

# SPRING VALLEY FORMERLY USED DEFENSE SITE

Partners Meeting Presentation  
June 2021



US Army Corps  
of Engineers®



# AGENDA REVIEW



## Parsons Update

- 4825 Glenbrook Road

## Weston Updates

- Site-Wide Remedial Action
- Public Safety Building

## USACE Updates

- Groundwater Study
- Glenbrook Road
- 3Rs Munition Education and Awareness Mailer

## Future Partners Agenda Development

# SPRING VALLEY GLENBROOK ROAD SITES

PARTNER'S UPDATE  
JUNE 2021



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# 4825 Glenbrook Road - Recent Activities

- Continued to perform backfilling, compaction, and erosion and sediment (E&S) controls maintenance activities in May and June
- Began waterline restoration on May 6<sup>th</sup>



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## 4825 Glenbrook Road - Recent Activities (Cont.)



Final waterline connections made May 12<sup>th</sup>



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## 4825 Glenbrook Road - Recent Activities (Cont.)



- On June 2<sup>nd</sup> began hauling topsoil to the site
- On June 7<sup>th</sup> the sewer manhole closest to AU was lowered 2 feet to match final grade



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## 4825 Glenbrook Road - Recent Activities (Cont.)



On June 14<sup>th</sup> began restoring fence along 4801/4825 Glenbrook Rd property boundary with fence restoration completed on June 17<sup>th</sup>



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# 4825 Glenbrook Road - Recent Activities (Cont.)



- On June 18<sup>th</sup> first phase of hydroseeding was completed
- On June 25<sup>th</sup> all topsoil was placed
- On June 26<sup>th</sup> and 28<sup>th</sup> final hydroseed and matting was placed.



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# 4825 Glenbrook Road – Site Specific Final Report

- Draft-Final SSFR was submitted to USACE, the TAPP contractor, USEPA and DDOE on May 10<sup>th</sup>
- Parsons will add a chapter that details the work done on 4835 Glenbrook as part of the removal action along with conclusions relative to previous RI for said property
- USACE needs regulator comments the week of July 5<sup>th</sup> in order to complete the report in time before the period performance ends on August 27<sup>th</sup>

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## Near -Term Schedule

- Maintain grass and E&S controls
- Install fence along 4835 Glenbrook Rd and American University property lines
- Dispose of excess materials and equipment
- Submit Final SSFR

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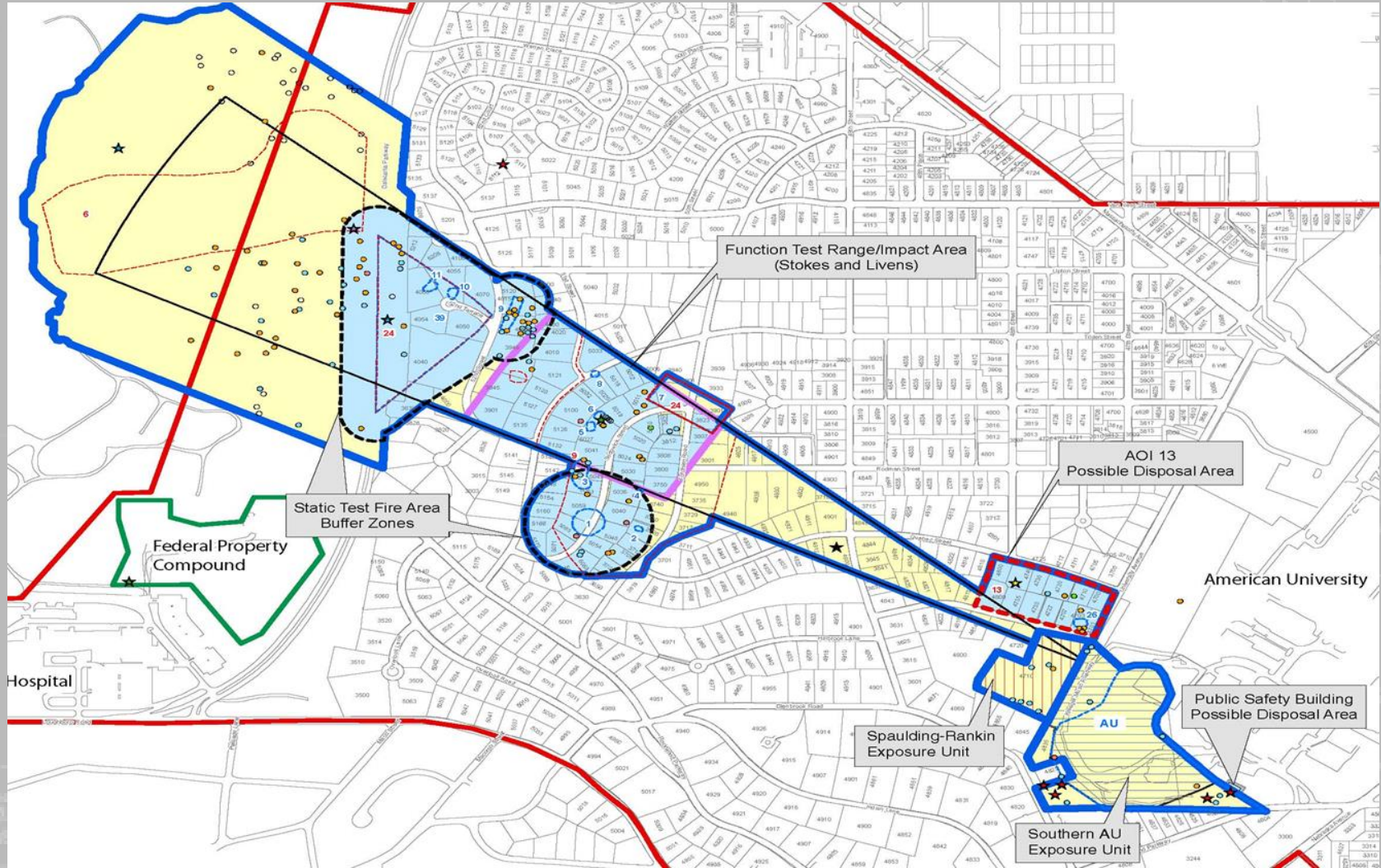




# SVFUDS SITE-WIDE REMEDIATION STATUS JUNE 2021

Weston Solutions, Inc.

June 25, 2021



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# RESIDENTIAL PROPERTIES\*



- **Property Availability** – One property approved their Landscape Plan and became available for geophysical survey. Five property owners yet to approve Landscape Plans.
- **Site Preparation** – Landscape appraisals and vegetation removal evaluations completed at three properties. One property remains to start preparation activities.





# RESIDENTIAL PROPERTIES (CONTINUED)



## Geophysical surveys:

- No geophysical surveys have been conducted since the April 23 Partners update. Next round of geophysical surveys pending completion of site preparation activities and/or property owner approvals of Landscape Plans.
- To date, geophysical surveys have been completed at 13 Fed/city lots and 85 residential properties
- Geophysical surveys remaining to be conducted include 7 residential properties



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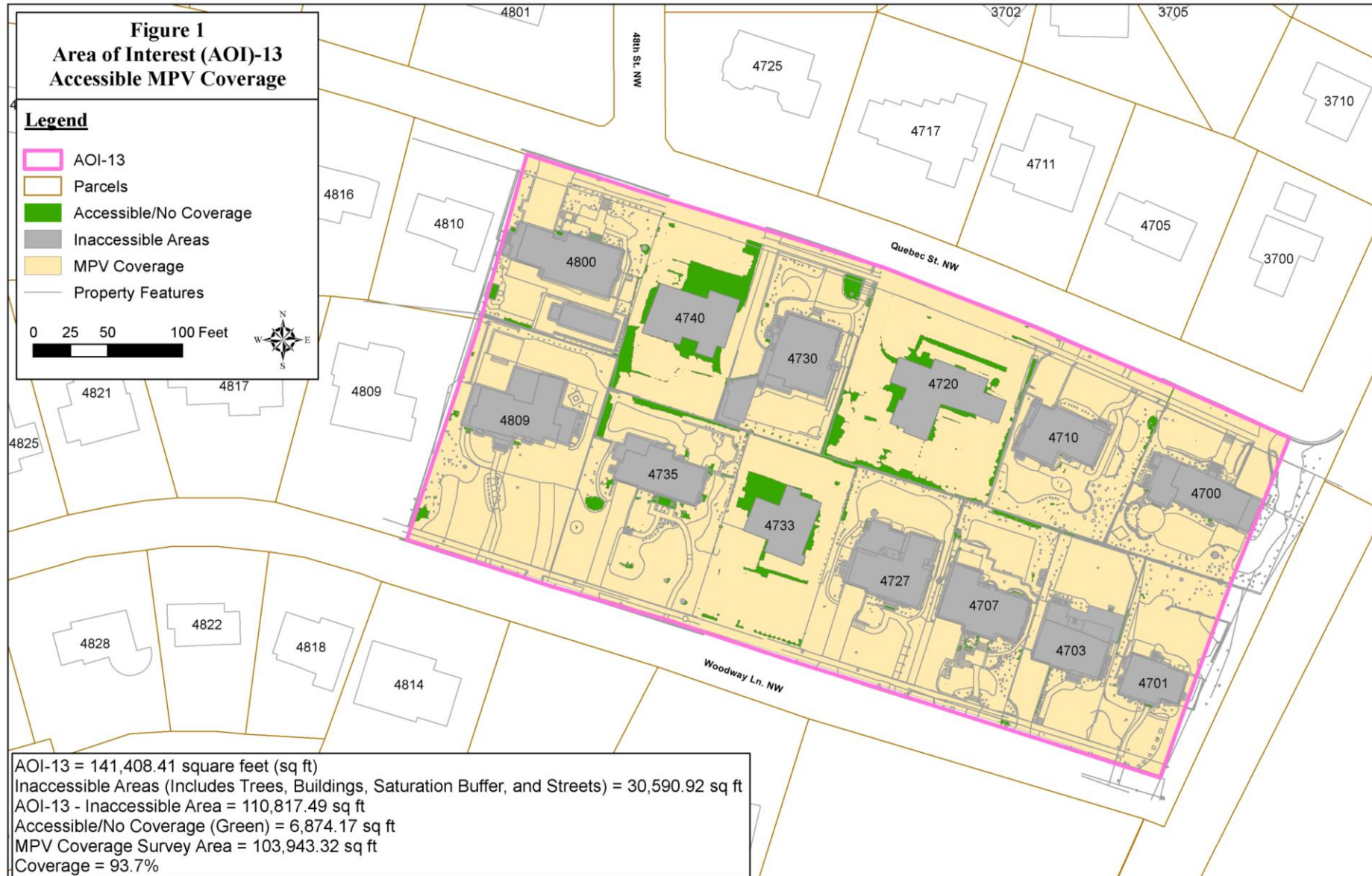




