

SPRING VALLEY FORMERLY USED DEFENSE SITE

Restoration Advisory Board Meeting
July 2020



US Army Corps
of Engineers®



AGENDA REVIEW

Co-Chair Updates

- Website Updates

Task Group Updates

- TAPP Contractor

USACE Updates

- Site-Wide Remedial Action
- Glenbrook Road
- Groundwater Study

Future RAB Agenda Development





SPRING VALLEY FUDS RESTORATION ADVISORY BOARD



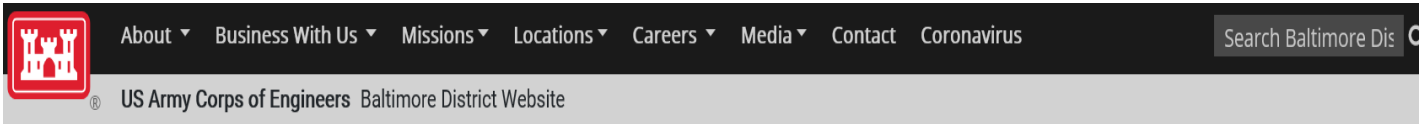
CO-CHAIR UPDATES

Website Updates





CO-CHAIR UPDATES



[Home](#) / [Spring Valley](#)

Announcements

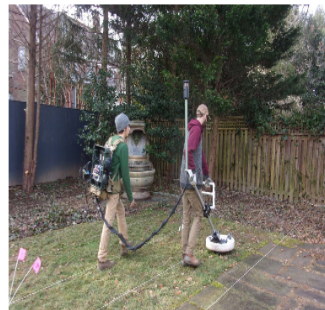
--- Next Restoration Advisory Board Meeting - July 14, 2020

Due to health concerns surrounding COVID-19, our May RAB meeting has been cancelled. The presentation for this meeting will be uploaded on the project website. The next RAB meeting will **tentatively be held on Tuesday, July 14th at 7 p.m.** These meetings are open to the public. Currently, the RAB meets every other month for 60-90 minutes in the 'Undercroft' meeting room at St. David's Episcopal Church, 5150 Macomb Street NW, D.C.

(Please note - The St. David's Episcopal Church staff have asked that we refrain from using the outside stairwells as a safety precaution due to water issues, poor lighting, and lack of stairs with grips; and use the bell tower entrance (which has internal stairs and an elevator). There will be signs clearly posted to direct RAB meeting attendees to the new entrance. We thank you in advance for following the request of our hosts, the St. David's Episcopal Church.)

--- Final Site-Wide Decision Document Now Available:

The Final Site-Wide Decision Document is complete and is now available at the Information Repository and for download here on our site. The Decision Document outlines the selected remedies to address both unacceptable risks posed by soil contamination and unacceptable explosive hazards posed by the possible presence of munitions and explosives of concern (MEC).



Website Updates:

- May and June Monthly Site-Wide Project Updates
- Weekly 4825 Glenbrook Rd Project Updates with photos
- April and June Partner meetings were not held and project update presentations were posted; in lieu of meeting minutes



