## RECORD OF DECISION FOR SITES FTMM-28, FTMM-54, FTMM-55, FTMM-56, FTMM-61, FTMM-64, AND PARCEL 57 AT FORT MONMOUTH

MONMOUTH COUNTY, NEW JERSEY

September 2020



U.S. Corps of Engineers, New York District and

U.S. Army Engineering and Support Center, Huntsville, Alabama

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#### LIST OF ACRONYMS

ACRONYM	DEFINITION		
Army	U.S. Army		
bgs	below ground surface		
BRAC	C Base Realignment and Closure		
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Ac		
CFR	Code of Federal Regulations		
COC	contaminant of concern		
CWA	Charles Wood Area		
DERP	Defense Environmental Restoration Program		
DoD	Department of Defense		
FTMM	Fort Monmouth		
GWQS	Ground Water Quality Standard(s)		
HRC	Hydrogen Release Compound		
IGW	impact to groundwater		
MP	Main Post		
NCP	National Oil and Hazardous Substances Pollution Contingency Plan		
NFA	no further action		
N.J.A.C.	New Jersey Administrative Code		
NJDEP	New Jersey Department of Environmental Protection		
NRDCSRS	Non-Residential Direct Contact Soil Remediation Standard		
ORC			
PAH	polycyclic aromatic hydrocarbon		
PCB	polychlorinated biphenyl		
PCE	tetrachloroethene		
POL	Petroleum, Oil, and Lubricant		
RAWP	Remedial Action Workplan		
RCRA	Resource Conservation and Recovery Act		
R&D	research and development		
RDCSRS	Residential Direct Contact Soil Remediation Standard		
RI	Remedial Investigation		
ROD	Record of Decision		
SI	Site Investigation		
SL	screening level		
TCRA	Time Critical Removal Action		
TPH	total petroleum hydrocarbons		
U.S.C.	United States Code		
UST	underground storage tank		
UU/UE	unlimited use and unrestricted exposure		
VI	vapor intrusion		
VOC	volatile organic compound		

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## **SECTION 1 - DECLARATION**

#### 1.1 SITE NAME AND LOCATION

This Record of Decision (ROD) presents the selected remedy for seven sites located at Fort Monmouth (FTMM) in Monmouth County, New Jersey. FTMM was comprised of the Main Post (MP) and the Charles Wood Area (CWA). FTMM falls within the Boroughs of Eatontown, Oceanport, and Tinton Falls. The MP is located in the Eatontown and Oceanport Boroughs. The CWA is located in the Eatontown and Tinton Falls Boroughs. Sites FTMM-54, FTMM-55, FTMM-56, FTMM-61, FTMM-64, and Parcel 57 are located on the MP and FTMM-28 is located on the CWA.

#### **1.2 STATEMENT OF BASIS AND PURPOSE**

The U.S. Army (Army) is the lead agency for FTMM in accordance with the Defense Environmental Restoration Program (DERP) (10 U.S.C. §2701 et. seq.). New Jersey Department of Environmental Protection (NJDEP) is the state regulatory agency which administers the State's Site Remediation Program under the Technical Requirements for Site Remediation (New Jersey Administrative Code (N.J.A.C.) 7:26E). NJDEP, in consultation with the Army, made the final selection of the response action for sites FTMM-28, FTMM-54 (south of FTMM-18), FTMM-55, FTMM-56, FTMM-61, FTMM-64, and Parcel 57 after consideration of public input.

These sites are classified as Petroleum, Oil, and Lubricant (POL) Sites and therefore are exempt from the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA, 42 U.S.C. §§9601(14) and 9604(a)(2)) process. However, the Army's authority to investigate and remediate environmental contamination, as described in the DERP Manual (DoDM 4715.20, 9 March 2012), requires all such investigations and remedy selection processes be consistent with CERCLA. For POL sites, and other Resource Conservation and Recovery Act (RCRA) corrective action responses, the Department of Defense (DoD) interprets "consistent with" to mean public participation prior to remedy selection, as described in the National Oil and Hazardous Substances Pollution Contingency Plan (NCP 40 CFR Part 300). Parcel 57 also had a Time Critical Removal Action (TCRA), consistent with 40 CFR 300.415(b), which was necessary to address PAHs and PCBs in the site soil. The TCRA was completed in 2019 and remediated the site to levels that allow for unlimited use. The addition of Parcel 57 to this ROD completes the CERCLA documentation to select the actions under the TCRA as the final remedial actions for all hazardous substances, pollutants, or contaminants at the site and to complete the documentation for the prior POL response actions under the N.J.A.C.

The Army made the Proposed Plan for sites FTMM-28, FTMM-54 (south of FTMM-18), FTMM-55, FTMM-56, FTMM-61, and FTMM-64, consistent with 40 CFR 300.430(f)(2), available for public comment from August 10, 2020 through September 10, 2020. The Army subsequently amended the proposed plan to include Parcel 57 and the comment period was extended thru 28 September 2020. Comments (or lack of comments) on the Proposed Plan for the seven sites provided by stakeholders were evaluated and considered in selecting the final remedy. See responses to comments in Section 3 – Responsiveness Summary. The decision documented in this ROD is based on and relies on the Administrative Record file for FTMM.

#### 1.3 DESCRIPTION OF THE SELECTED REMEDY

Based on the results of multiple environmental investigations and reports, no further remedial actions are required for sites FTMM-28, FTMM-54 (south of FTMM-18), FTMM-55, FTMM-56,

FTMM-61, FTMM-64, and Parcel 57. Further investigation is not warranted for the following reasons: (1) the nature and extent of contaminants detected in soil and groundwater at the sites has been characterized; (2) no contaminants of concern (COCs) posing risks to human health were ever identified at the sites, or if identified are no longer COCs either through remediation or natural degradation; and (3) no further investigation or action (NFA) is recommended by the Army and agreed to by NJDEP. Therefore, NFA is required at sites FTMM-28, FTMM-54 (south of FTMM-18), FTMM-55, FTMM-56, FTMM-61, FTMM-64, and Parcel 57 and unrestricted land use is appropriate for these sites.