# GEOPHYSICAL SURVEY COVERAGE



4



## AOI-13

- MPV Survey Coverage of accessible areas = 93.7%
- Accessible/No Coverage areas include data gaps caused by vegetation or other obstructions that were not allowed to be removed
- Inaccessible areas include buildings, 18-inch saturation buffer, streets, and trees
- Includes coverage from MPV surveys conducted at 3 residential properties during the Pilot Study

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# GEOPHYSICAL SURVEY COVERAGE

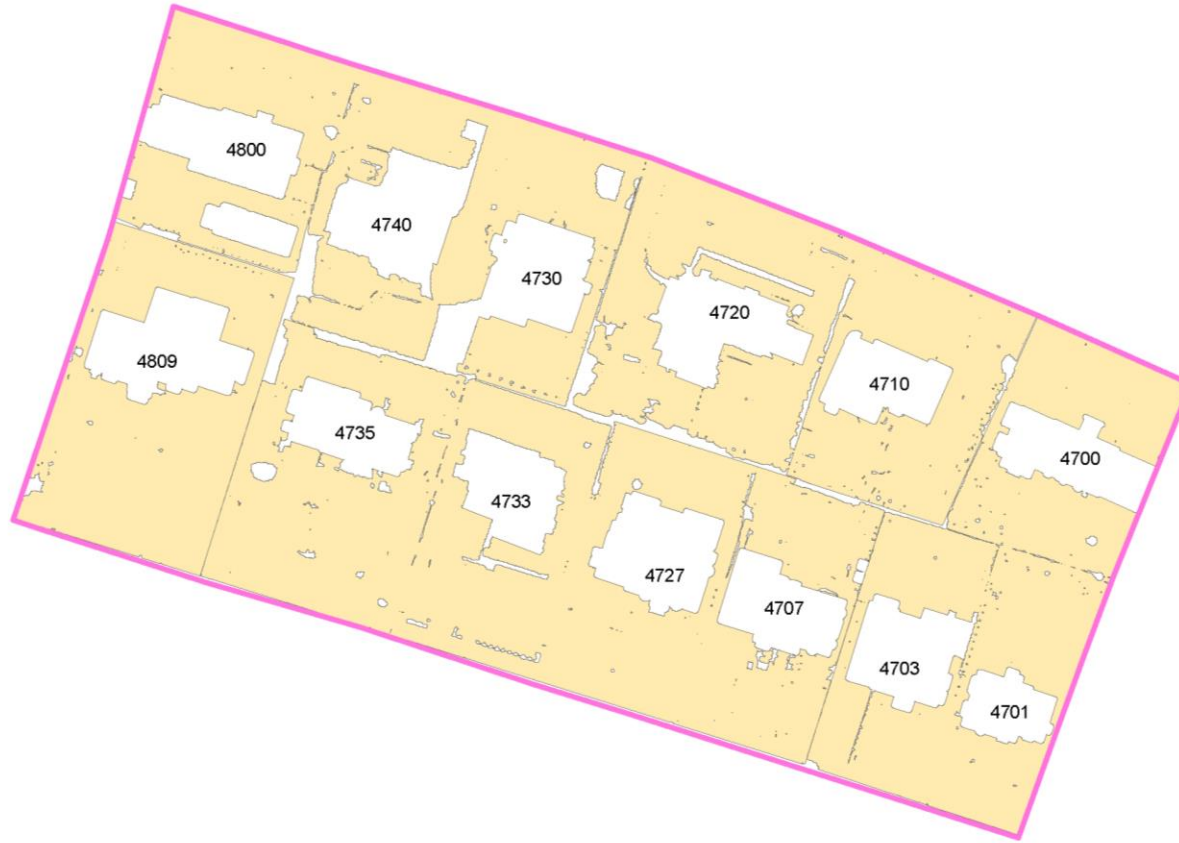


**Figure 2**  
**Area of Interest (AOI)-13**  
**Overall MPV Coverage**

**Legend**

-  AOI-13
-  MPV Coverage

0 25 50 100 Feet



AOI-13 = 141,408.41 square feet (sq ft)  
MPV Coverage Survey Area = 103,943.32 sq ft  
Survey Coverage = 73.5%

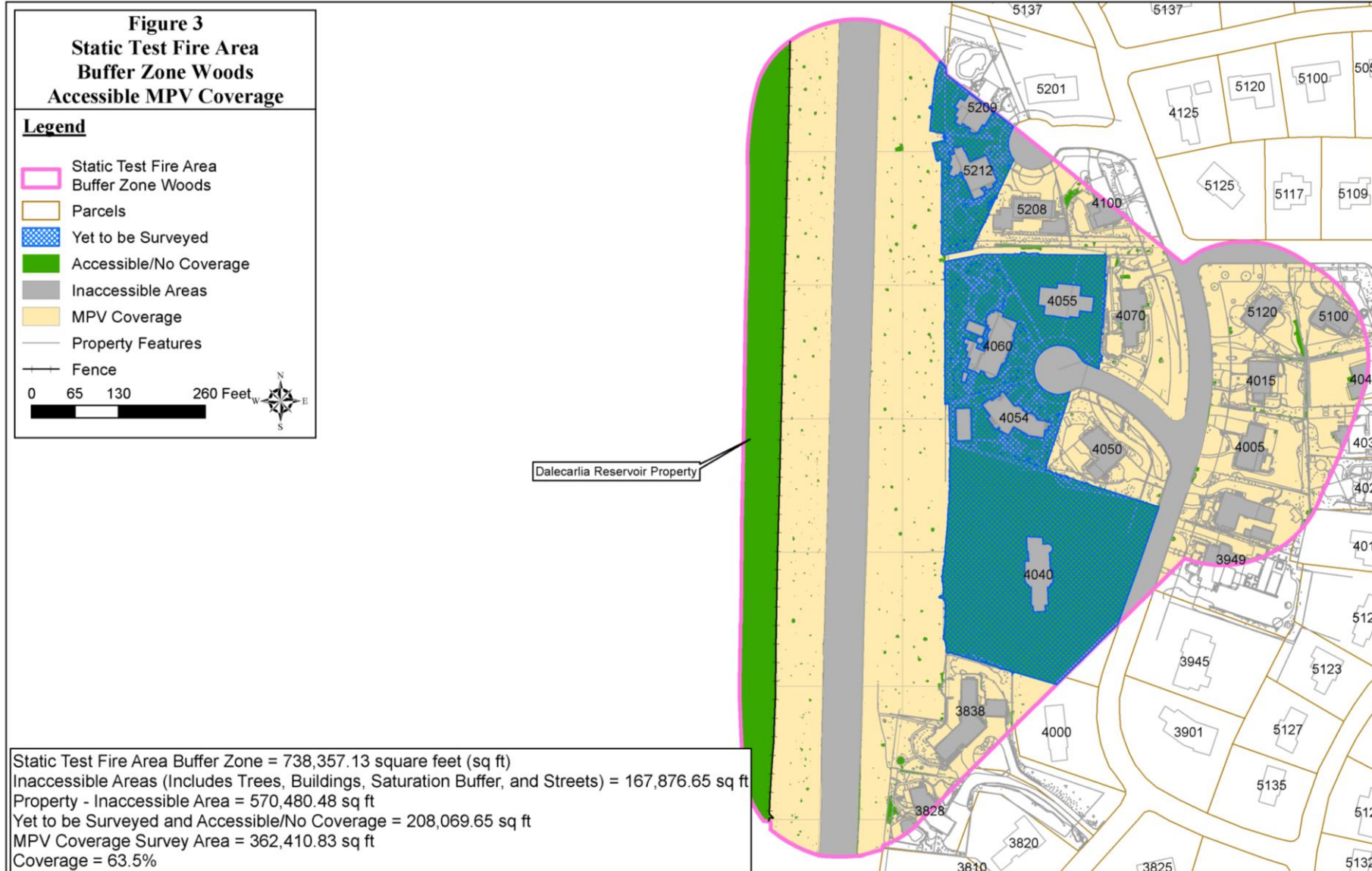
## AOI-13

- Overall MPV Survey Coverage of Area of Focus = 73.5%
- Includes coverage from MPV surveys conducted at 3 residential properties during the Pilot Study

