



# FORT GEORGE G. MEADE

## Installation Restoration and Military Munitions Response Program

November 13, 2008





# Agenda



- **Active Environmental Restoration Sites – 9 sites**
- **New Environmental Restoration Sites – 2 sites**
- **New Environmental Restoration Activities – 4 sites**
- **Military Munitions Response Program Sites – 2 sites  
17 sites**
- **Contact Information**



# INSTALLATION BACKGROUND



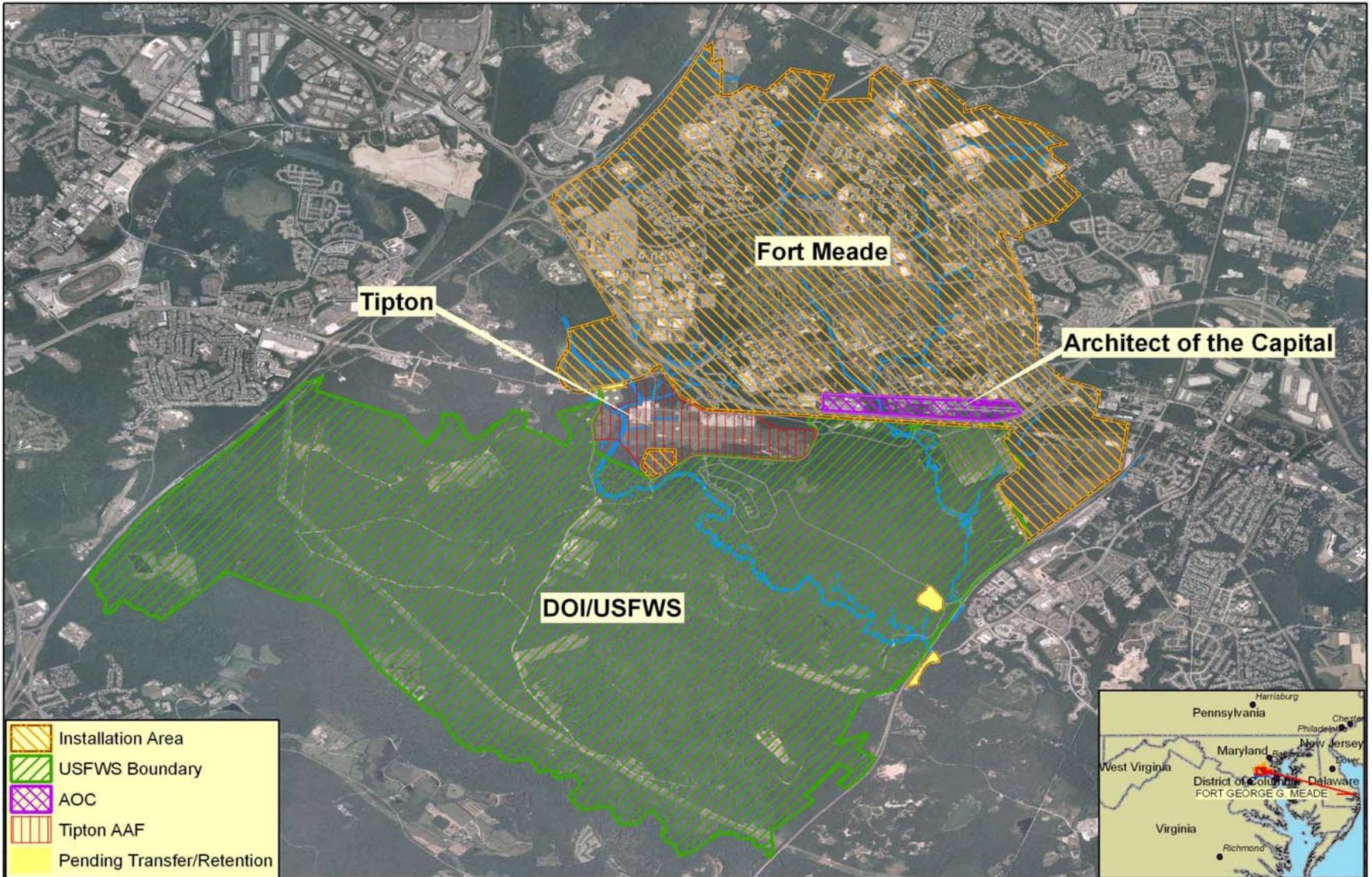
## History

- World War I Installation
- Pre-transfer (BRAC 1988) size: approximately 13,500 acres
- 8,398 acres to DOI by legislative mandate (1991-1993)
- 100 acres to Architect of the Capitol (AOC) by legislative mandate (1993)
- Fort Meade entered on National Priorities List (Jul 1998)
  - 4 sites scored (post laundry, Defense Reutilization Marketing Office (DRMO), closed sanitary landfill, and clean-fill dump)



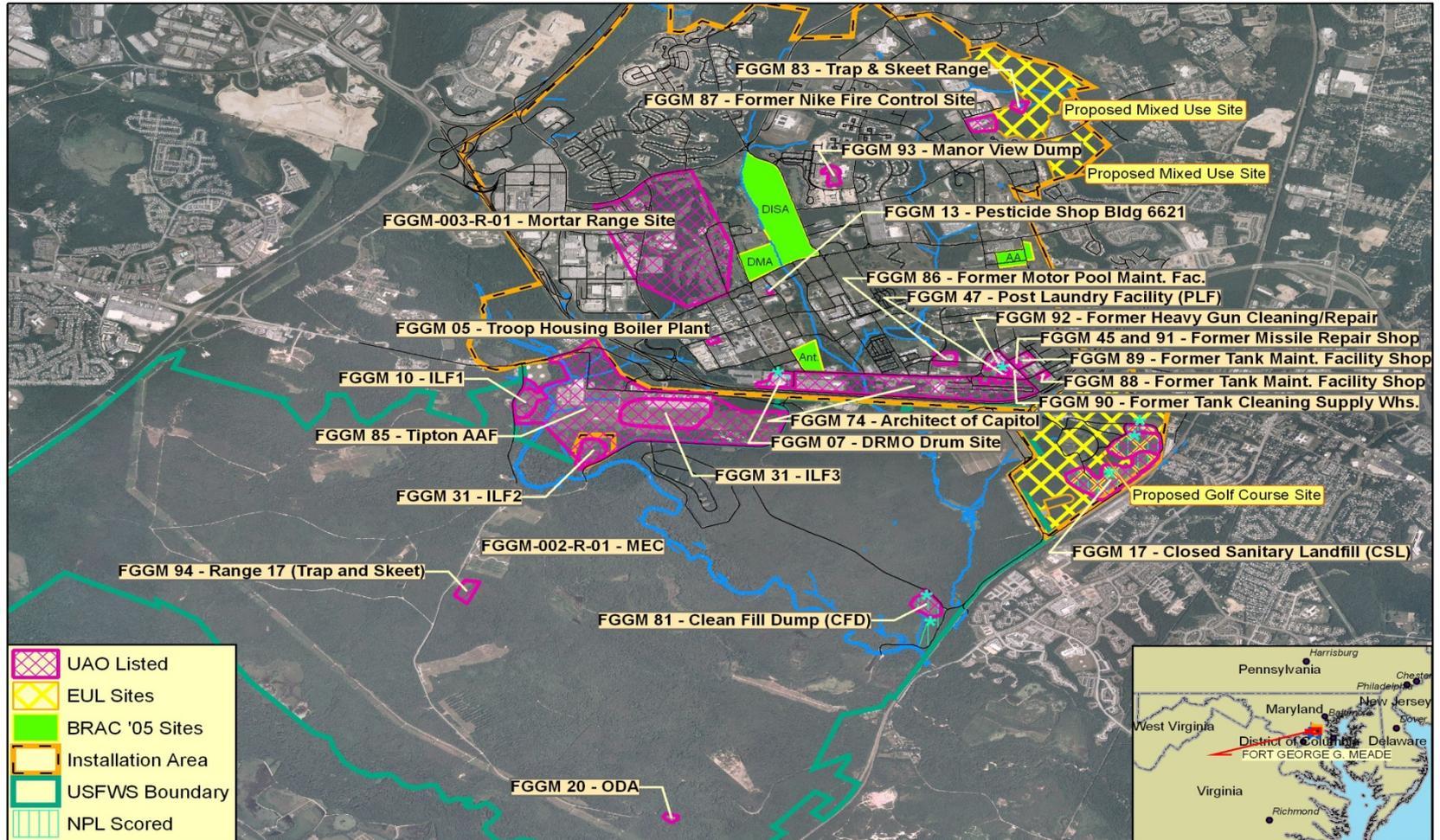
# FT George G. Meade

## Current and Former Properties

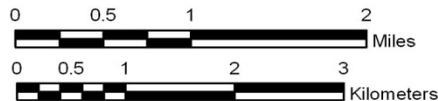


# FT George G. Meade

## UAO Listed and NPL Scored - Restoration Sites



Created by:  
Office of the Assistant Chief of Staff for Installation Management (OACSIM)  
Base Realignment and Closure Division (BRACD)  
Data Source: Geographic Information System Repository (GISR) & DAIM-ODB





# Active Environmental Restoration Sites





# Former Troop Housing Boiler Plant (Operable Unit 2) FGGM-05



- **Background**

- 1950's heating plant with above and below-ground fuel storage tanks
- 8 of 9 tanks removed (1 closed in-place) – 275 gals to 142,000 gals
- Since 1991, eight investigations conducted to assess release
- State-lead project (Oil Control Program)
- Over 35 wells

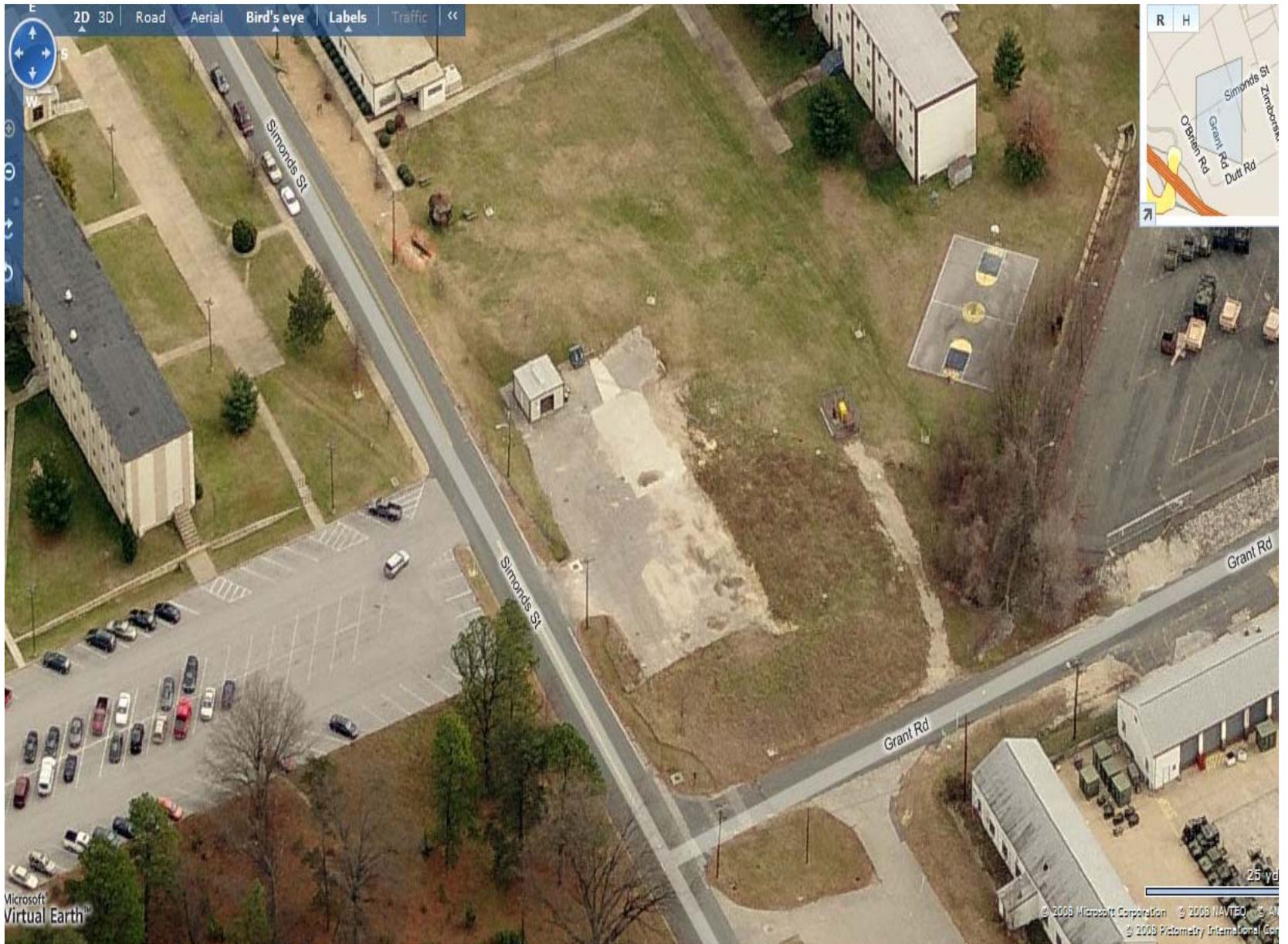
- **Status**

- Over 4,300 gallons of fuel recovered
  - Pump/treat, solar-powered skimmer, hand bailing, adsorbent socks
- Two small liquid-phase plumes on-site; no indication off-site
- Working with regulators to determine site close-out strategy

- **Milestones**

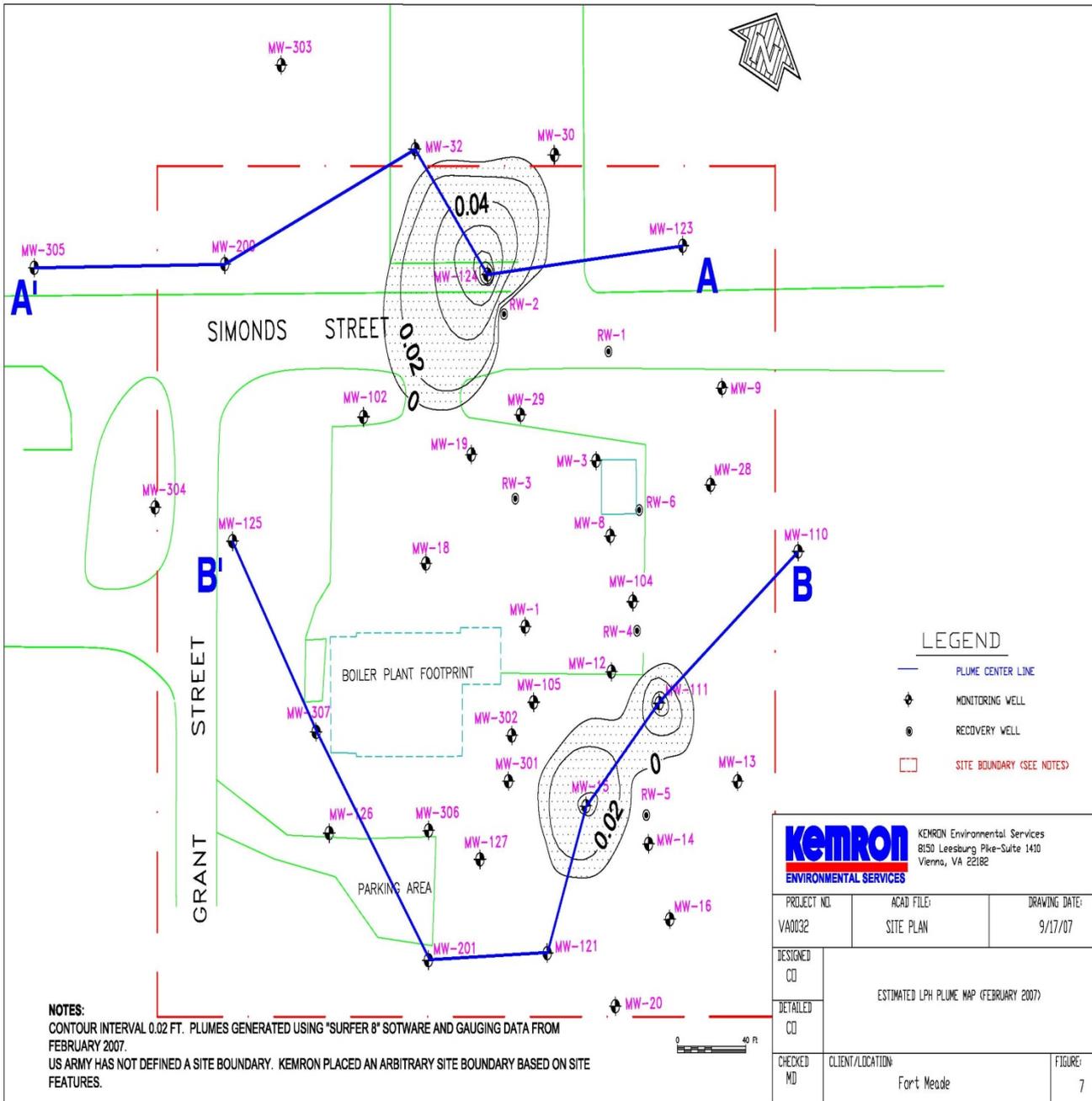
- Remedy in-place: FY97
- Response complete (RC): FY10





# Liquid-phase Hydrocarbon Plume Map

Maximum plume thickness – 0.1 ft (2007 data at MW-124)





# Defense Reutilization and Marketing Office (Operable Unit 5) FGGM-07



- **Background**

- 120 drums and approx. 4,000 tons of solvent contaminated soil removed
- Over 20 wells many dozens of borings advanced
- Tetrachloroethylene (PCE) in GW (max. concentration 128 micrograms per liter (ug/l) (2006 data) – Maximum contaminant level (MCL) – 5 ug/l
- PCE plume extends approx. 1 mile into Dept of Interior (DOI) property

