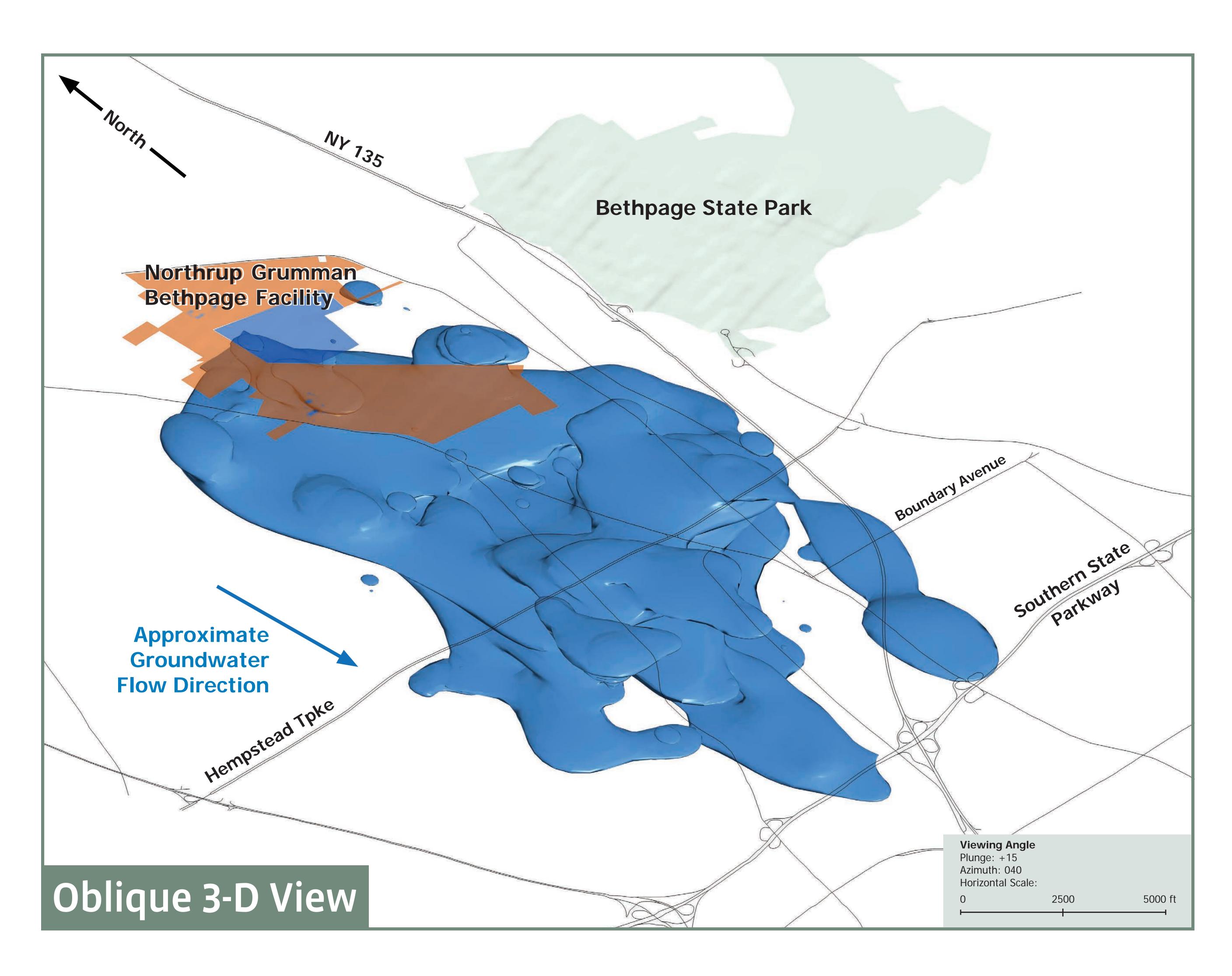
