

SPRING VALLEY FORMERLY USED DEFENSE SITE

Restoration Advisory Board Meeting
SEPTEMBER 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

- November 10th RAB virtual meeting through WebEx





SPRING VALLEY FUDS RESTORATION ADVISORY BOARD



CO-CHAIR UPDATES

Website Updates





CO-CHAIR UPDATES




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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:

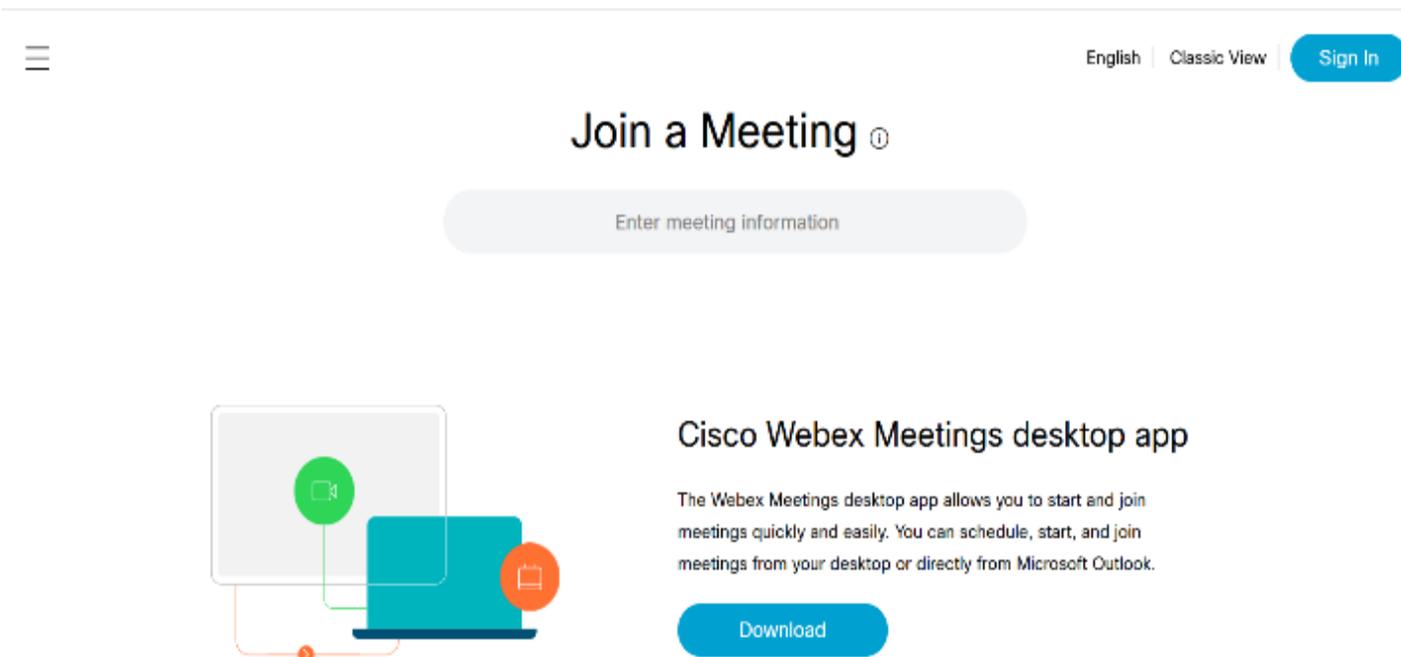
- July and August Monthly Site-Wide Project Updates
- Weekly 4825 Glenbrook Rd Project Updates with photos
- June and August Partner meetings were not held, but project update presentations were posted in lieu of meeting minutes



CO-CHAIR UPDATES



Upcoming Virtual RAB Meeting: WebEx



- The upcoming November 10th RAB meeting will be held virtually through WebEx video conferencing services.
- The Community Outreach Team will be reaching out to RAB members to schedule practice meeting run-throughs with this new service.
- Please email or call the Outreach Team for more information Whitney.L.Gross@usace.army.mil or 410-962-2210.



SPRING VALLEY FUDS RESTORATION ADVISORY BOARD



TASK GROUP UPDATES

New TAPP Contractor





TASK GROUP UPDATES



New RAB Technical Assistance for Public Participation (TAPP) Advisor

- As a reminder, 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 expired. USACE worked to redirect the offer to Dr. Chattopadhyay through Dayton Group, Inc. (DGI).
- The two year contract for the TAPP advisor has been approved by USACE Headquarters. A contract will be awarded in September.



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.



