB & Metals Area
Residential Soil Removal Area
Recharge Basin
ONCT Recovery Wells
BPCP Recovery Wells
GM-38 Recovery Wells
RW-21 Recovery Wells
Bethpage WD Wells
Massapequa WD Wells
NYAW SNR Wells
South Farmingdale WD Wells
Town of Hempstead WD Wells
Sentinel Wells
Map Details
0 0.25 0.5 1 1.5 2 Miles

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2017 Action Item Updates

Agency	Action to be Taken	Current Status
DEC	**Phase II of the HDR Study** •DEC will complete Phase II of the HDR study which will take a more in-depth look at how to contain and clean up the groundwater contamination from the Navy/Grumman plume. •The study will build upon an August 2016 report and will involve water testing, field work and computer modeling. •It will look at salt water intrusion, recharging, treated water and other issues. The earlier study concluded that fully containing and removing the contamination could cost between $268 million and $578 million and would require treatment for up to 100 years.	•Work continues on the study, including Phase II, the feasibility study and subsequent record of decision. Estimated completion is late 2018.
DEC	**Natural Resource Damage (NRD) Assessment** •DEC is conducting an NRD assessment to quantify the damages to groundwater resources. •The DEC will then bring a claim against the responsible parties (Navy and NG) to fund projects to restore and protect groundwater on Long Island. •The NRD assessment is in addition to ongoing site remediation.	• The assessment is ongoing. Estimated completion of draft assessment is late 2019.

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NG/DEC/ TOB	**Remediation of Bethpage Community Park - Soil Investigation Activites** •DEC must approve investigation and remediation plans. •TOB must issue permits to conduct the work and has said that it will expedite their issuance.	•DEC approved NG's for further Park soil investigation. •NG received permission from the Town of Oyster Bay to conduct State-approved soil investigation activities. •State-approved soil nvestigation activities have been completed.
NG/DEC	**Remediation of Bethpage Community Park - VOCs, Metals & PCBs** •DEC must approve remediation workplan for VOCs, metals and PCBs.	•DEC approved NG's VOC thermal remediation plan (4/11/18). •NG briefed and submitted a draft access agreement with the Town of Oyster Bay requesting approval to begin construction of the VOC thermal remedy in July 2018. •Since soil excavation is involved in metal and PCB work, VOC work must be completed before work on metals and PCBs can begin. •PCB and metal remediation is expected to begin in late 2019.
NG	**Remediation of Bethpage Community Park - Groundwater Remediation** •The offsite groundwater portion of the remedy includes three extraction wells, a treatment facility, recharge point(s) and piping to connect the wells to the treatment facility and recharge point(s). •Two wells have been installed; the third is under construction.	•NG has completed installation of all three wells and identified a location for the construction of the groundwater treatment facility and installation of pipes. •NG will need access to Town property adjacent to the Navy's GM-38 treatment system and along the utility corridor. •NG will also need access to certain private properties.

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Agency	Action to be Taken	Current Status
NG	**Remediation of Bethpage Community Park - Groundwater Remediation Approvals - Recharge Locations.** •NG must identify viable recharge locations.	•Identifying recharge site(s) has been challenging due to unavialability of existing, adequately-sized recharge basins and properties on which to construct. •NG conducted geotechnical evaluations at 11 locations to determine suitability for recharge of treated water. •NG expects to select a final recharge location(s) in summer 2018. Access will be required from Town of Oyster Bay and private properties for ultimate recharge. •NG is targeting having the groundwater treatment system operating by mid-2019.
NG/DEC	**Remediation of Bethpage Community Park - State Approvals for Recharge Design Reports**	•Due to challenges in identifying adequately-sized recharge locations, DEC agreed to submission of NG's remediation design report in phases. •DEC approved NG's 60% design report. •In about June 2018, NG will submit its geotechnical study supporting the recharge location to DEC for approval. •In about late summer/early fall, NG will submit the 95% design report to DEC. The 95% design report will be supplemented with final technical recharge design plans once property access is obtained and surveyed.
Navy	**RE108 Remediation** •The Navy plans to pump contaminated water from the RE108 hot spot area to the GM38 treatment facility. •This requires an easement from the LIRR. [Note: Congressman Suozzi is willing to reach out to LIRR; Supervisor Saladino will assist with permits.]	•The Navy is in the early stages of negotiations with the LIRR, but discussions are progressing well. •The Navy expects to send a draft easement agreement to the LIRR later this week. •In the meantime, the Navy's contractor is performing utility surveys to determine routing of the pipeline.