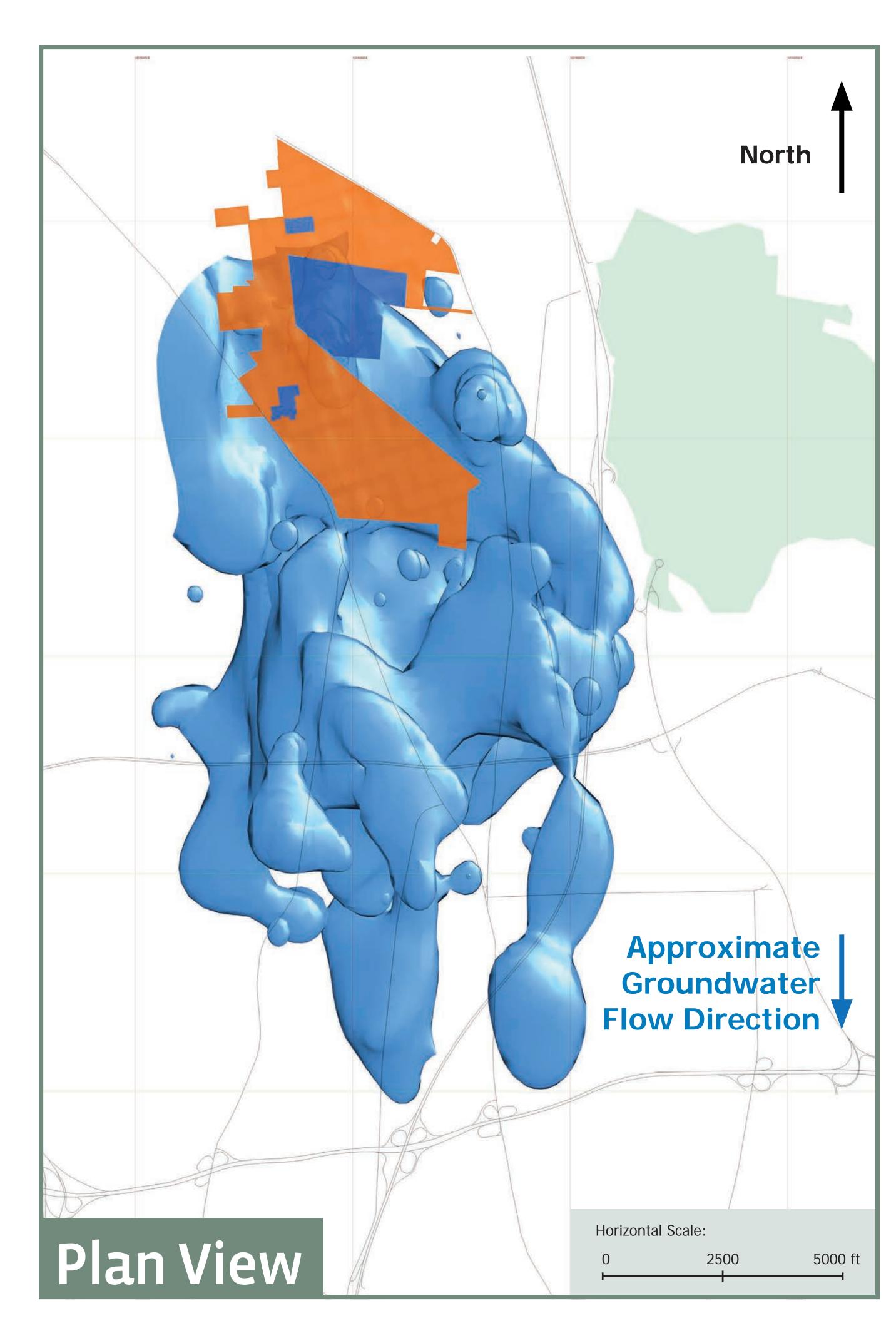
Navy Grumman Groundwater Plume