- **Status**

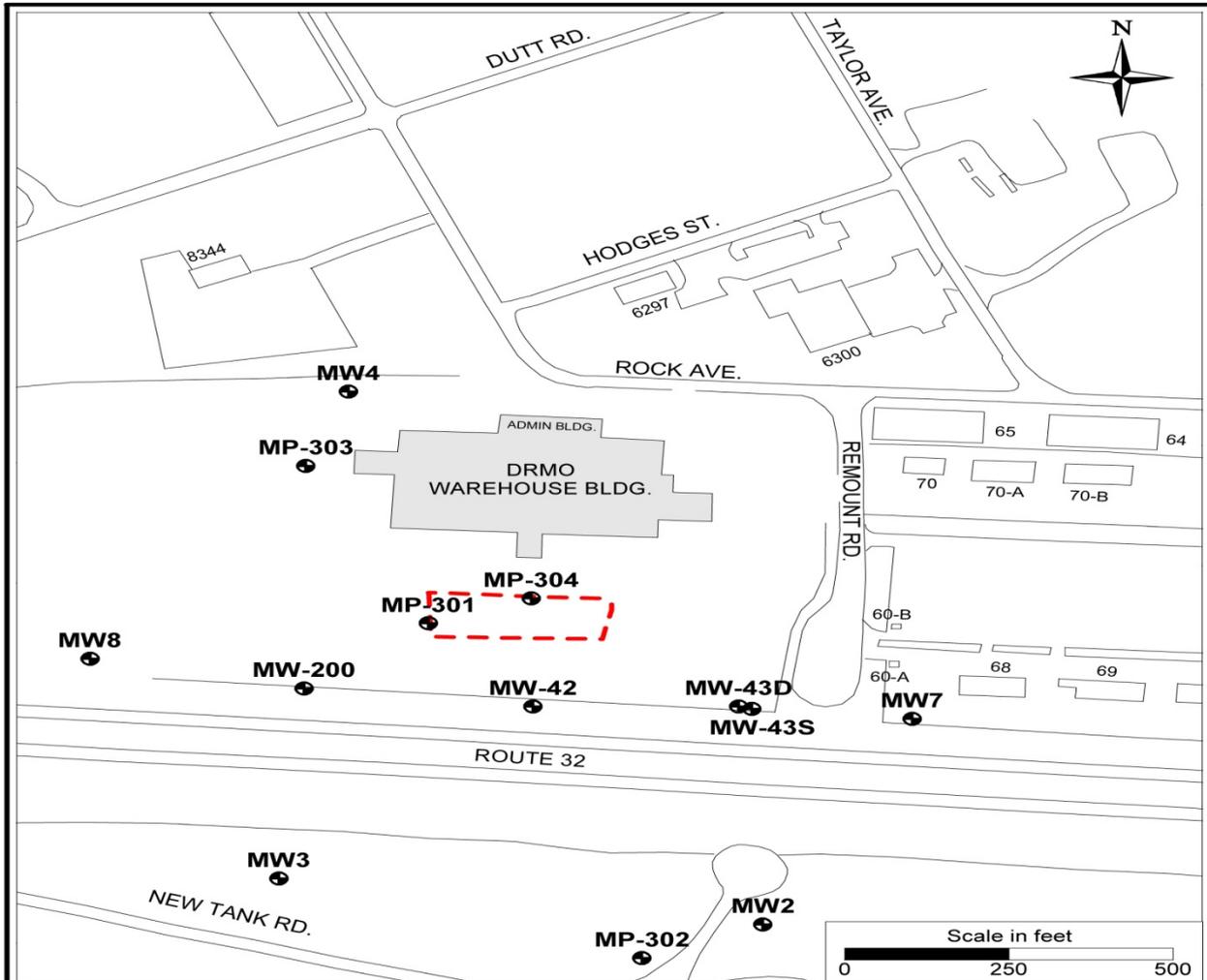
- Focused Feasibility Study proposed monitored-natural attenuation (MNA) and land-use controls (LUCs)
- Additional characterization proposed to address regulator comments
- Working with regulators and DOI on additional site characterization
- Meeting with Regulators on Dec 2, 08 to discuss path forward

- **Milestones**

- Remedy in-place: FY10
- Response complete (RC): FY11



# Source Area Removal Map



**LEGEND**  
 Monitoring Well Locations  
 Approximate location of former source area removed in 1995 (see FFS (2007))

**DEFENSE REUTILIZATION AND MARKETING OFFICE SITE**  
 FORT GEORGE G. MEADE  
 ANNE ARUNDEL COUNTY, MARYLAND

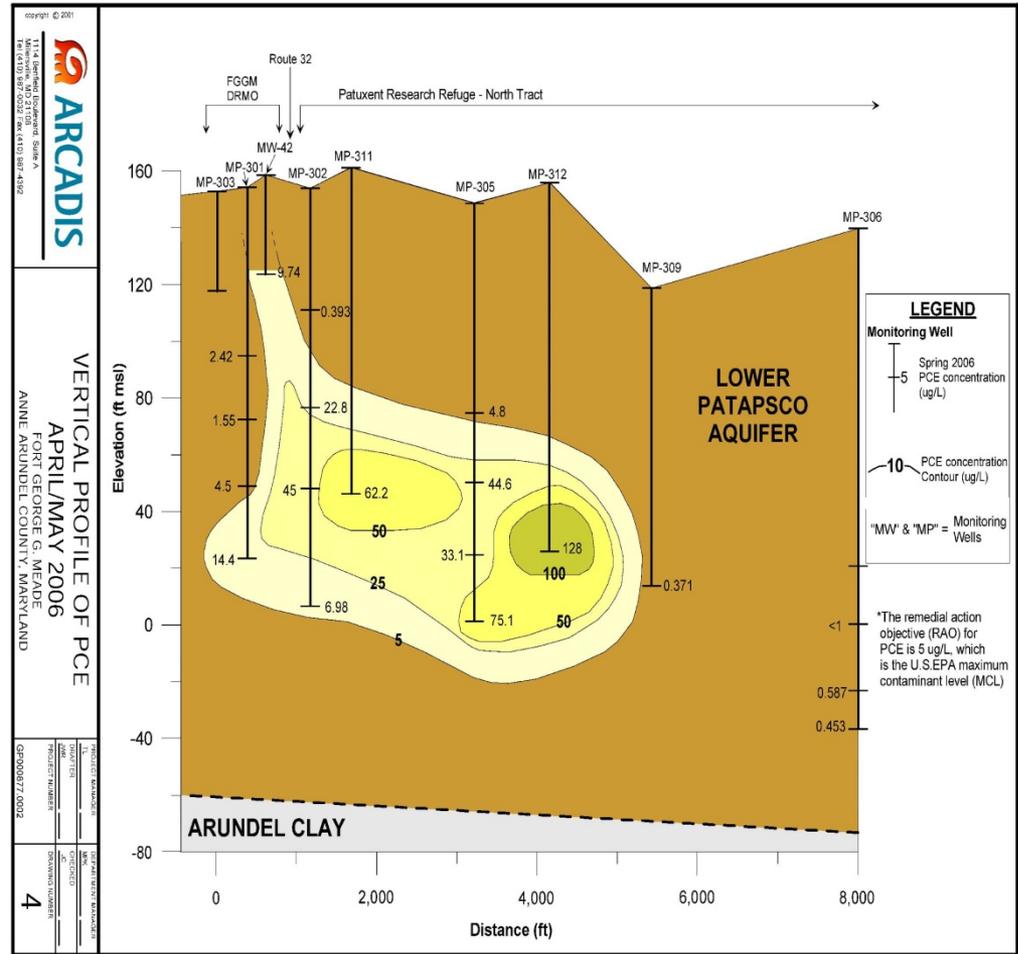
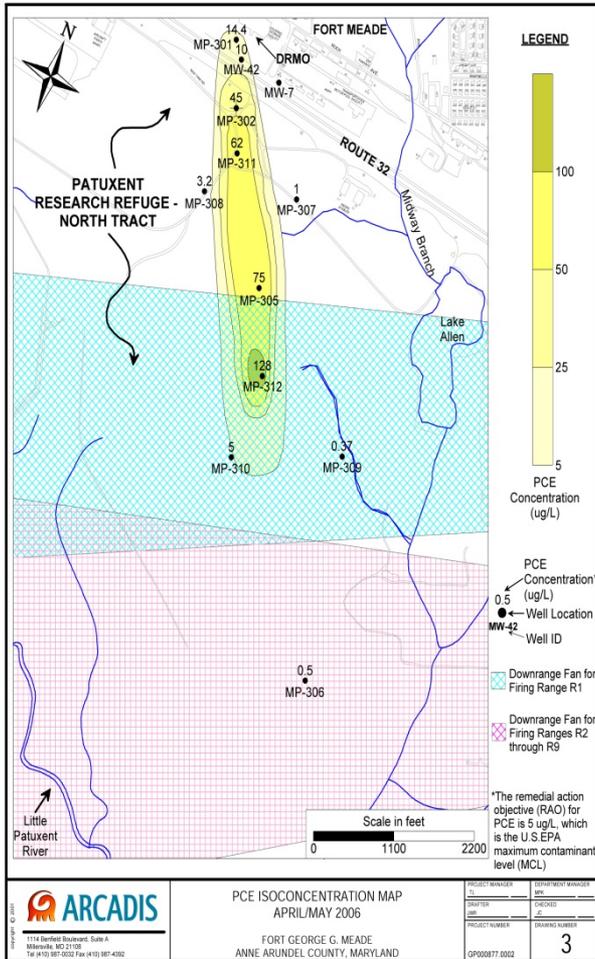
PROJECT MANAGER TL	DEPARTMENT MANAGER MPK
DRAFTER JWR	CHECKED JC
PROJECT NUMBER GP000877.0002	DRAWING NUMBER 2

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1114 Benfield Boulevard, Suite A  
 Millersville, MD 21108  
 Tel (410) 987-0032 Fax (410) 987-4392

# Tetrachloroethylene Plume





# Former Pesticide Shop FGGM-13



- **Background**

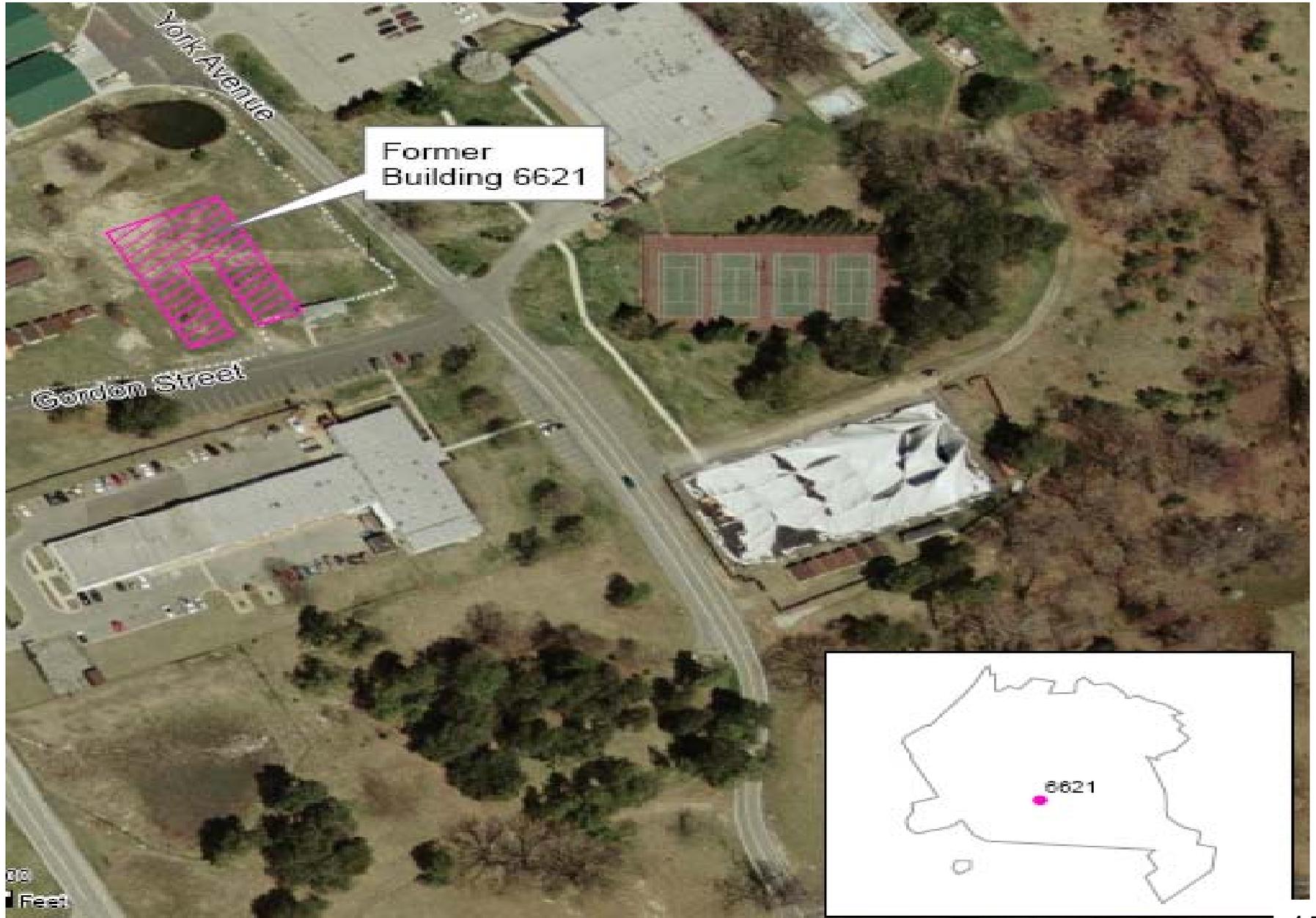
- Operational from 1958 to 1978, building demolished in 1996
- Four investigations conducted to assess site
- Soil contaminated with arsenic, chromium, and pesticides (chlordane)
- Groundwater contains chlordane (max. concentration 300 ug/l) – MCL is 2 ug/l
- 8 wells

- **Status**

- Remedial investigation underway
- Regulators require additional GW delineation work
- Four additional groundwater wells to be installed – FY09
- Feasibility study planned - FY09
- Anticipate soil removal and groundwater remedy

- **Milestones**

- Remedy in-place: TBD
- Response complete: FY12



**Legend**

- Former Building 6621
- Former Pesticide Operations Areas

53 Chlordane Concentration (mg/kg)

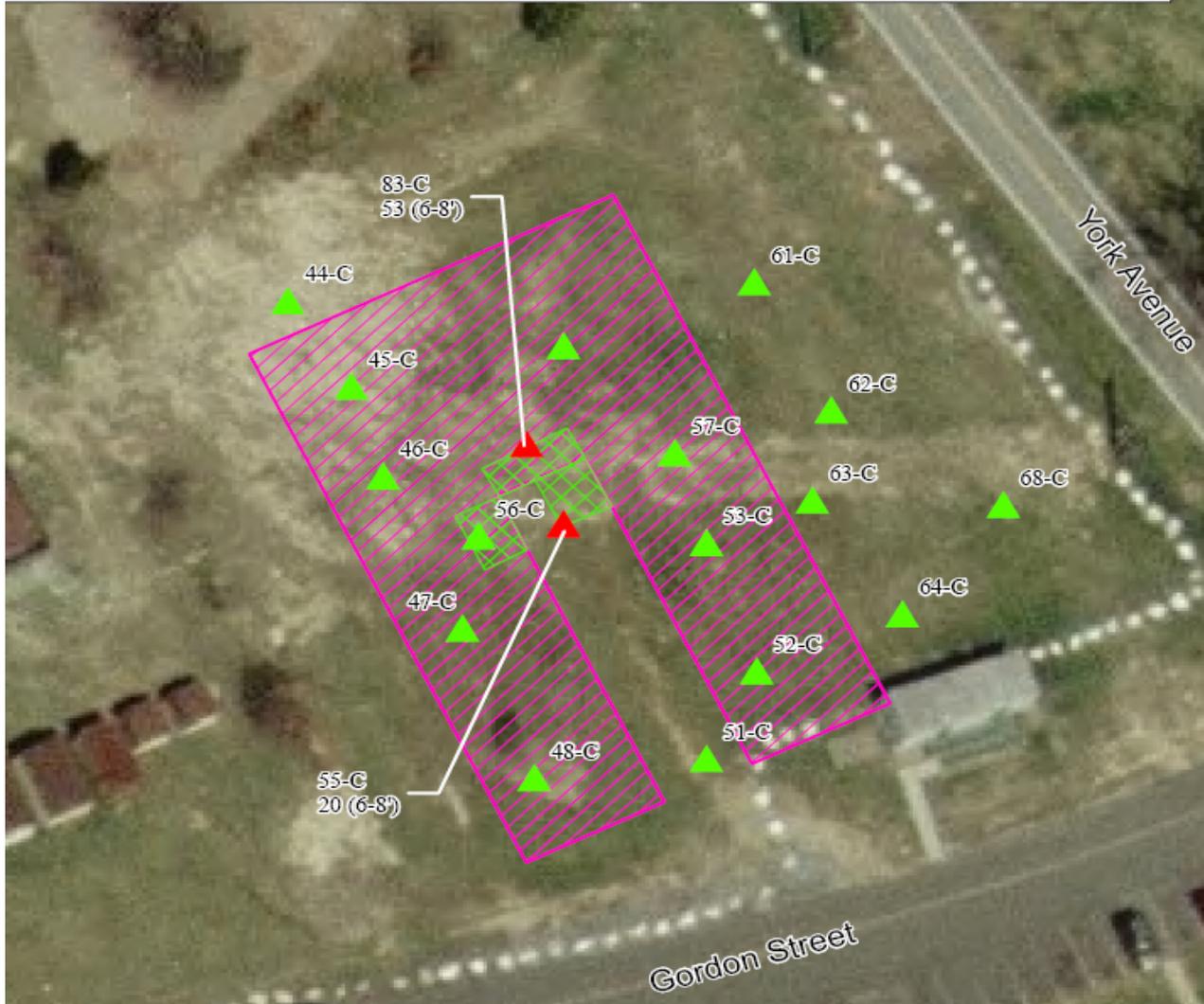
53 (6-8') Chlordane Concentration (mg/kg) and Sampled interval (feet bgs)