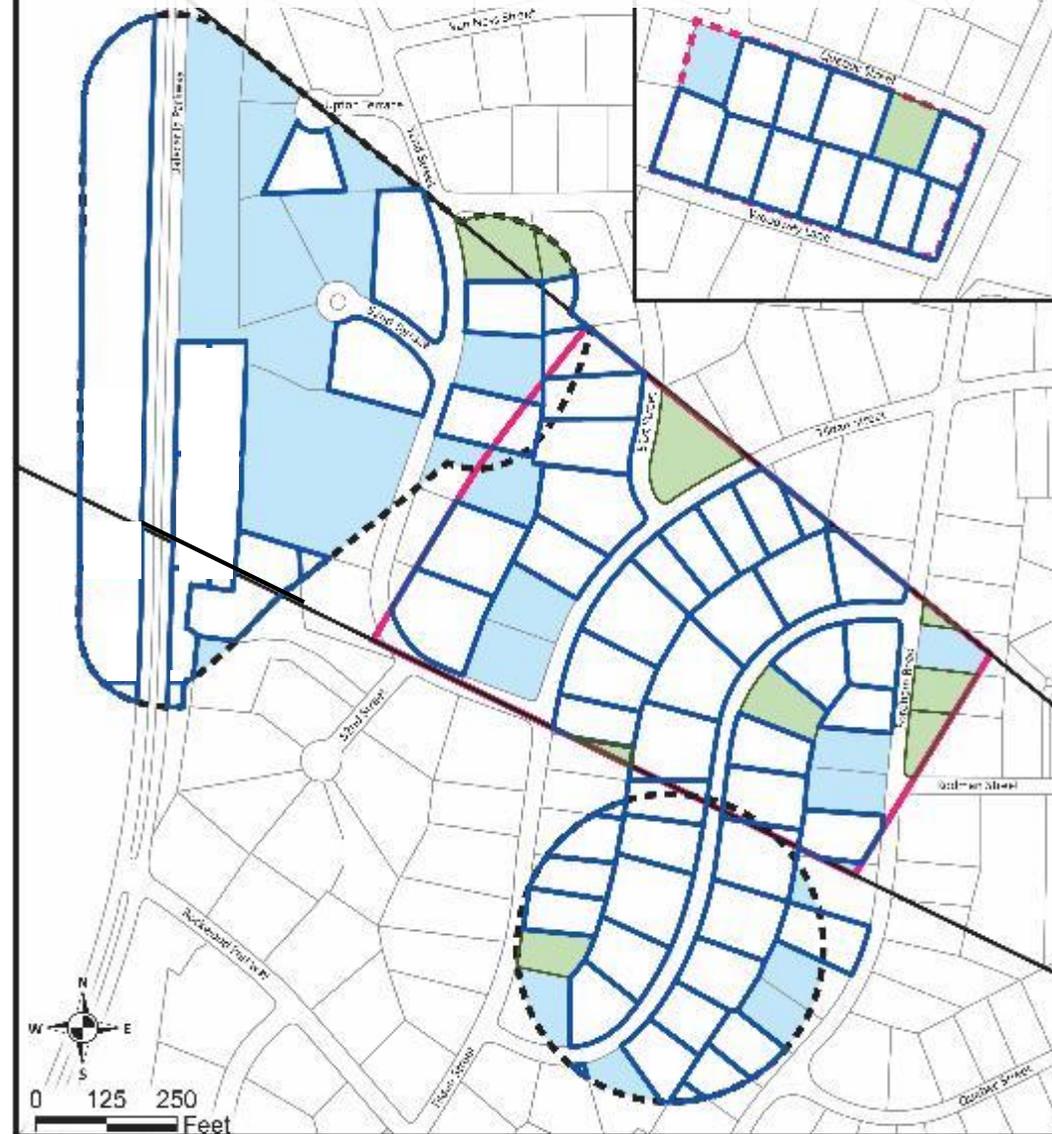


SITE-WIDE REMEDIAL ACTION

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

- Currently working on 87 residential properties at different stages of the remedial action process.
- 87 civil surveys and 87 arborist surveys have been completed.
- 86 properties have been visited by the geophysicist team, who provide technical recommendations on plant removal.
- Vegetation has been removed from 71 private properties and 13 City/Fed lots.
- Geophysical surveys completed at 71 private properties and 11 City/Fed lots off Dalecarlia Parkway.
- Anomaly removal completed at 69 private properties and 4 City/Fed lots off Dalecarlia Parkway.
- Issued 43 Assurance Letters.