Contaminants of Concern Plume | Concentration of 5 µg/L or Higher





Northrop Grumman Bethpage Facility

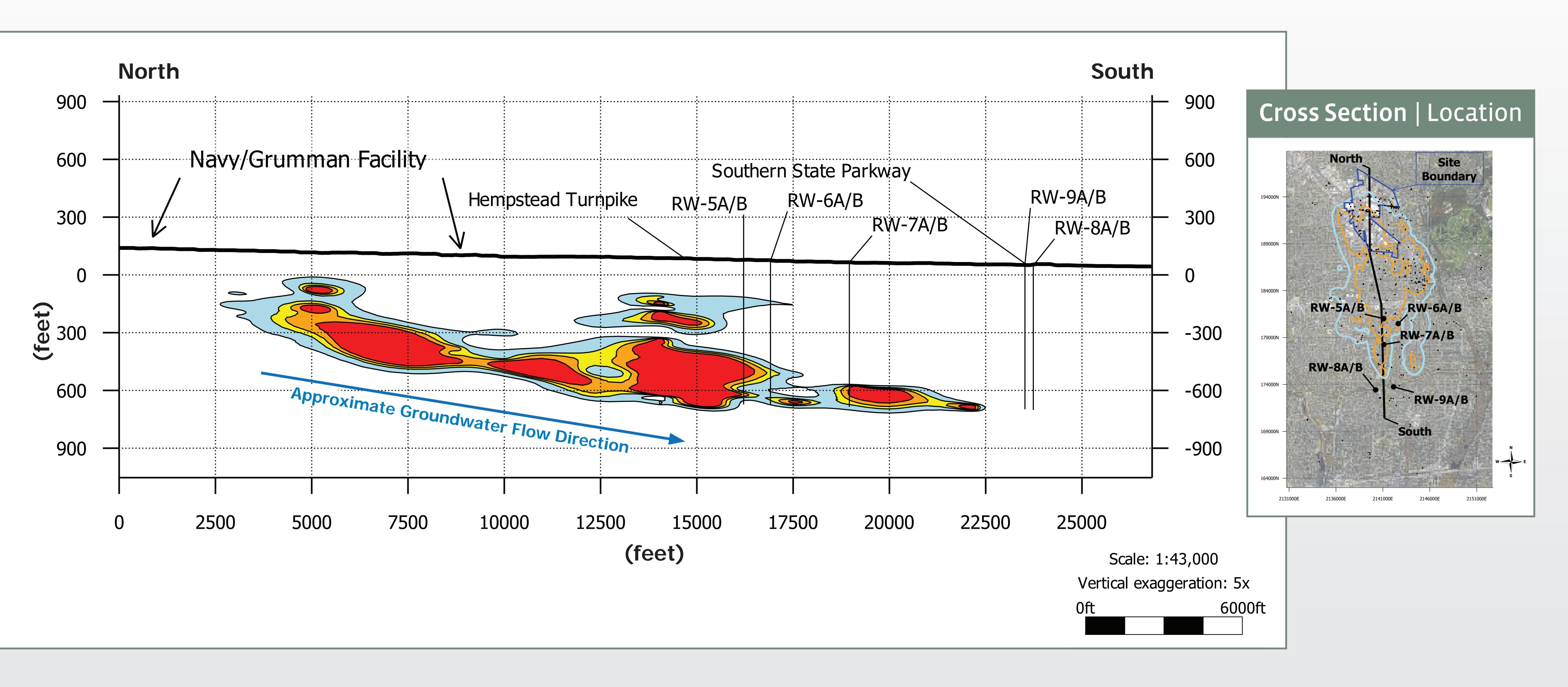
Naval Weapons Industrial Reserve Plant

Groundwater Contaminants of Concern (COC) Plume

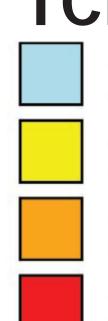
COCs mapped are Trichloroethylene (TCE), 1,1-dichloroethane (1,1-DCA) and Freon. 5 µg/L= contaminant-specific drinking water criteria



Navy Grumman Trichloroethylene (TCE) Plume







Note: 5 micrograms per liter ($\mu g/L$) is the drinking water standard for TCE.