#### **1.4 STATUTORY DETERMINATIONS**

It has been determined that no further remedial action is necessary at sites FTMM-28, FTMM-54 (south of FTMM-18), FTMM-55, FTMM-56, FTMM-61, FTMM-64, and Parcel 57. Previous responses at the sites eliminated the need to conduct further remedial action. Because this remedy will not result in hazardous substances, pollutants, or contaminants remaining at the sites above levels that allow for unlimited use and unrestricted exposure (UU/UE), a five-year review will not be required.

#### **1.5 AUTHORIZING SIGNATURES**

Under the Defense Environmental Restoration Program (10 U.S.C. §2701 et. seq.), the Army is the lead agency responsible for implementation of the selected remedy, with support from the NJDEP. This signature page documents the Army's selected remedy, no further action. In addition, the NJDEP acceptance of the ROD is documented in their concurrence letters.

WILLIAMS.BRANDYE.LEIKESHA.1    Digitally signed by      WILLIAMS.BRANDYE.LEIKESHA.1119437756      Date: 2020.10.13 07:41:23 -04'00'		
Brandye L. Williams, Date		
COL, GS		
Chief, Army Environmental Division		
Office of the Deputy Chief of Staff, G-9		

## **SECTION 2 - DECISION SUMMARY**

#### 2.1 SITE NAME, LOCATION, AND DESCRIPTION

FTMM is located in the central-eastern portion of New Jersey in Monmouth County, approximately 45 miles south of New York City, New York, 70 miles northeast of Philadelphia, Pennsylvania, and 40 miles east of Trenton, New Jersey. The Atlantic Ocean is approximately 3 miles to the east. FTMM was comprised of two areas: the MP and the CWA, shown on **Figure 1**. FTMM's MP and CWA were selected for closure by the Base Realignment and Closure (BRAC) Commission in 2005, and officially closed on September 15, 2011.

This ROD addresses sites FTMM-28, FTMM-54 (south of FTMM-18), FTMM-55, FTMM-56, FTMM-61, FTMM-64, and Parcel 57. The locations of the sites are shown on **Figure 2**, except for FTMM-28 which is shown on **Figure 3**. Summary descriptions of the individual sites are presented in the following subsections. Detailed descriptions of each site, as well as a compilation of previous investigations and an evaluation of available analytical data collected from each site, can be found in the individual Underground Storage Tank (UST) Closure Site Investigation (SI) Reports, Remedial Investigation (RI) Reports, and Summary/Addendum RI Reports (**Table 1**).

Site	Document	
FTMM-28	SI – 1995 (Weston, 1995)	
	Weston Remedial Investigation Report, DERA Sites – April 1996 (NJDEP, 1996)	
	UST Closure and SI Report- May 2000 (ATC, 2000a)	
	UST Closure Report Addendum Letter – February 2002 (U.S. Army, 2002)	
	UST Closure Approval/NFA – January 2003 (NJDEP, 2003)	
	RI Report– January 2005 (Versar, 2005b)	
	RI Report Addendum – December 2010 (Tetra Tech, 2010)	
	NFA Letter/Unrestricted Use – April 2013 (NJDEP, 2012)	
FTMM-54	UST Closure and SI Report– 1996 (Smith, 1996)	
	UST Closure and SI Report – 2001 (Versar, 2001a)	
	UST Closure Approval/NFA – January 2003 (NJDEP, 2003)	
	Request for NFA for Groundwater – December 2014 (U.S. Army, 2014)	
	Summary RI Report – November 2015 (U.S. Army, 2015)	
	Unrestricted Use, Groundwater - February 2015 (NJDEP, 2015a)	
	Unrestricted Use, between Sherrill Ave and FTMM-18 – May 2016 (NJDEP, 2016a)	
	Request for NFA for Soil within FTMM-18 – May 2017 (U.S. Army, 2017d)	
	Re: Request for NFA for Soil within FTMM-18 – May 2017 (NJDEP, 2017d)	

#### Table 1 Site Documentation

FTMM-55	UST Closure and Site Investigation Report – October 1993 (Weston, 1993)
	Site/Remedial Investigation Report – July 1999 (SMC, 1999)
	UST Closure and Site Investigation Report – May 2000 (ATC, 2000b)
	UST Closure Approval/NFA – August, 2000 (NJDEP, 2000b)
	UST Closure and Site Investigation Report – May 2001 (Versar, 2001b)
	UST Closure Approval/NFA – January 2003 (NJDEP, 2003)
	UST NFA Approval – November 2015 (NJDEP, 2015b)
	Summary RI Addendum Report – September 2016 (U.S. Army, 2016)
	Unrestricted Use – November 2016 (NJDEP, 2016c)
FTMM-56	UST Closure and SI Report – July 1998 (ATC, 1998)
	UST Closure and SI Report – May 2000 (ATC, 2000c)
	UST Closure Approval/NFA – August, 2000 (NJDEP, 2000)
	Reduction of Groundwater Sampling Analyses – November 2004, (U. S. Army, 2004)
	Email to reduce Groundwater sampling – November 2004 (NJDEP, 2004)
	RI Report– January 2005 (Versar, 2005a)
	NFA for Soil – April 2008 (NJDEP, 2008)
	Annual (Fourth Quarter) 2015 Groundwater Sampling Report – September 2016 (Parsons, 2016)
	Approval of 2015 GW Report – November 2016 (NJDEP, 2016b)
	Summary RI Addendum Report – January 2017 (U.S. Army, 2017a)
	Unrestricted Use – May 2017 (NJDEP, 2017b)
FTMM-61	UST Closure and SI Report – September 1998 (SMC, 1998)
1 1101101-01	UST Closure and SI Report – October 2000 (Versar, 2000)
	UST Closure Approval – February 2000 (VEISA, 2000) UST Closure Approval – February 2000 (NJDEP, 2000a)
	UST Closure Approval/NFA – January 2003 (NJDEP, 2003)
	RI/RAWP – October 2005 (Versar, 2005c)
	Site Investigation – July 2008 (U.S. Army, 2008)
	Vapor Intrusion Site Investigation Report – January 2013 (AECOM, 2013)
	Approval of VI SI Report – July 2013 (NJDEP, 2013)
	Summary RI Report– April 2017 (U.S. Army, 2017c)
	Unrestricted Use – May 2017 (NJDEP, 2017c)
FTMM-64	RIR/RAWP – June 2001 (Versar, 2001c)
	Remedial Action Progress Report – December 2003 (Versar, 2003)
	Remedial Action Progress Report – September 2005 (Versar, 2005)
	Remedial Action Progress Report – July 2010 (VEETech, 2010)
	Baseline Groundwater Report – March 2013 (Parsons, 2014)
	Request for NFA for Groundwater – March 2017 (U.S. Army 2017b)
	NFA Groundwater – April 2017 (NJDEP, 2017a)
	Supplement to the RI Report – June 2018 (U.S. Army, 2018)
	Unrestricted Use – November 2018 (NJDEP, 2018)

