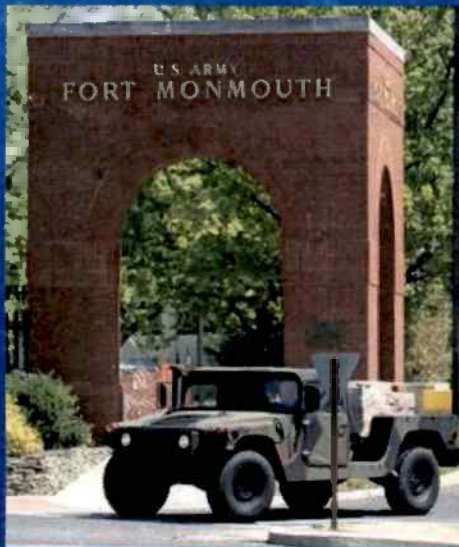


U.S. ARMY FORT MONMOUTH

c o r e v a l u e s
RESTORATION ADVISORY BOARD
MARCH 3, 2016 MEETING



ARMY and NJDEP Coordination

- Monthly Status Calls
- Submittals/Responses
- Setting Priorities
- Ad Hoc Communication

Compliance Program

- Safe Drinking Water Act
- Clean Water Act
- Spill Prevention Control and Countermeasure Plan
- Clean Air Act
- Resource Conservation and Recovery Act
- Community Right-to-Know Act
- Other Compliance Activities