\*not for public release\*



# GEOPHYSICAL SURVEY COVERAGE



## Static Test Fire Area West

- MPV Survey Coverage of accessible areas (Dalecarlia Reservoir property considered inaccessible) = 63.5%
- Additional inaccessible areas include buildings, 18-inch saturation buffer, streets, and trees
- Accessible/No Coverage areas include data gaps caused by vegetation or other obstructions that were not allowed to be removed
- Six properties have yet to be surveyed

\*not for public release\*



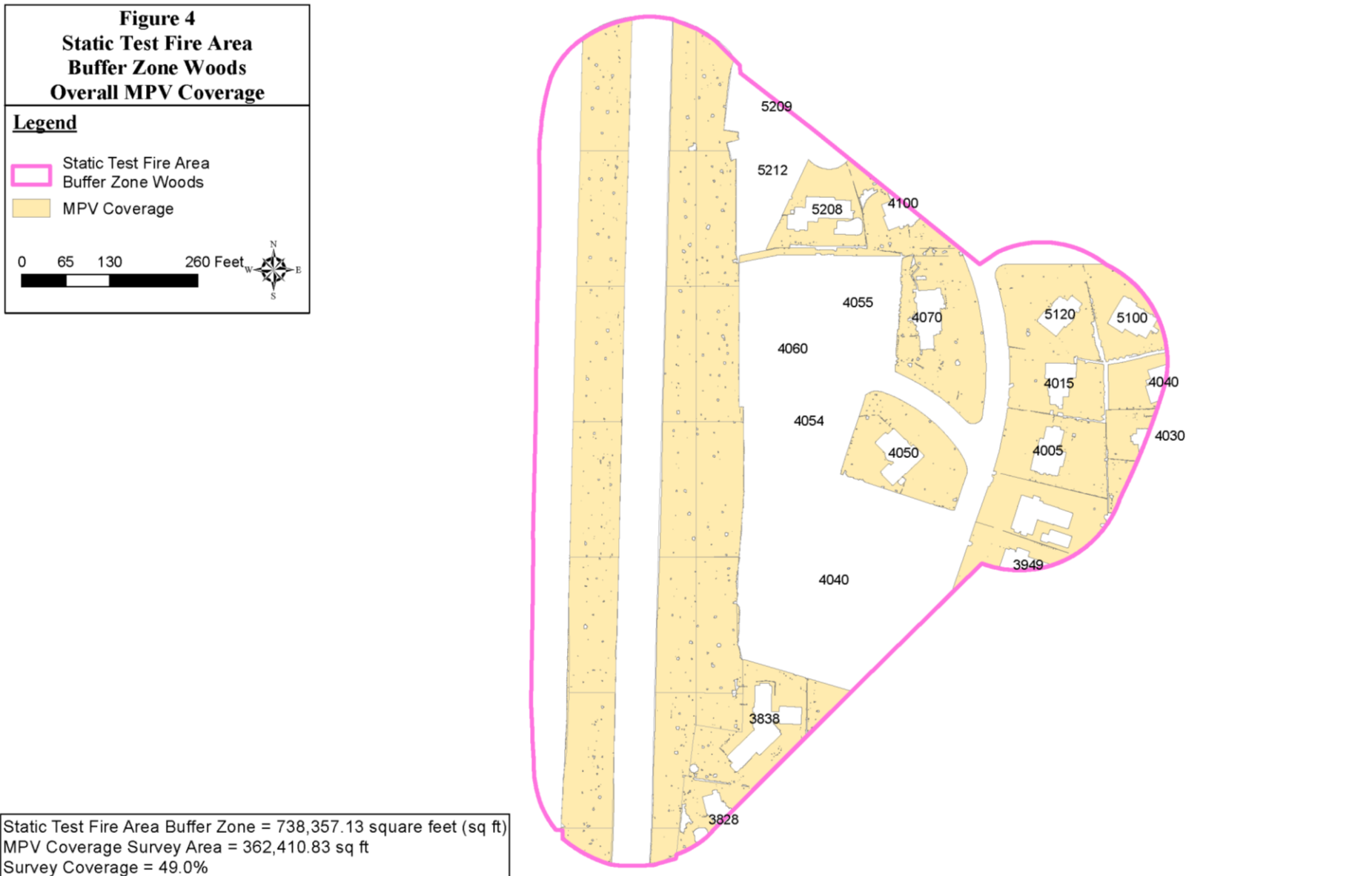
# GEOPHYSICAL SURVEY COVERAGE



## Static Test Fire Area West

- Overall MPV Survey Coverage of Area of Focus = 49%
- Six properties have yet to be surveyed

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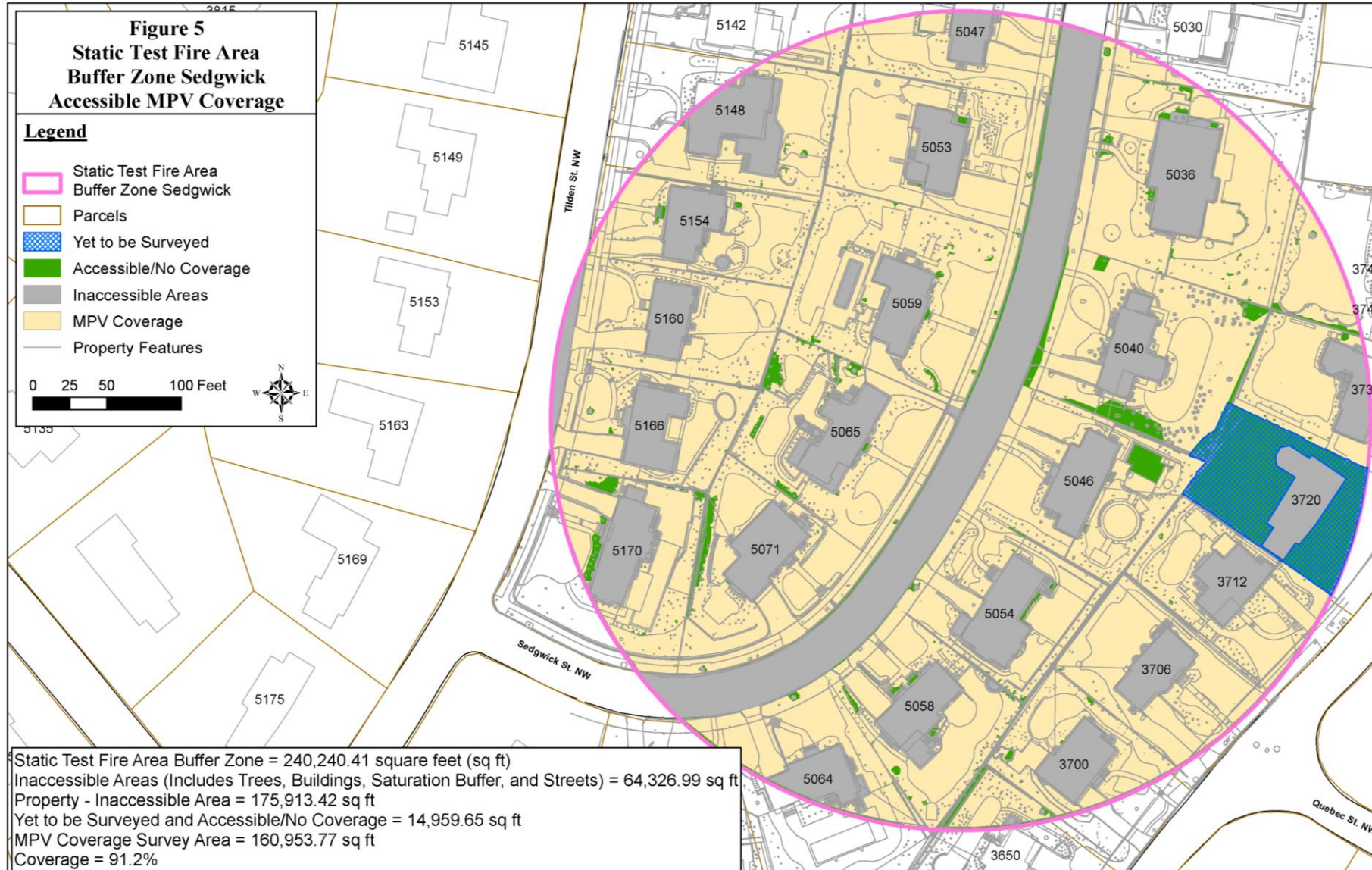