Parcel 57	Spill and Site Remediation Update Report – February 1997 (U.S. Army, 1997) Site Investigation – July 2008 (U.S. Army, 2008)
	Interim Removal Action Report – October 2016 (Tetra Tech, 2016)
	Remedial Action Completion Report – July 2020 (AECOM, 2020)
	RI Report – July 2020 (Parsons, 2020)
	Unrestricted Use – August 2020 (NJDEP, 2020)

#### 2.2 SITE HISTORY AND ENFORCEMENT ACTIVITIES

Numerous investigations were conducted at sites FTMM-28, FTMM-54, FTMM-55, FTMM-56, FTMM-61, FTMM-64, and Parcel 57 over the past 35 years. Generally, these investigations are summarized in the most recent RI or other summary report for each site.

No enforcement activities have been conducted at the seven sites included in this ROD.

#### 2.2.1 FTMM-28

FTMM-28 is in the south-central portion of the CWA in the vicinity of former Building T-2044 and has an area of approximately 0.6 acre. The site is located in the southwest section of the CWA golf course (**Figures 3 and 4**). FTMM-28, also known as CW-6, included former Building T-2044 that was historically used to store and mix pesticides and herbicides. Nearby Buildings T-2070 and T-2071 were used to store golf course maintenance and landscaping equipment such as tractors and mowers. Storage or mixing of pesticides or herbicides was discontinued at FTMM-28 prior to 1995.

#### **2.2.2** FTMM-54 (south of FTMM-18)

FTMM-54, a former gasoline and diesel fuel distribution facility, is located in the central portion of the MP, north of Sherrill Avenue and south of Parkers Creek (**Figures 2 and 5**). FTMM-54 is associated with nearby Building 296 and has also been referred to historically as Building 296 or Site 296. Building 296 is near existing Buildings 145, 283, 288, 291, 292, 293, and 295, referred to collectively as the "Squier Hall Complex."

#### 2.2.3 FTMM-55

FTMM-55 is located in the north-central portion of the MP, north of Sherrill Avenue and south of Parkers Creek. FTMM-55 is associated with former Building 290 (Figures 2 and 6), which was near existing Buildings 145, 283, 288, 291, 292, 293, 295 and 296, referred to collectively as the "Squier Hall Complex." FTMM-55 (Building 290) was a former military vehicle repair and maintenance facility that included four USTs and a gasoline dispenser island. The site formerly served as a military motor pool. Building 290 was demolished in 2000.

#### 2.2.4 FTMM-56

FTMM-56 is in the eastern portion of the MP approximately 500 feet northwest of Oceanport Creek. The site is located north of Riverside Avenue and south of Building 166 and was also known as Site 80/166 because of the association with the former fuel oil USTs for Building T-80 (which has been demolished) and existing Building 166 (**Figures 2 and 7**). FTMM-56 is comprised of the former fuel oil tanks UST 166 and UST 80, and the associated groundwater monitoring wells. Prior to 2018 the site was used as a maintenance yard for FTMM.

#### 2.2.5 FTMM-61

FTMM-61 is located on the northern side of the central portion of the MP at FTMM at the intersection of Sherrill Avenue and Brewers Avenue, and approximately 200 feet south of Parkers Creek (**Figures 2 and 8**). FTMM-61 is associated with Building 283 Squier Hall and has also been referred to historically as Site 283. Building 283 is near existing Buildings 145, 288, 291, 292, 293, 295 and 296, referred to collectively as the "Squier Hall Complex." Building 283 functioned as the Squier Laboratory from 1934 to 1954 and then as administrative offices until FTMM closure in 2011.

#### 2.2.6 FTMM-64

FTMM-64, also known as Building 812 or Site 812, is approximately 2.75 acres and is located in the south-central portion of the Main Post. The site is bordered to the southeast by Stephenson Avenue, and to the north and west by Lane Avenue (**Figures 2 and 9**). Building 812 formerly served as the Army Community Center and was also a reported location of a former gas station.

#### 2.2.7 Parcel 57

Parcel 57 is located in the south-central portion of the Main Post. A coal storage area and fuel unloading area formerly existed along the former railroad corridor in the vicinity of Buildings 800, 801, and 1007 (**Figures 2 and 10**).

#### 2.3 COMMUNITY PARTICIPATION

A final Proposed Plan for sites FTMM-28, FTMM-54, FTMM-55, FTMM-56, FTMM-61, FTMM-64, and Parcel 57 was completed and released to the public in August/September 2020 by posting on the FTMM records website (<u>www.fortmonmouthrecords.com</u>), and by placement in the FTMM Environmental Restoration Public Information Repository (the Administrative Record) at the Monmouth County Library, Eastern Branch, 1001 Route 35, Shrewsbury, NJ 07702.

A newspaper notification was posted in the Asbury Park Press on August 10, 2020 (for FTMM-28, FTMM-54, FTMM-55, FTMM-56, FTMM-61, and FTMM-64) and September 21, 2020 (for Parcel 57) to inform the public of the start of the comment period and to solicit comments from the public. The public comment period was held from Monday, August 10, 2020 to Monday, September 28, 2020 during which no comments from the public were received.

#### 2.4 SCOPE AND ROLE OF RESPONSE ACTION

No further action is appropriate for sites FTMM-28, FTMM-54 (south of FTMM-18), FTMM-55, FTMM-56, FTMM-61, FTMM-64, and Parcel 57. Unrestricted land use (as represented by NJDEP residential criteria) allows for full use without restrictions.