U.S. ARMY FORT MONMOUTH

Status Overview of the Remedial Investigation/Feasibility Study/Decision Documents Project

c o r e v a l u e s

RESTORATION ADVISORY BOARD

MARCH 3, 2016 MEETING



Sustainability

Innovation

Integrity

Safety

@ diversity

Quality

Agenda

PARSONS

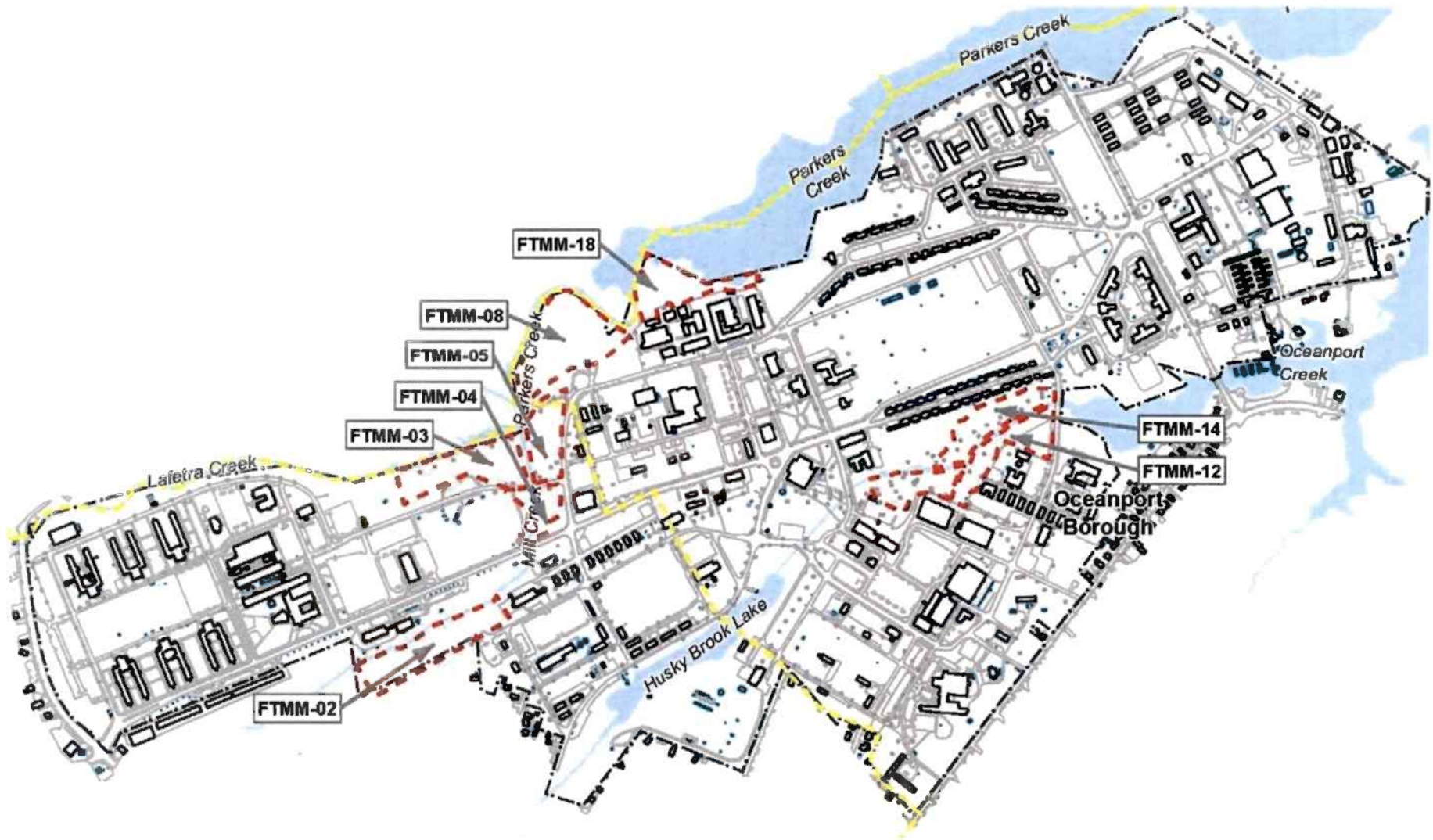
- Status overview of:
 - Nine Landfills
 - Nine Non-Landfill Sites
 - Environmental Conditions of Property (ECP) Parcels including parcels associated with Unregulated Heating Oil Tanks (UHOTs)