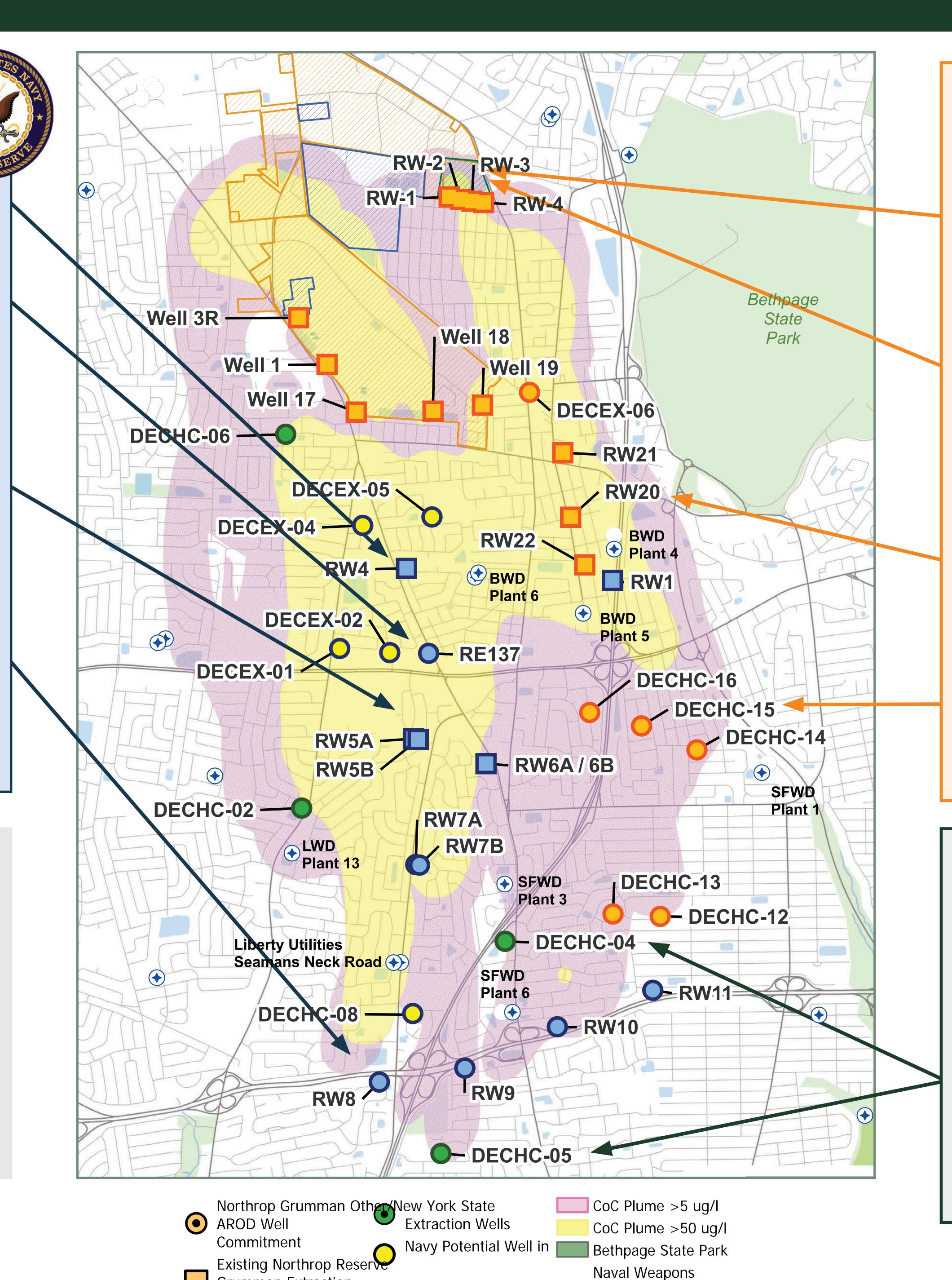
Remediation Progress Since December 2019 AROD

Navy

- Installed and Began Operation of RW-4 Extraction Well
- Constructed & Operated RE-137 System (>1,000 lbs of Contamination Removed Since May 2022)
- Construction of the RE-108
 Phase II Groundwater
 Treatment System Underway,
 Installed RW-5, RW-6, RW-7
 Extraction Wells, Currently
 Installing Discharge Piping
- Installed RW-8 & RW-9 Extraction Wells at Leading Edge of Plume and PDI for RW-10 and RW-11 Underway

On-Going Work

 7 Million Gallons per Day contaminated groundwater removed from 7 extraction wells and treated at 3 water treatment plants has removed over 200,000 lbs of contamination



