

# PROPOSED PLAN PUBLIC MEETING

## CAMP HERO FORMERLY USED DEFENSE SITE (FUDS)

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New York District

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## SITE HISTORY AND BACKGROUND



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- 1942: Established as a Coastal Defense Installation
- 1947-1949: Placed on inactive status and ultimately declared surplus by the Department of the Army in late 1949
- 1949 to 1980: Portions of the property were transferred to the Department of the Air Force
- 1974: Portions of the property were transferred from the DoD to the State of New York
- 1980 - 1984: Property was deeded to the State of New York



## CERCLA PROCESS



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# Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)





## CAMP HERO INVESTIGATIONS



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- Comprehensive historical search was conducted that identified 47 potential Areas of Concern
- Conducted in Three Phases
- Over 1,300 samples collected



## CAMP HERO INVESTIGATIONS



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- Phase I (June 2016)
  - CERCLA Site Inspection-level investigation
  - Presence or absence of contamination
  - Background soil study



## CAMP HERO INVESTIGATIONS (CONT'D)



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- Phase II (December 2017)
  - Building 203 - petroleum focused
  - Background groundwater study
  - Sitewide surface water drainage and habitat surveys
- Preliminary Screening Evaluation
  - 25 potential AOCs did not require additional investigation
  - 22 AOCs → RI Phase III





## CAMP HERO INVESTIGATIONS (CONT'D)



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- Phase III (June/July 2018)
  - 22 AOCs
    - 18 geometric decision units (DUs)
    - 8 stream exposure areas (SEAs)
  - Unbiased sampling protocol
  - Sitewide groundwater
  - Background surface water and sediment



## RI REPORT – RISK ASSESSMENT



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- Comprehensive human health and ecological baseline risk assessments
- Geochemical statistical evaluation for metals
- Polycyclic aromatic hydrocarbons (PAHs), forensics and source evaluation





## RI REPORT – RISK ASSESSMENT (CONT'D)



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CERCLA release, as used in the context of the Camp Hero FUDS program, means DoD activities that may have resulted in "spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment (including the abandonment or discarding of barrels, containers, and other closed receptacles containing any hazardous substance or pollutant or contaminant)" (CERCLA § 101(22))



## RI REPORT – POTABILITY ANALYSIS



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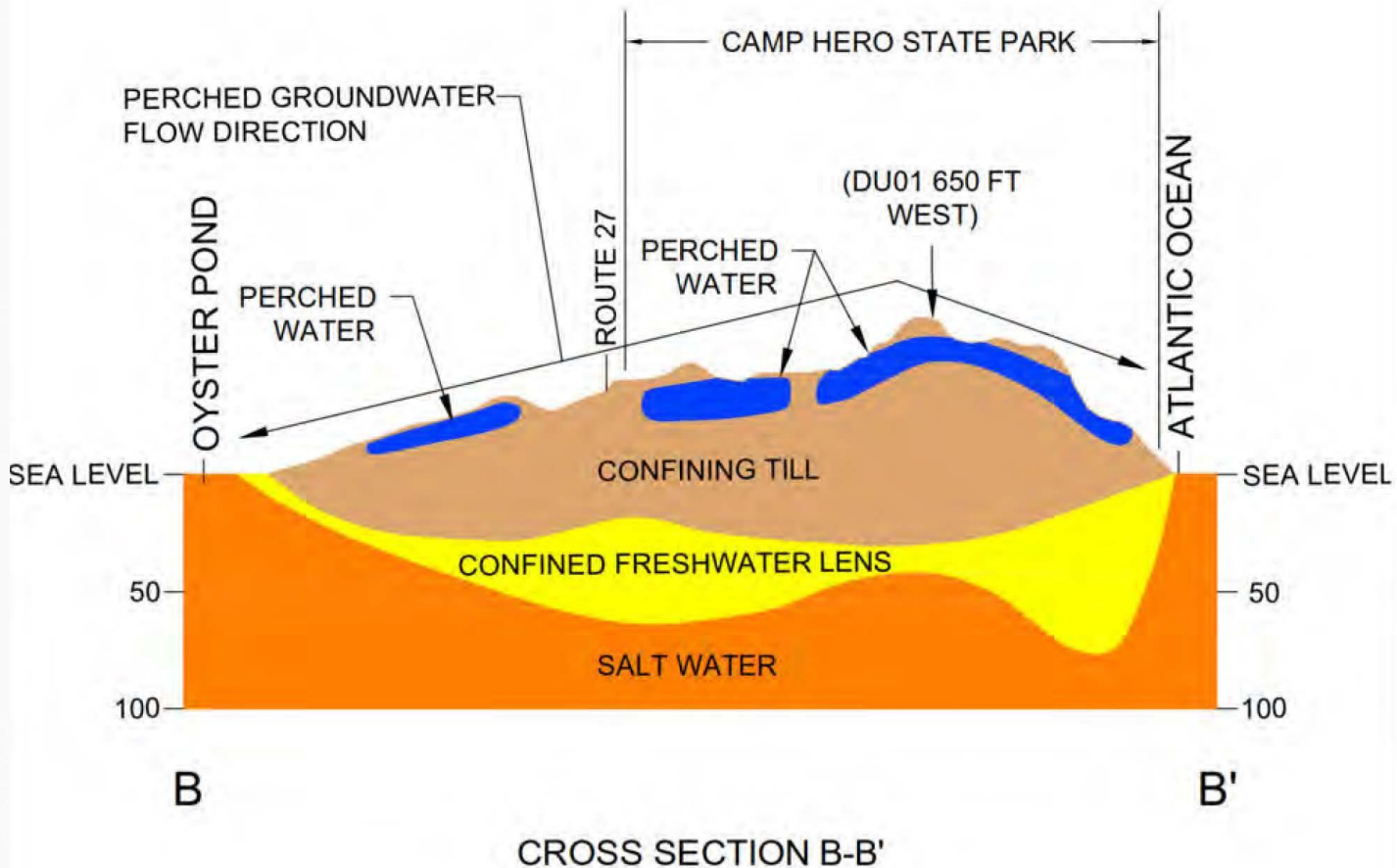
- Groundwater lenses at Camp Hero are shallow and not continuous
- Does not provide water for local residential wells
- Poor well yield, recharge, and water quality
- Does not conform to standards for community or private water wells