- Questions



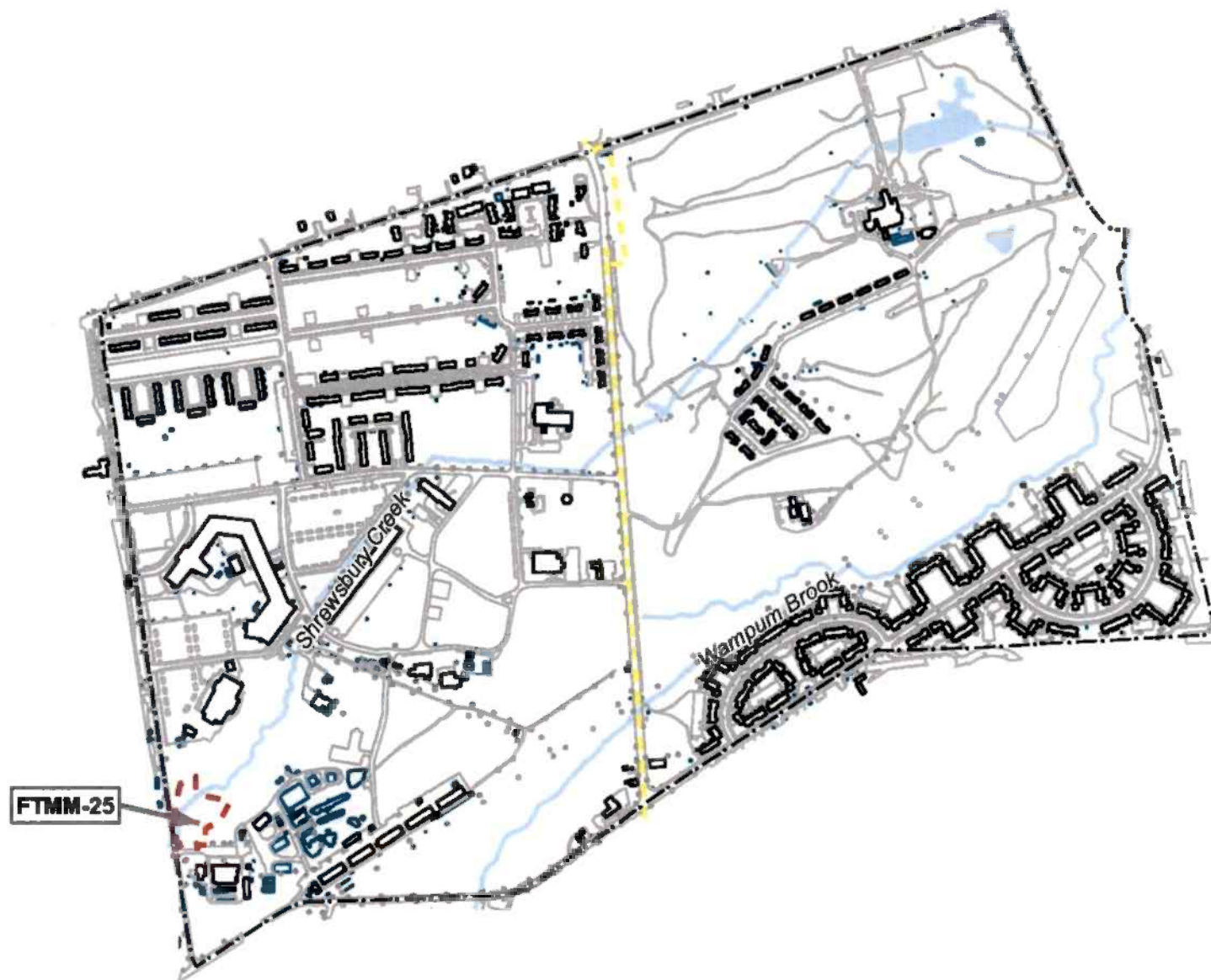
Landfill Locations – Main Post

PARSONS



Landfill Location – Charles Wood Area (CWA)

PARSONS



■ Nine Landfills

- 7 Remedial Investigation / Feasibility Study (RI/FS) Reports submitted to New Jersey Department of Environmental Protection (NJDEP) including FTMM-02, FTMM-03, FTMM-04, FTMM-05, FTMM-12, FTMM-14, and FTMM-18.
- 1 RI/FS Report (FTMM-04) approved by the NJDEP.
- 2 RI/FS Reports (FTMM-08 /FTMM-25) under review by the Army prior to submittal to NJDEP.
- Received No Further Action (NFA) for groundwater from NJDEP at FTMM-03, FTMM-04, FTMM-12, FTMM-14, and FTMM-25.

Landfills Status Overview (cont'd)

PARSONS

- Landfill Boundary Refinement and Methane Gas Survey Investigation:
 - Test pits conducted in August 2015 to refine the boundary of each landfill prior to design/construction of the vegetated soil cap or functional equivalent.
 - Methane gas sampling conducted to monitor the potential presence and concentrations of landfill gas.
 - Overall landfill boundaries did not change significantly.
 - Methane gas was not detected along the perimeter of the landfills demonstrating that landfill gasses are not migrating off site.
 - Results documented in the Landfill Boundary Refinement and Methane Gas Survey Report submitted to NJDEP.

Landfills Status Overview (cont'd)

PARSONS

- **Future Landfill Documents**
 - **Conceptual Design Report for Nine Landfills**
 - Conceptual design for the construction of the vegetated soil cap or functional equivalent for each landfill.
 - Obtain NJDEP acceptance.
 - **Proposed Plans (PP)**
 - Identifies the preferred remedy and explains the rationale for the remedy.
 - 30 day public comment period and obtain NJDEP acceptance.
 - **Decision Documents (DD)**
 - Provides a consolidated summary of site conditions, the selected remedy and reason for selection of remedy.
 - Obtain NJDEP acceptance.