#### 2.5 SUMMARY AND FINDINGS OF SITE INVESTIGATIONS

FTMM is situated on Coastal Plain deposits which are unconsolidated material that has not been cemented or compacted. Groundwater is typically encountered at the MP at depths of 2 to 9 feet below ground surface (bgs), and at depths of approximately 7 to 14 feet bgs at the CWA. New Jersey Ground Water Quality Standards (GWQS) classify groundwater at FTMM as Class II-A: potable water with secondary uses including agricultural and industrial (NJDEP, 2010).

There is no surface water or sediment within sites FTMM-28, FTMM-54, FTMM-55, FTMM-56, FTMM-61, FTMM-64, and Parcel 57. Additionally, nearby surface water and sediment that

were outside but near FTMM-28 and FTMM-61 were evaluated in the Baseline Ecological Evaluation and it was determined that no further action was appropriate for surface water and sediment. Therefore, no further action for surface water or sediment is required for any of the seven sites.

To determine the nature and extent of contamination at each POL site, detected concentrations of potential contaminants were compared to State (NJDEP) residential, non-residential, and Impact to Groundwater (IGW) screening criteria as well as FTMM-specific background concentrations for metals (Weston, 1995). NJDEP comparison criteria included:

- Residential Direct Contact Soil Remediation Standards (RDCSRS), Non-Residential Direct Contact Soil Remediation Standards (NRDCSRS), and IGW screening levels (SLs) for soils; and
- GWQS for groundwater.

The above criteria were used to identify those chemicals that are contaminants of concern (COCs). As described for each site (below), any contaminants that were once identified as COCs for sites FTMM-28, FTMM-54, FTMM-55, FTMM-56, FTMM-61, FTMM-64, and Parcel 57 have been further evaluated and/or remediated and determined to no longer be COCs, and NJDEP has agreed.

#### 2.5.1 FTMM-28 Environmental Investigations

Previous investigations at FTMM-28 included an SI (Weston, 1995), UST Closure and SI Report (ATC, 2000a), a UST Report Addendum (U.S. Army, 2002), an RI (Versar, 2005b), and an RI Report Addendum (Tetra Tech, 2010). Three USTs (one for fuel oil, one diesel, and one gasoline) were removed in December 1993. NJDEP (2003) agreed that all three USTs had been properly closed and that NFA was warranted.

Soil samples were collected from two borings near the pesticide storage area as part of the SI (Weston, 1995). Detected analytes in soil were less than the applicable NJDEP comparison criteria and no COCs were identified in soils. NJDEP (1996) agreed with the SI recommendations, which included additional long-term groundwater monitoring, but no additional measures for soils. Groundwater monitoring was conducted at four monitoring wells during 56 rounds of quarterly groundwater sampling at FTMM-28 from 1995 to 2010, and no COCs were identified in the groundwater (Versar, 2005b; Tetra Tech, 2010). Based on the results of this and previous sampling, NJDEP (2012) determined that unrestricted use and NFA was appropriate for FTMM-28.

#### 2.5.2 FTMM-54 Environmental Investigations

Previous investigations at FTMM-54 included UST Closure and Site Investigation Reports (Smith, 1996; Versar, 2001a), a Summary RI Report (U.S. Army, 2015), and additional delineation sampling. Twelve UST closures have been completed at FTMM-54. NJDEP (2003, 2016a) agreed that all 12 USTs and associated piping had been properly closed and that no further action was warranted. The Army (2015) recommended no further action for soil for the portion of FTMM-54 located south of the FTMM-18 site boundary and NJDEP (2016a) agreed with this recommendation. Additional soil samples were collected in 2016 and 2017 to delineate naphthalene detections in the portion of FTMM-54 north of the FTMM-18 site boundary (U.S. Army, 2017d). The only FTMM-54 soil with COCs was located within the FTMM-18 site

boundary and will be addressed by the engineering and institutional controls implemented for the FTMM-18 landfill.

Quarterly groundwater monitoring occurred at FTMM-54 from June 1994 to August 2011. The Army (2014) recommended no further action for FTMM-54 groundwater, excluding benzene in well 296MW06 which exceeded the NJDEP GWQS for benzene and is located within the FTMM-18 landfill, and so will be addressed within the FTMM-18 landfill remedy. NJDEP (2015a) agreed with this recommendation.

#### 2.5.3 FTMM-55 Environmental Investigations

Three UST Closure and Site Investigation Reports (each for a different UST) were prepared in 1993, 2000, and 2001 (Weston, 1993; ATC, 2000b; Versar, 2001b). An SI/RI Report was prepared in 1999 (SMC, 1999). Previous investigations were summarized in a Final Summary RI Addendum Report submitted to NJDEP (U.S. Army, 2016). Four UST closures were completed at FTMM-55 between 1991 and 1994: one waste oil UST, one diesel UST, and two gasoline USTs associated with Building 290. NJDEP (2000b, 2003, 2015b) agreed that all four USTs were properly closed and that NFA was warranted.

Additional soil samples were also collected in 2016 in the area of the diesel UST. Based on these sample results, soil concentrations were less than the applicable NJDEP comparison criterion, and NJDEP (2016c) agreed with the Army's recommendation of NFA. NJDEP (2016c) also agreed with the Army's recommendation to discontinue groundwater sampling after August 2013 and with the recommendation of NFA for groundwater.

#### 2.5.4 FTMM-56 Environmental Investigations

Previous investigations at FTMM-56 include UST Closure and SI Reports (ATC, 1998 and 2000c), an RI report prepared for Site 80/166 (Versar, 2005a) and a Summary RI Addendum Report (U.S. Army, 2017a). The two FTMM-56 fuel oil USTs were removed in 1994. The Army submitted two UST closure reports, and NJDEP (2000) agreed with the Army's recommendation of NFA.

NFA for FTMM-56 soils was approved by NJDEP (2008) based on the 2005 RI Report, and NFA for the entire FTMM-56 site was determined to be warranted by NJDEP (2017b) based on the findings of the Summary RI (U.S. Army, 2017a).