**URS Locations**

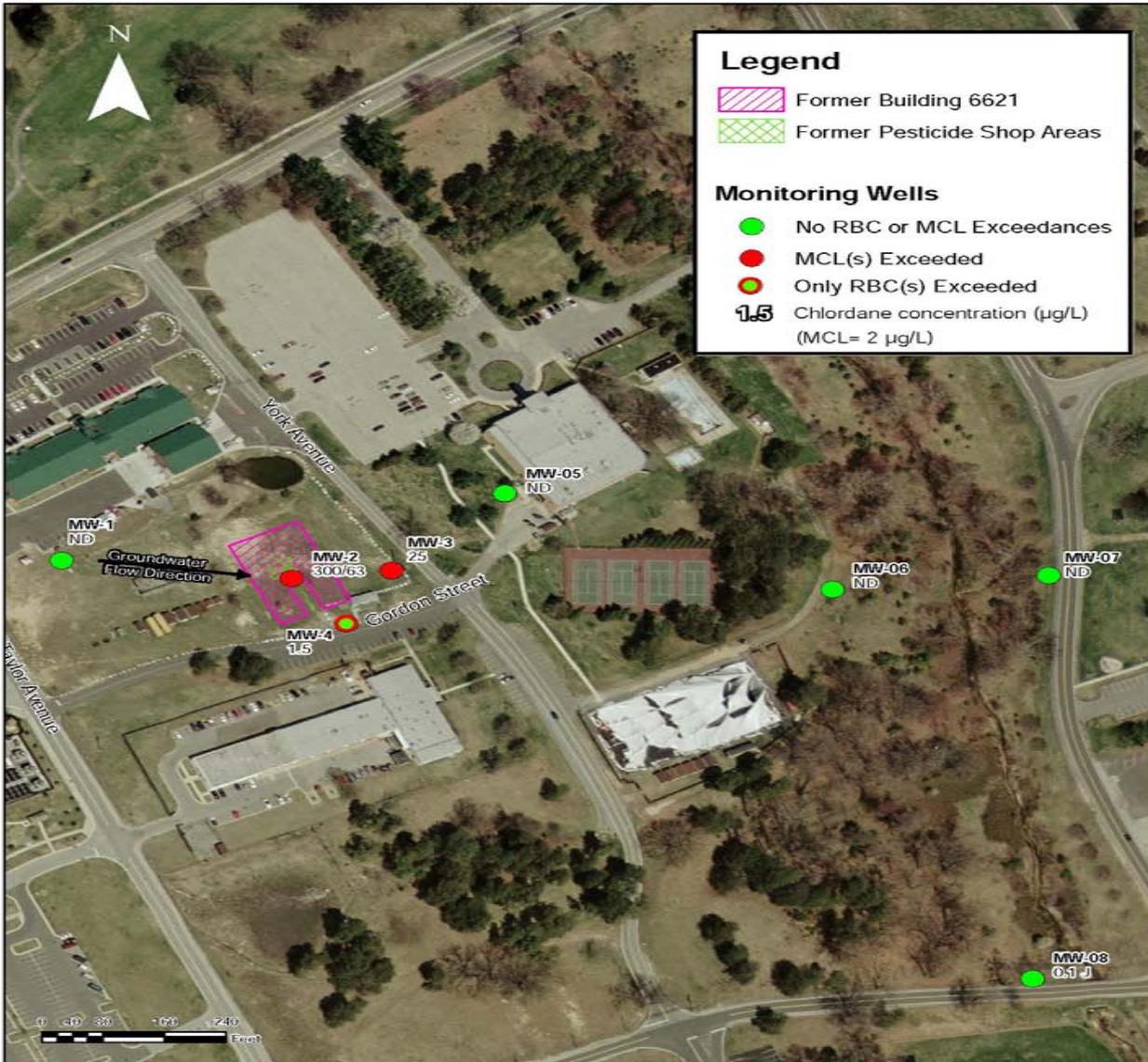
- No RBC(s) Exceeded
- Residential RBC(s) Exceeded
- Industrial RBC(s) Exceeded

**Historical Locations**

- No RBC(s) Exceeded
- Residential RBC(s) Exceeded
- Industrial RBC(s) Exceeded



# Soil Pesticides Screening (6-8')



**Legend**

- Former Building 6621
- Former Pesticide Shop Areas

**Monitoring Wells**

- No RBC or MCL Exceedances
- MCL(s) Exceeded
- Only RBC(s) Exceeded

**1.5** Chlordane concentration ( $\mu\text{g/L}$ )  
(MCL= 2  $\mu\text{g/L}$ )

# Monitoring Well Location Map

- On-site wells – temporary
- Off-site wells - permanent
- Additional wells required

CLIENT FORT MEADE				TITLE Groundwater Pesticide Screening Results			
PROJ Pesticide Building 6621							
REVISION NO	3	DES BY	MJV	01/22/07	PROJ NO	15297463	
SCALE	1" = 80'	DR BY	MJV	01/22/07	FIGURE	1-10	
D:\T\Meade\Project\6621\Fig 1-10 Groundwater Pesticide Screening_20071101.mxd				CHK BY	BE	07/20/07	
						200 Orchard Ridge Drive Gaithersburg, MD 20878	



# Closed Sanitary Landfill FGGM-17



- **Background**

- Operational from 1958 to 1996 (residential and non-hazardous wastes)
- Closures (caps/liners) – 1995 to 1998
- Shallow aquifer (benzene) & deep aquifer (PCE & CCl<sub>4</sub>)
- Max concs. (04) – Benzene (10.4 ug/l), PCE (19.2 ug/l) CCl<sub>4</sub> (61.5 ug/l)
- Deep aquifer is potable resource (potential off-Post impacts)
- Remedial Investigation report finalized in 2007
  - MDE comments require source and leading edge delineation and new GW flow rates
  - EPA comments pending
  - Army to address in future project

- **Status**

- Groundwater monitoring & active methane collection ongoing
- Monthly groundwater level gauging, including off-Post wells, ongoing
- Remedial investigation ongoing, feasibility study proposed (FY09/10)

- **Milestones**

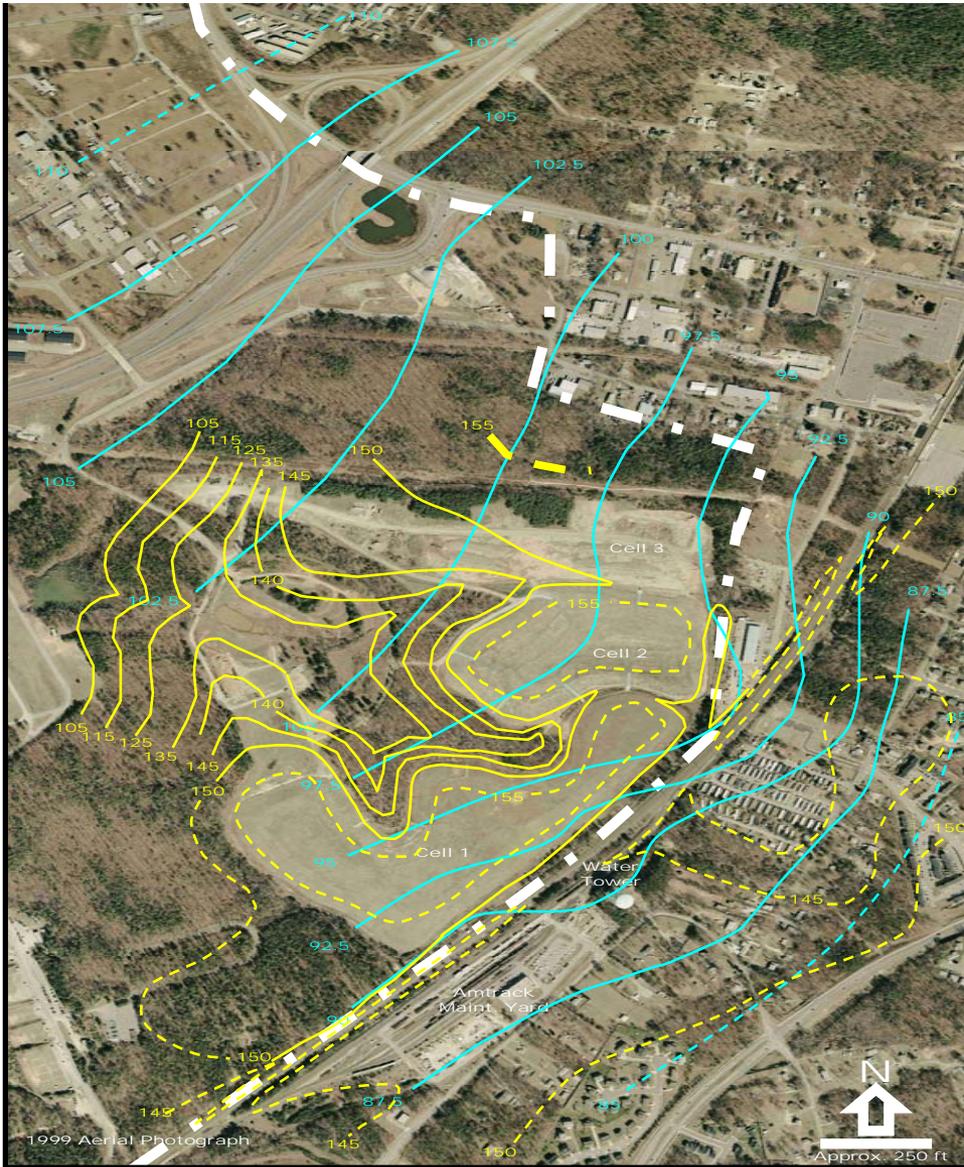
- Remedy in-place: TBD
- Response complete: FY10





## Closed Sanitary Landfill Cell Configuration

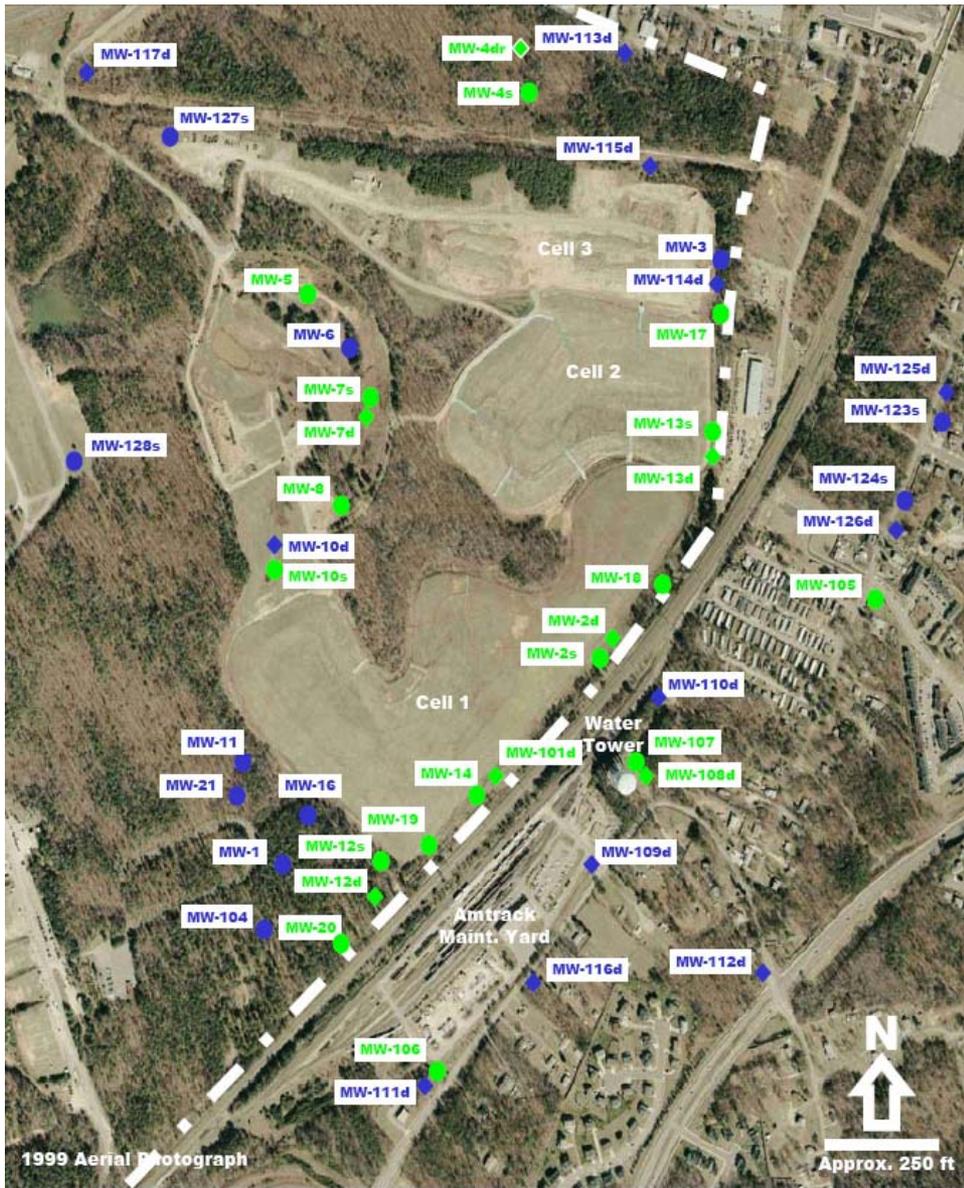
# Groundwater Elevations for the Upper and Lower Patapsco Aquifers Based on Data From 2004 (CERCLA Program)



Water Levels Measured during June 2004 Sampling Event in ft-msl

- Deep (Lower Patapsco Aquifer) Groundwater (contours are dashed where inferred)
- Shallow (Upper Patapsco Aquifer) Groundwater (contours are dashed where inferred)

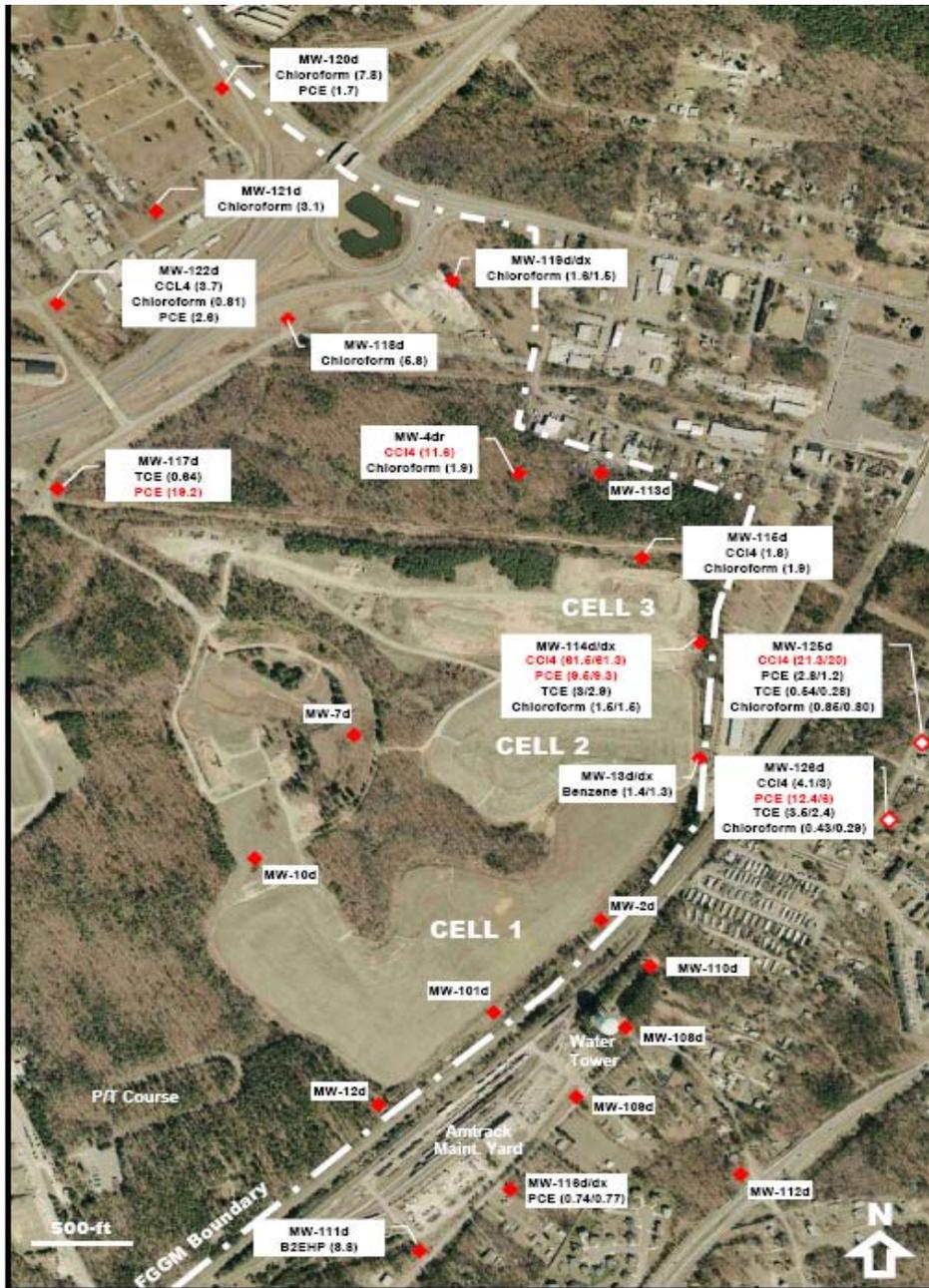
# Monitoring Well Location Map (CERCLA and RCRA Programs)



- ◆ Deep Monitoring Well\*
- Shallow Monitoring Well\*
- \*Green indicates RCRA program monitoring well
- \*Blue indicates other program monitoring well