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BWD/Navy	**Lease of Plant 6 to Navy** •Given the problems with Plant 6, BWD suggested that the Navy lease Plant 6 from BWD and use it solely for remediation purposes.	•The Navy has explored this option and has determined it is not feasible. The Navy claims that the near term solution of pumping water from RE108 to GM38 can be implemented faster, and will be more effective and efficient.
Navy/BWD	**Upgrades to Plant 6.** •The Navy realizes that the BWD Plant 6 has been adversely impacted by high levels of groundwater contamination and therefore needs to be upgraded. •The United States and BWD have entered into a consent judgment regarding the upgrade wherein the United States will provide 50% of the upgrade costs upfront. The total estimated cost is $8 million. •BWD does not have the funds to lay out 50% of the cost upfront and is requesting that the United States advance 90% of the estimated cost. This is a legal agreement and the negotiations are between BWD and the Department of Justice. •Congressmen Suozzi and King will have their offices reach out to the DOJ to see if the consent agreement can be amended to allow payment of 90% of the costs upfront. •DEC will look into providing a bridge loan to BWD for the portion that is not paid upfront.	•The DOJ agreed to amend the consent agreeement to allow 90% ($6 million) of the costs to be paid upfront. •Payment was received 1/23/18. •BWD will proceed with soliciting bids for the upgrades.

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NC DOH	**Plant 6 - Dual use of well to Remediate Groundwater and as a Source of Drinking Water** •Even though the contaminated water is treated to drinking water standards, Nassau County Department of Health does not allow the long-term use of remediation wells as drinking water wells. No dual use of wellheads. •Dr. Eisenstein will speak to the State about the possibility of allowing non-concurrent dual use: i.e.: the wellhead could be used for both remediation and drinking water, but not at the same time.	No update
Navy/NG	**Navy to Pay Grumman to Perform its Remediation Responsibilities** •In an effort to cut down on government red tape, it was suggested that Navy contract with NG to perfrom some of its remediation responsibilites.	•NG believes it is in the best interest of the community, and for an effective and efficient remediation, that each party continue to focus on its respective remedial efforts.
All	**Reference the Remediation Effort as the Navy/Grumman Plume** •Bethpage residents are concerned that referring to the plume as the "Bethpage Plume" will reduce home values and requests that the plume be given another name.	•Congressman Suozzi will refer to the plume as the "Navy/Grumman Plume" and encourages other parties to do likewise.
NC DOH	**Marketing Bethpage Tap Water as Safe to Drink** •Many resources have gone into making Bethpage water safe to drink; yet the public is skeptical about its drinkability. •Dr. Eisenstein offered to spread the message that the water is safe to drink.	No update

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SFWD/ MWD/Navy	•As outlined in the Public Water Contingency Plan, South Farmingdale Water District and Massapequa Water District should speak to the Navy about future funding if/when their water supply is likelty to be impacted by groundwater contamination. •The Navy suggested the water districts use the results of sentry monitoring wells to guage when such impacts are likely and begin the claims process to obatin a consent judgment through the established process.	• As of February 2018, Massapequa Water District reports that it has not yet been impacted and will continue to receive sampling data on a regular basis. •The Navy says that upon receipt of a claim for funding from a water district, the Navy will evaluate it on a case-by-case basis and respond appropriately.

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