# GEOPHYSICAL SURVEY COVERAGE

8



## Static Test Fire Area East

- MPV Survey Coverage of accessible areas = 91.2%
- Accessible/No Coverage areas include data gaps caused by vegetation or other obstructions that were not allowed to be removed
- Inaccessible areas include buildings, 18-inch saturation buffer, streets, and trees
- One property has yet to be surveyed

\*not for public release\*



# GEOPHYSICAL SURVEY COVERAGE

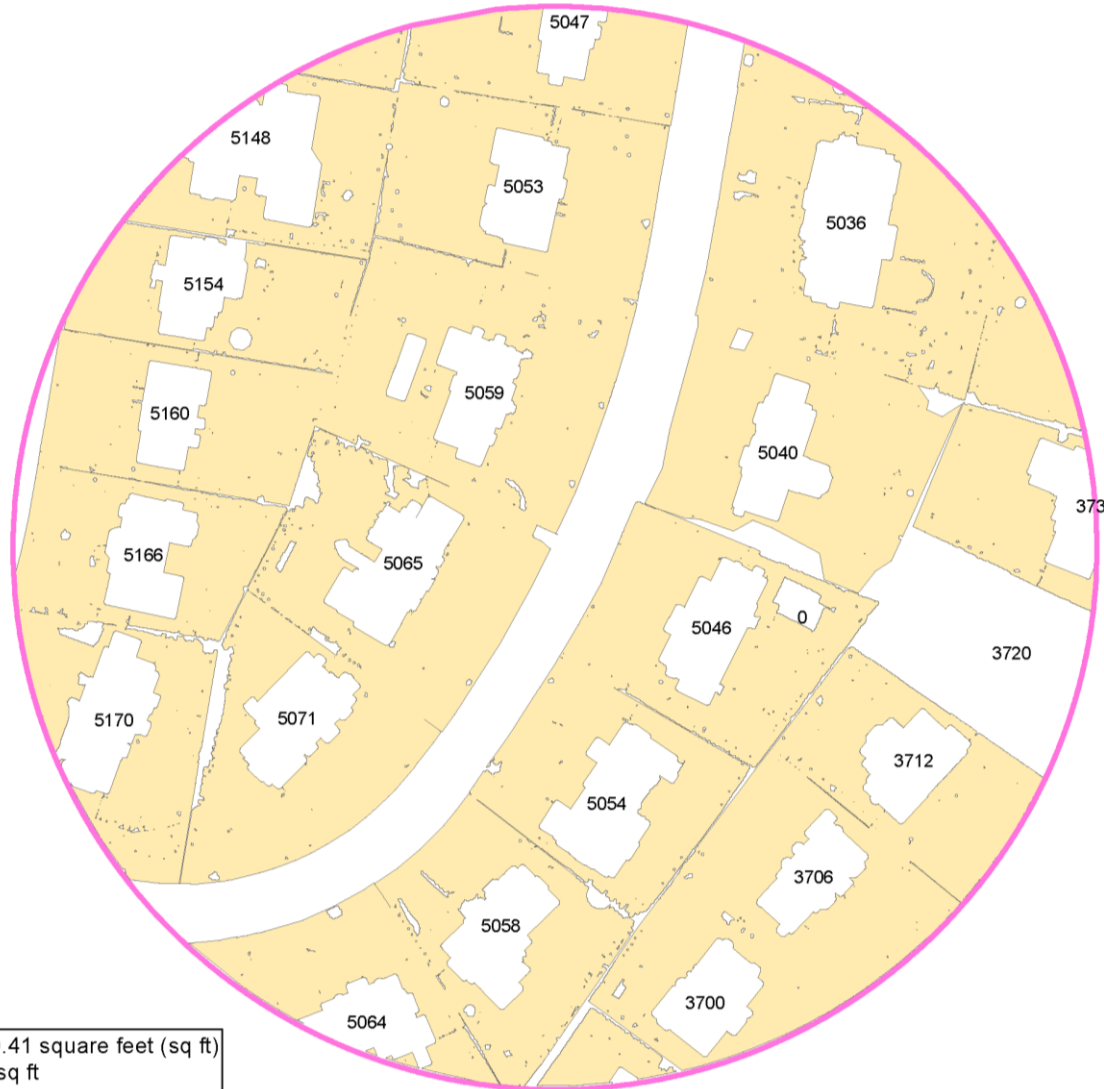


**Figure 6**  
**Static Test Fire Area**  
**Buffer Zone Sedgwick**  
**Overall MPV Coverage**

**Legend**

- Static Test Fire Area
- Buffer Zone Sedgwick
- MPV Coverage

0 25 50 100 Feet



Static Test Fire Area Buffer Zone = 240,240.41 square feet (sq ft)  
MPV Coverage Survey Area = 160,953.77 sq ft  
Survey Coverage = 66.9%

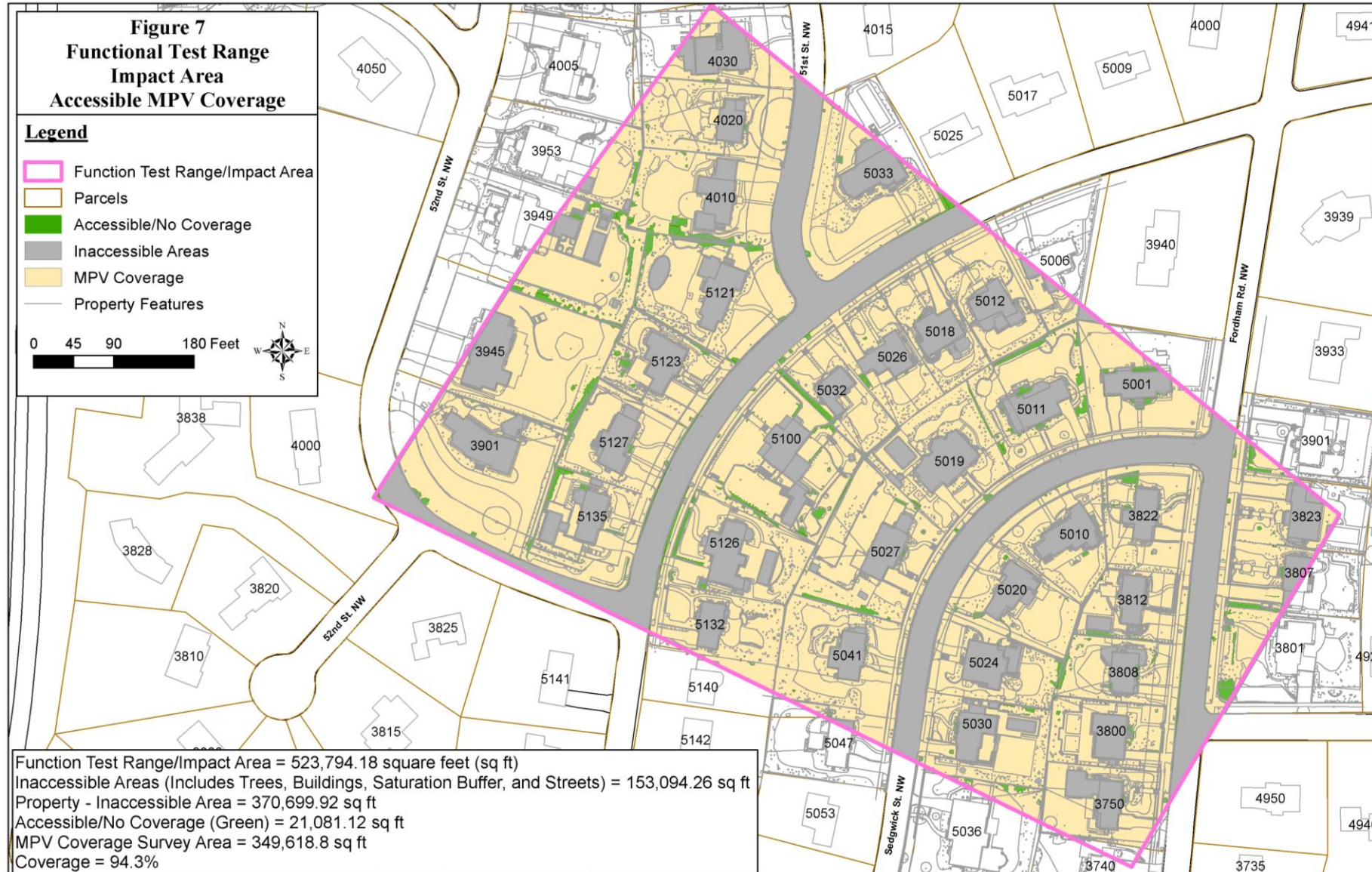
## Static Test Fire Area East

- Overall MPV Survey Coverage of Area of Focus = 66.9%
- One property has yet to be surveyed

\*not for public release\*



# GEOPHYSICAL SURVEY COVERAGE



## Function Test Range Impact Area

- MPV Survey Coverage of accessible areas = 94.3%
- Accessible/No Coverage areas include data gaps caused by vegetation or other obstructions that were not allowed to be removed
- Inaccessible areas include buildings, 18-inch saturation buffer, streets, and trees