# 2004 Volatile Organic Results for the Lower Patapsco Aquifer (CERCLA Program)



Exceedances shown in red

MCL for (PCE) - 5 ug/l  
MCL for CCl4 - 5 ug/l





# Former Post Laundry (Operable Unit 4) FGGM-47, 83, 86, 88, 98, 90, 91, and 92



- **Background**

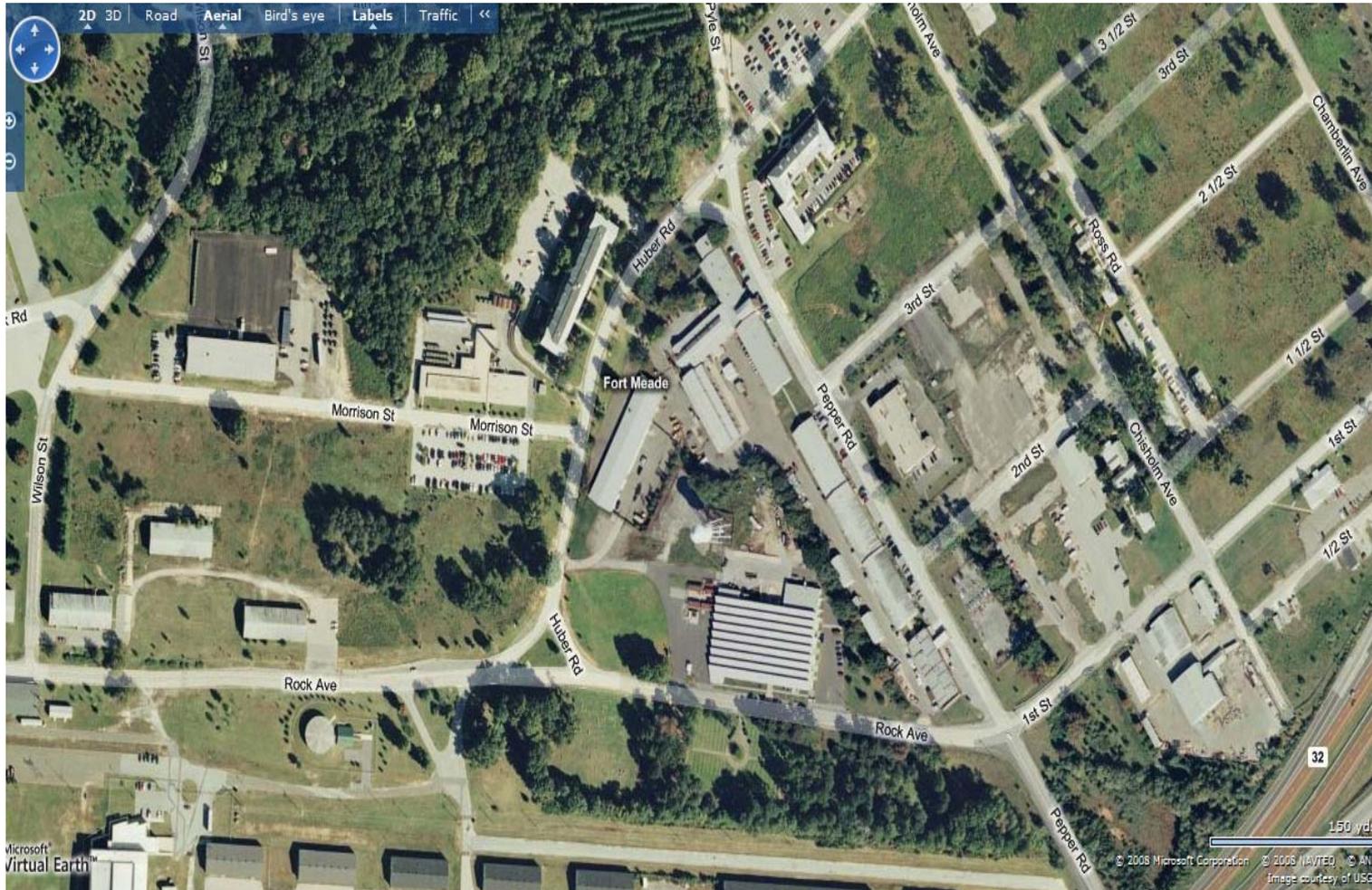
- Seven former industrial sites (laundry & gun/tank/missile repair shops)
- Two comingled PCE and trichloroethylene (TCE) groundwater plumes
- Maximum PCE concentration 4,260 ug/l (2006); MCL – 5 ug/l
- Plumes impact AOC and potentially the closed-sanitary landfill and off-Post locations

- **Status**

- Remedial investigation/feasibility study ongoing
- Additional wells to assess shallow/deep relationship under consideration
- Probable active remedy with MNA & land-use controls; vapor intrusion proposed
- off-Post locations to be assessed

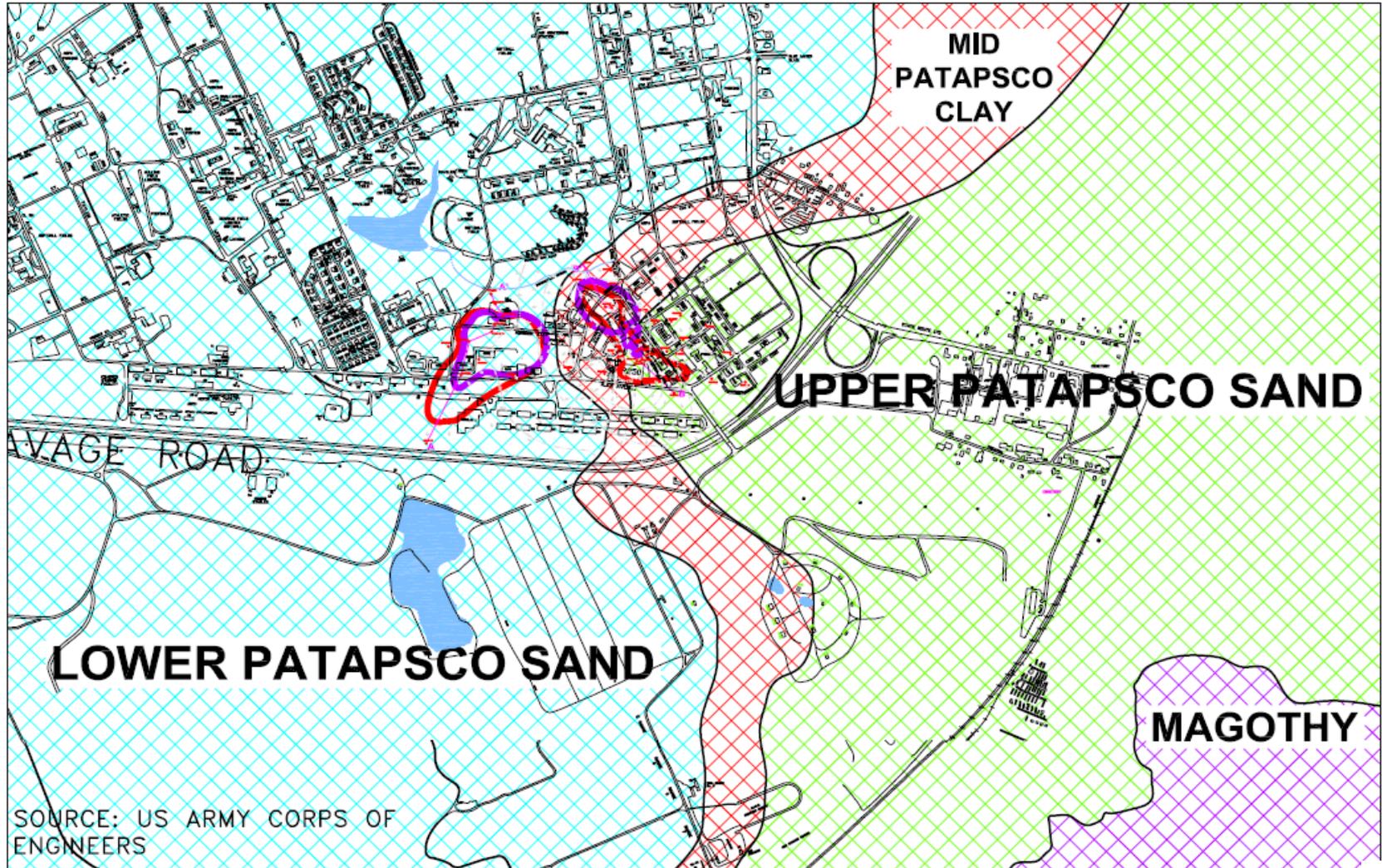
- **Milestones**

- Remedy in-place: FY11
- Response complete: FY15





# Mid-Patapsco Clay Outcrop





# Architect of the Capitol FGGM-74

- **Background**

- Former warehouse facilities (100 acres)
- Railroad (abandoned and owned by the State) divides the property
- Transferred to AOC in October 1993 by legislation
- Three arsenic (max conc.-89 mg/kg) and two lead (max conc.-5,220 mg/kg) hotspots in soil
- GW impacted by PCE (max conc. Est – 5ug/l) and CCl4 (max conc. 9.9 ug/l)

- **Status**

- Remedial investigation underway
- Army formulating response to As and Pb hotspots and groundwater impacts
- Working with regulators and AOC to resolve their comments

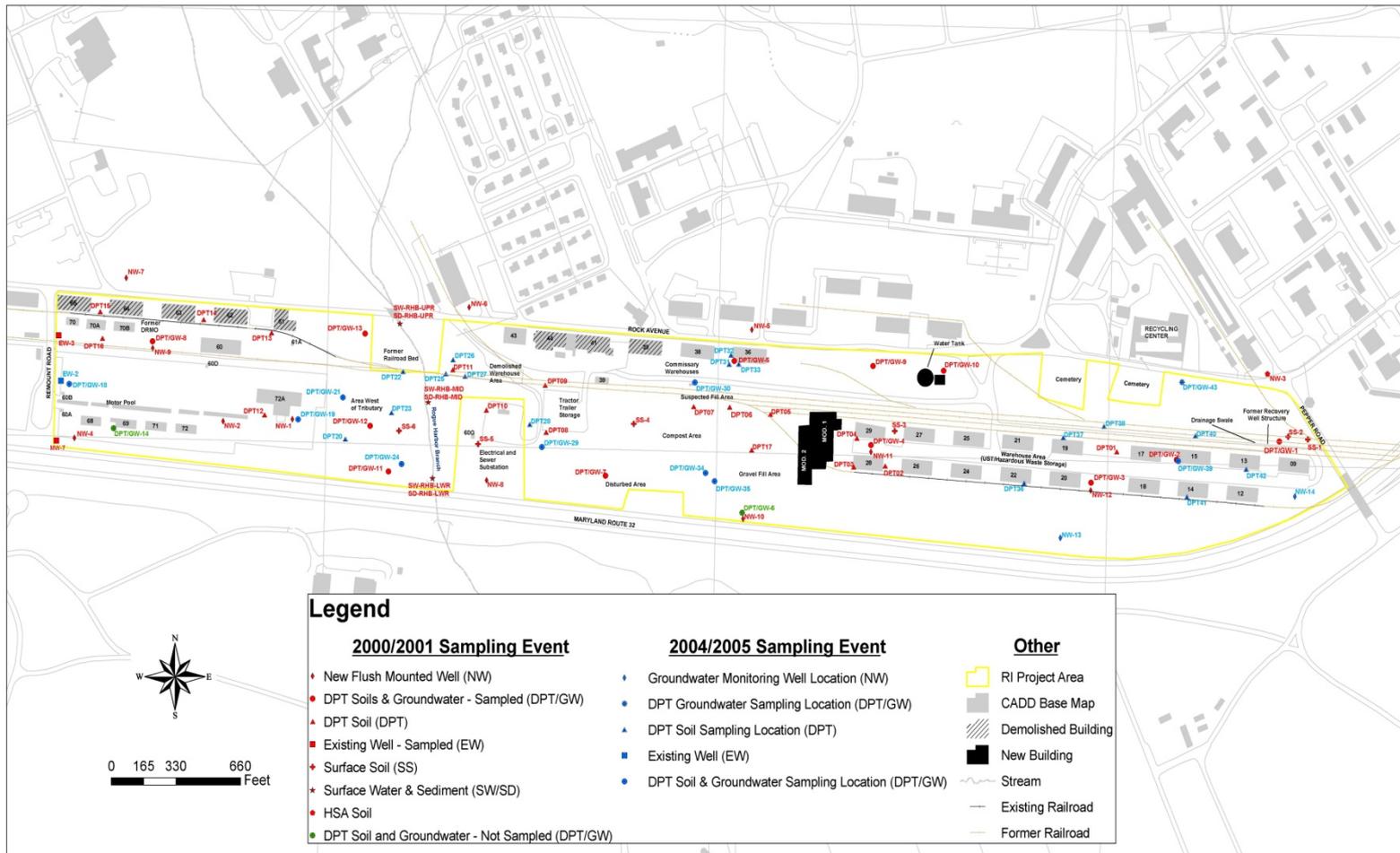
- **Milestones**

- Remedy in-place: NA
- Response complete: FY10

The mean background value for Eastern Maryland is 3.6 mg/kg.  
Background values at Fort Meade range from 0.7 to 5.8 mg/kg (3.62 average).







2000/2001 Sampling Event	2004/2005 Sampling Event	Other
◆ New Flush Mounted Well (NW)	◆ Groundwater Monitoring Well Location (NW)	□ RI Project Area
▲ DPT Soils & Groundwater - Sampled (DPT/GW)	● DPT Groundwater Sampling Location (DPT/GW)	■ CADD Base Map
▲ DPT Soil (DPT)	▲ DPT Soil Sampling Location (DPT)	▨ Demolished Building
■ Existing Well - Sampled (EW)	■ Existing Well (EW)	■ New Building
✦ Surface Soil (SS)	● DPT Soil & Groundwater Sampling Location (DPT/GW)	— Stream
★ Surface Water & Sediment (SW/SD)		— Existing Railroad
● HSA Soil		— Former Railroad
● DPT Soil and Groundwater - Not Sampled (DPT/GW)		

**Architect of the Capitol, Library of Congress  
Remedial Investigation, Sampling Locations**

Figure 2-1  
July 2006  
Fort George G. Meade  
Library of Congress Facility  
Remedial Investigation