SPRING VALLEY FUDS RESTORATION ADVISORY BOARD

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TASK GROUP UPDATES

New TAPP Contractor





TASK GROUP UPDATES



New RAB Technical Assistance for Public Participation (TAPP) Advisor

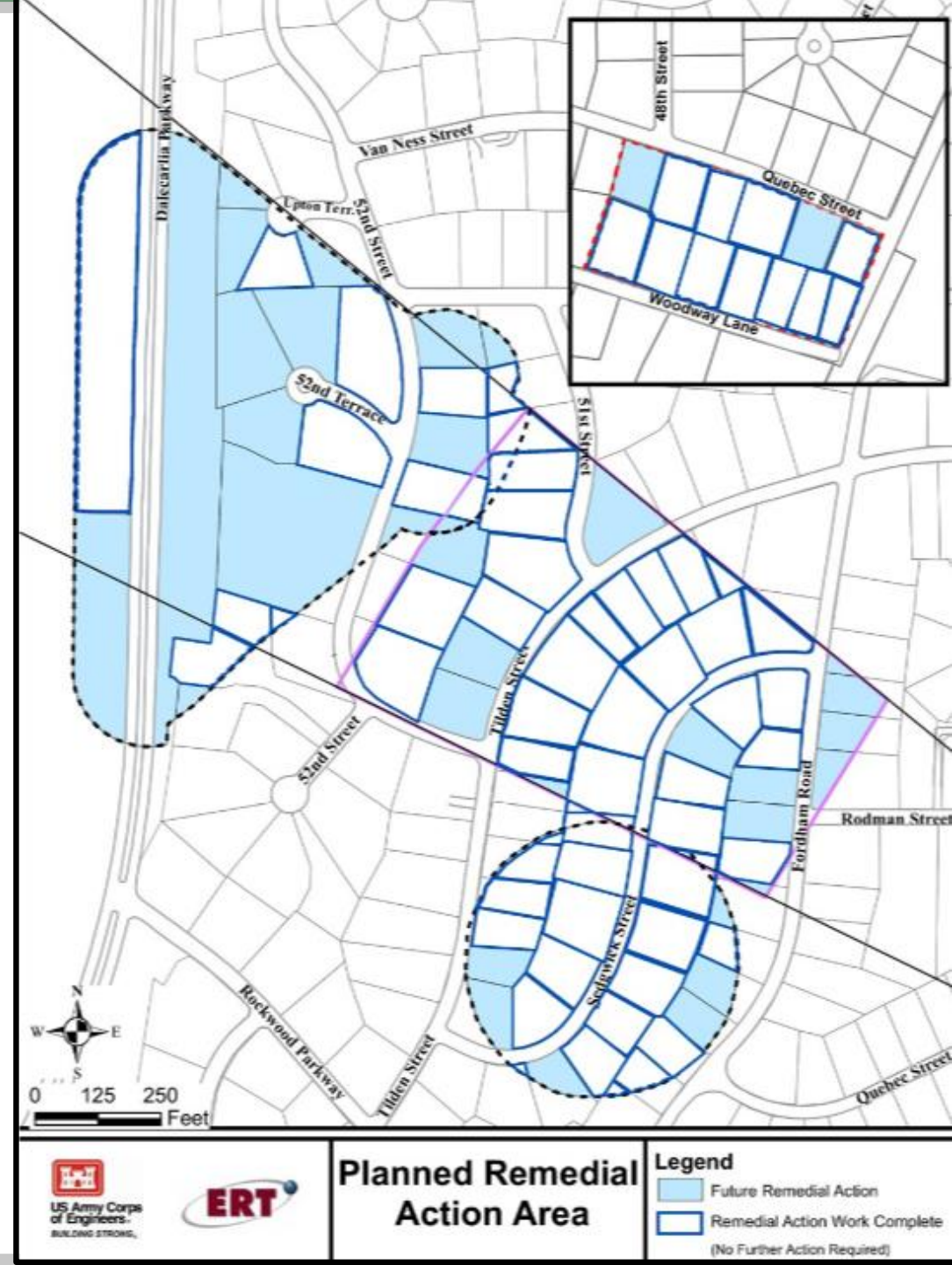
- Following the January RAB meeting, the RAB submitted electronic votes to secure Devamita Chattopadhyay, Ph.D., a local Environmental/Chemical Engineer, for the Spring Valley RAB TAPP position.
- Following the RAB's decision, the 8A contract to the original contractor had expired. USACE worked to redirect the offer to Dr. Chattopadhyay through another firm.
- The two year contract for the TAPP advisor has been approved by USACE Headquarters. A contract will be awarded before the end of the fiscal year.



SITE-WIDE REMEDIAL ACTION

Final Survey effort at 92 Residential Properties & 13 Federal/City Lots:

- Currently working on 86 residential properties at different stages of the remedial action process.
- 85 civil surveys and 85 arborist surveys have been completed.
- 85 properties have been visited by the geophysicist team, who provide technical recommendations on plant removal.
- Vegetation has been removed from 65 private properties and 13 City/Fed lots.
- Geophysical surveys completed at 61 private properties and 7 City/Fed lots off Dalecarlia Parkway.
- Anomaly removal completed at 60 private properties and 4 City/Fed lots off Dalecarlia Parkway.
- Issued 18 Assurance Letters.





SPRING VALLEY FUDS RESTORATION ADVISORY BOARD



SITE-WIDE REMEDIAL ACTION (RA)

92 Properties - USACE Updates

The project team continues to implement safety measures in response to COVID-19 including: daily health monitoring of all workers, wearing masks, decontaminating tools, frequent hand washing, and social distancing.





SITE-WIDE REMEDIAL ACTION

Landscape removal and site preparation for geophysical surveys at residential properties and the Dalecarlia Parkway

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The team continues to work with homeowners to approve of their landscape removal plans.

Once the plans are approved by the homeowners and the Army Corps, the approved plants are removed in preparation for the geophysical surveys.



The team carefully conducting vegetation removal



SITE-WIDE REMEDIAL ACTION

Geophysicists conducting Dynamic and Cued surveys to characterize metallic anomalies (metal) underground with the Man Portable Vector (MPV) at another group of residential properties.



Surveying with the MPV with an additional attachment in Cued mode

After the Dynamic surveys are complete and that data has been processed, the team begins the MPV survey in Cued mode.

The Cued survey collects data for each detected anomaly in order to help the team characterize the metallic anomalies and create a dig list.



Man Portable Vector (MPV)



G-858

SITE-WIDE REMEDIAL ACTION

Quality Control tests on survey equipment at the federal property

The team routinely conducts Quality Control (QC) function tests of the G-858 and MPV (Man Portable Vector) survey equipment.