Following removal of the fuel oil tanks, two groundwater monitoring wells were installed in 1995. In July 2000 four additional groundwater monitoring wells were installed. Benzene, a-chlordane, g-chlordane, arsenic, and lead were past site COCs in groundwater. However, the Summary RI Addendum Report (U.S. Army, 2017a) demonstrated that there are no longer any groundwater COCs. NJDEP (2017b) agreed with the findings of the Summary RI Addendum and that NFA was warranted for FTMM-56.

#### 2.5.5 FTMM-61 Environmental Investigations

Previous investigations at FTMM-61 (also known as Site 283) included UST Closure and Site Investigation reports (SMC, 1998; Versar, 2000), an RI/Remedial Action Workplan (RAWP) (Versar, 2005c), and a Summary RI Report (U.S. Army, 2017c).\_All three USTs were removed from FTMM-61, including two fuel oil USTs and one gasoline UST. The two fuel oil USTs received approval for NFA from the NJDEP in February 2000 (NJDEP, 2000a) and May 2017 (NJDEP, 2017c) and the gasoline UST in 2003 (NJDEP, 2003).

Groundwater at FTMM-61 was evaluated through quarterly groundwater monitoring from September 1999 through February 2004, and benzene, ethylbenzene, total xylenes, and lead were identified as COCs. An Oxygen Release Compound (ORC) Advanced<sup>TM</sup> injection program was performed from 2009 to 2011 to reduce the concentrations of volatile organic compounds (VOCs) in groundwater. VOCs and lead concentrations decreased to non-detectable levels and the Army recommended the discontinuation of groundwater sampling at FTMM-61. NJDEP (2016b) subsequently concurred with this recommendation and agreed that NFA for FTMM-61 soil and groundwater was warranted (NJDEP, 2017c).

#### 2.5.6 FTMM-64 Environmental Investigations

Previous investigations at FTMM-64 include an RI/RAWP (Versar, 2001c), an NFA determination for groundwater (U.S. Army, 2017b), and a Supplement to the RI Report (U.S. Army, 2018).

Extensive soil investigations were conducted at FTMM-64 in 1999 and 2000 using a Geoprobe, and in 2010 as post-excavation sampling of an old pipeline. All of these soil sample results were re-evaluated using compliance averaging in 2018 to determine whether the current NJDEP cleanup criteria had been achieved at FTMM-64. The average lead and total petroleum hydrocarbons (TPH) concentrations were less than the applicable NJDEP cleanup criteria, and the NJDEP (2018) agreed with NFA for soils at FTMM-64.

Groundwater was evaluated further at FTMM-64 using 14 groundwater monitoring wells installed in 2000, and a Hydrogen Release Compound (HRC®) injection program was performed to address groundwater contamination from 2001 to 2005. Long-term groundwater monitoring continued until 2016, and tetrachloroethene (PCE), benzene and vinyl chloride were successfully reduced to less than the NJDEP GWQS by 2013. An NFA determination for groundwater (U.S. Army, 2017b) was agreed to by NJDEP (2017a), and then subsequently for all of FTMM-64 (NJDEP, 2018).

#### 2.5.7 Parcel 57

Previous investigations at Parcel 57 include a Spill and Site Remediation Update Report (U.S. Army, 1997), an SI (U.S. Army, 2008), and an RI Report (U.S. Army, 2020). Petroleumcontaminated soils were encountered during construction of the Commissary (Building 1007) in 1997. Approximately 4,000 cubic yards of petroleum-contaminated soil were removed from Parcel 57 in 1997. Soil samples collected during the 2007, 2010/2011, and 2015/2016 investigations were evaluated in the RI (U.S. Army, 2020). In 2016, an interim polychlorinated biphenyl (PCB) removal action was performed. In 2019, a Time Critical Removal Action (TCRA) was performed to remove polycyclic aromatic hydrocarbon (PAH) contaminated soil. The Army determined that NFA was warranted at Parcel 57 (U.S. Army, 2020) and NJDEP (2020) approved NFA for unrestricted use of Parcel 57.

During the 2015/2016 investigation two permanent monitoring wells were installed and six wells were sampled. Groundwater sampling results were evaluated in the RI and the RI concluded that NFA with regards to groundwater is warranted under CERCLA (U.S. Army, 2020) and NJDEP (2020) concurred with this decision.

#### 2.6 CURRENT AND POTENTIAL FUTURE LAND AND RESOURCE USES

#### 2.6.1 Current and Potential Land Use of the Seven Sites

Current land use of the seven sites include:

- FTMM-28: storage of golf course maintenance equipment;
- FTMM-54: unoccupied, with pavement and previously maintained landscaped vegetation;
- FTMM-55: unoccupied, with previously maintained landscaped vegetation and lawn;
- FTMM-56: unoccupied, previously a maintenance yard;
- FTMM-61: unoccupied, with previously maintained landscaped vegetation and lawn;
- FTMM-64: unoccupied, with pavement and previously maintained landscaped vegetation and lawn; and
- Parcel 57: unoccupied, with pavement and previously maintained landscaped vegetation and lawn.

Future land use of the seven sites include:

- FTMM-28: open space with the surrounding area anticipated to remain a golf course;
- FTMM-54: offices and research and development (R&D);
- FTMM-55: offices and R&D;
- FTMM-56: open space;
- FTMM-61: offices and R&D;
- FTMM-64: low density residential; and
- Parcel 57: low-to-medium density residential housing and some supporting retail, office, and civic/institutional uses (education-medical campus).

#### 2.6.2 Groundwater and Surface Water Uses

Neither groundwater nor surface water are used as a drinking water source at FTMM, because municipal water is provided for use. Surface water at FTMM is not currently used for recreational purposes.

#### 2.7 SUMMARY OF SITE RISKS

Any contaminants that were once identified as COCs for sites FTMM-28, FTMM-54 (south of FTMM-18), FTMM-55, FTMM-56, FTMM-61, FTMM-64, and Parcel 57 have been evaluated and/or remediated and determined to no longer be COCs. Therefore, soil and groundwater (there is no potentially impacted surface water or sediment) do not pose an unacceptable risk to human health and the environment for current and future intended land use.