# Surface and Near-surface Soil Exceedances

## Arsenic Exceedances

## Lead Exceedances

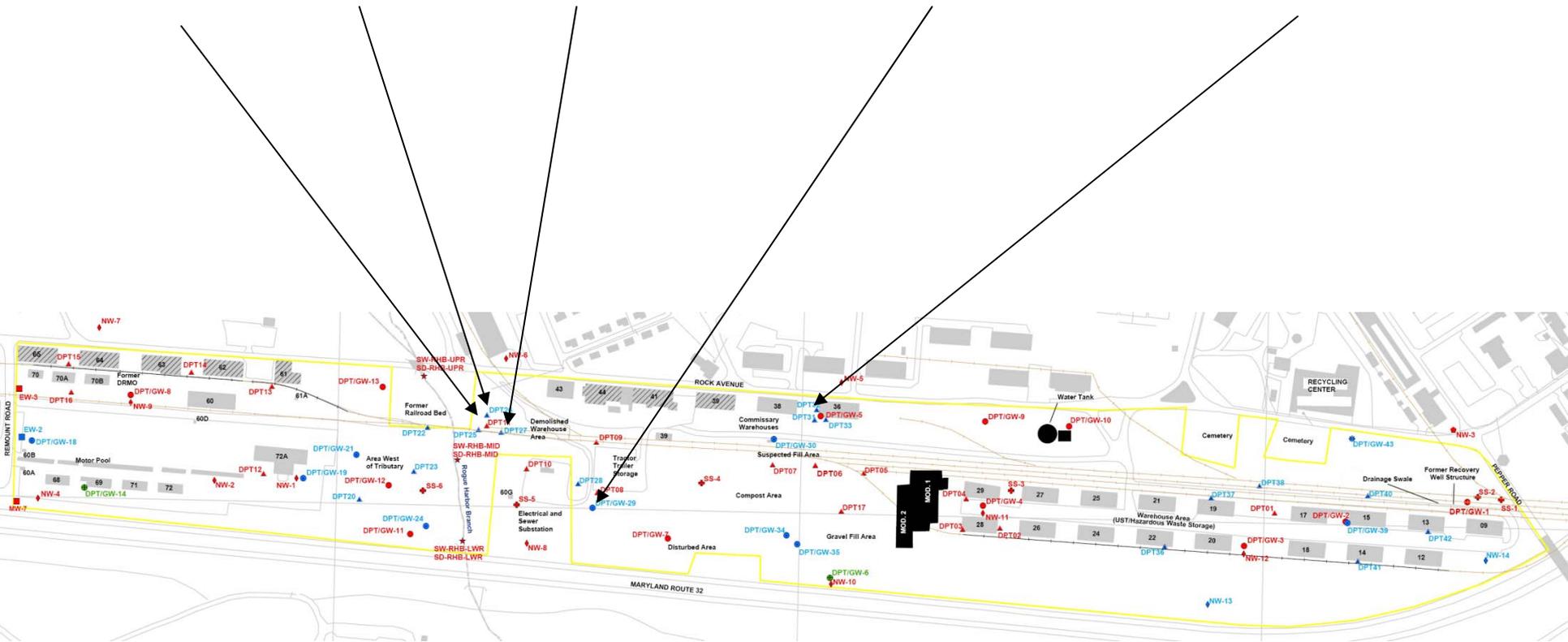
33.4 mg/kg

89 mg/kg

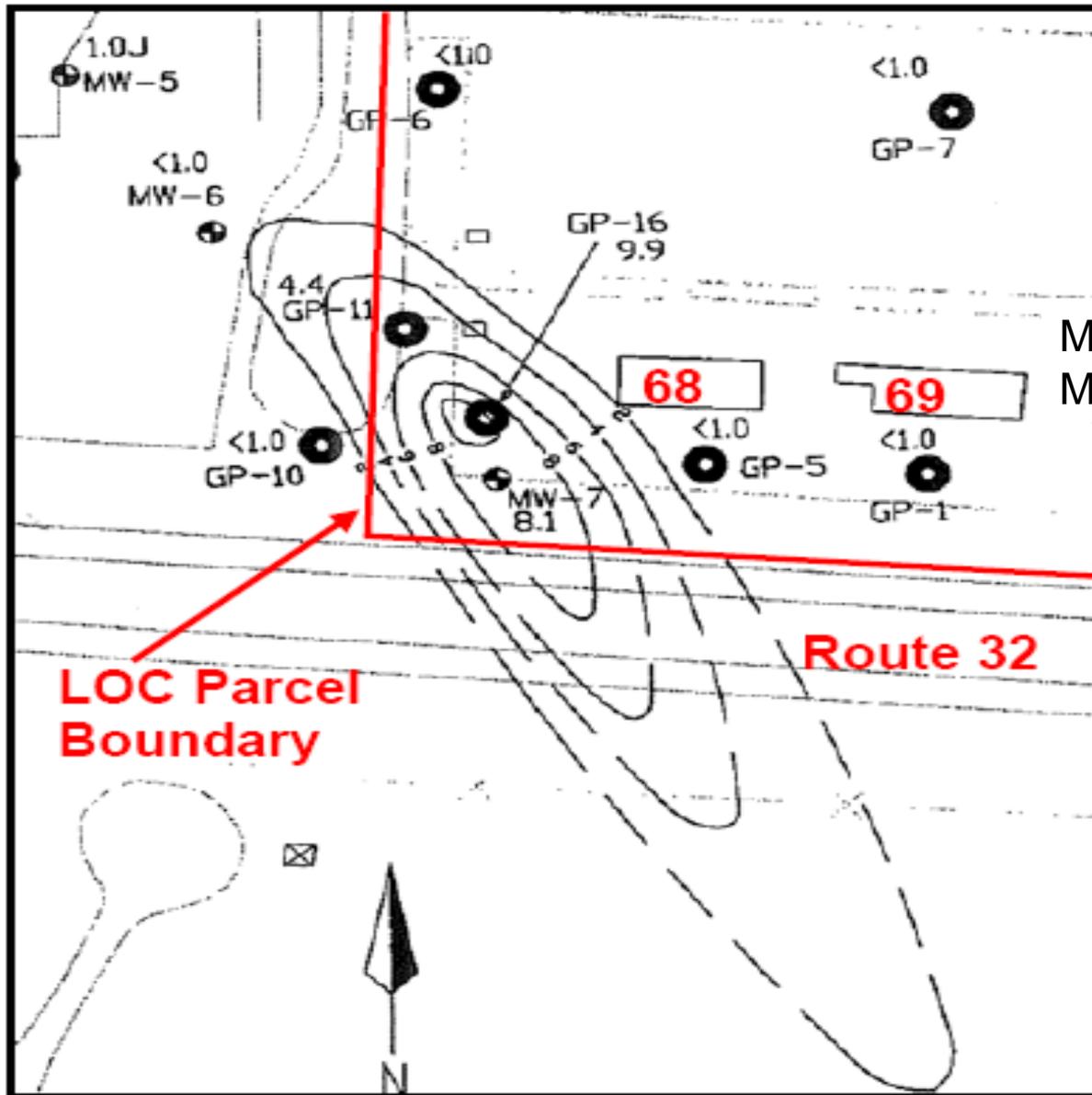
61.8 mg/kg

3,350 mg/kg (6 ft bgs)

5,220 mg/kg (6 ft bgs)



The mean background value for Eastern Maryland is 3.6 mg/kg.  
Background values at Fort Meade range from 0.7 to 5.8 mg/kg (3.62 ave.).  
Bgs – below ground surface  
mg/kg – milligrams per kilogram, or parts per million



# Carbon Tetrachloride (CCl<sub>4</sub>) Plume

Max. concentration – 9.9 ug/l  
 MCL – 5 ug/l

**LOC Parcel Boundary**

**Route 32**

Figure 1-4: Carbon tetrachloride delineation (2004 FFS)



# Former Trap and Skeet Range (Operable Unit No. 1) FGGM-83



- **Background**

- Operational from late 1970s to early 1990s, approx. 10-acres
- Soils contain lead (1,000s ug/l) and lead shot (1,000s/sq.ft.)
- Future anticipated land use – administrative/office
- No human health risks, potential ecological risks

- **Status**

- Draft ecological risk assessment under development
- Submit to stakeholders, including regulators in 1<sup>st</sup> qtr FY09

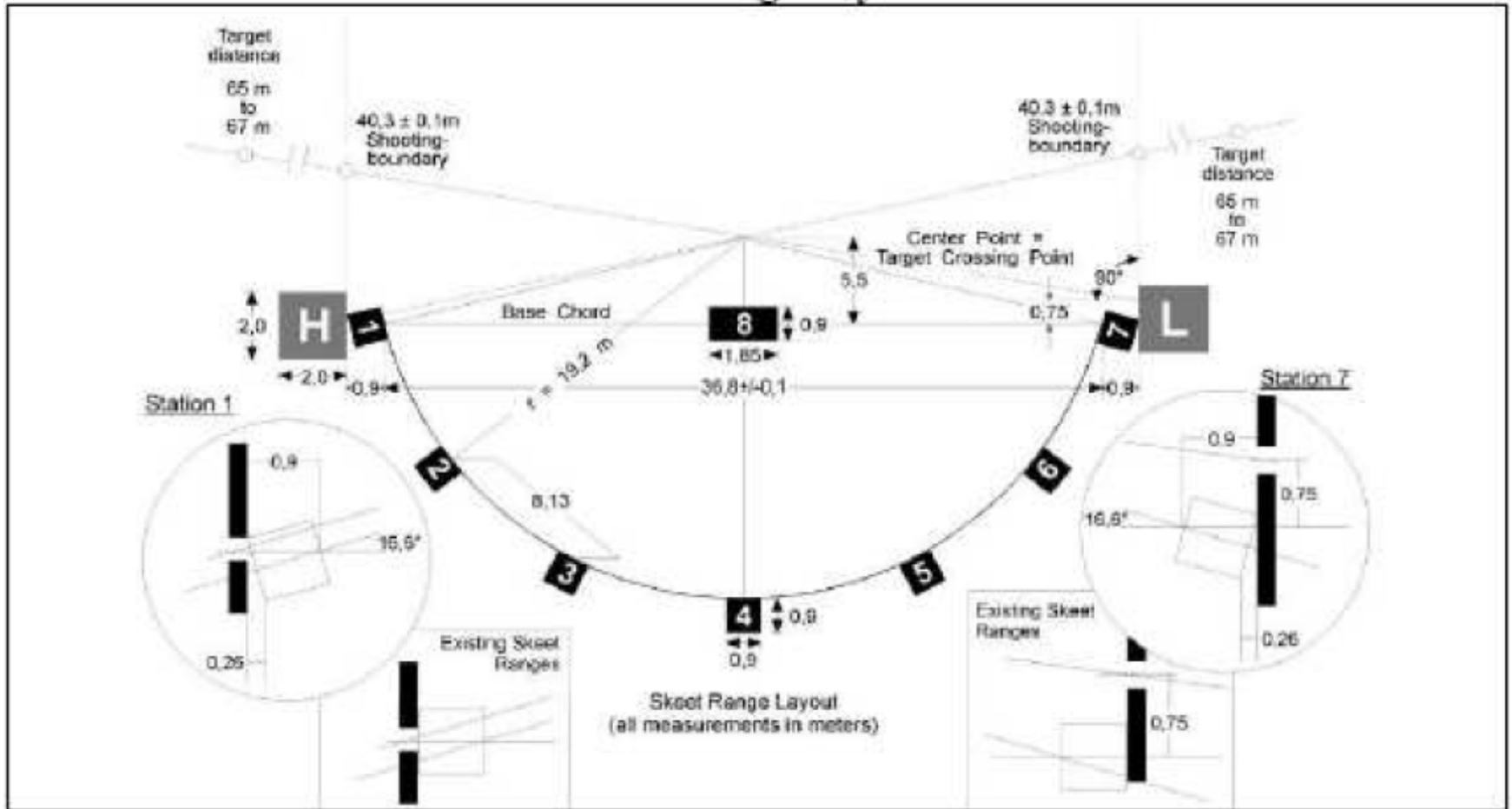
- **Milestones**

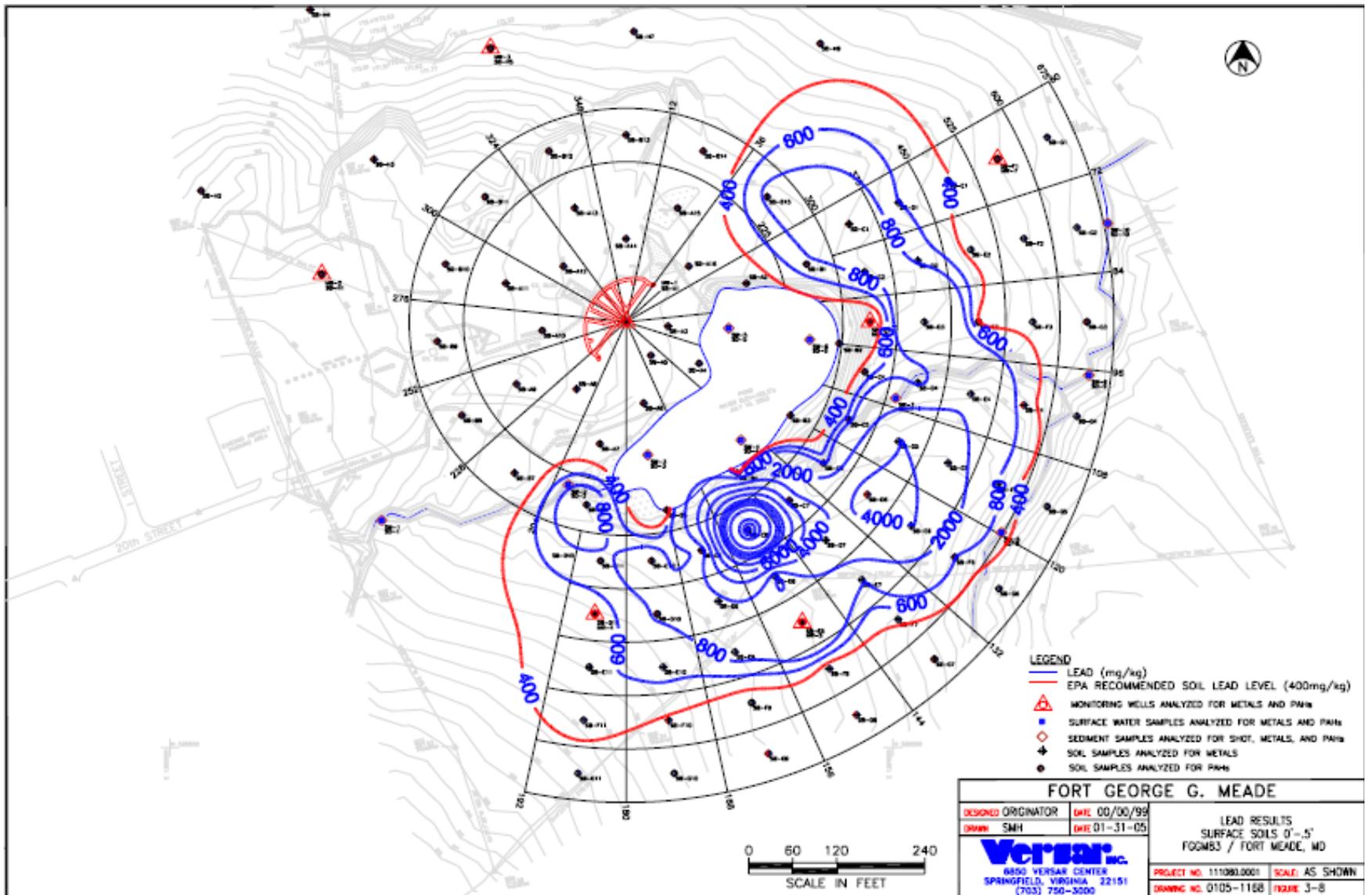
- Remedy in-place: FY12
- Response complete: FY14



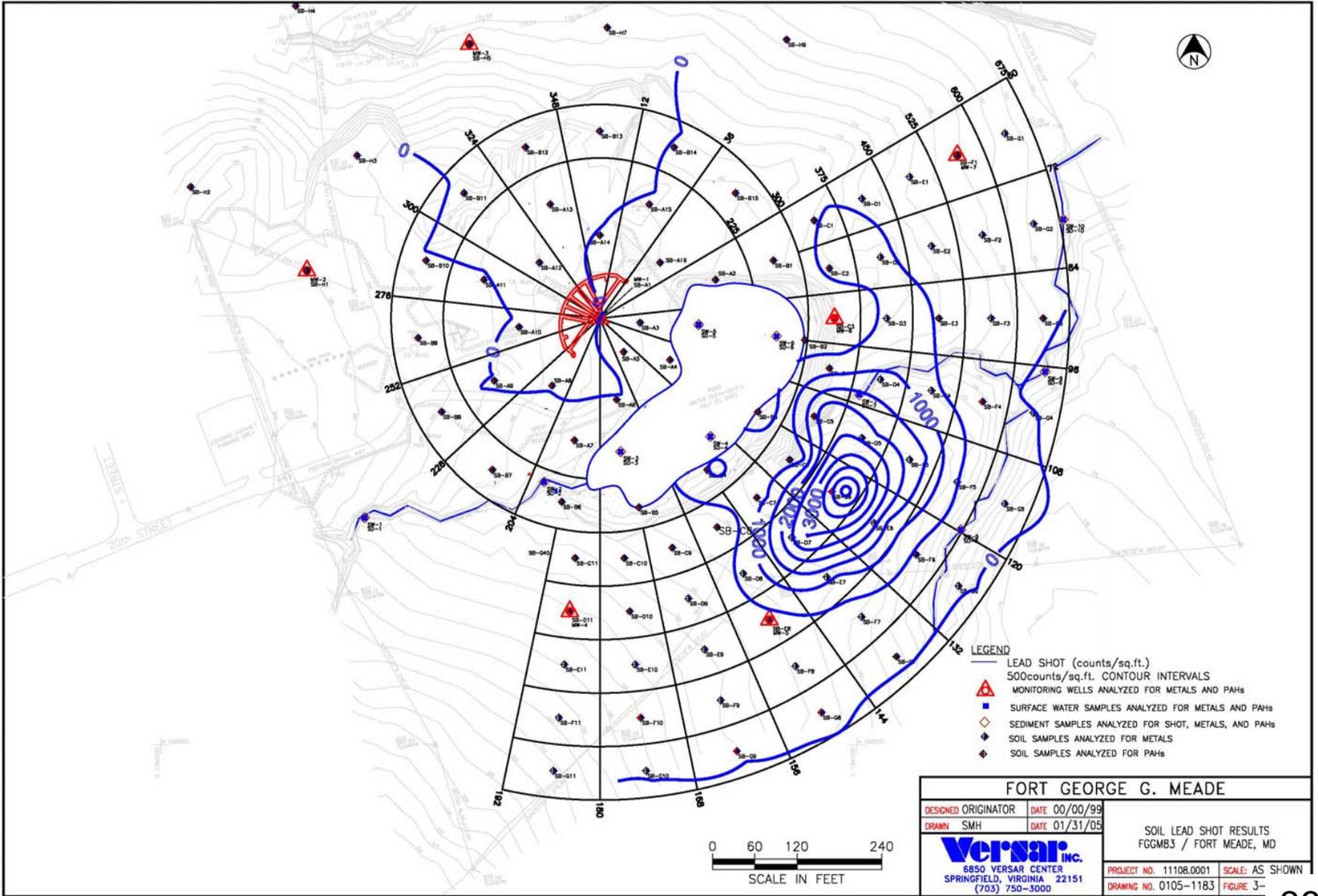
# Trap & Skeet

## Skeet Range Configuration





111080.0001\0105-1183.DWG PLOT DATE: 01-31-05



LEGEND

- LEAD SHOT (counts/sq.ft.)
- 500counts/sq.ft. CONTOUR INTERVALS
- ▲ MONITORING WELLS ANALYZED FOR METALS AND PAHs
- SURFACE WATER SAMPLES ANALYZED FOR METALS AND PAHs
- ◇ SEDIMENT SAMPLES ANALYZED FOR SHOT, METALS, AND PAHs
- ◆ SOIL SAMPLES ANALYZED FOR METALS
- ◆ SOIL SAMPLES ANALYZED FOR PAHs

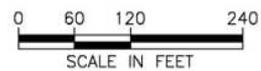
FORT GEORGE G. MEADE

DESIGNED ORIGINATOR	DATE 00/00/99
DRAWN SMH	DATE 01/31/05

SOIL LEAD SHOT RESULTS  
FGGMB3 / FORT MEADE, MD

**Versar** inc.  
6850 VERSAR CENTER  
SPRINGFIELD, VIRGINIA 22151  
(703) 750-3000

PROJECT NO. 11108.0001	SCALE: AS SHOWN
DRAWING NO. 0105-1183	FIGURE 3-





# Former NIKE Fire Control Site (Operable Unit 3) FGGM-87



- **Background**

- NIKE Fire Control Site from 1955 to 1972 (currently the Directorate of Information Management)
- Seven USTs removed - 500 gal to 20,000 gal
- Chlorinated hydrocarbons (PCE, TCE, DCE, and VC) in groundwater
- TCE is primary contaminant – max. concentration 210 ug/l (2004)