Grumman Extraction

Existing Navy
Extraction Wells

Navy AROD Well

Pre-design

Investigation Wells

Public Supply Wells

Major Roads

Communities

Industrial Reserve

Northrop Grumman

Plant (NWIRP)

NORTHROP GRUMMAN

- Completed Phase I Thermal Remedy at Park (>1,400 lbs of Contamination Removed).
 Phase II under Design and to Start in 2023
- PCB Excavation Remedy Being Coordinated with US EPA, DEC, DOH, and Town (Following EPA Requirements)
- Installed over 2 miles of Piping from RW-20, 21 & 22 to Treatment Plant That Will Begin Operating Spring 2023
- Planning PDI for DEC-12, DEC-13, DEC-14, DEC-15 & DEC-16, Field Work to Begin Spring 2023

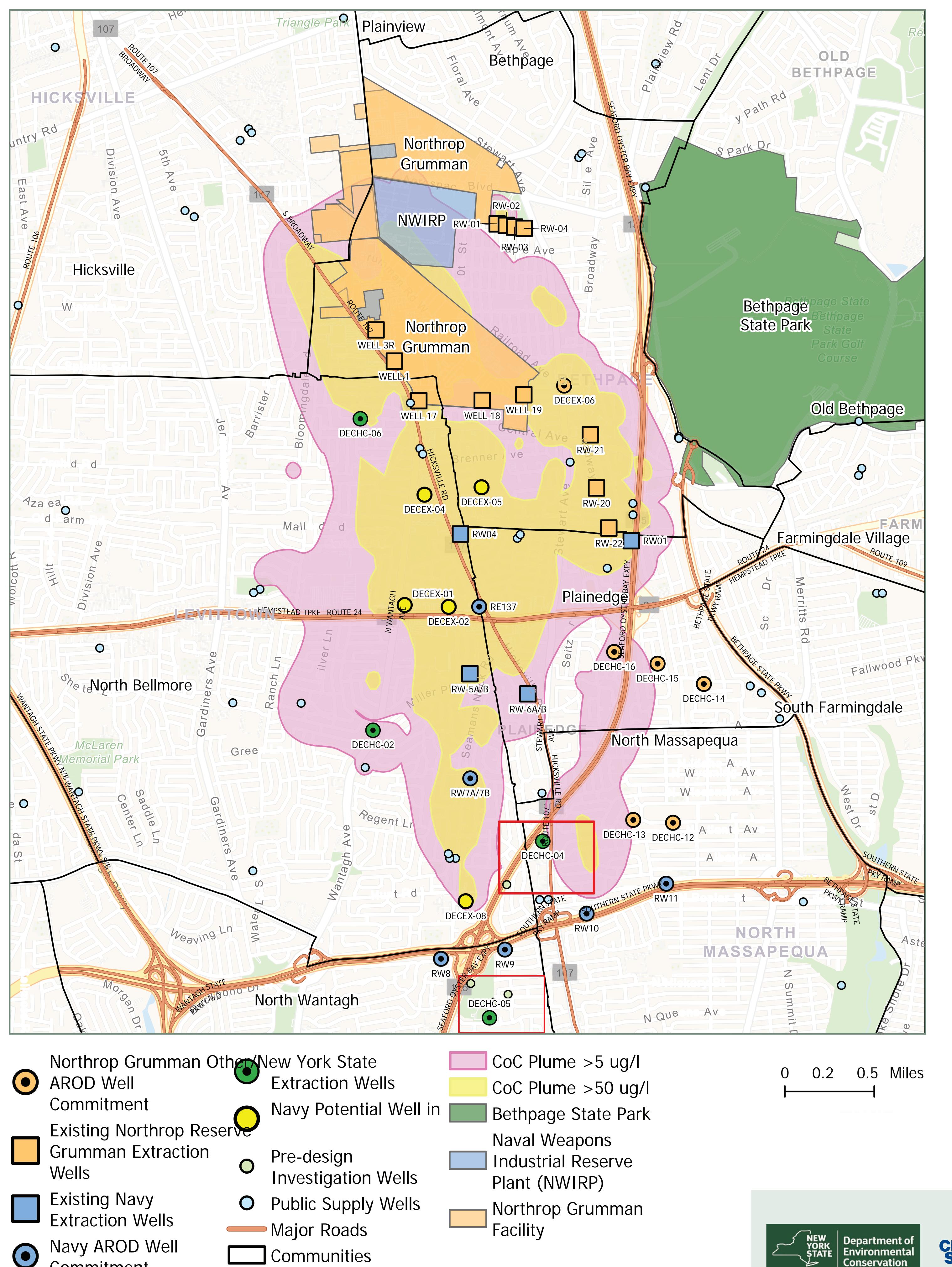


- Negotiated & Executed Consent
 Decree with Northrop Grumman
 & Explanation of Significant
 Differences with Navy
- Completed HC-04 & HC-05 PDIs
- Initiated Negotiations with Other Responsible Parties