#### 2.7.1 Ecological Risks

A Baseline Ecological Evaluation (Shaw, 2012) was performed and many of the sites were determined not to have environmentally sensitive natural resources. However, some of the sites

were determined to require additional evaluation through the Baseline Ecological Evaluation process based on the potential for contamination migration and impacts to ecological receptors. Of the seven sites in this proposed plan only FTMM-28 and FTMM-61 were determined to have the potential for impacts to ecological receptors. They were both evaluated further in the Baseline Ecological Evaluation and it was concluded that potential ecological effects were negligible. Therefore, additional ecological assessments at FTMM-28 and FTMM-61 were not warranted or recommended.

#### 2.8 DOCUMENTATION OF SIGNIFICANT CHANGES

The Proposed Plan for the seven sites was released for public comment in August 2020. A newspaper notification was posted in the Asbury Park Press on August 10, 2020 (for FTMM-28, FTMM-54, FTMM-55, FTMM-56, FTMM-61, and FTMM-64) and September 21, 2020 (for Parcel 57) to inform the public of the start of the comment period and to solicit comments from the public. The public comment period was held from Monday, August 10, 2020 to Monday, September 28, 2020 during which no comments from the public were received.

No changes occurred to the proposed remedy following the public comment period.

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## **SECTION 3 - RESPONSIVENESS SUMMARY**

#### 3.1 PUBLIC ISSUES AND LEAD AGENCY RESPONSES

The final component of the ROD is the Responsiveness Summary. The purpose of the Responsiveness Summary is to provide a summary of the stakeholders' comments, concerns, and questions about the selected response action for the seven sites and the Army's responses to these concerns.

Based on the lack of public comments, the community appears to be satisfied with the work the Army has performed and to be in support of the selected response action. All comments and concerns summarized below have been considered by the Army and NJDEP in selecting the final remedy for the seven sites.

A newspaper notification inviting public comment on the Proposed Plan appeared in the Asbury Park Press on August 10, 2020 and on September 21, 2020. The public notice summarized the Proposed Plan and the preferred alternative. The notice specified a public comment period as well as the address to which written comments could be sent. Public comments were accepted from August 10, 2020 to September 28, 2020. The newspaper notification identified the Monmouth County Library, Eastern Branch, 1001 Route 35, Shrewsbury, New Jersey 07702 as the location of the FTMM Environmental Restoration Program Information Repository. The newspaper notifications are included in Attachment 2. The public notice and Proposed Plan were also posted on the FTMM Environmental Restoration website.

# **3.1.1** Summary of Comments Received During the Public Comment Period on the Proposed Plan and Agency Responses

No comments were received during the public comment period.

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- NJDEP, 2016c. Remedial Action Type: Unrestricted Use, Scope of Remediation: Area of Concern FTMM 55 / Building 290, Monmouth County. November 29.
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## **ATTACHMENT 1**

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**Figure 1 – Fort Monmouth Location** 

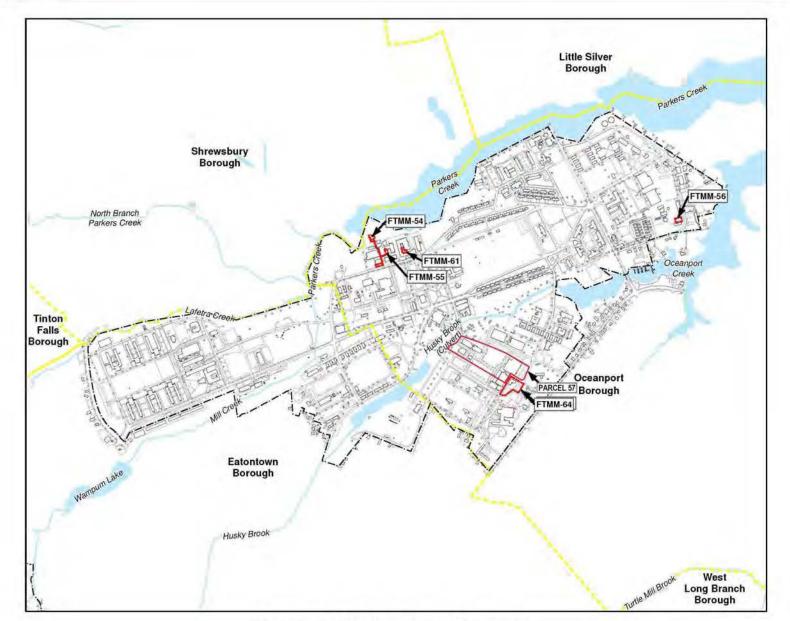
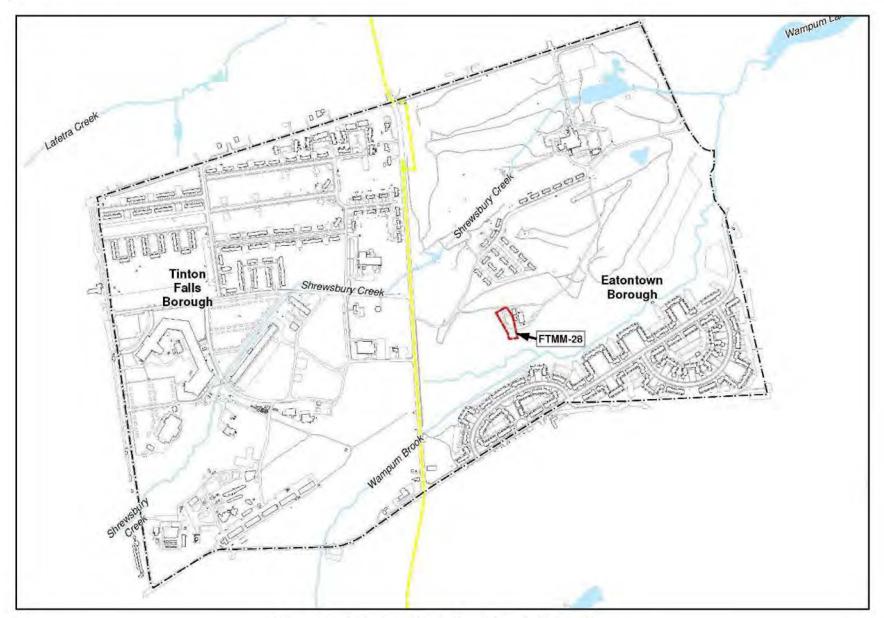
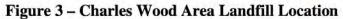