## RI REPORT – POTABILITY ANALYSIS (CONT'D)



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## RI REPORT – POTABILITY ANALYSIS (CONT'D)



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- Perched groundwater lenses beneath Camp Hero are not hydraulically connected to drinking water resources in Suffolk County
- Deeper, productive confined aquifer in this area is separated from the upper perched groundwater lenses by a continuous silt and clay confining layer which generally ranges from 60 to more than 100 feet in thickness
- No indication that this deep aquifer has been compromised by DoD activities



## RI REPORT - OVERVIEW



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- Includes 1,300 soil, sediment, surface water, and groundwater samples collected between May 2016 and June 2017
- After analysis of the data, there were no DUs or SEAs with levels of chemicals of concern (COCs) with actionable risk
- The petroleum-based, light non-aqueous phase liquid (LNAPL) at DU01 is exempted in CERCLA program, but will be addressed in New York State Department of Environmental Conservation (NYSDEC) petroleum spills program



## RI REPORT – CONCLUSION



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No further CERCLA action is required  
at any sites at Camp Hero





## FORMER BUILDING 203 PETROLEUM RELEASE



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- 1993: Three underground storage tanks (USTs) removed
  - Two 25,000 gallon #2 fuel oil USTs
  - One 1,000 gallon lube oil UST
- 1993-1994: Over-excavation of tank cavity
  - 2,500 cubic yards removed
- 1995: NYSDEC closed the Spill Report Case
- 2016: New Spill Report Case opened







## FORMER BUILDING 203 PETROLEUM RELEASE



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- Two large underground storage tanks (USTs) and associated contaminated soils were previously removed in 1993
- Residual LNAPL exists in the immediate area of the former Building 203
- The residual LNAPL is stable (not migrating) and undergoing natural biodegradation
- The FUDS program is recommending no further action at this time





## CONCLUSIONS



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- A comprehensive evaluation of DoD activities at Camp Hero identified 47 potential AOCs
- Over 1,300 samples were collected and analyzed across the site
- A thorough evaluation of the analytical data has determined that there is not any actionable risk to human health or ecological receptors
- No further action is proposed under CERCLA
- Residual petroleum at the former Building 203 is being addressed under NYSDEC program



## QUESTIONS?



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## ACRONYMS/ABBREVIATIONS



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- AOC = Area of Concern
- CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
- COC = chemical of concern
- COPC = chemical of potential concern
- DoD = United States Department of Defense
- DU = decision unit
- FUDS = Formerly Used Defense Site
- NYSDEC = New York State Department of Environmental Conservation
- PAH = polycyclic aromatic hydrocarbon
- PE = Professional Engineer
- PMP = Project Management Professional
- SEA = stream exposure area