Existing and Planned Remediation

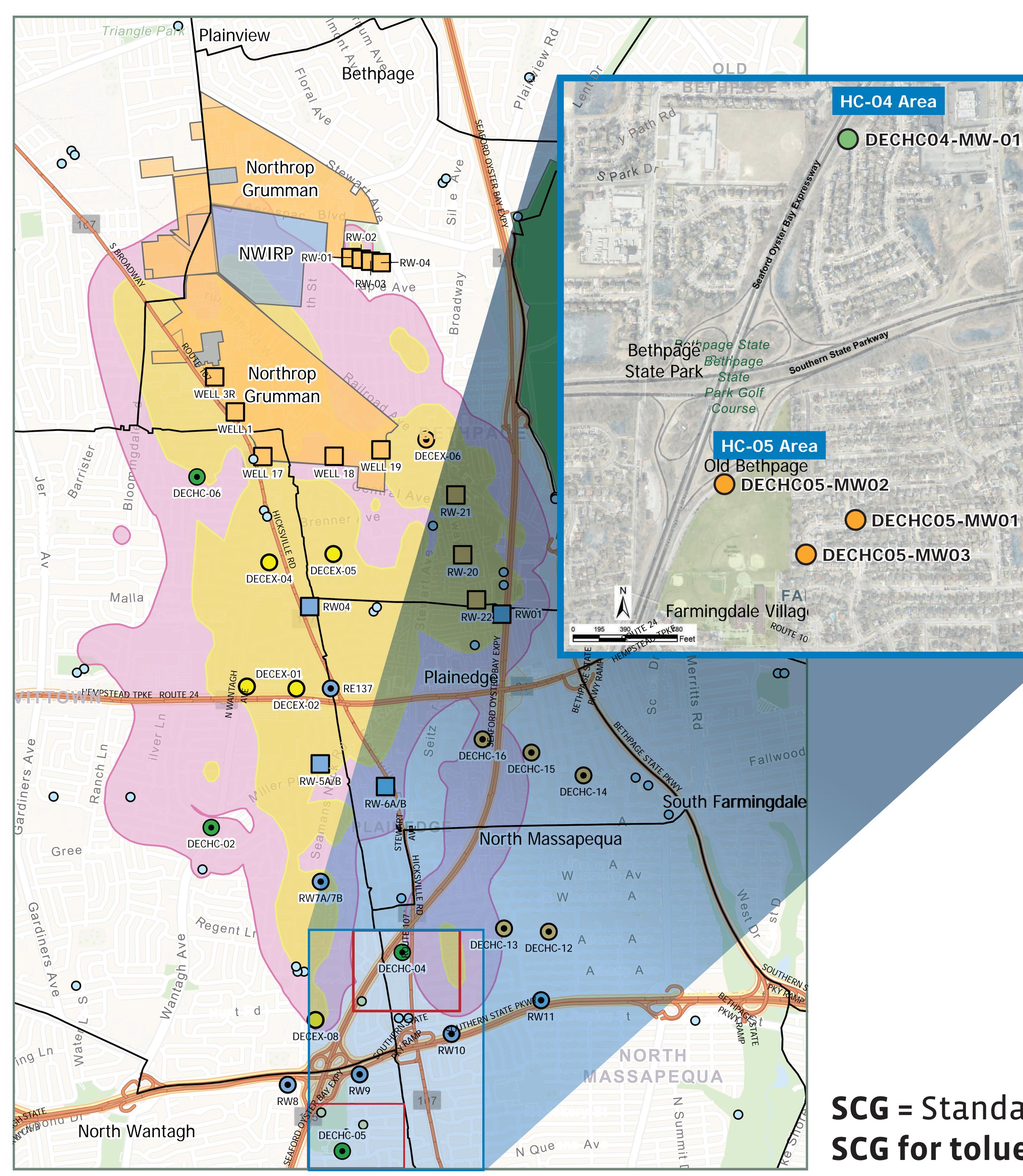


Commitment





NYSDEC Pre-Design Investigations



HC-04 Area

- VPB drilled to 982-feet
- No Site-Related Contaminants were detected above SCGs in VPB Samples
- New deep monitoring well installed and sampling pending.

HC-05 Area

- Three vertical profile borings (VPBs) and new deep monitoring wells (965-feet to 975-feet below ground surface)
- No Site-Related Contaminants were detected above SCGs in groundwater samples

SCG = Standards, Criteria and Guidance Values SCG for toluene and TCE = $5 \mu g/L$



NYSDEC Comprehensive Working Schedule - Navy Grumman Groundwater Plume Cleanup March 2023

ID	Task Name	Duration	Start	Finish	2020 2021 2022 2023 2024 2025 2026 2027 2028 Q1Q2Q3Q4Q1Q1Q2Q3Q4Q1Q2Q3Q4Q1Q1Q2Q3Q4Q1Q2Q3Q4Q1Q1Q2Q3Q4Q1Q1Q2Q3Q4Q1Q1Q2Q3Q4Q1Q1Q2Q3Q4Q1Q1Q2Q3Q4Q1Q1Q2Q3Q4Q1Q1Q2Q3Q4Q1Q1Q2Q3Q4Q1Q1Q2Q3Q4Q1Q1Q2Q3Q4Q1Q1QQQQ1Q1Q1Q1Q1Q1Q1Q1Q1Q1Q1Q1Q1Q1Q		
1	Northrop Grumman	1609 days	Thu 7/1/21	Tue 8/31/27	▼		
2	DECEX-06 - Remedial Design and Action	359 days	Tue 11/1/22	Fri 3/15/24	▼ ▼		
6	ESE Plume Quadrant (Phase 1) - PDI, Remedial Design and Action	860 days	Mon 10/31/22	Fri 2/13/26	▼		
15	SSE Plume Quadrant (Phase 2) - PDI, Remedial Design and Action	1240 days	Wed 11/30/22	Tue 8/31/27	▼		
23	RW-21 Area - Remedial Action	468 days	Thu 7/1/21	Mon 4/17/23	▼ ▼		
25	Former Grumman Settling Ponds (Present-day Bethpage Community Park) Phase II VOC Soil Remedy - Remedia Design and Action, Site Restoration	l 626 days	Mon 8/1/22	Mon 12/23/24	▼		
