

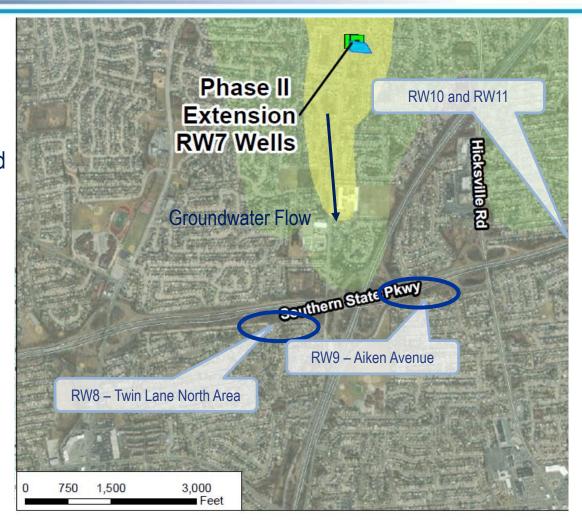
# Department of Navy Naval Weapons Industrial Reserve Plant Bethpage Restoration Advisory Board Meeting

# Phase III (RW8 to RW11) – Southern Plume Intercept Treatment System Update

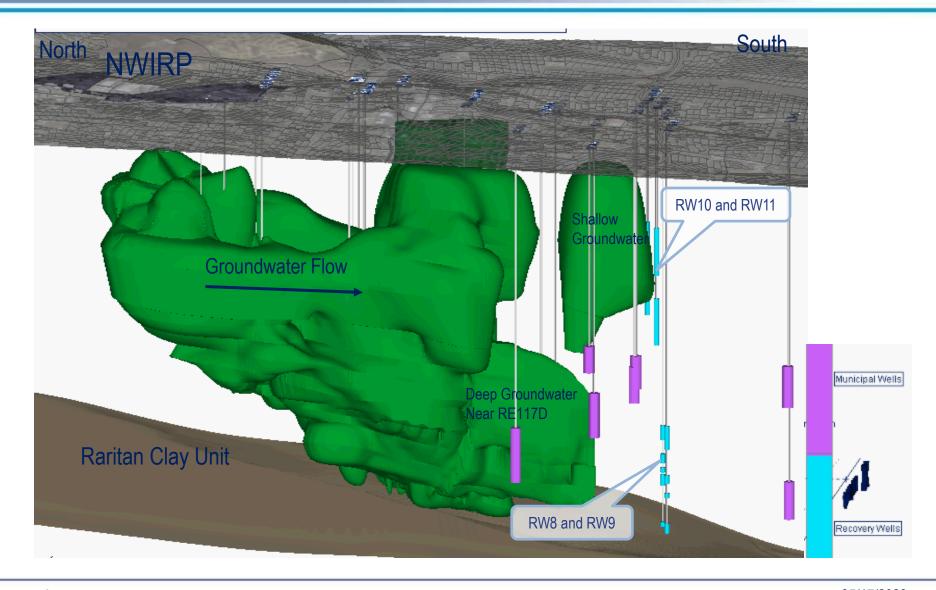
Presented by:
David Brayack, Project Manager
Tetra Tech 17 May 2023



- Location based on extensive monitoring of plume migration and space available
- Phase III-A RW8 and RW9 target deep groundwater that is not captured by Recovery Well RW7 – Initial focus on deep groundwater
- Phase III-B Potential for RW10 and/or RW11 wells to the east, with a possibility of a separate treatment plant – shallow groundwater









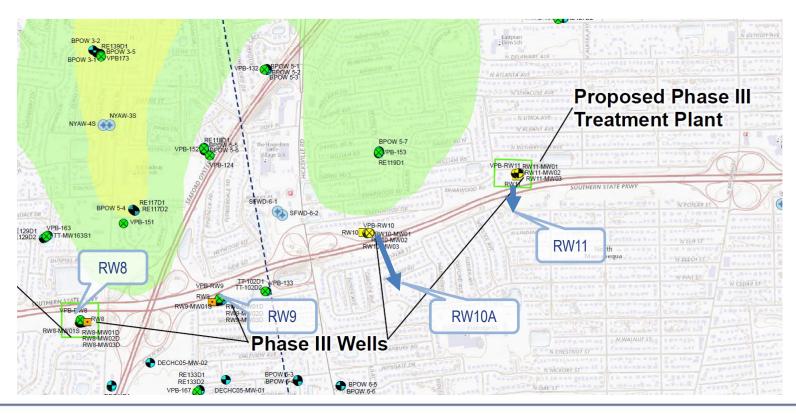
- Phase III drilling started in March 2021
- RW8 and RW9: (2) vertical profile borings, (8) monitoring wells, and (2) recovery wells are complete
- Computer modeling runs to evaluate capture are complete
- Recovery Well RW8 and RW9 pumping tests completed in December 2022
- Computer modeling evaluation confirm locations and identify target pumping rates
- Two different piping routes being evaluated



05/17/2023



- RW10 VPB and monitoring wells are complete
- May 2023, preparing to drill VPB and monitoring wells for RW11
- Due to access issues, plume location, and computer modeling, RW10 and RW11 and associated VPBs and monitoring wells moved south of Southern State Parkway



# Phase III – Southern Plume Intercept Treatment System, Recovery Well RW8 Area





# Phase III – Southern Plume Intercept Treatment System, Recovery Well RW8 Pumping Test Equipment



- Pumping tests conducted at 1,000 gallons per minute for three days
- Although water was clean, filtration and granular activated carbon (GAC) was used to treat water prior to discharge
- Data is used to check model calibration and if necessary, modify the model calibration in this area







- Phase III-A (RW8 and RW9) Treatment System design: 2022 to 2023
  - Surveying and basin infiltration testing underway
  - Preliminary setting for treatment plant location
  - Design for RW9 to RW8 pipeline in progress
- Treatment Plant construction and operation to start in 2024
- Phase III-B (RW10 and/or RW11) Treatment System approximately one year after Phase III-A System

### Phase III – Southern Plume Intercept Treatment System Update – Path Forward



**RAB Questions** 

**NEXT:** Phase II Remedial Action

Steve Matney, AGVIQ