These tests act as an additional assurance check on the geophysical survey data being collect by the survey team.



Function test with the MPV



Function tests with the G-858 magnetometer



SITE-WIDE REMEDIAL ACTION

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Site restoration efforts following the completion of the most recent intrusive investigation activities



The project team conducting landscape and driveway restorations





SITE-WIDE REMEDIAL ACTION

Tentative Schedule



Summer 2020

- Continue finalizing plant removal plans with subsequent groups in preparation for geophysical surveys.
- Continue obtaining Rights-of-Entry from the next group of homeowners.
- Continue geophysical surveys.
- Continue anomaly removal efforts.

Fall 2020

- Continue to finalize landscape removal plans and conduct plant removal at private properties.
- Continue geophysical surveys.
- Continue anomaly removal efforts.



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SITE-WIDE REMEDIAL ACTION (RA)

Public Safety Building (PSB) - USACE Updates





SITE-WIDE REMEDIAL ACTION

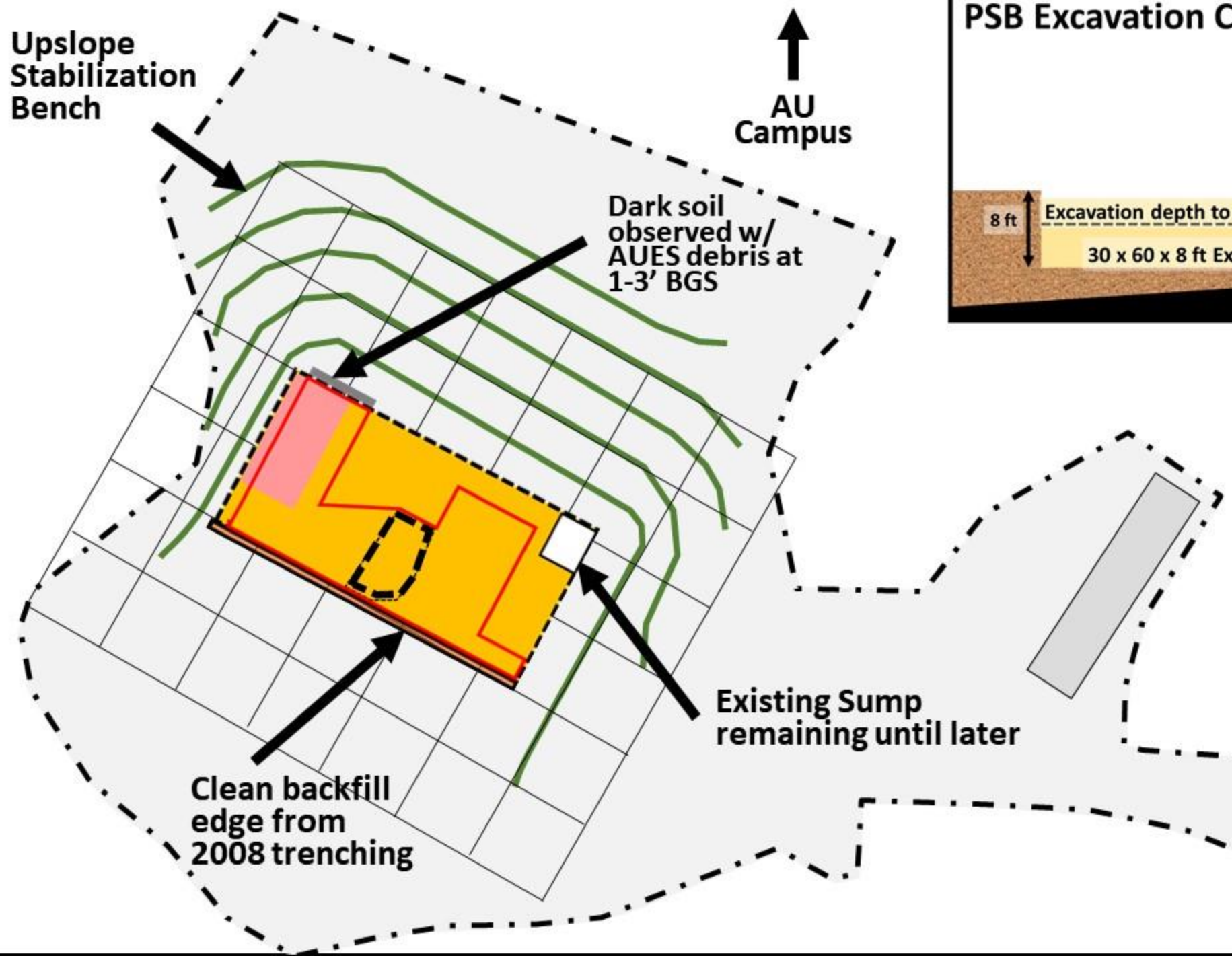


Soil investigation efforts for AU's former Public Safety Building to date:

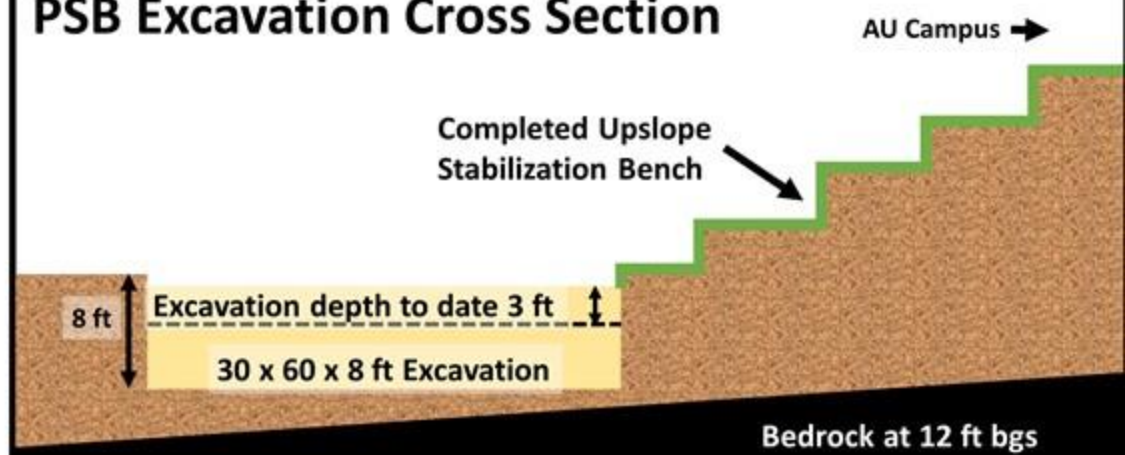
During the investigation and soil removal effort 375 tons have been removed, 165 pounds of munitions debris (29 items) and 178 pounds of laboratory grade glassware was recovered and removed.