\*not for public release\*



# GEOPHYSICAL SURVEY COVERAGE

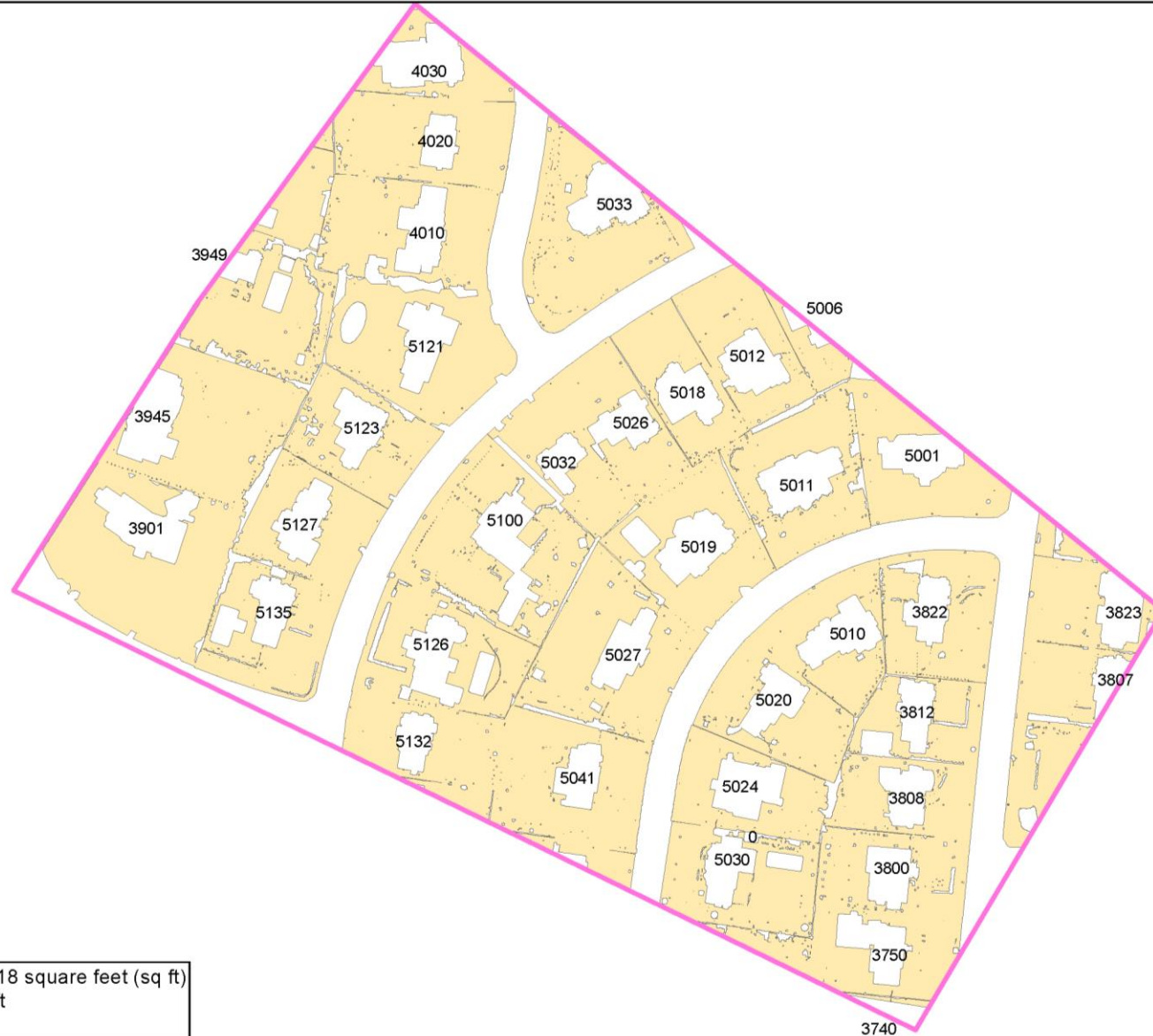
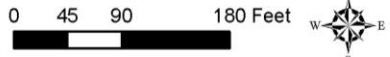


**Figure 8**  
**Functional Test Range**  
**Impact Area**  
**Overall MPV Coverage**

**Legend**

 Function Test Range/Impact Area

 MPV Coverage



Function Test Range/Impact Area = 523,794.18 square feet (sq ft)  
MPV Coverage Survey Area = 349,618.8 sq ft  
Survey Coverage = 66.7%

## Function Test Range Impact Area

- Overall MPV Survey Coverage of Area of Focus = 66.7%

\*not for public release\*





# INTRUSIVE INVESTIGATIONS UPDATE

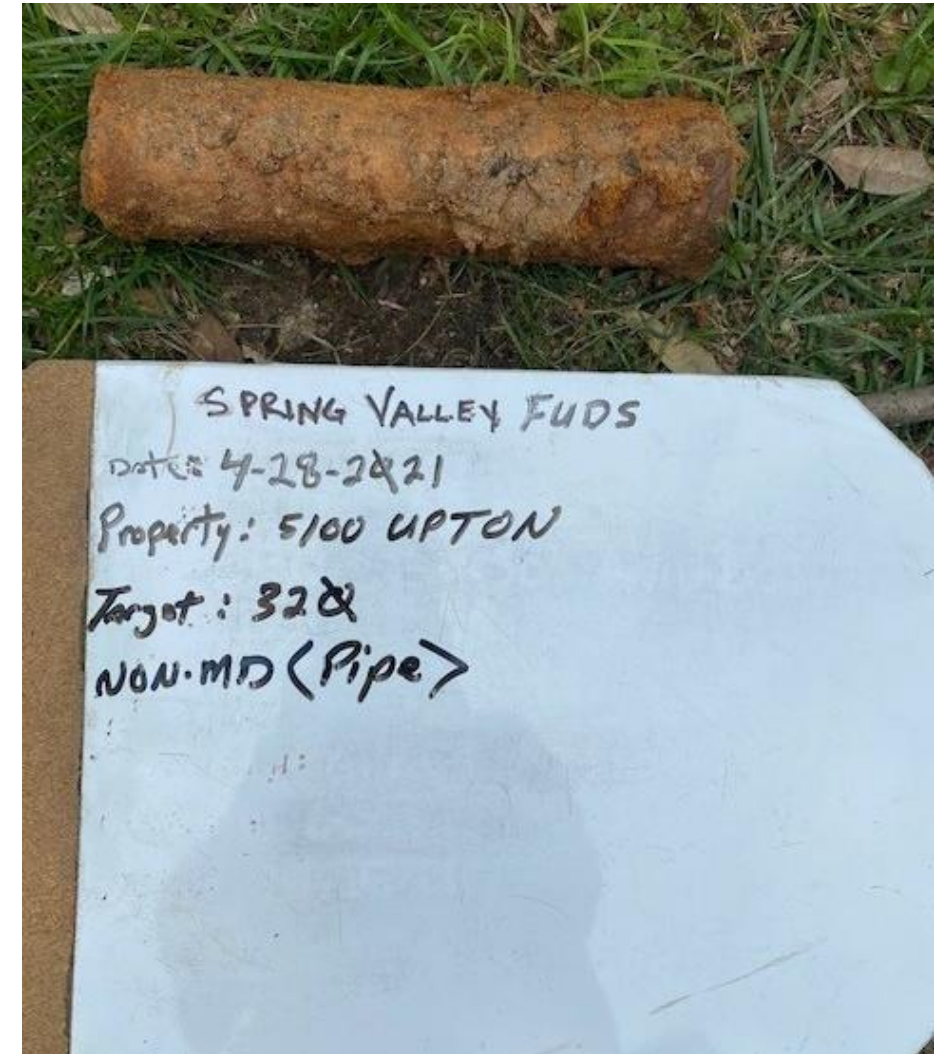


## Intrusive Investigations:

- Hardscape digs were completed on April 28, 2021 at 5100 Upton (one target on driveway apron), 5166 Tilden (two targets on the sidewalk), and 4100 52<sup>nd</sup> Street (one target on a slate and concrete patio).

## Intrusive Investigation Results:

- No MEC/MPPEH/MD items recovered.
- Three metal pipes and a large bolt were recovered.