Landfills Status Overview (cont'd)

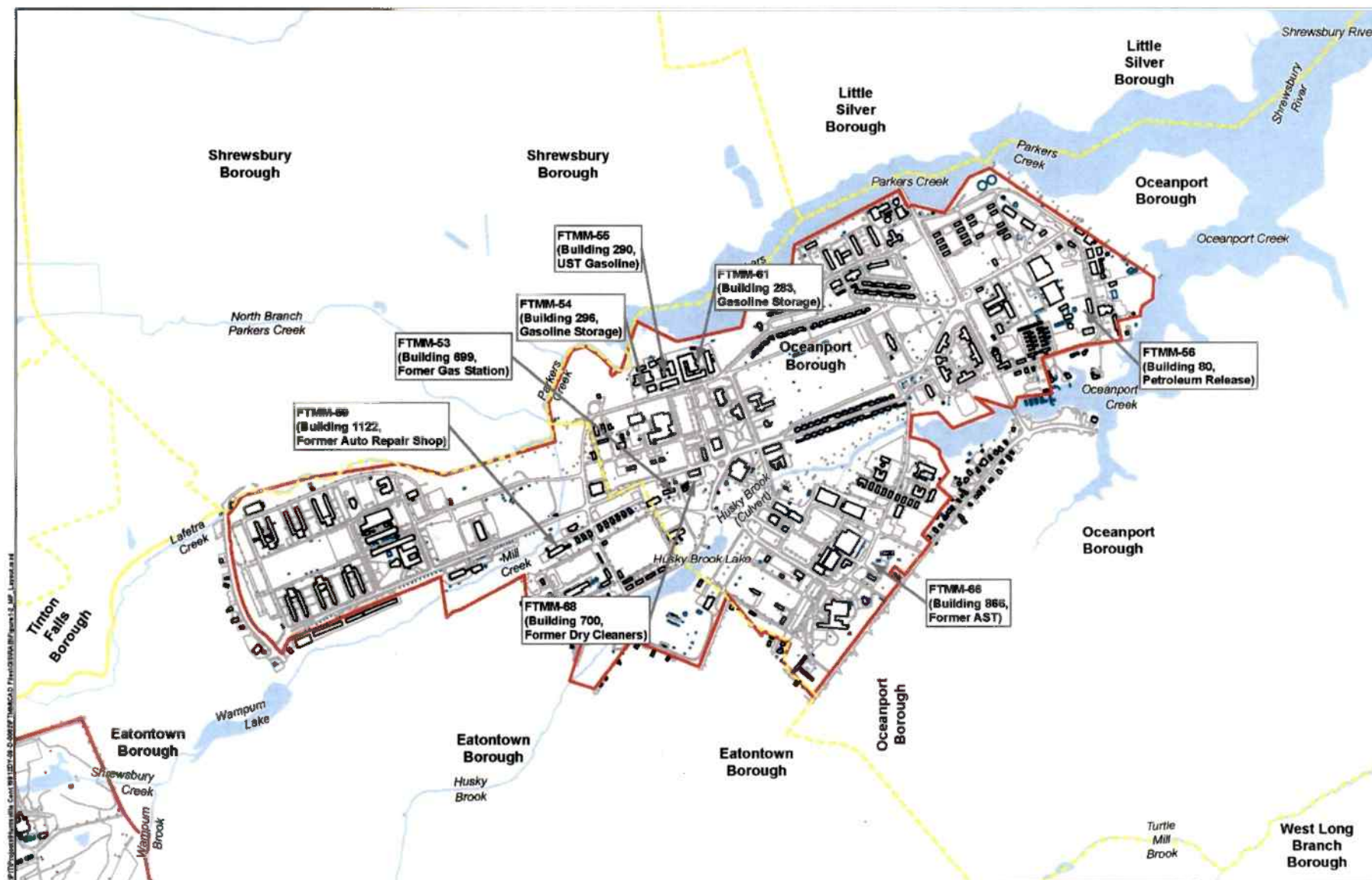
PARSONS

- Remedial Action Work Plan (RAWP)
 - Describes the proposed construction of the vegetated cap (or functional equivalent) and components including:
 - Summary of findings/recommendations from RI/FS Report
 - Detailed description of remedy
 - List of permits
 - Following Plans: Air Monitoring, Health and Safety, Soil Reuse, Quality Assurance, Evaluate the effectiveness of the remedy, and Restoration
 - Performance specification and drawings
 - Construction schedule
 - Obtain NJDEP Acceptance