Excavated soil from the site covered with plastic sheeting




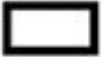










PSB Excavation Cross Section

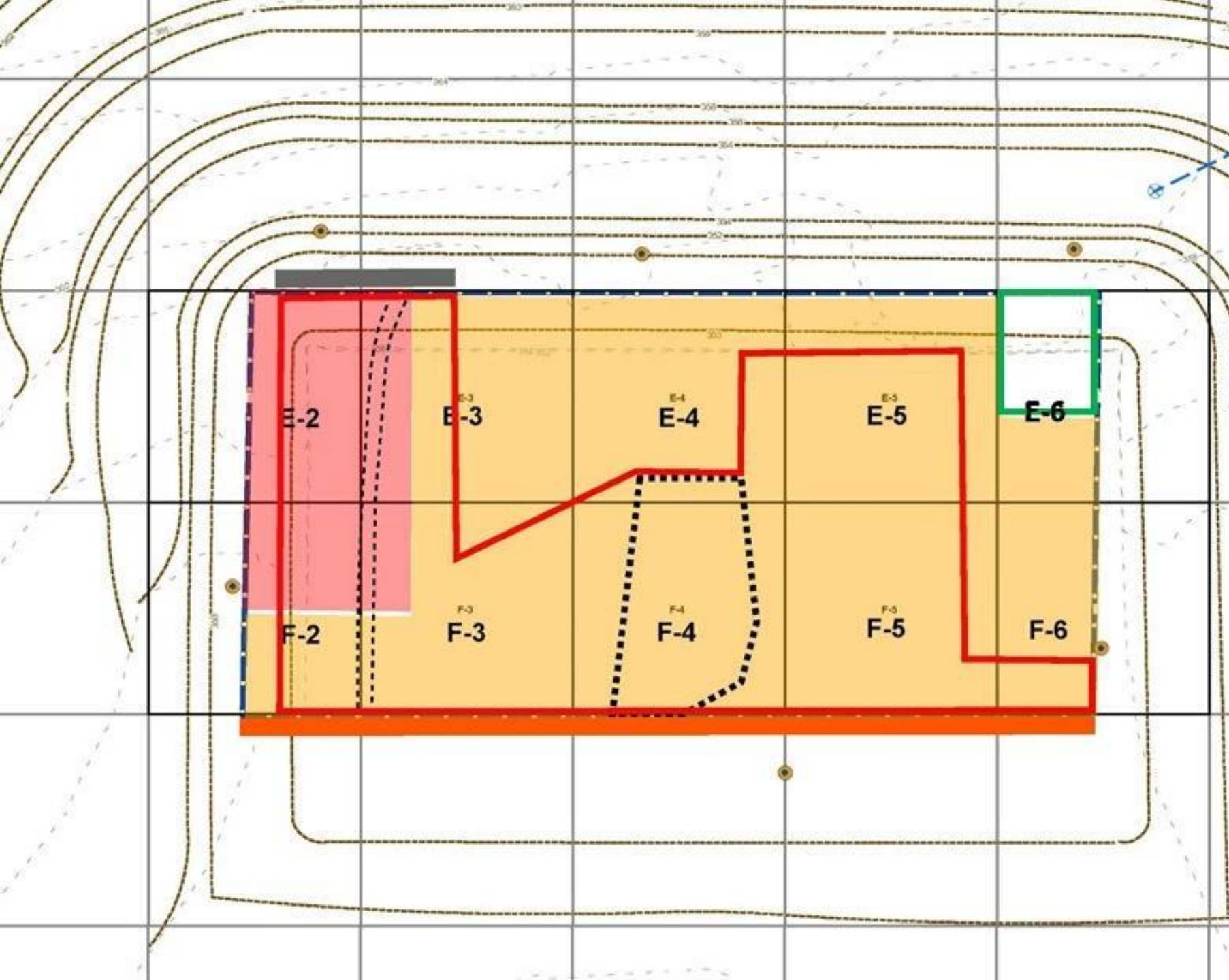


Legend

-  Approx. location of "black" soil
-  "Black" soil excavated to 4' BGS, backfilled to 3' BGS
-  Area excavated to 3' BGS
-  Area excavated to 4' BGS

Legend

-  PSB Foundation Boundary
-  PSB Foundation Grids
-  PSB Excavation Area Grids
-  Contour Elevation
-  Abandoned Storm Drain Pipe
-  Abandoned Storm Drain
-  Sump Location
-  Dark soil with AUES debris observed in this area 1-3' BGS
-  Dark soil excavated to 4' BGS, backfilled to 3' BGS
-  Area excavated to 3' BGS
-  Area excavated to 4' BGS
-  Dark soil observed w/ AUES debris along the excavation wall at 1-3' BGS
-  Clean backfill edge from 2008 Parsons trenching
-  Existing sump to be removed at a later date





SITE-WIDE REMEDIAL ACTION

AU's Former Public Safety Building (PSB)

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***View from above the former PSB
foundation slab***

Due to traveling restrictions associated with the health concerns surrounding COVID-19, the efforts to continue investigating of the soils under the foundation of American University's former Public Safety Building (PSB) were paused.

The team resumed work in early July with approximately 6 weeks of work remaining. Our team will continue to monitor the situation closely and keep the community updated on our schedule.



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GLENBROOK ROAD PROJECT AREA

USACE Updates





GLENBROOK ROAD



The crew moved concrete blocks and dug a trench to expand the soil/backfill storage area at the Federal Property.

The team continued preparatory work at both the project site and the Federal Property for the upcoming final site restoration efforts, as well as the final intrusive work along the shared property line with 4835 Glenbrook Road.

The crew prepared for the arrival of truckloads of clean topsoil at the Federal property, to be used for the final restoration efforts. This included expanding the backfill storage area, and installing a new silt fence.



GLENBROOK ROAD



A bulldozer and roller were delivered to the project area to allow the team to work daily on backfilling and compacting soil, until the team could return the intrusive operations.



In late May, the crew set up dust monitors at the site and brought over equipment, tents, trailers and supplies from the Federal Property, in preparation for intrusive operations. This included crew fit testing for masks, and all Level B gear training for the excavation of the small remaining area requiring intrusive operations.



GLENBROOK ROAD



Site layout for the final HTW intrusive operations.