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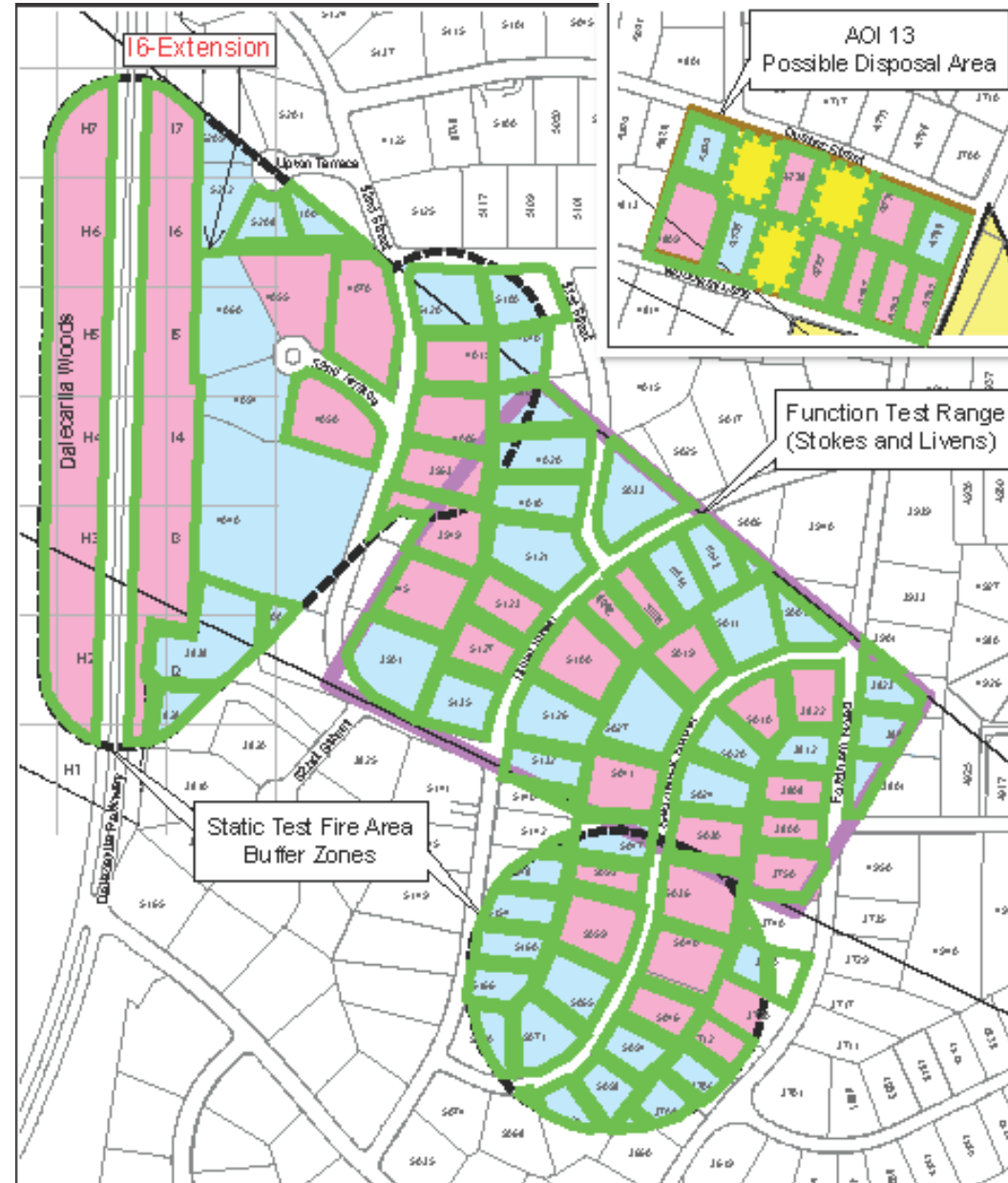


# RESIDENTIAL PROPERTIES – INTRUSIVE STATUS

13



- 85 residential properties and 13 federal/city lots completed to date



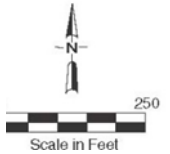
Intrusive Investigations:

Complete

Completed during 2016  
Pilot Study

Remediation Planned  
previous DGM completed

Remediation Planned  
as listed in PWS



\*not for public release\*





# RESIDENTIAL PROPERTIES – INTRUSIVE DATA



## Intrusive Statistics:

- 85 residential properties completed to date (92%)
- 2795 targets investigated
- MD recovered = 133 (4.7% of total digs)
- MEC recovered (including Civil War cannonball) = 3 (0.11% of total digs)
- WW1-era MEC recovered = 2 (0.07% of total digs)

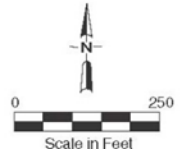


## Intrusive Investigations:

Property/Lot Completed

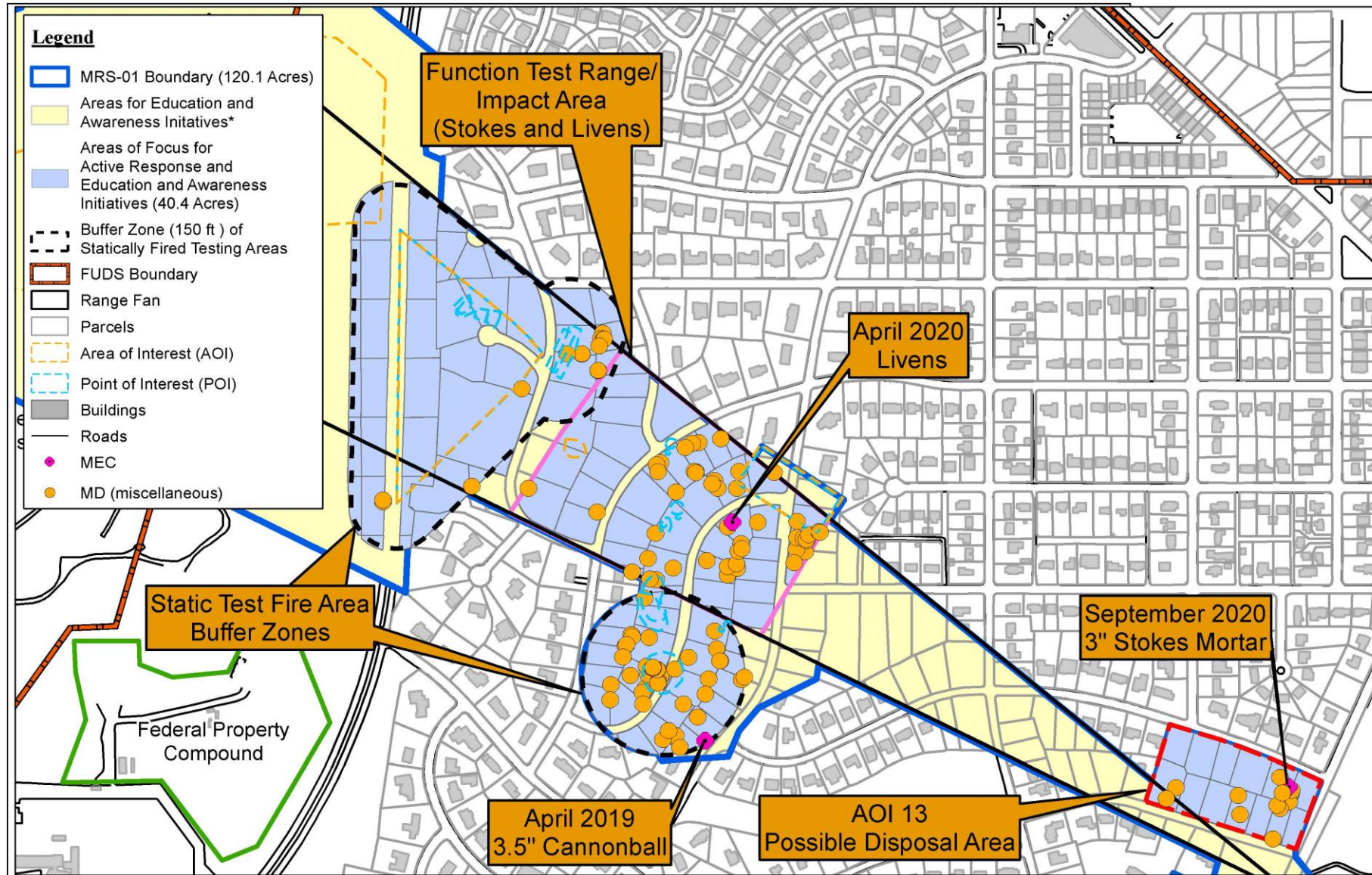
Completed during 2016 Pilot Study

- Remediation Planned previous DGM completed
- Remediation Planned as listed in PWS



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# RESIDENTIAL PROPERTIES – RA MEC/MD FINDS



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# RESIDENTIAL PROPERTIES – GENERAL STATUS

16



- Work initiated at 91 of 92 properties
- One property yet to begin RA process
- Property owner approval of landscape plans pending at 4 properties
- Two properties have an approved Landscape Plan



## Current Property/Grid Status (92/13.5):

Yet to begin RA process (1/0)

Pending Homeowner LSP Approval (4/0)

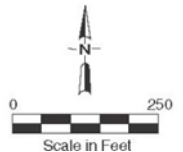
Homeowner Approved LSP (2/0)

Intrusive Complete (85/13)

Completed during 2016 Pilot Study

Remediation Planned  
previous DGM completed

Remediation Planned  
as listed in PWS



\*not for public release\*



# RESIDENTIAL PROPERTIES – DELIVERABLES\*

- **Property Specific Data Summary (PSDS) Reports** – No Draft Final PSDS documents have been developed since the last Partners presentation.
- **Root Cause Analyses (RCAs)/Field Variance Forms (FVFs)** – No new RCAs or FVFs have been issued since the last Partners presentation.