- **Status**

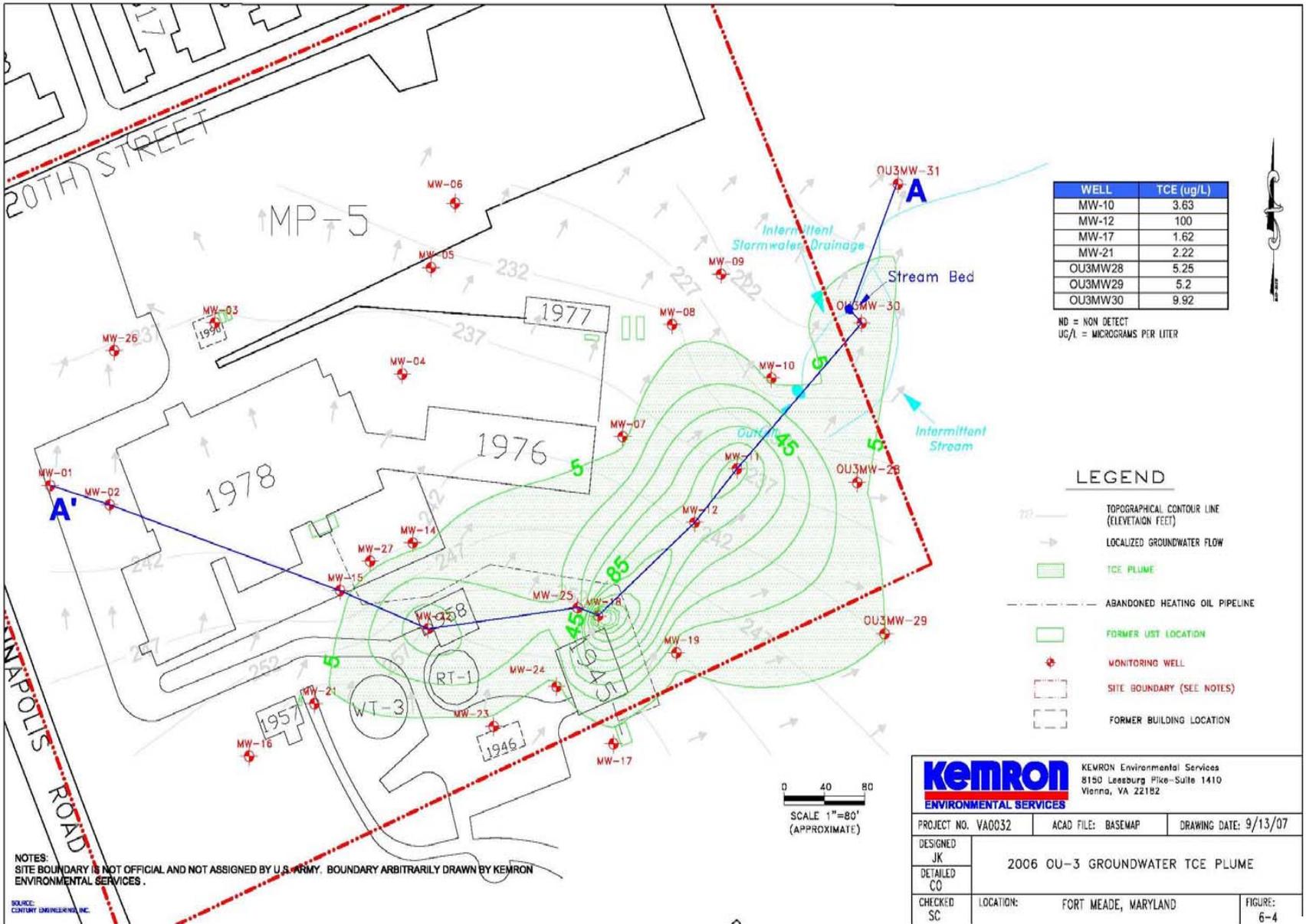
- Remedial investigation/feasibility study (RI/FS) ongoing
- Potential vapor intrusion hazard under consideration
- MDE comments request additional site characterization/delineation work
- EPA comments on the RI/FS pending

- **Milestones**

- Remedy in-place: FY11
- Response complete: FY12







WELL	TCE (ug/L)
MW-10	3.63
MW-12	100
MW-17	1.62
MW-21	2.22
OU3MW28	5.25
OU3MW29	5.2
OU3MW30	9.92

ND = NON DETECT  
 UG/L = MICROGRAMS PER LITER

**LEGEND**

- TOPOGRAPHICAL CONTOUR LINE (ELEVATION FEET)
- LOCALIZED GROUNDWATER FLOW
- TCE PLUME
- ABANDONED HEATING OIL PIPELINE
- FORMER UST LOCATION
- MONITORING WELL
- SITE BOUNDARY (SEE NOTES)
- FORMER BUILDING LOCATION

**KEMRON** ENVIRONMENTAL SERVICES  
 KEMRON Environmental Services  
 8150 Leesburg Pike-Suite 1410  
 Vienna, VA 22182

PROJECT NO. VA0032    ACAD FILE: BASEMAP    DRAWING DATE: 9/13/07

DESIGNED JK	2006 OU-3 GROUNDWATER TCE PLUME	
DETAILED CO		
CHECKED SC	LOCATION: FORT MEADE, MARYLAND	FIGURE: 6-4

NOTES:  
 SITE BOUNDARY IS NOT OFFICIAL AND NOT ASSIGNED BY U.S. ARMY. BOUNDARY ARBITRARILY DRAWN BY KEMRON ENVIRONMENTAL SERVICES.

SOURCE:  
 CENTURY ENGINEERING, INC.



# Manor View Dump Site FGGM-93



- **Background**

- 1940s era dump site (residential debris and ash); approx. 10-acres
- Soil, soil gas, groundwater, and sediments contaminated
- Methane discovered in 2003, max concentrations in combustible range
- Methane threatens housing area and no recent detections near school

- **Status**

- Emergency removal action: 750'x15' passive trench (2005)
- 20 townhome units (18 families) evacuated in Dec 05
- Passive trench converted to active recovery system (2006) – ongoing
- Weekly performance monitoring – ongoing (to monitor and optimize system)
- Remedial investigation ongoing, feasibility study proposed (FY09)

- **Milestones**

- Remedy in-place: FY10
- Response complete: FY24





Microsoft  
Virtual Earth

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© 2008 Pictometry International Corp



# New Environmental Restoration Sites



# Former Motor Pools Sites (FGGM-95)



- **Background**
  - New sites proposed for FY09
  - Data based on EPA air photographic survey and preliminary investigations
  - PA/SI indicates additional actions required for 2 former motor pools
    - Former Motor Pool (MP-7/WR6)
    - Former Motor Pool/Wash Rack MP9
- **Status**
  - Site investigation proposed for all sites
  - Soil and groundwater collection and analysis
  - Workplan proposed for 2<sup>nd</sup>/3<sup>rd</sup> qtr FY09
- **Milestones**
  - Remedy in-place: TBD
  - Response complete: TBD



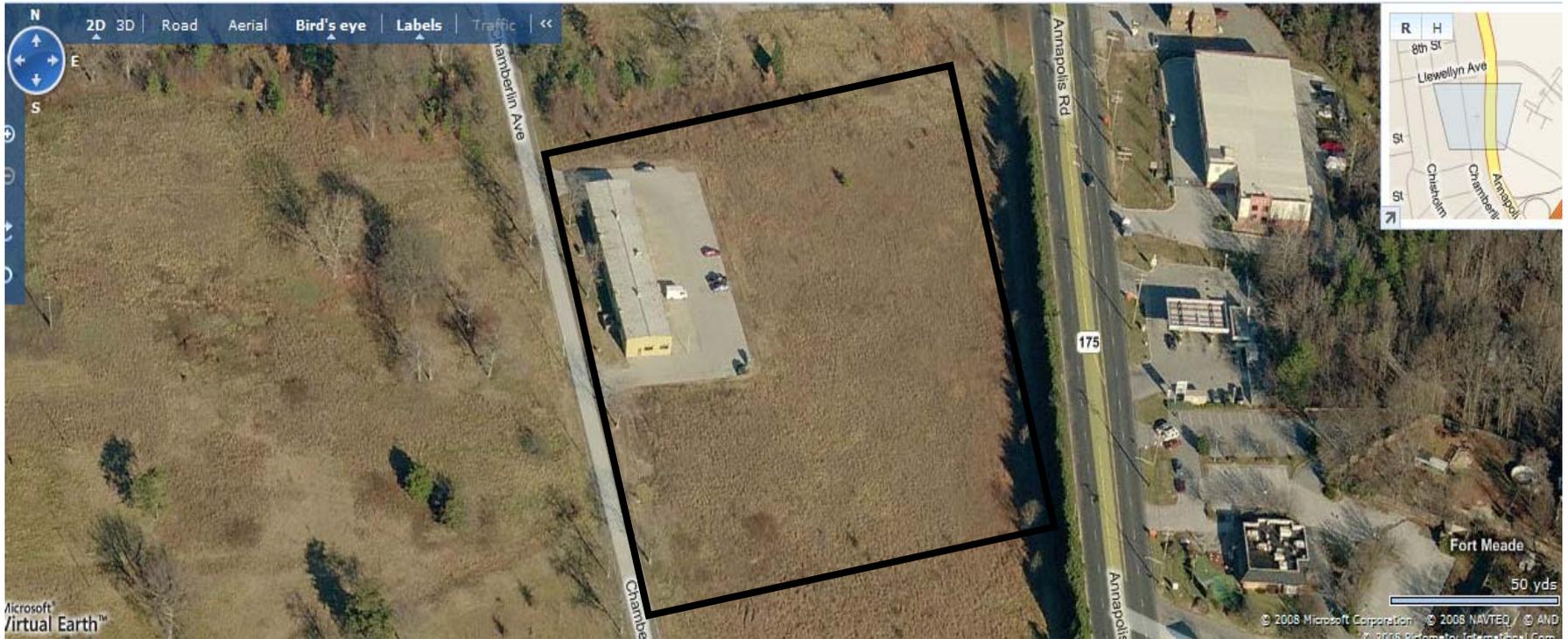
## Former Motor Pool No. 7



### Data based on air photo and testing

- 1957, 1963, and 1970 air photos - staining
- Preliminary data detected
  - metals, VOCs, SVOC, pesticides in soil
  - fuel-hydrocarbons and metals in groundwater

## Former Motor Pool No. 9



### Data based on air photo and testing

- 1957, 1963, and 1970 air photos - staining
- Preliminary data detected
  - metals, VOCs, SVOC, pesticides in soil
  - fuel-hydrocarbons and metals in groundwater



# Former Landfill Sites (FGGM-96)



- **Background**

- New sites proposed for FY09
- Data based on EPA air photographic survey and field investigations
- PA/SI and EBS documents indicate additional actions required for 7 former suspect dumping locations
  - Possible Dump Site 1957-A
  - Possible Dump Site 1957-B
  - Site M Parcel 1
  - Site M Parcel 2
  - Site M Parcel 8
  - Former Burning Waste Site-1957
  - Inactive Landfill No. 4

- **Status**

- Site investigation proposed for all sites
- Soil and groundwater collection and analysis
- Workplan proposed for 2<sup>nd</sup>/3<sup>rd</sup> qtr FY09

- **Milestones**

- Remedy in-place: TBD
- Response complete: TBD

## Possible Dump Site 1957-A



Data based on air photo and testing

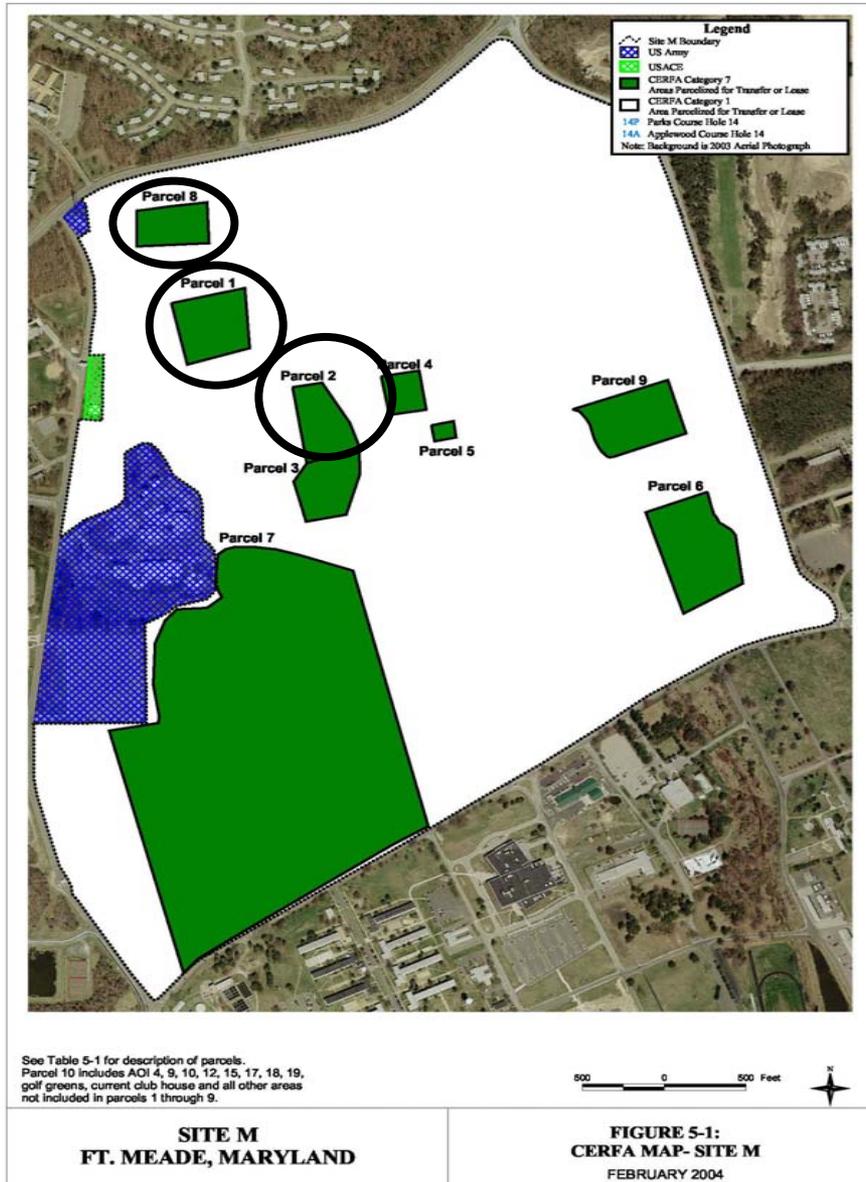
- 1957 air photo – debris piles
- Geophysical data supports dumping

## Possible Dump Site 1957-B



### Data based on air photo and testing

- 1957 air photo – debris/disturbed ground
- Geophysical data supports dumping
- Preliminary data detected metals and an SVOC in soil



## Parcels 1, 2, and 8 require further Investigation

### Parcel 1 – possible dump site

- 1938 air photo - debris/disturbed ground
- Geophysical data supports dumping
- Preliminary work found metal in the soil and groundwater

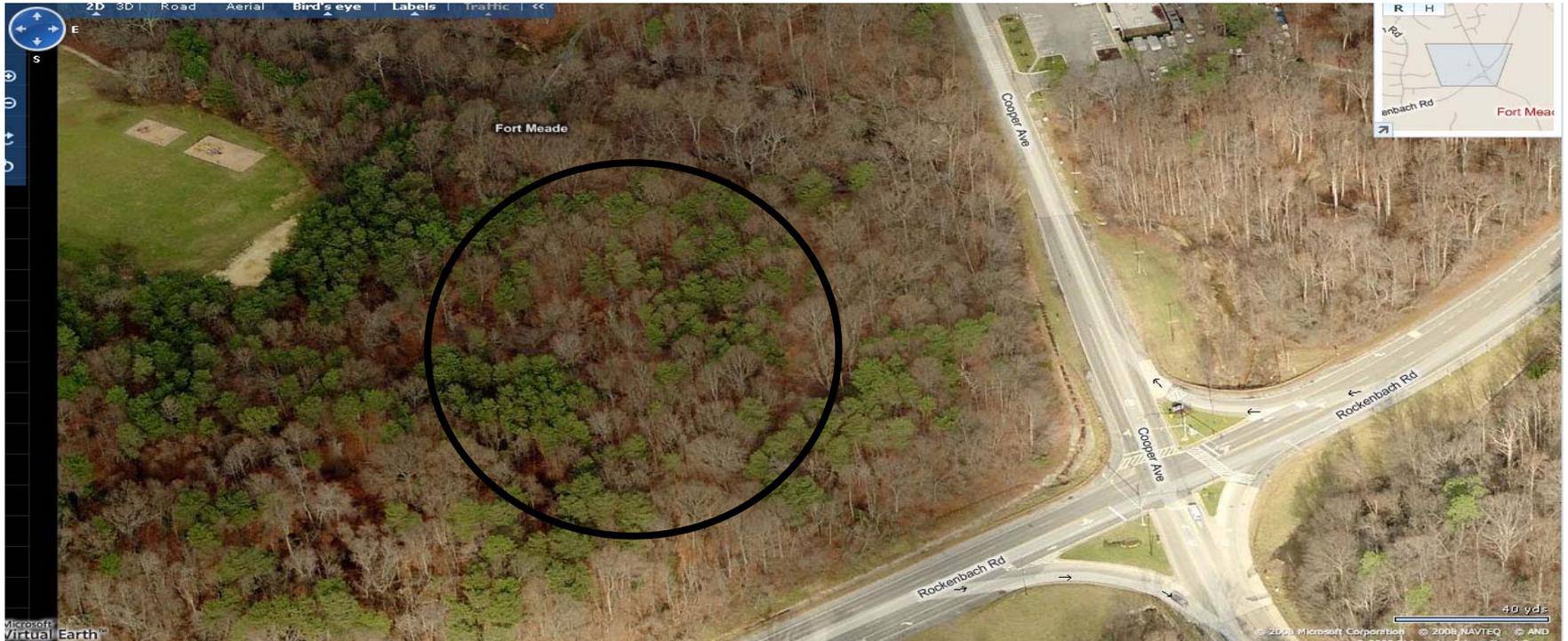
### Parcel 2 – possible dump site

- 1943 air photo - debris/disturbed ground
- Geophysical data supports dumping
- Preliminary work found metals and an SVOC in the soil and metals in the groundwater