Planned Remedial Action Area



- Future Remedial Action
- Remedial Action work in progress
- Remedial Action Work - No Further Action Required



SITE-WIDE REMEDIAL ACTION

The Dig Team began visiting residential properties for the next round of digs at the end of August

After dynamic and cued surveys are complete and the dig list is confirmed, the team can begin the digging and removal of the metallic anomalies.



The team carefully excavates each area on the dig list. Grass and soil are placed face down on a tarp, to be seamlessly replaced after removing anomalies.



The team uses analog metal detector to detect anomaly before digging



SITE-WIDE REMEDIAL ACTION

Anomaly Excavation Finds

During the intrusive investigations in early September, the team encountered a 3-inch stokes mortar round. It was examined and safely removed from the property.

The Explosive Ordnance Disposal (EOD) team came and x-rayed the item in place.

While the item was initially thought to be an potential Munitions and Explosives of Concern (MEC) item, the x-rays helped EOD determine that it was a sand filled practice round that does not pose an explosive hazard. Therefore, the item is classified as MD (Munitions Debris).

The EOD removed the item from the property to be securely stored and disposed of properly.



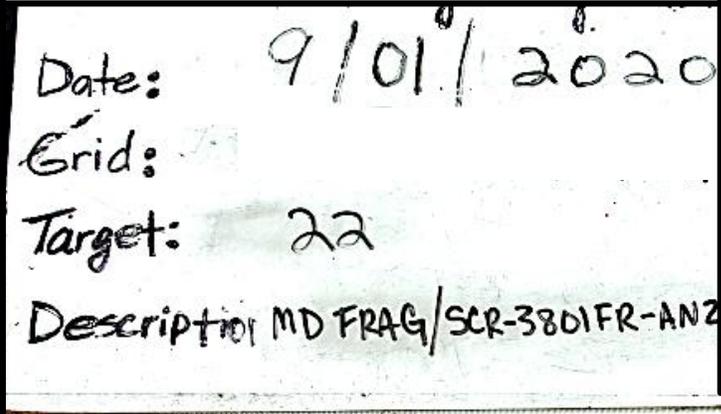
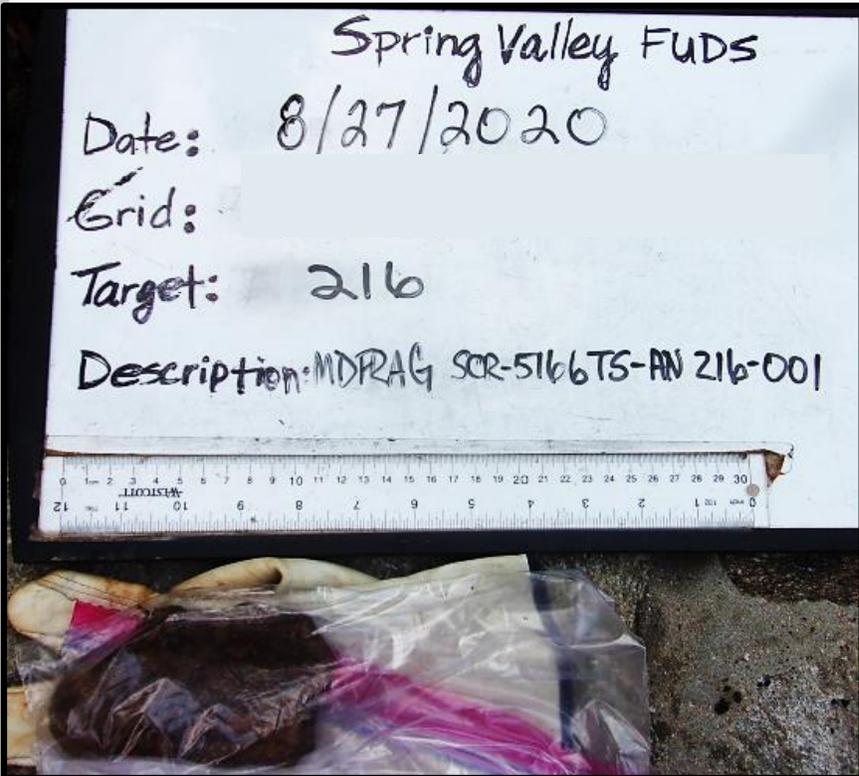


SITE-WIDE REMEDIAL ACTION

Anomaly Excavation Finds



Other Recovered Munition Debris





SITE-WIDE REMEDIAL ACTION

Tentative Schedule



Fall 2020	<ul style="list-style-type: none">• Continue geophysical surveys.• Continue anomaly removal efforts.
Winter 2020	<ul style="list-style-type: none">• Begin finalizing plant removal plans with subsequent groups and conduct plant removal at private properties in preparation for geophysical surveys.• Continue obtaining Rights-of-Entry from the next group of homeowners.• Begin subsequent round of geophysical surveys.