31	Former Grumman Settling Ponds (Present-day Bethpage Community Park) PCB Soil Remedy - Remedial Design and Action, Site Restoration	877 days	Tue 2/1/22	Wed 6/11/25	▼		
40	Department of Navy	2769 days	Fri 5/1/15	Wed 12/10/25	▼		
41	RE-108 Phase 1 - Remedial Design and Action (Recovery Well RW-4 Became Operational April 2021)	914 days	Sun 10/1/17	Thu 4/1/21	─── ▼		
44	GM-38 Upgrades - Remedial Design and Action	385 days	Mon 1/2/23	Fri 6/21/24	▼		
47	RE-137 - Remedial Design and Action (Recovery Well RE-137 Began Operation in March 2022)	276 days	Mon 3/1/21	Mon 3/21/22	▼		
50	RE-108 Phase 2 - Remedial Design and Action	2281 days	Fri 5/1/15	Fri 1/26/24	▼		
54	RE-108 Phase 3 - RW8-RW9-RW10 - PDI, Remedial Design and Action	1262 days	Mon 3/2/20	Tue 12/31/24	▼		
58	RE-108 Phase 3 - RW11 - PDI, Remedial Design and Action	1007 days	Tue 2/1/22	Wed 12/10/25	▼		
65	Other Responsible Parties / NYSDEC	1575 days	Mon 3/1/21	Fri 3/12/27	▼		
66	DECHC-02 - NYSDEC General Counsel Negotiations, PDI, Remedial Design and Action	1109 days	Mon 12/12/22	Thu 3/11/27	▼		
73	DECHC-04 - PDI, Remedial Design and Action	348 days	Thu 9/1/22	TBD*	E		
80	DECHC-05 - PDI, Remedial Design and Action	741 days	Mon 3/1/21	TBD*	E		
87	DECHC-06 - NYSDEC General Counsel Negotiations, PDI, Remedial Design and Action	1110 days	Mon 12/12/22	Fri 3/12/27	▼		
94	94 Notes:						
95	* Item is based on long-term groundwater monitoring. Current data suggests Remedial Action may not be necessary.						
96	PDI - Pre-Design Investigation						