# RESIDENTIAL PROPERTIES – SCHEDULE

- **Landscape Plans** – Meeting with the Algerian Embassy to discuss the Draft Landscape Plan scheduled for June 29, 2021. Landscape Plan meetings at 3 will be scheduled upon approval of the Draft Landscape Plans.
- **Geophysical Surveys** – Schedule for geophysical surveys at 7 remaining properties pending completion of site preparation activities and/or property owner approvals of Landscape Plans.

# PUBLIC SAFETY BUILDING UPDATE



- Completed excavation under the former PSB slab on 21 January 2021 and backfill on 23 March 2021.
- Completed Rotosonic drilling & test pit AUES debris slope investigation on 12 April 2021.
- All PSB Confirmation Soil Sample results for Grids met the cleanup criteria.



\*not for public release\*



# PUBLIC SAFETY BUILDING UPDATE (PAGE 2)



- Demobilized from the PSB site on April 16<sup>th</sup>.
- Completed E&S Control Inspections on May 18<sup>th</sup>, June 4<sup>th</sup> and June 16<sup>th</sup>.
- Shipped last 4 PSB soil roll-offs to King & Queen Landfill: week of June 14<sup>th</sup>.
- White Pine tree inside PSB area blow down in wind-storm: May 4<sup>th</sup>. Replaced security fence section.



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# PUBLIC SAFETY BUILDING STATUS

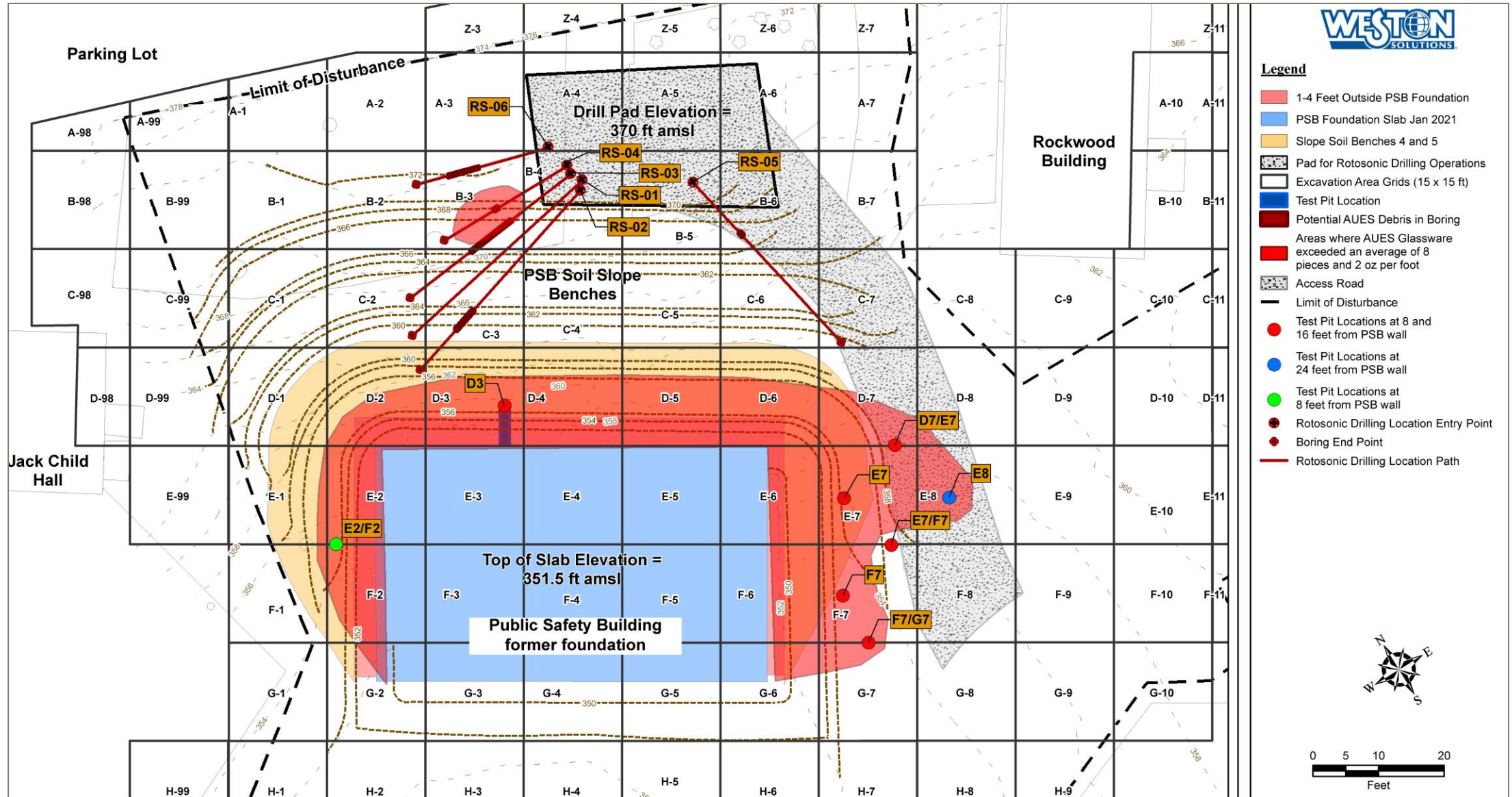


- Completed the Rotosonic drilling and Test Pit investigation to determine extent of AUES debris north, east & west of the PSB foundation slab on April 12<sup>th</sup>.
- Submitted the Final Technical Memorandum with the Public Safety Building Test Pit Excavation and Rotosonic Drilling investigation results on June 23<sup>rd</sup>.
- Currently, USACE is developing the scope of work to complete the excavation of AUES debris observed east, north and west of the former PSB foundation.





# PSB SLOPE INVESTIGATION RESULTS MAP



\*not for public release\*



# PSB: TEST PIT AVERAGE AUES DEBRIS/FOOT

Test Pit ID	Initial Pit Elevation	Final Pit Elevation (ft. amsl)			Pit/Boring AUES Debris Interval (ft)	Debris Interval No. Feet	AUES Debris Average/Foot
	(ft. amsl)						
E2F2	355.0	349.0	No. Glass Pieces	95	0-3	3	31.7
			Glass Weight - oz	43		3	14.3
D7E7	358.1	349.1	No. Glass Pieces	185	0-5, 7-8	6	30.8
			Glass Weight - oz	97		6	16.2
E7	353.0	347.0	No. Glass Pieces	76	0-5	5	15.2
			Glass Weight - oz	42.5		5	8.5
E8	357.3	348.3	No. Glass Pieces	30	1-3, 4-5	3	10.0
			Glass Weight - oz	7.8		3	2.6
E7F7	354.9	348.9	No. Glass Pieces	10	0-1, 4-5	2	5.0
			Glass Weight - oz	4.5		2	2.3
F7	352.7	347.7	No. Glass Pieces	85	0-4	4	21.3
			Glass Weight - oz	33		4	8.3
F7G7	354.0	349.0	No. Glass Pieces	50	0-4	4	12.5
			Glass Weight - oz	9.2		4	2.3
D3	351.0	347.0	No. Glass Pieces	100+	1-3	2	50+
			Glass Weight - oz	51		2	25.5

## Notes:

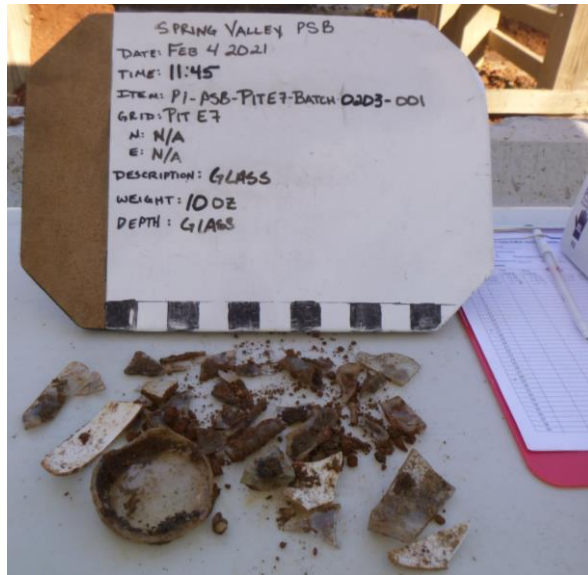
Gray shaded results represent AUES debris layer: Over 15 glass pieces and glass weighing more than 5 ounces.

**Bold** results represent AUES debris with over 8 glass pieces and glass weighing more than 2 ounces.

\*not for public release\*



# PSB – TEST PIT PHOTOS



Test Pit E8 Excavated to 9 ft



\*not for public release\*



# PSB: ROTOSONIC AVERAGE AUES DEBRIS/FOOT

Rotosonic Drilling ID	Angle of Drilling (°) from Horizontal	Total Depth (TD) Elevation (ft. amsl)			Pit/Boring AUES Debris Interval (ft)	Debris Interval No. Feet	AUES Debris Average/Foot
			No. Glass Pieces				
RS-01	39.1	341.6	No. Glass Pieces	0	NA	0	0
			Glass Weight - oz	0		0	0
RS-02	34.8	344.3	No. Glass Pieces	1	30-35	5	0.2
			Glass Weight - oz	0.1		5	0.02
RS-03	39.2	344.7	No. Glass Pieces	8	20-22	2	4
			Glass Weight - oz	0.6		2	0.3
RS-04	43.0	349.5	No. Glass Pieces	20	17-18	1	20
			Glass Weight - oz	7.2		1	7.2
RS-05	42.5	339.6	No. Glass Pieces	1	14-15	1	1
			Glass Weight - oz	0.1		1	0.1
RS-06	46.0	348.4	No. Glass Pieces	1	16-23	7	0.14
			Glass Weight - oz	0.1		7	0.01

## Notes:

Gray shaded results represent AUES debris layer: Over 15 glass pieces and glass weighing more than 5 ounces.