### Parcel 8 – possible dump site

- 1938 air photo - debris/disturbed ground
- Preliminary work found metals in the soil

# Possible Burning Waste Site 1957



## Data based on air photo and testing

- 1957 and 1963 air photo
- Geophysical data supports dumping
- Preliminary data detected
  - metals, VOCs, SVOC, pesticides in soil
  - VOCs and fuel-hydrocarbons in groundwater
  - pesticides and fuel hydrocarbons in surface water and sediment



## Inactive Landfill No. 4

- **Background**

- Data suggests dumping may have occurred from 1950s to 1970s
- 11 acre site – debris/rubble
- Site investigation conducted in 1991/92
- SVOCs, pesticides and metals detected in groundwater
- VOC, SVOCs, PCBs, and metals detected in sediment sample

- **Status**

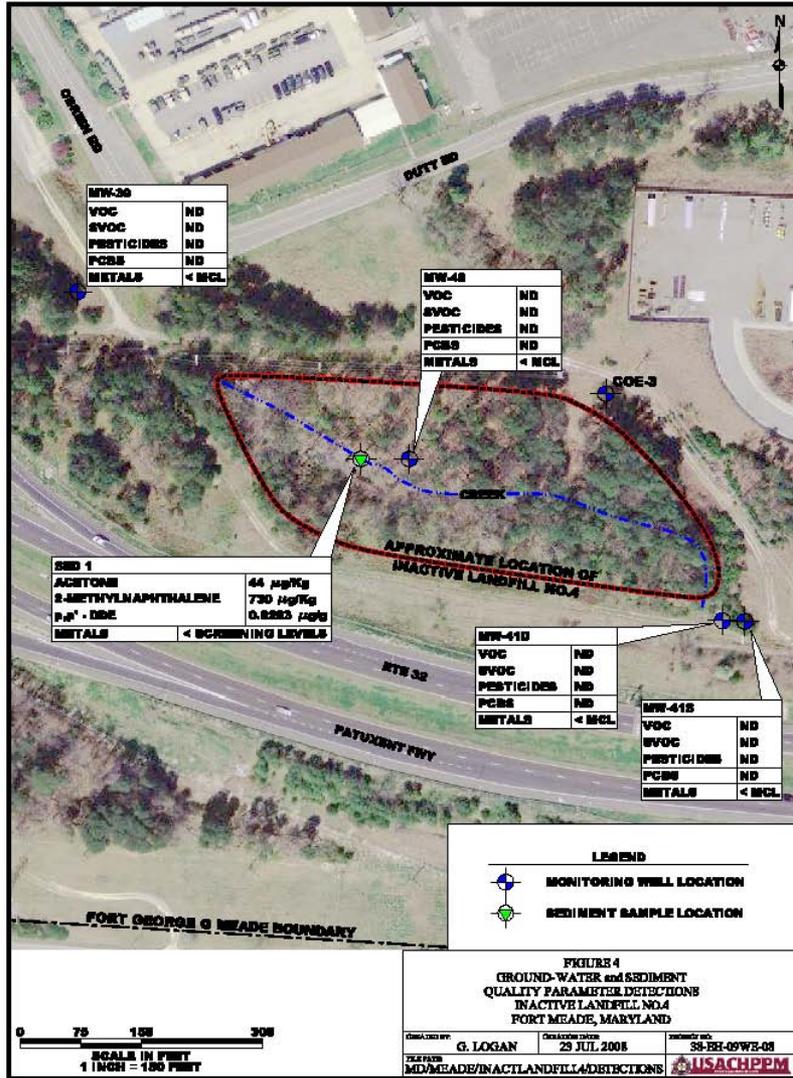
- Four existing wells and one sediment sample collected in summer 2008
- No detectable levels of VOCs, SVOC, Pesticides, or PCB in groundwater
- No metal exceedances in groundwater
- Arsenic only sediment exceedance

- **Milestones**

- Remedy in-place: TBD
- Response complete: TBD







No Groundwater Exceedances  
Arsenic exceedance in sediment



# New Environmental Restoration Activities





## Former Motor Pools 2 and 19



- **Background**

- New sites proposed for FY09
- Data based on EPA air photographic survey and field investigations
- Discolored/stained areas over a 20 year period

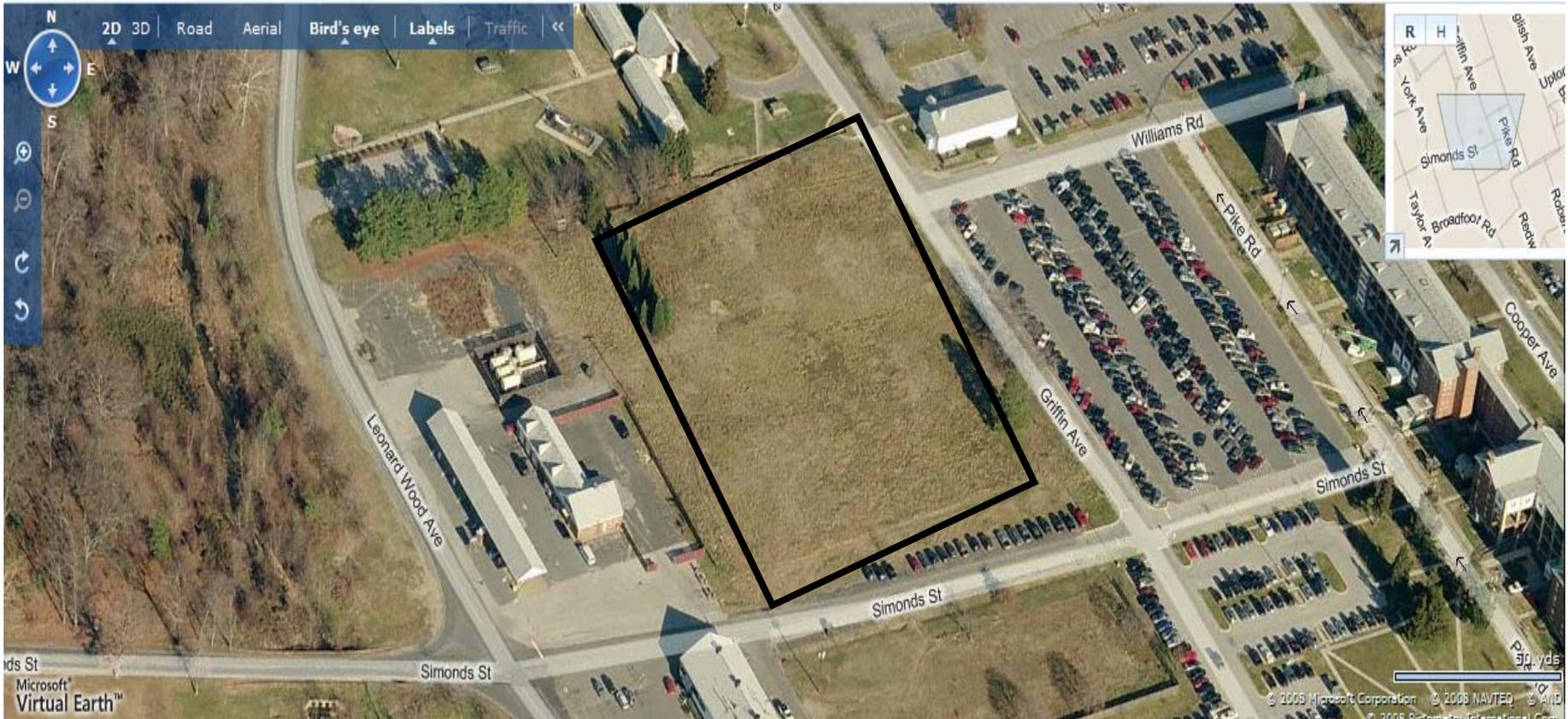
### **Status**

- Site investigation proposed for all sites
- Soil and groundwater collection and analysis
- Workplan proposed for 2<sup>nd</sup>/3<sup>rd</sup> qtr FY09

- **Milestones**

- Remedy in-place: TBD
- Response complete: TBD

## Former Motor Pool No. 2



Data based on air photos

- Indication of stains and stressed vegetation
- 1963 - 1988

## Former Motor Pool No. 19



Data based on air photos

- Indication of stains and stressed vegetation
- 1957, 1970, 1988



# Monitoring Wells 125d and 126d



- **Background**

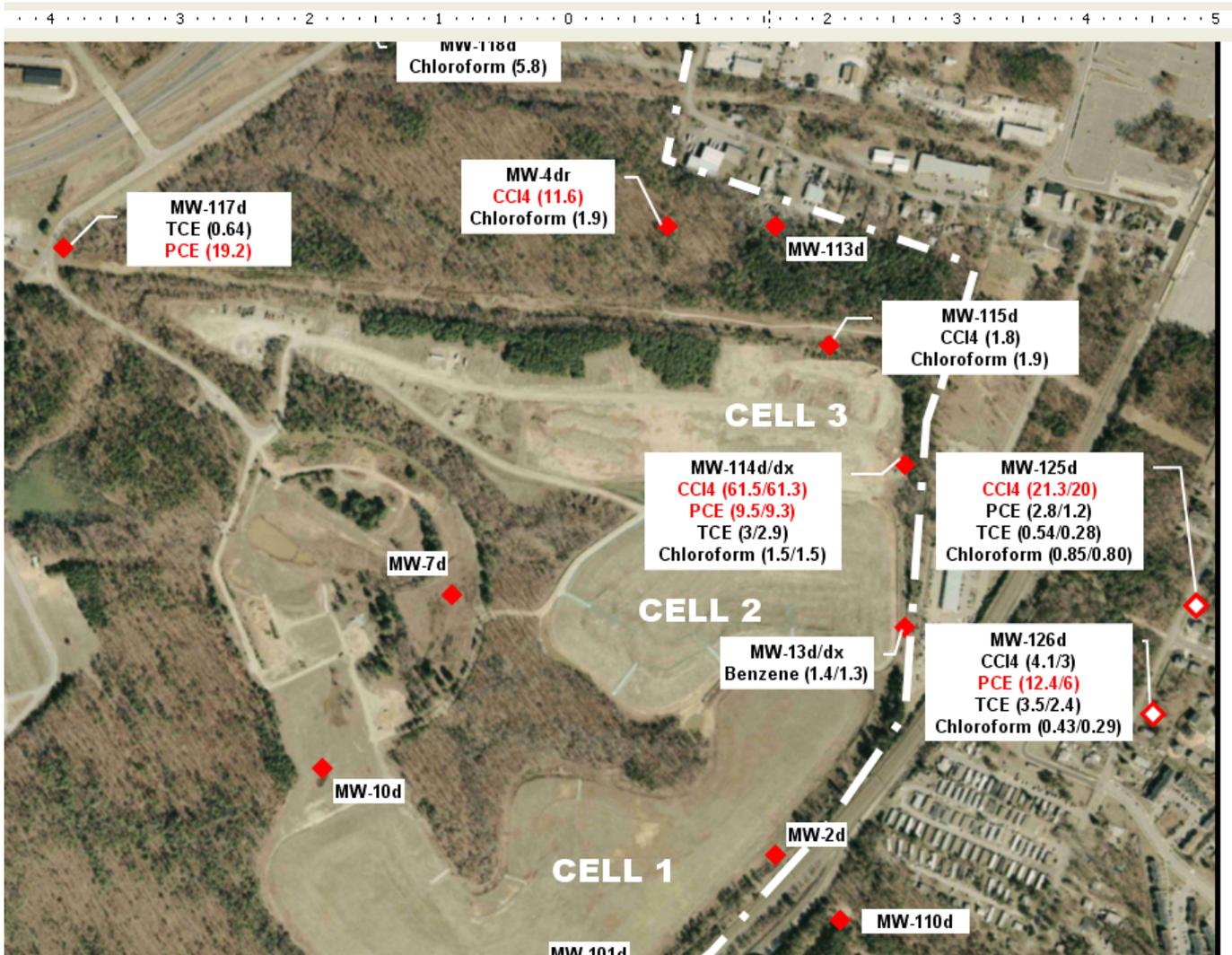
- Installed as part of the Closed Sanitary Landfill remedial investigation
- Last sampled in 2004
- PCE and CCl4 detected above MCLs

- **Status**

- Wells developed in October
- Sampled in 7 Nov 08
- Analytical results due mid-December 2008

- **Milestones**

- Remedy in-place: TBD
- Response complete: TBD





# Former Laundry on Architect of Capitol Property



- **Background**

- Identified on Installation maps from 1917 to early 1950's
- Period of operation - unknown
- Use of chemical dry cleaning agents - unknown
- Investigate site to determine if groundwater impacts present

- **Status**

- Army developing sampling strategy
- Sampling strategy being developed in full coordination with AOC
- Anticipate 3 40-50 ft wells
- Field work anticipated in Dec/Jan 2008

- **Milestones**

- Remedy in-place: TBD
- Response complete: TBD





# Military Munitions Response Program Sites Summaries



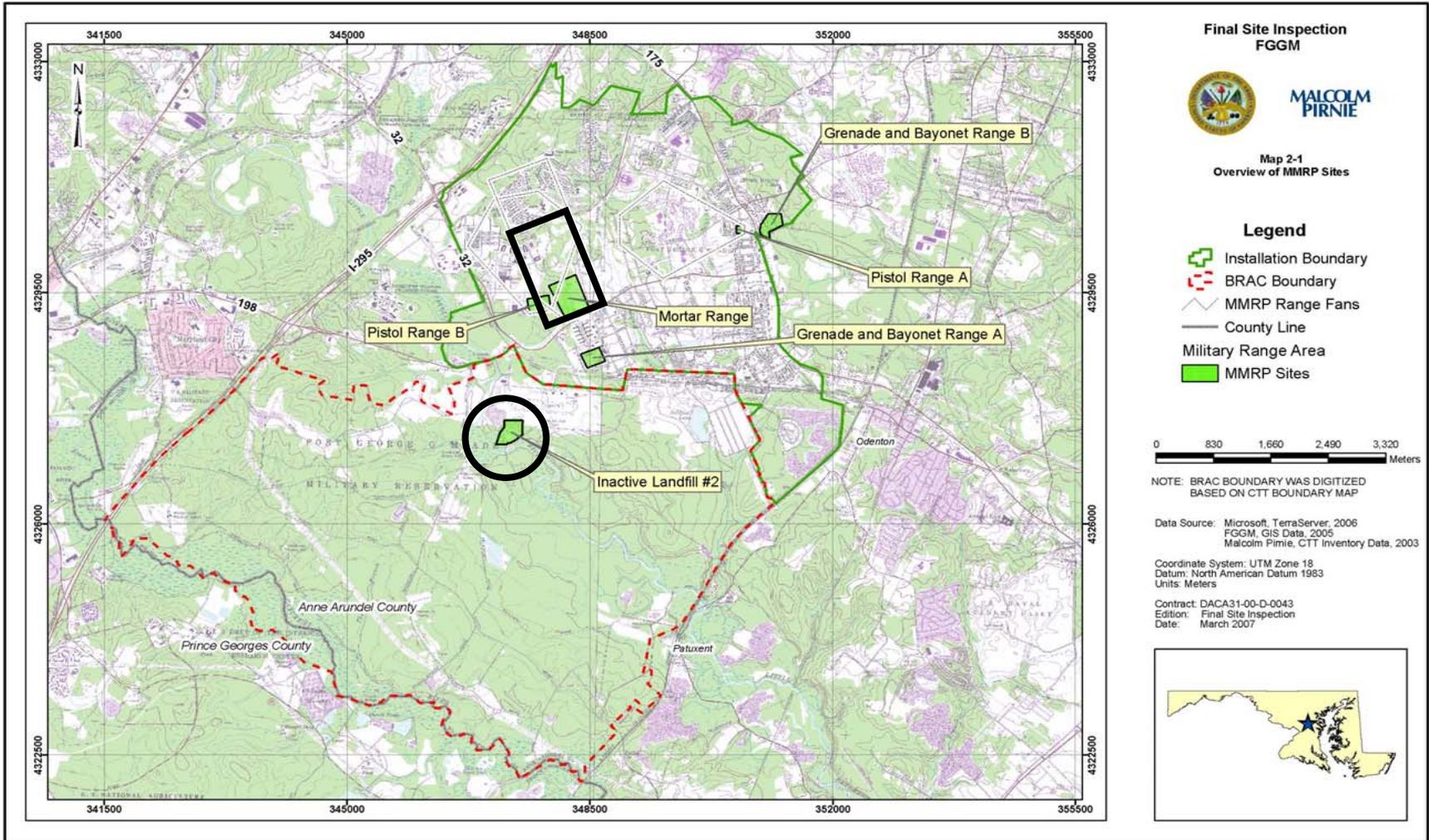
# MILITARY MUNITIONS RESPONSE PROGRAM SITES



## Two active MMRP sites

- Former Mortar Range
- Inactive landfill No. 2

# Military Munitions Response Program Sites





# Former Mortar Range (FGGM-003-R-01)



- **Background**

- An approx. 300 acre WWI/WWII era mortar range
- Land currently a golf course but being redeveloped
- 3" stokes, 60mm and 80mm mortars located (all practice rounds)
- Large cache of small arms munitions located
- Landfill No. 2 discussed under BRAC MMRP Sites

- **Status**

- RI ongoing
- CTC assume feasibility study, remedial, design, removal and LUCs with LUC maintenance

- **Milestones**

- Remedy in-place: NA
- Response complete: 2014

# Mortar Range Remedial Investigation FGGM



**MALCOLM  
PIRNIE**

Map

## All Munitions Items Found at Mortar Range Legend

- Installation Boundary
- Mortar Range Boundary
- Stream
- Transect
- Potential Dump Site
- Step-Out Box
- Step-Out Box Transect

### Munitions Items Found\*

- 81mm Mortar M68
- 60mm Mortar M69
- 3" Stokes Practice Mortar
- Practice Grenade
- Flare
- Practice Landmine
- Small Ammo