Figure 2 - Main Post Landfill Locations









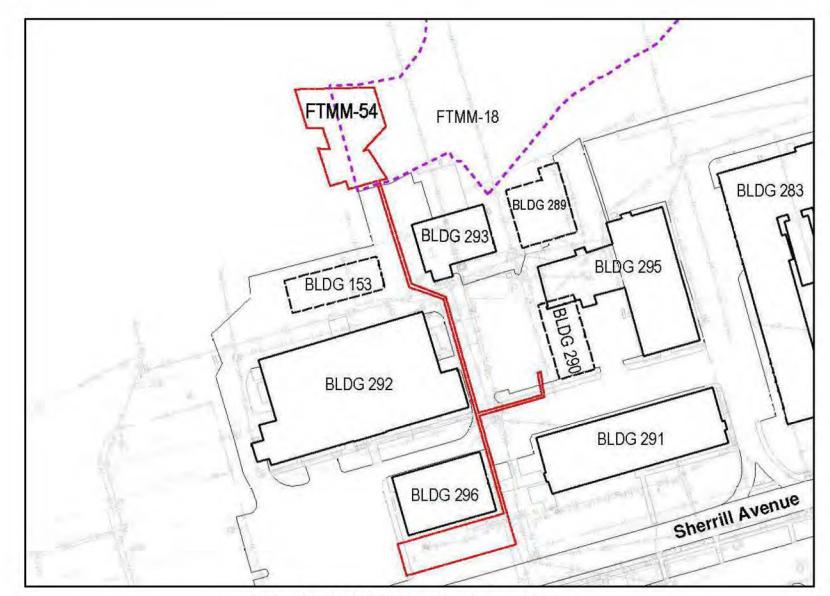


Figure 5 - FTMM-54 Site Boundary and Layout

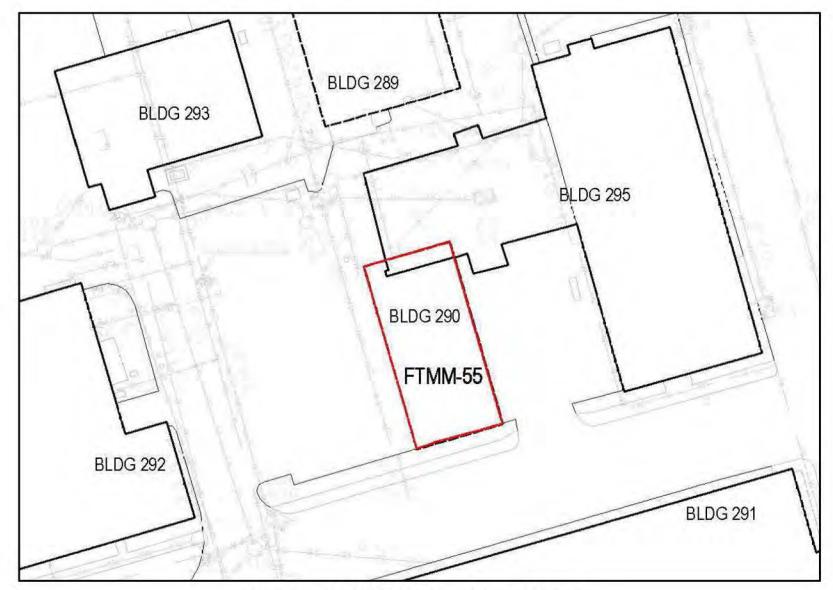


Figure 6 - FTMM-55 Site Boundary and Layout

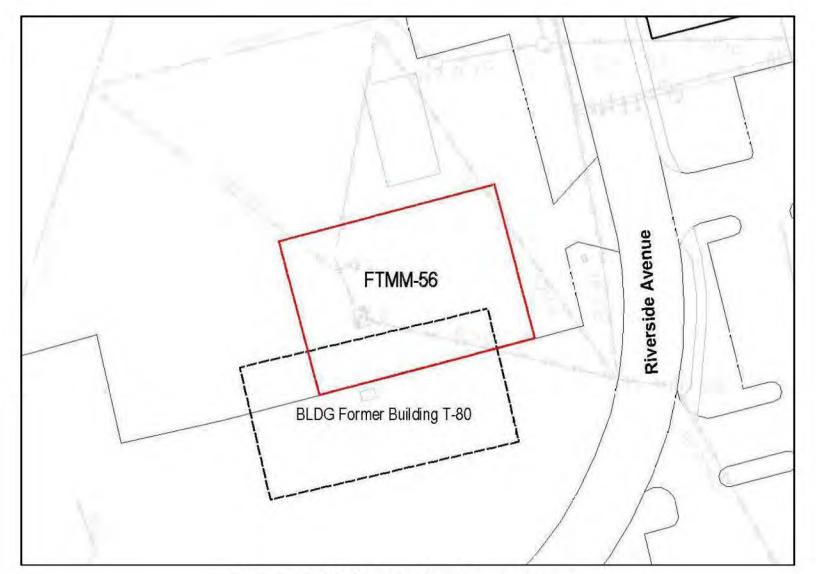


Figure 7 – FTMM-56 Site Boundary and Layout

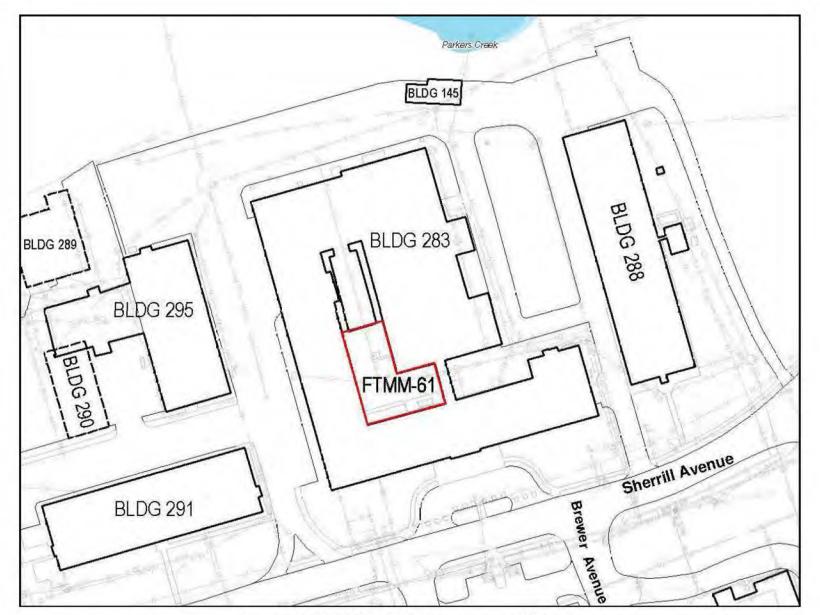
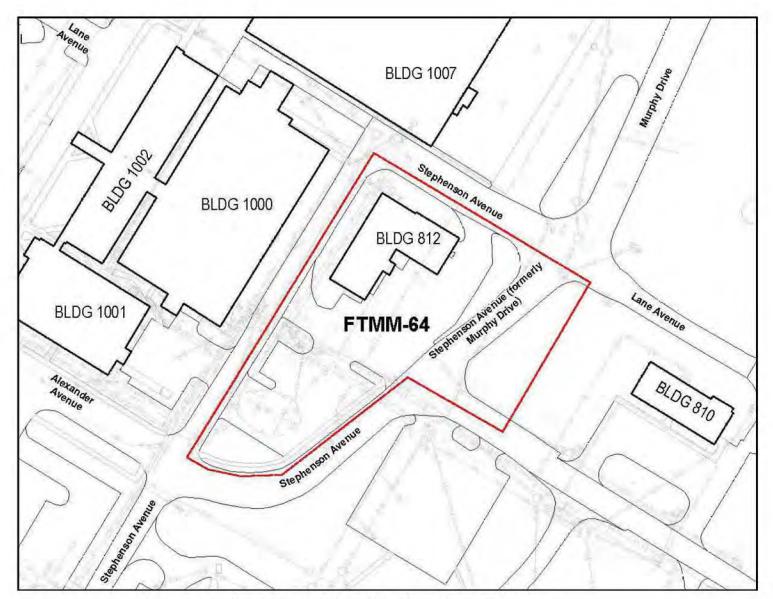
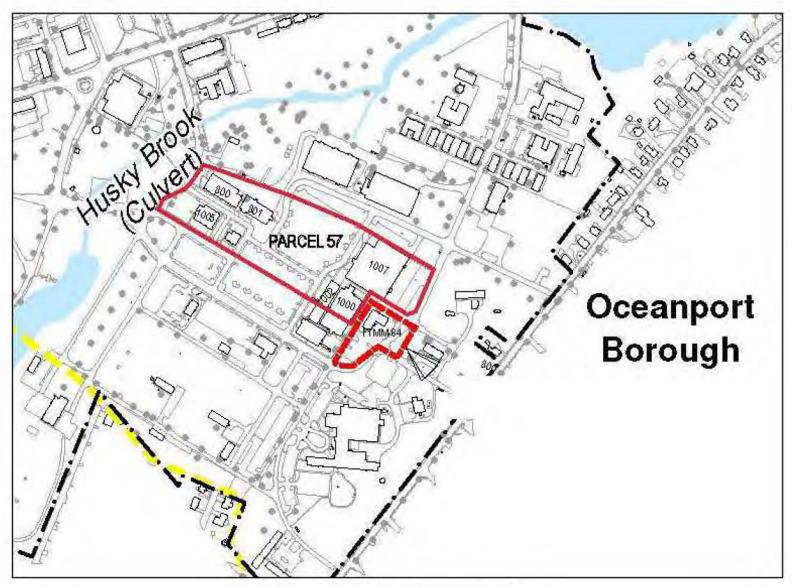


Figure 8 - FTMM-61 Site Boundary and Layout



#### Figure 9 - FTMM-64 Site Boundary and Layout





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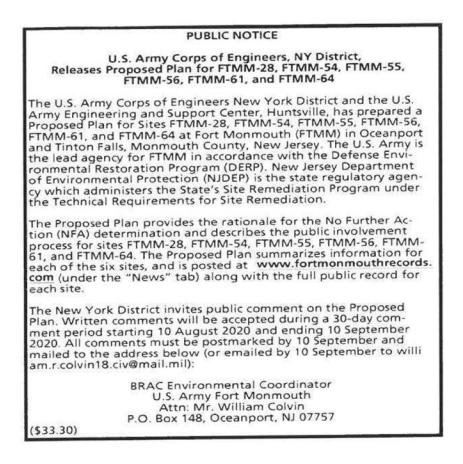
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#### PUBLIC NOTICE U.S. Army Corps of Engineers, NY District, Releases Revised Proposed Plan for FTMM-28, FTMM-54, FTMM-56, FTMM-56, FTMM-61, FTMM-64 and Parcel 57

The U.S. Army Corps of Engineers New York District and the U.S. Army Engineering and Support Center, Huntsville, has prepared a revised Proposed Plan for Sites FTMM-28, FTMM-54, FTMM-55, FTMM-56, FTMM-61, FTMM-64, and Parcel S7 at Fort Monmouth (FTMM) in Oceanport and Tinton Falls, Monmouth County, New Jersey. The U.S. Army is the lead agency for FTMM in accordance with the Defense Environmental Restoration Program (DERP). New Jersey Department of Environmental Protection (NJDEP) is the state regulatory agency which administers the State's Site Remediation.

The revised Proposed Plan provides the rationale for the No Further Action (NFA) determination and describes the public involvement process for sites FTMM-28, FTMM-54, FTMM-55, FTMM-56, FTMM-61, FTMM-64, and Parcel 57. The revised Proposed Plan summarizes information for each of the seven sites, and is posted at www.fortmonmouthrecords.com (under the "News" tab) along with the full public record for each site. The New York District invites public comment on the Proposed Plan.

The New York District invites public comment on the Proposed Plan. Written comments will be accepted during an extended comment period starting 10 August 2020 and ending 28 September 2020. All comments must be postmarked by 28 September and mailed to the address below (or emailed by 28 September to william.r.colvin18.civ@mail.mil):

BRAC Environmental Coordinator U.S. Army Fort Monmouth Attn: Mr. William Colvin P.O. Box 148, Oceanport, NJ 07757

(\$29.70)

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