**Bold** results represent AUES debris with over 8 glass pieces and glass weighing more than 2 ounces.



# ROTOSONIC SOIL CORES AND DEBRIS PHOTOS



**Rotosonic borehole RS-03** soil core on table after UXO Techs checked and sorted any debris and Geologist described the soil properties.



**Rotosonic borehole RS-04** glass debris encountered at 17-18 feet with sample collected for CCDC headspace screening.

\*not for public release\*

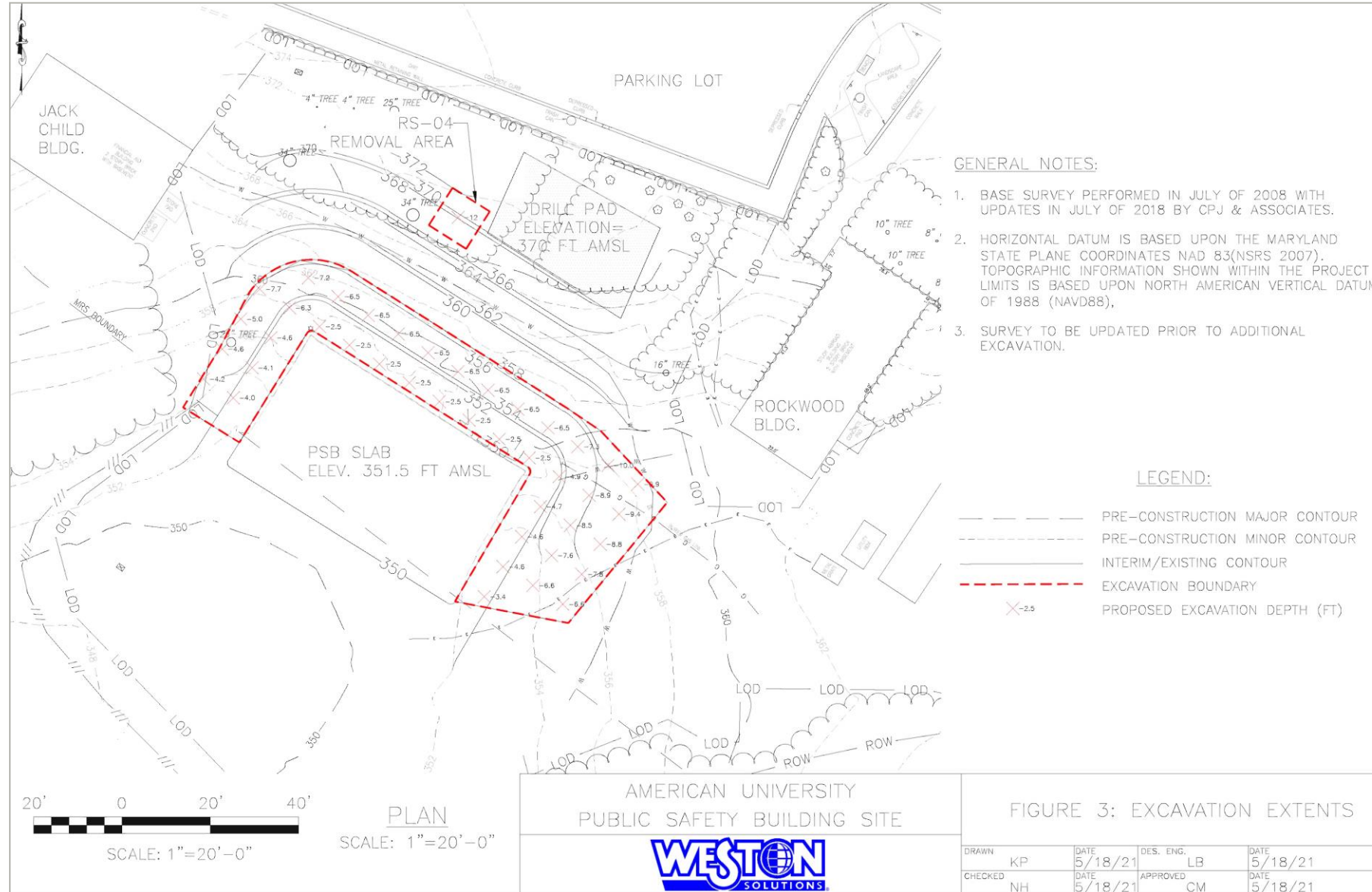


# PSB SLOPE INVESTIGATION ANALYSIS

- Averaging the AUES debris observations by foot helps to identify locations where AUES debris layers were encountered in the test pits and borings:
  1. AUES Debris Layer: locations where over 15 glass pieces and glass weighing more than 5 ounces were observed per foot.
  2. Edge of AUES glassware: locations with less than 8 glass pieces and glass weighing less than 2 ounces were observed per foot.
- Preliminary estimation of AUES debris and soil removal volumes (720 Cubic Yards) for PSB Slope Areas:
  1. 439 CY - Slope soil above AUES debris layer requiring UXO Tech visual observation and storage for re-use during restoration.
  2. 281 CY – AUES Debris Layers requiring UXO Tech screening on the sorting table and disposal.



# PSB SLOPE PROPOSED EXCAVATION EXTENT



# PUBLIC SAFETY BUILDING - PHOTOS



**PSB Demobilized** – June 15<sup>th</sup> Photo looking north up the site from south of the PSB foundation excavation.



**Waste Disposal** – Loading one of the final four excavated soil roll-offs waiting for disposal transport to King & Queen Landfill.

\*not for public release\*





# PSB SCHEDULE



- Prepared the Final PSB Slope Investigation Report – 23 June 2021.
- Based on the investigation results USACE will determine the scope of work to excavate the extent of AUES debris identified during the investigation.
- Once funding has been obtained and the work awarded, additional plans will be required before re-starting the soil remediation work – this will entail a demobilization and delay of many months before the work is awarded and the required planning documents are prepared and approved.
- Slope Soil Removal not expected to begin until fall 2021.
- Restoration work would start after completing the north/east slope investigation and slope soil excavation and backfilling and include rebuilding the PSB slope and removing the access road.
- Landscape restoration work will be coordinated with American University – based on the approved landscape restoration plan.



# LUCIP - INSTITUTIONAL NOTICE

- **Institutional Notice Distribution** - USACE distributed an Institutional Notice, Site 3Rs Brochure, Site Map and a 4-minute Munitions Safety Video to the 7 listed institutions on 12 May 2021.
- **The Spring Valley FUDS Land Use Control Implementation Plan** (LUCIP - Weston, 2018) specifies the implementation of the 3Rs, Explosive Safety Education Program for the residents and institutions involved with the Spring Valley FUDS site including the following 7 institutions: USEPA, DOEE, Washington Aqueduct, American University, National Park Service, Sibley Memorial Hospital and Wesley Theological Seminary.
- **The Munitions Safety Video** can be viewed on the US Army Corps of Engineers, Baltimore District Website for Spring Valley.





# QUESTIONS?



Please contact Dan Noble with any questions or concerns. USACE will set up a call to address any issues and answer questions, as needed. Dan's contact information is below:

[Dan.G.Noble@usace.army.mil](mailto:Dan.G.Noble@usace.army.mil)



# GROUNDWATER STUDY



Following the confirmation groundwater sampling event in March, USACE is developing a contract action to hire a contractor to prepare the documentation supporting the No Further Action decision reached by the Partners.



*Groundwater sampling well*





# GLENBROOK ROAD LEASES



- The Army Corps has allowed the 4835 lease to expire at the end of January 2021. USACE will finalize an agreement with American University for damages incurred during the USACE lease of the property.
- The restoration efforts at the 4825 are nearing completion, and USACE intends to let the lease expire on 31 July 2021 with no further renewal.



# SITE-WIDE REMEDIAL ACTION

## Munition Education and Awareness

The 'Land Use Control Implementation Plan,' or LUCIP, is made up of two main efforts: the 3Rs of the Explosive Safety Education Program (*Recognize, Retreat, Report*) and 5-year reviews.

In June, USACE prepared and mailed the Residential 3Rs notification and the annual FUDS information notice to all Spring Valley FUDS homeowners. The first distribution occurred in 2019 and will continue annually every spring.







# SPRING VALLEY PARTNERS



## Reminders:

- Due to continued concerns surrounding the COVID-19 pandemic, the next Partners meeting for **August** will likely be an electronic update in lieu of an in-person meeting once again.
- Our team is continually monitoring the situation closely and is open to discuss plans for future in-person or conference call meetings.



## Upcoming Agenda Items:

- *Suggestions?*