- Remedial Action Completion Report
 - Documents construction of the vegetated soil cap or functional equivalent including:
 - Demonstration that Remedial Action Objectives have been met
 - Source, type, quantities and location of fill
 - As-built drawings
 - Operations, Maintenance and Monitoring Plan
 - Copy of filed deed notice (Institutional Controls)
 - Obtain NJDEP Acceptance

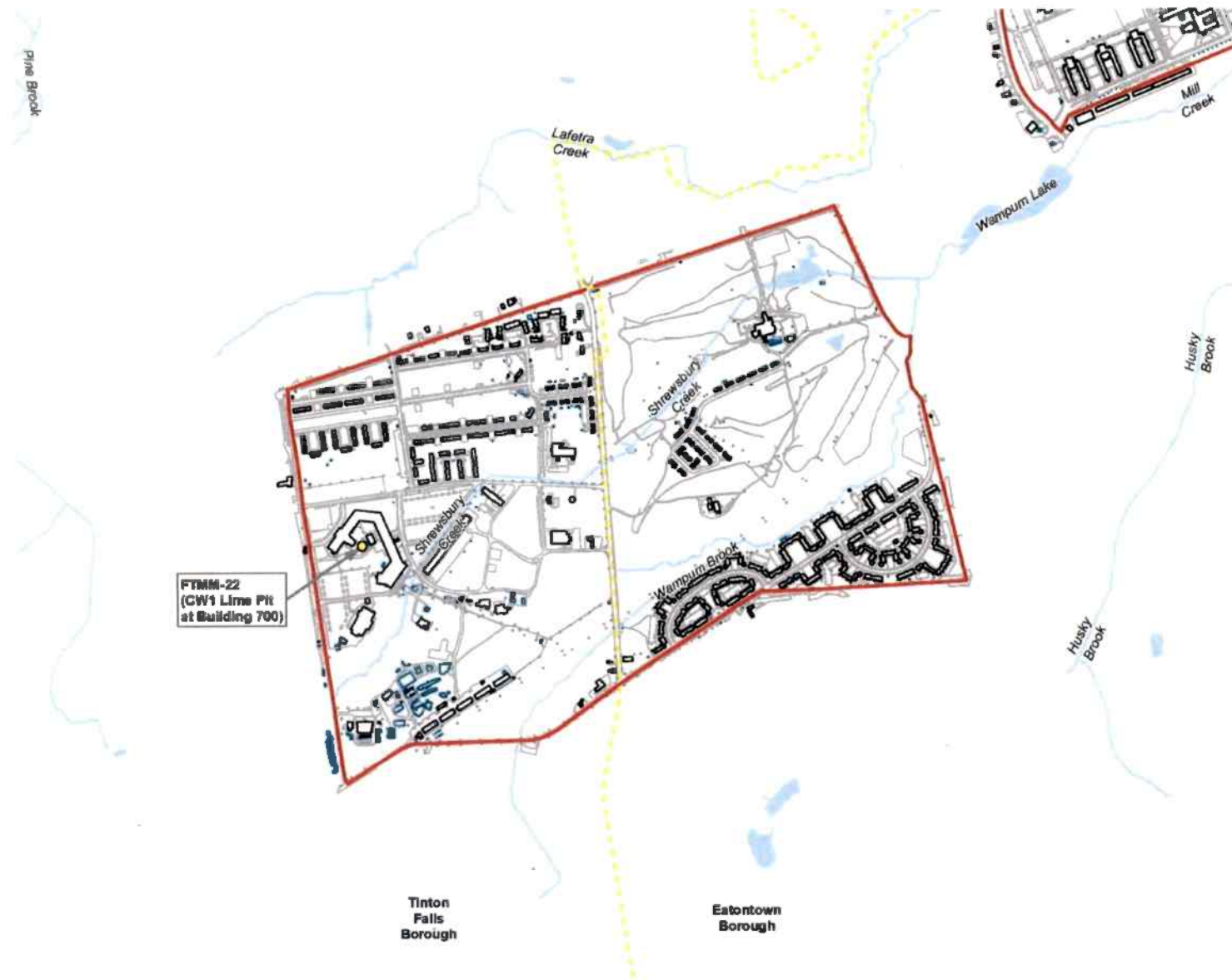
Non-Landfill Locations - Main Post

PARSONS



Non-Landfill Location - CWA

PARSONS



Non-Landfill Status Overview

PARSONS

- **Nine Non-Landfill Sites**