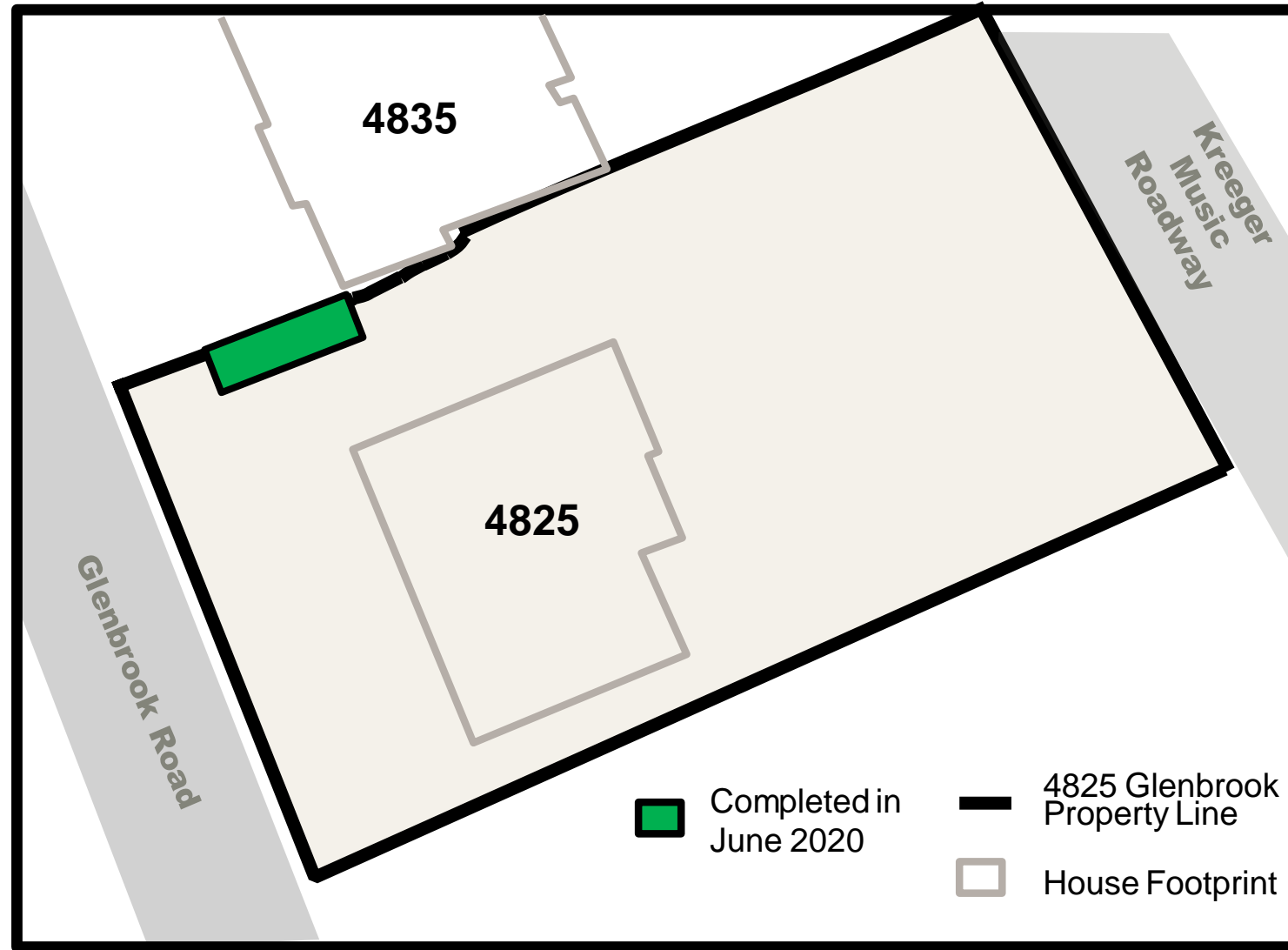
The team also coordinated the appropriate safety protocols, personnel and plans to return to intrusive operations in early June.

The crew is required to limit intrusive operations to the coolest times of the day, with air *temperatures below 74°F.*

To quickly and safely complete their mission, the crew started excavation and soil removal operations as soon as 6:30 a.m., and paused operations when the day got too warm.



GLENBROOK ROAD – FINAL HAZARDOUS & TOXIC WASTE EFFORT



Final HTW Contaminated Soil Removal Area



GLENBROOK ROAD – FINAL HTW SOIL EXCAVATION



The project team began excavation of the remaining small area of contaminated soil along the shared property line with 4835 Glenbrook Road on Monday, June 8th, and loaded one roll-off with soil and transported it to the Federal Property. On that first day, the field team reported that they had excavated to saprolite and may be done with the excavation. The geologist inspected the saprolite and confirmation soil samples were taken.



The project team received the confirmation sample results on Monday June 15th, and there was one elevated sample from the bottom of the excavation. It was 2 parts per million (ppm) higher than the conservative project wide threshold goal for arsenic in soil of 20 ppm. All of the side wall samples were categorized as 'clean', as they matched the naturally occurring background levels of arsenic in the soil.



GLENBROOK ROAD – FINAL HTW SOIL EXCAVATION

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Final contaminated soil excavation effort, with air monitoring equipment in the foreground.

The team began scraping the area with the excavator, and removed two more feet of saprolite, filling one roll-off. When they reached solid bedrock and experienced 'mechanical refusal,' they took confirmation samples from the bottom of the hole.

The lab report for the final soil sampling confirmed we are "clear." The arsenic level was determined to be at 17 ppm, which is below our project-wide standard threshold of 20 ppm for arsenic.

GLENBROOK ROAD



Demobilization of all intrusive operations equipment.

Our onsite team next focused on moving our intrusive operations equipment to the Federal Property. This included loading both MINICAMS trailers, the cascade trailer and compressor.

The crew then power washed and removed the heavy construction mats from the site, and scraped and consolidated the gravel, before grading the site in preparation for the compaction activities.

GLENBROOK ROAD – RESTORATION EFFORTS



Backfill efforts are being conducted across the site in small areas, per a planned standard construction-grade approach. Clean backfill soil is temporarily stored for site and operational safety.

Next, layers or lifts of clean backfill are put into place, compacted and measured for the standard compaction percentage, before another layer/lift of clean backfill is put down in the select area.





GLENBROOK ROAD – RESTORATION EFFORTS

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The crew is nearing completion of the backfilling and soil compaction operation of the previously backfilled trenched areas.