Navy Grumman Community Participation Working Group (CPWG)

What is the Purpose of the CPWG?



To be a forum for enhancing public dialogue, fostering public understanding, and encouraging input and discussion about the comprehensive remedy to clean up the Navy Grumman groundwater plume and Bethpage Community Park.



To bring together a broad group of stakeholders with varied interests who can represent and communicate community concerns and perceptions as remedial projects are being designed and performed.



To make recommendations on effective strategies for communication related to the remedial activities or public health implications.

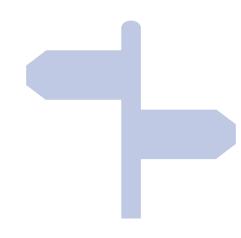
How Will the CPWG Operate?



The CPWG will be a **self-governing** and **voluntary** body supported by NYSDEC.



The CPWG will be a forum to provide residents with a voice in the process with an opportunity to provide information, opinions, and perspectives on the comprehensive site clean-up and related communication strategies.



The CPWG will not serve as a decision - making body. It is not a voting entity, and it does not set policy or make decisions regarding project design or implementation.



Bylaws will establish ground rules, allow for working groups, describe duties, inform meeting announcements, and set the minimum frequency of meetings.

Navy Grumman Community Participation Working Group (CPWG)

How will CPWG Members Be Selected?

We are looking for **15-20 members** with **varied interests** who can provide **broad and diverse representation** of community needs and interests.



Applicants will be selected by the Consensus Building Institute in conjunction with the NYSDEC using a selection process based on:

- Interest in CPWG membership
- **Diversity** including diversity of age, background, experiences, and expertise
- Representation by affected municipalities and water districts
- Proximity to the groundwater plume and areas undergoing cleanup activities
- Residence or place of work in Nassau County, New York
- Engagement and leadership within the community
- Interest and past involvement with the cleanup
- Anticipated, perceived, or actual conflicts of interest
- Input from NYSDEC, responsible parties, and other stakeholders

Navy Grumman Community Participation Working Group (CPWG)

CPWG Selection Schedule

March 2023	 Availability Session and CPWG application period begins. Applications can be submitted here: tinyurl.com/CPWGapplication
April 2023	 Applications are due April 4, 2023. CBI will review all applications and letters of interest and gather input from key parties on CPWG member selection. CBI will provide CPWG membership recommendations to NYSDEC for final approval.
May 2023	 Announce the CPWG and inform selected CPWG members. Schedule CPWG kick-off meeting.

Contact Information

	CPWG-Related Questions			
Nate Lash				

Consensus Building Institute
2067 Massachusetts Ave., Suite 570
Cambridge, MA 02140
(617)-652-0560
nlash@cbi.org

Project-Related Questions	Health-Related Questions		
Kristin Granzen Project Manager NYSDEC 625 Broadway Albany, New York 12233 (518) 402- 9772 kristin.granzen@dec.ny.gov	James Sullivan NYSDOH Empire State Plaza Corning Tower, Room #1787 Albany, New York 12237 (518) 417-1531 Jim.Sullivan@health.ny.gov		