 - Sites Requiring Additional Investigations: FTMM-22, FTMM-53, FTMM-59, and FTMM-68
 - Collection of additional soil and groundwater data completed during October - December 2015.
 - RI/FS report for FTMM-22 to be submitted to the Army for review by March 2016 prior to submittal to the NJDEP.
 - RI/FS reports for FTMM-53 and FTMM-59 are under development.
 - Additional data collection necessary for FTMM-68 to determine extent of Volatile Organic Compounds (VOCs) impacts to soil and groundwater.

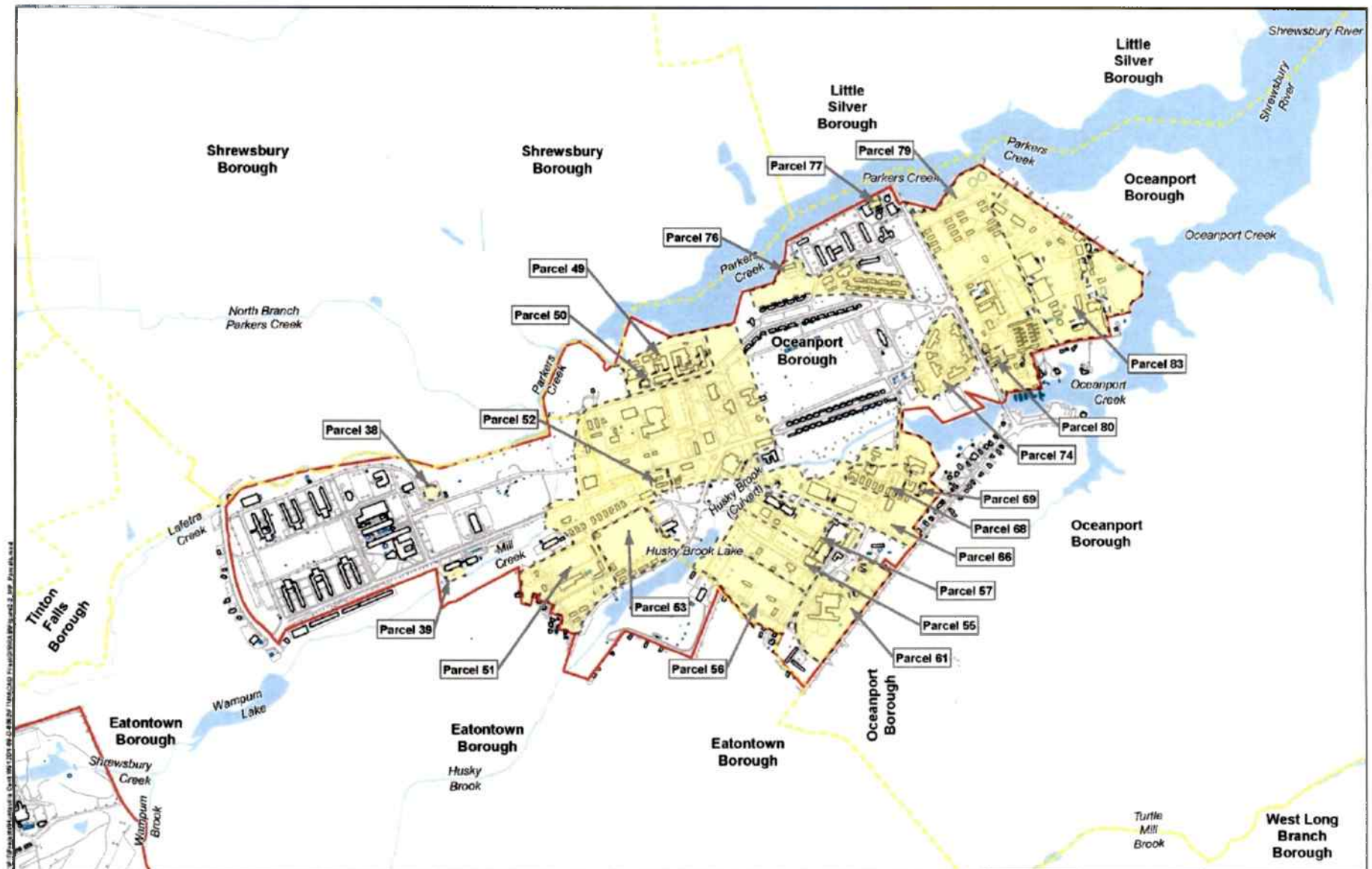
Non-Landfill Status Overview (cont'd)