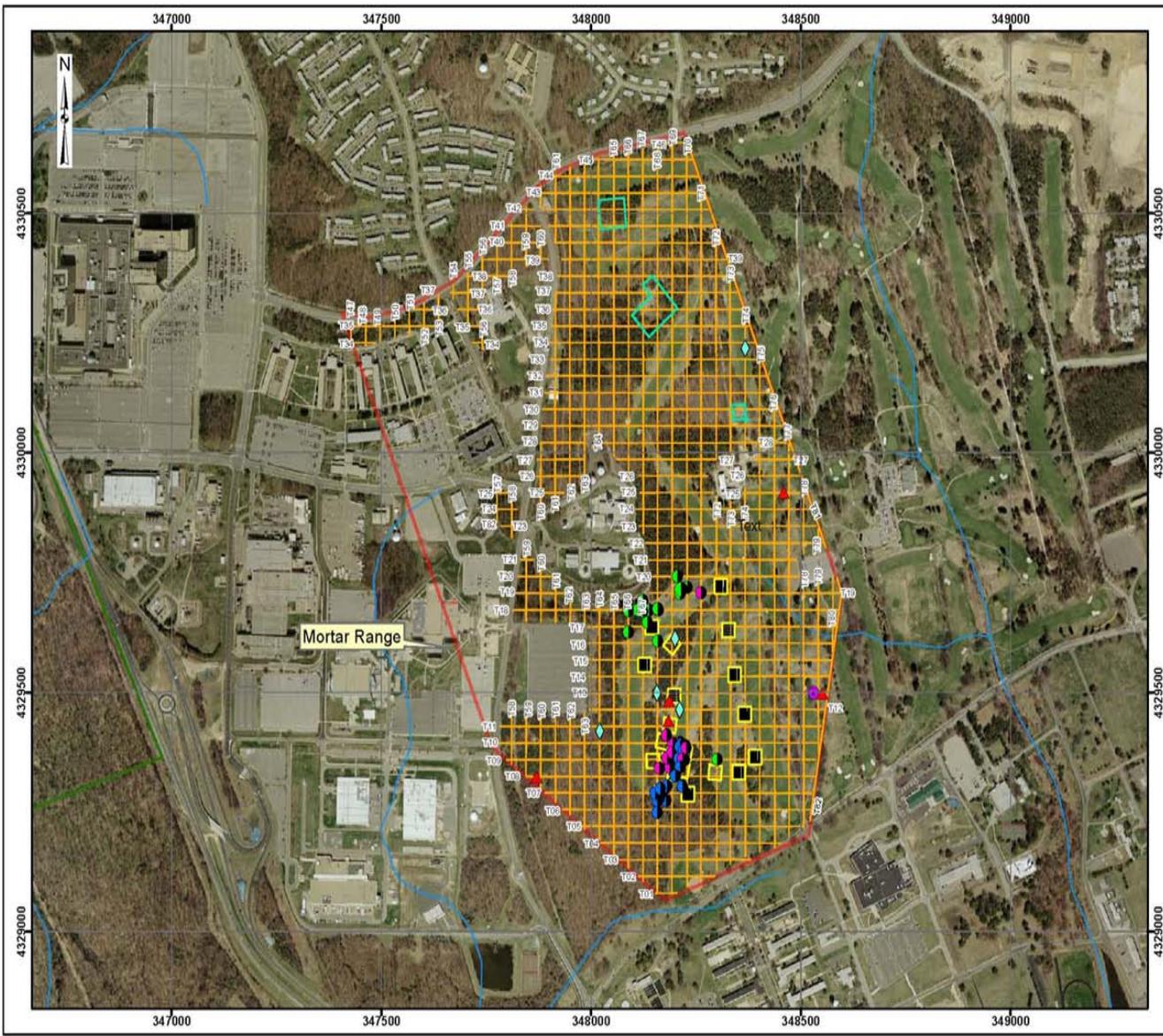
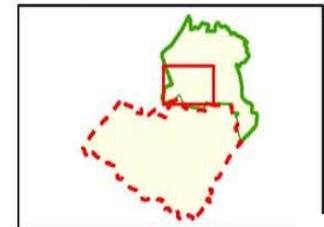
\*Symbol may represent multiple munitions debris.



Data Source: FGGM, Digital Orthophoto, 2003  
FGGM, GIS Data, 2005  
CTT Inventory Data, 2005

Coordinate System: UTM Zone 18  
Datum: North American Datum 1983  
Units: Meters

Contract: W912DR-05-D-0004  
Edition: Draft  
Date: April 2008



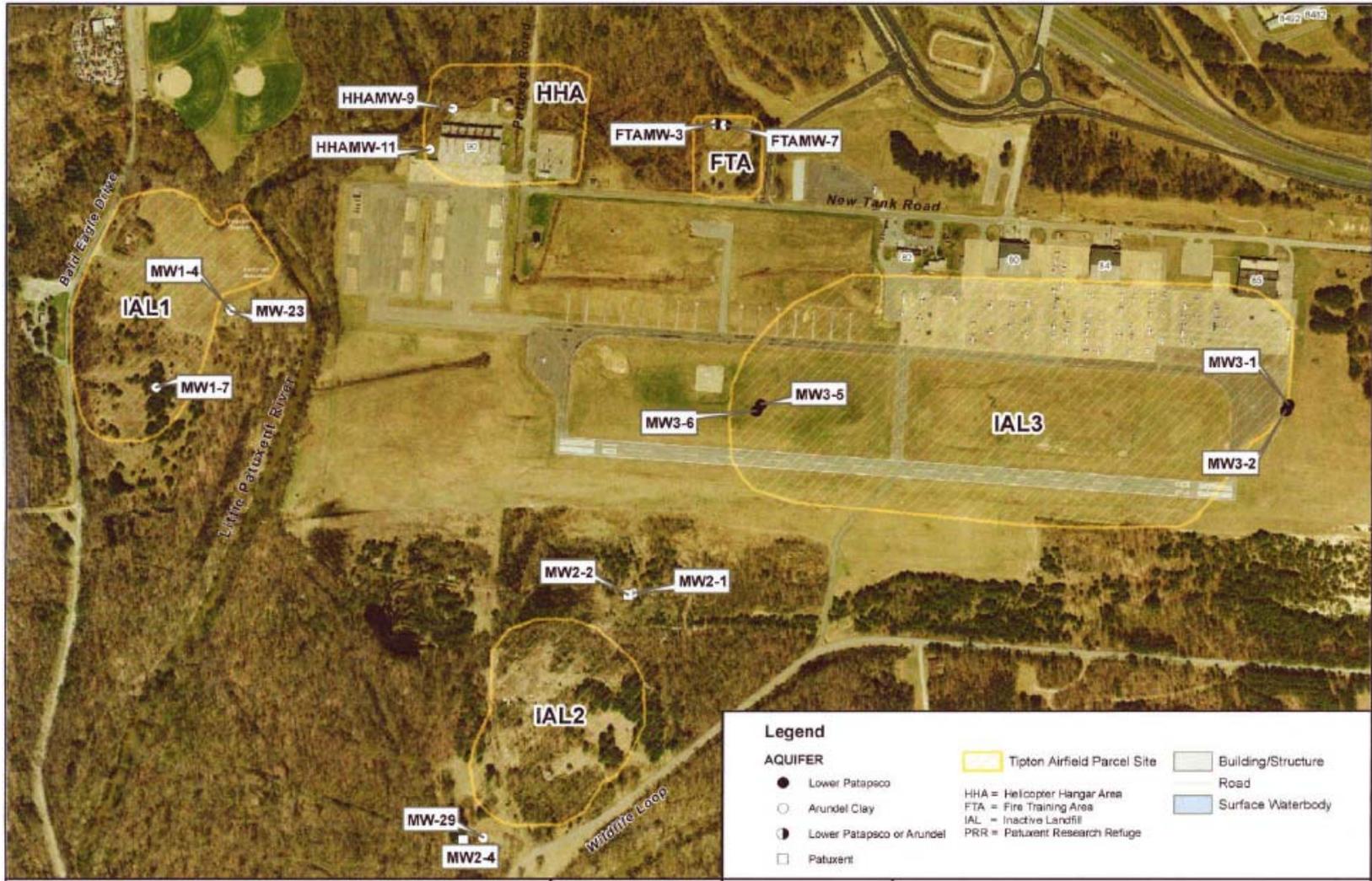


# Inactive Landfill No. 2 (FGGM-007-R-01)



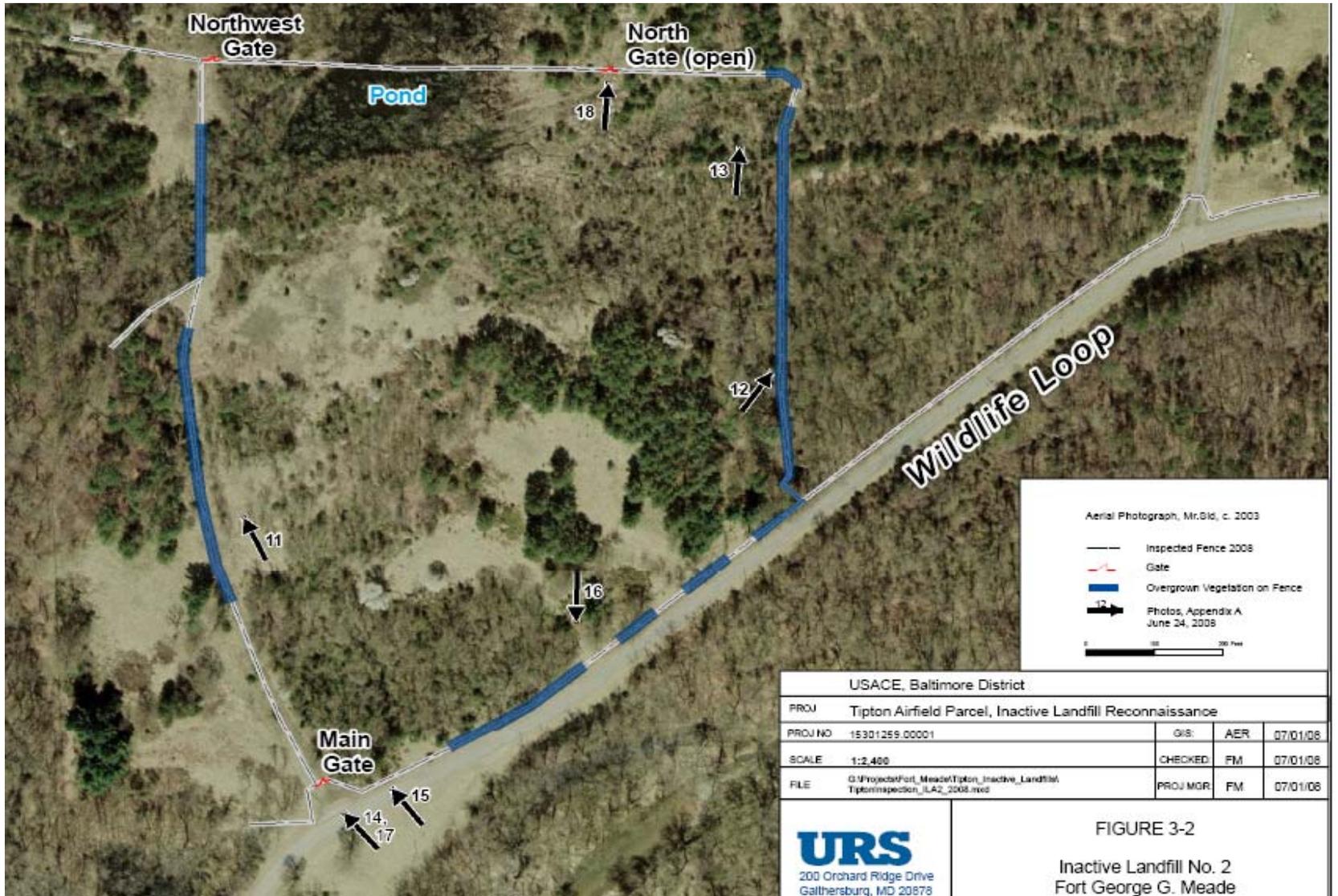
- **Background**
  - An approx. 23 acre site
  - Historical records indicate potential presence of MECs
- **Status**
  - Long-term groundwater monitoring (covered under the BRAC Tipton Airfield Groundwater Operable Unit)
  - Annual land-use control monitoring
- **Milestones**
  - Remedy in-place: NA
  - Response complete: 1989

# Tipton Airfield Groundwater Operable Unit (Inactive Landfill No. 2)



# Inactive Landfill No. 2

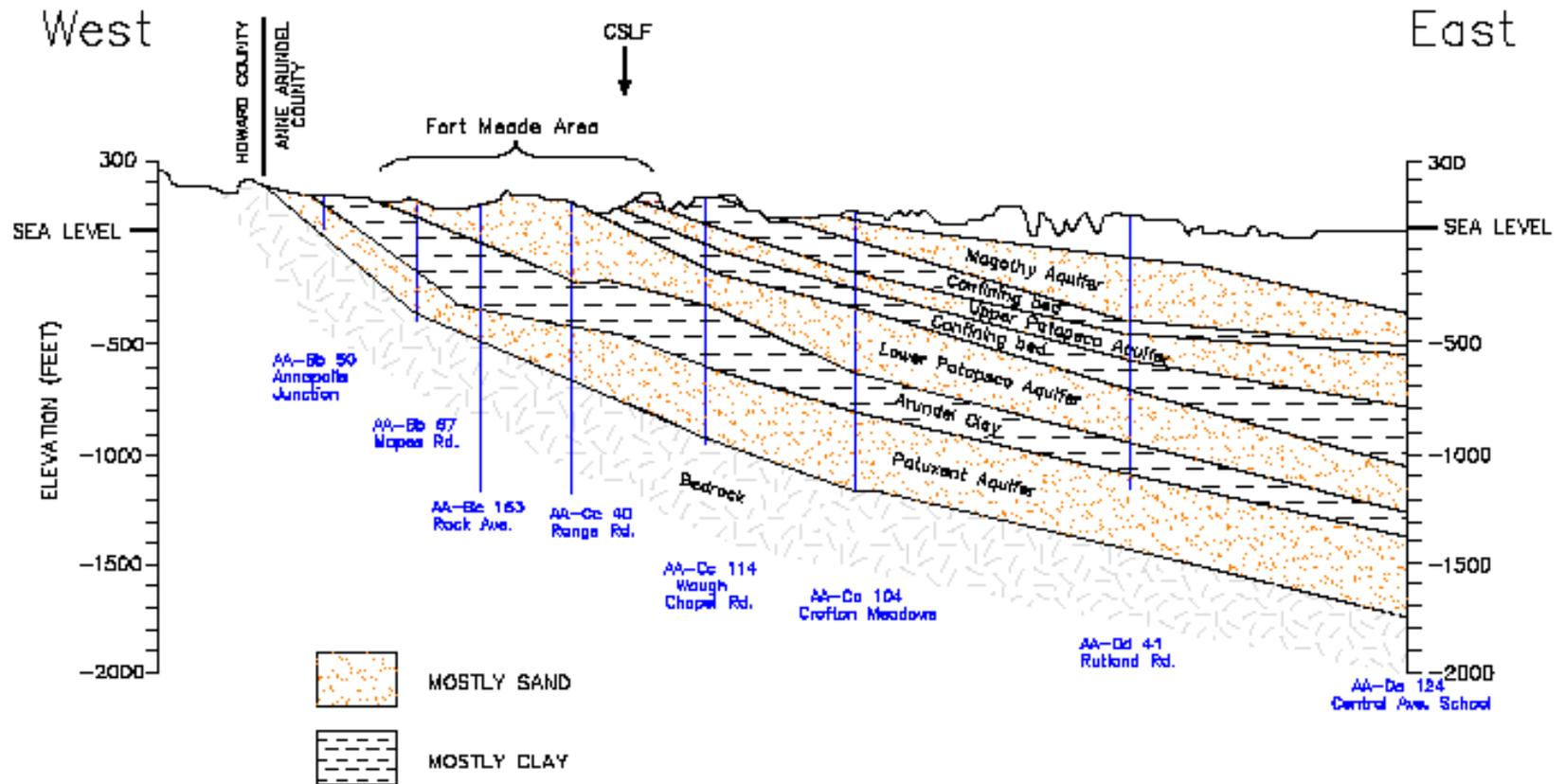
## Annual Land-use Controls Maintenance Inspections





# Backup Slides

# Geologic Stratification





# Acronyms



AOC	Architect of the Capitol	LOAEL	Lowest Observed Adverse Effect Level
As	Arsenic	LTM	Long Term Monitoring
Bgs	Below ground surface	MCL	Maximum contaminant level
BRAC	Base Realignment and Closure	MEC	Munitions, explosives of concern
CCL4	Carbon Tetrachloride	Mg/kg	Milligram per kilogram
CFD	Clean Fill Dump	Mm	millimeter
DCE	Dichloroethene	MMRP	Military Munitions Response Program
DNT	Dinitrotoluene	MNA	Monitored Natural Attenuation
DOI	Department of Interior	NOAEL	No Observed Adverse Effect Level
DRMO	Defense Reutilization and Marketing Office	NPL	National Priorities List
EBS	Environmental Baseline Survey	ODA	Ordnance Demolition Area
Est	Estimate	Pb	Lead
FGGM	Ft George G. Meade	PCE	Tetrachloroethylene
FTA	Fire Training Area	PRR	Patuxent Research Refuge
Gal	Gallons	RDX	Cyclotrimethylenetrinitramine
GW	Groundwater	TAP	Tipton Airfield Parcel
HHA	Helicopter Hanger Area	TBD	to be determined
ILF	Inactive Landfill	TCE	Trichloroethylene
		TNT	Trinitrotoluene
		Ug/l	Microgram per liter
		UST	underground storage tank
		UXO	Unexploded Ordnance
		VC	Vinyl chloride
		VOC	Volatile Organic Chemical





## Points of Contact:



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