For the remaining summer months, trucks with backfill for site restoration will continue to arrive and depart the Glenbrook Road site *Monday through Thursday, between 8 am - 4 pm.* Please consider this when driving safely along Glenbrook Road.



Compaction of clean backfill soil



GLENBROOK ROAD

Tentative Schedule



Summer 2020	<ul style="list-style-type: none">• Complete soil compaction at the recent excavation areas with temporarily placed backfill.• Continue the planned final site restoration tasks for the Glenbrook project area. This includes restoring utilities along the shared property lines, and restoring landscaping in the easement areas.
Fall 2020	<ul style="list-style-type: none">• Anticipated project completion.



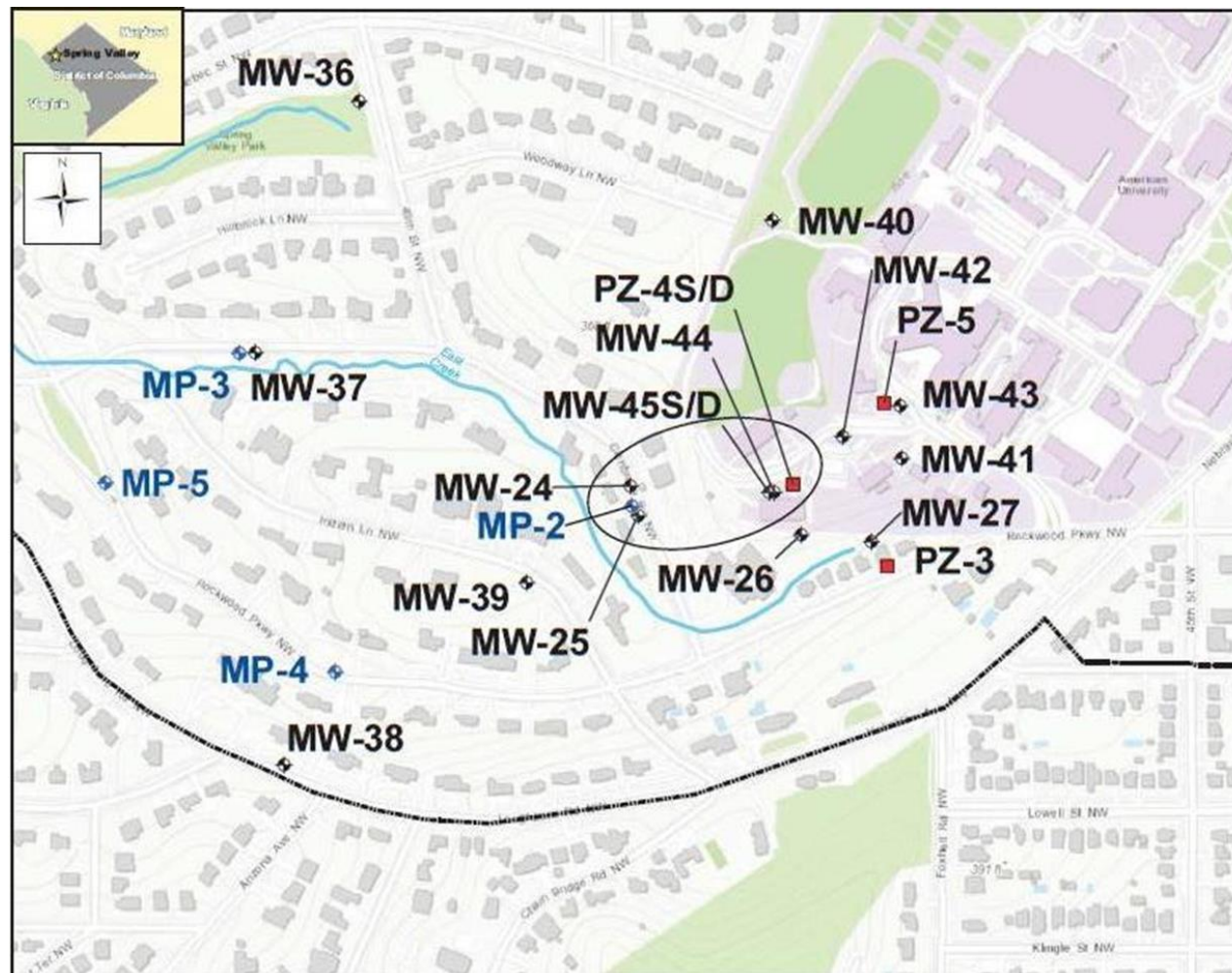
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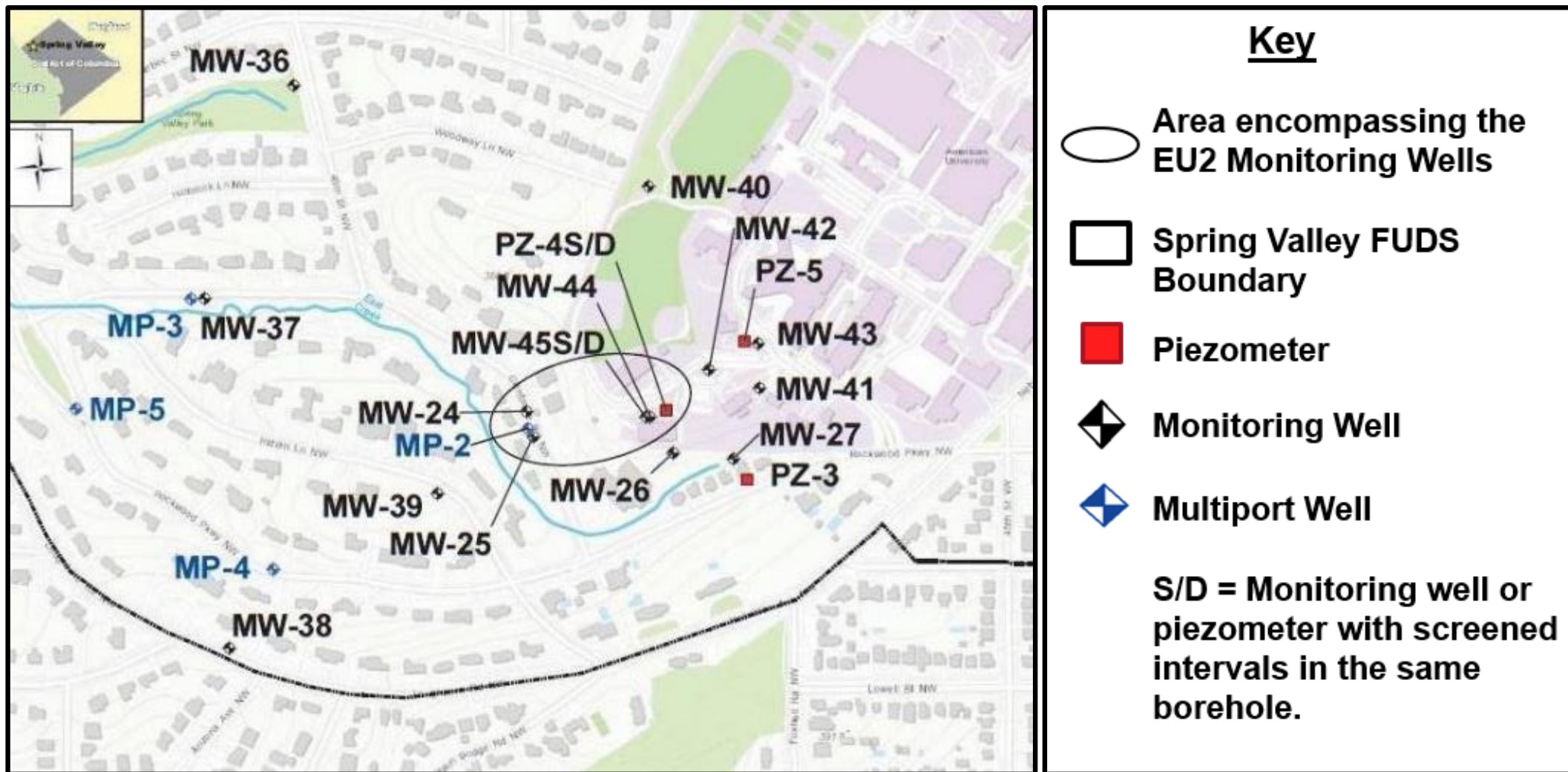


GROUNDWATER STUDY

USACE Updates



GROUNDWATER STUDY: EXPOSURE UNIT 2



The Area of Concern for groundwater is Exposure Unit 2 (EU2), the area within the oval shown above. Historically, a few wells in EU2 had detections of Arsenic and perchlorate above the standard drinking water levels (Reminder: Groundwater in Spring Valley is not used for drinking water). Until recently, the last sampling event was April 2015.



GROUNDWATER STUDY



- The Groundwater Sampling Plan prepared by the Army Corps was approved by the Project Partners and sampling took place between June 23-26. The team anticipates receiving the confirmation sampling results by the end of July.
- The Army Corps and Partners will discuss the results and determine the path forward for the final groundwater approach.
- Confirm that the arsenic concentration are below established drinking water standards.
- Continue to monitor Perchlorate concentrations.
 - The EPA has declined to regulate Perchlorate; the 15 ppb advisory level will be used.



Groundwater sampling well



SPRING VALLEY RESTORATION ADVISORY BOARD



Reminders:

The next RAB meeting will tentatively be on
Tuesday, September 8th, 2020

Upcoming Agenda Items:

- *Suggestions? Please contact the Outreach Team!*
- Upcoming 2020 Groundwater sampling results