PARSONS

- **Sites Not Requiring Further Investigations: FTMM-54, FTMM-55, FTMM-56, FTMM-61 and FTMM-66**
 - Report for FTMM-54 submitted to NJDEP.
 - Received NFA for groundwater from NJDEP at FTMM-54, FTMM-55, and FTMM-61.
 - Reports for FTMM-55, FTMM-56, FTMM-61 and FTMM-66 are under development and will be submitted to the Army prior to NJDEP.
- **Future Non-Landfill Documents**
 - Submittal of Supplemental Work Plan for the collection of additional data for FTMM-68 to NJDEP.
 - Submittal of the reports to NJDEP.
 - Preparation and submittal of the PP and DD.

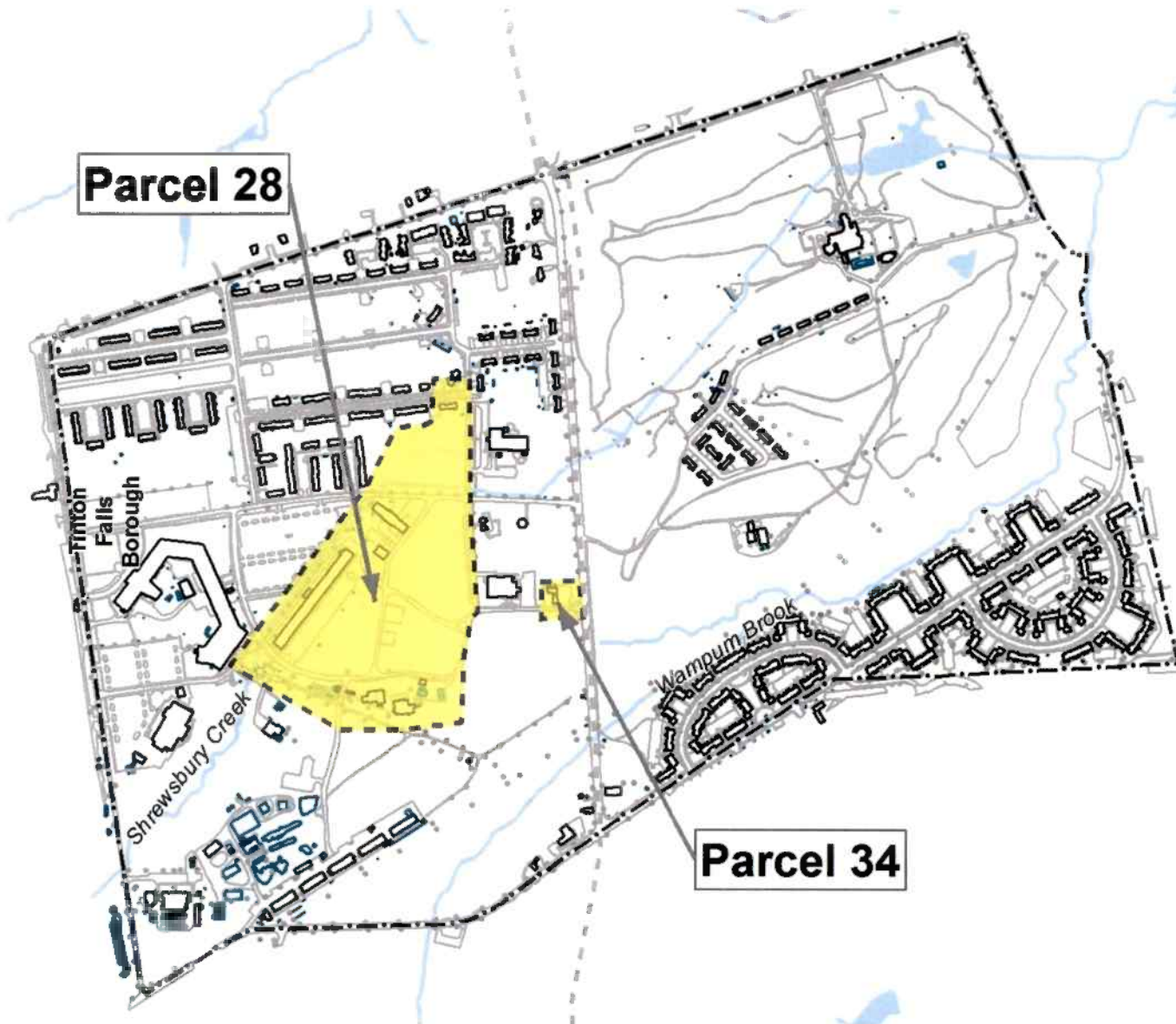
ECP Parcel Locations - Main Post

PARSONS



ECP Parcel Locations - CWA

PARSONS



ECP Parcel Status Overview

PARSONS

- **ECP Parcels**
 - NJDEP approved two ECP Work Plans for the collection of additional soil and groundwater data; data collection scheduled to begin March 28, 2016.
 - Sampling will be conducted at Parcels: -28, -34, -38, -49, -50, -51, -52, -69, -80, and -83.
 - Soil and groundwater sampling has been performed at Parcels-57 and -97 in October/December 2015.
 - Data indicates additional sampling necessary for Parcel-57 to determine extent of impacts in soil for PCBs.
 - Interim removal action (IRA) for PCB impacted soil completed at Parcel-97 substation. Further delineation of PCBs in soil necessary based on sample results.

ECP Parcel Status Overview (cont'd)

PARSONS

- No Further Action (NFA) requests submitted to NJDEP for the following parcels:
 - Parcel-28: NJDEP approved NFA for 3 leach fields and 16 UHOTs. Requires groundwater sampling at the former gasoline station.
 - Parcel-39: NJDEP approved NFA request.
 - Parcels-49 and -50: NJDEP agreed with NFA for 24 UHOTs.
 - Parcel-51: NJDEP is currently reviewing the Army's request for NFA on 80 UHOTs.
 - Parcel-53: NJDEP approved NFA request for 16 UHOTs.
 - Parcel-55 and -56 (800 Area): NJDEP approved NFA request for 16 UHOTs; 9 tanks require additional groundwater sampling.

ECP Parcel Status Overview (cont'd)

PARSONS

- Parcel-68: NJDEP approved NFA request for 13 of 14 UHOTs; one tank requires additional groundwater sampling.
- Parcel-74: NJDEP approved NFA request for 11 UHOTs.
- Parcel-76: NJDEP approved NFA request for 17 of 19 UHOTs; two tanks require additional groundwater sampling.
- Parcel-77: NJDEP approved NFA request for 2 UHOTs.
- Parcel-79: NJDEP approved NFA request for 36 UHOTs; 14 UHOTs and one above-ground tank farm require additional soil or groundwater sampling.
- Parcel-83: NJDEP approved NFA request for 35 UHOTs.

ECP Parcel Status Overview (cont'd)

PARSONS

- **Future Parcel Documents**
 - Submittal of Supplemental Work Plan for the collection of additional soil data at Parcels-57 and -97 to the NJDEP.
 - Submittal of responses to NJDEP comments and collection of additional soil or groundwater data for select UHOTs.
 - Preparation and submittal of Parcel Reports describing the field sampling results and recommendations.

Questions