SPRING VALLEY FUDS RESTORATION ADVISORY BOARD



SITE-WIDE REMEDIAL ACTION (RA)

Public Safety Building (PSB) - USACE Updates





SITE-WIDE REMEDIAL ACTION

AU's Former Public Safety Building (PSB)



- After resuming field work at AU's former PSB in July, the team began digging test pits at the site in order to determine the final excavation boundaries for the PSB, as well as to conduct confirmation soil sampling.
- These test pits have been excavated to 8 feet below slab grade, with soil samples being collected every 1-foot for head space, metals, and other analyses.



Test pit in Grid E-4 excavated to 8 feet below slab grade



SITE-WIDE REMEDIAL ACTION

AU's Former Public Safety Building (PSB)

- The team continues to encounter lab grade glassware debris and have followed it into the northern hillside edge of the former PSB footprint.
- Through further investigation the debris appears to extend outside of the northwestern footprint and near the existing sump. The team has prepared work plans and is evaluating the removal of the debris trail into the hillside.
- The uncovered material in the test pit sidewall was screened for munition debris and AU items. The batch glass and metal debris cleared headspace analysis and was shipped for confirmation analysis.

*Excavated location
of impacted material*



*Close up view of the impacted
material in the Northern wall.*





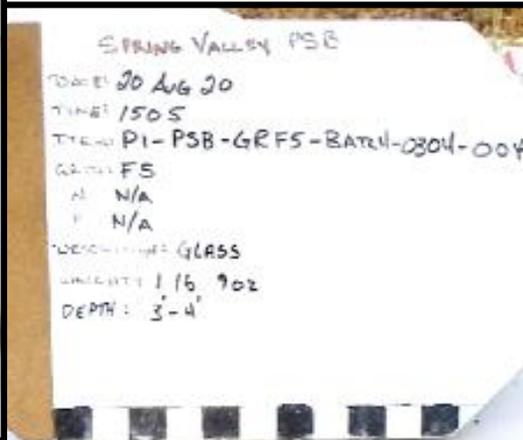
SITE-WIDE REMEDIAL ACTION

AU's Former Public Safety Building (PSB)

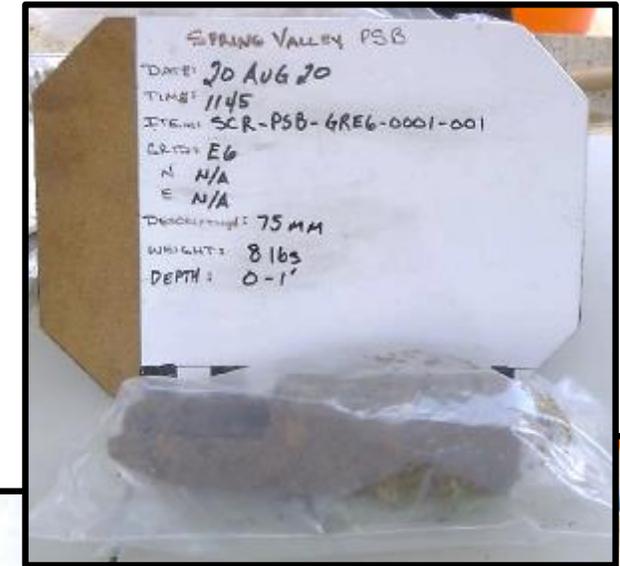
Recovered debris excavated at the former PSB site



Batch glass collected at 3 to 4 feet Grid Cell F-5



75 mm projectile encountered 0 to 1 feet below slab grade Grid Cell E-6



Batch glass and metal collected at 0 to 3 feet Test Pit D-3



DATE: 20 AUG 20
TIME: 1505
ITEM: PI-PSB-GRFS-BATN-0304-004
GRID: F5
M: N/A
E: N/A
DESCRIPTION: GLASS
WEIGHT: 1 lb 9oz
DEPTH: 3'-4'

DATE: 20 AUG 20
TIME: 1505
ITEM: SCR-PSB-PITD3-001
GRID: D3
M: N/A
E: N/A
DESCRIPTION: BOOSTER COMPONENT
WEIGHT: 12 oz
DEPTH: 1'-2'

Munitions Debris – booster encountered 6 inches into North wall

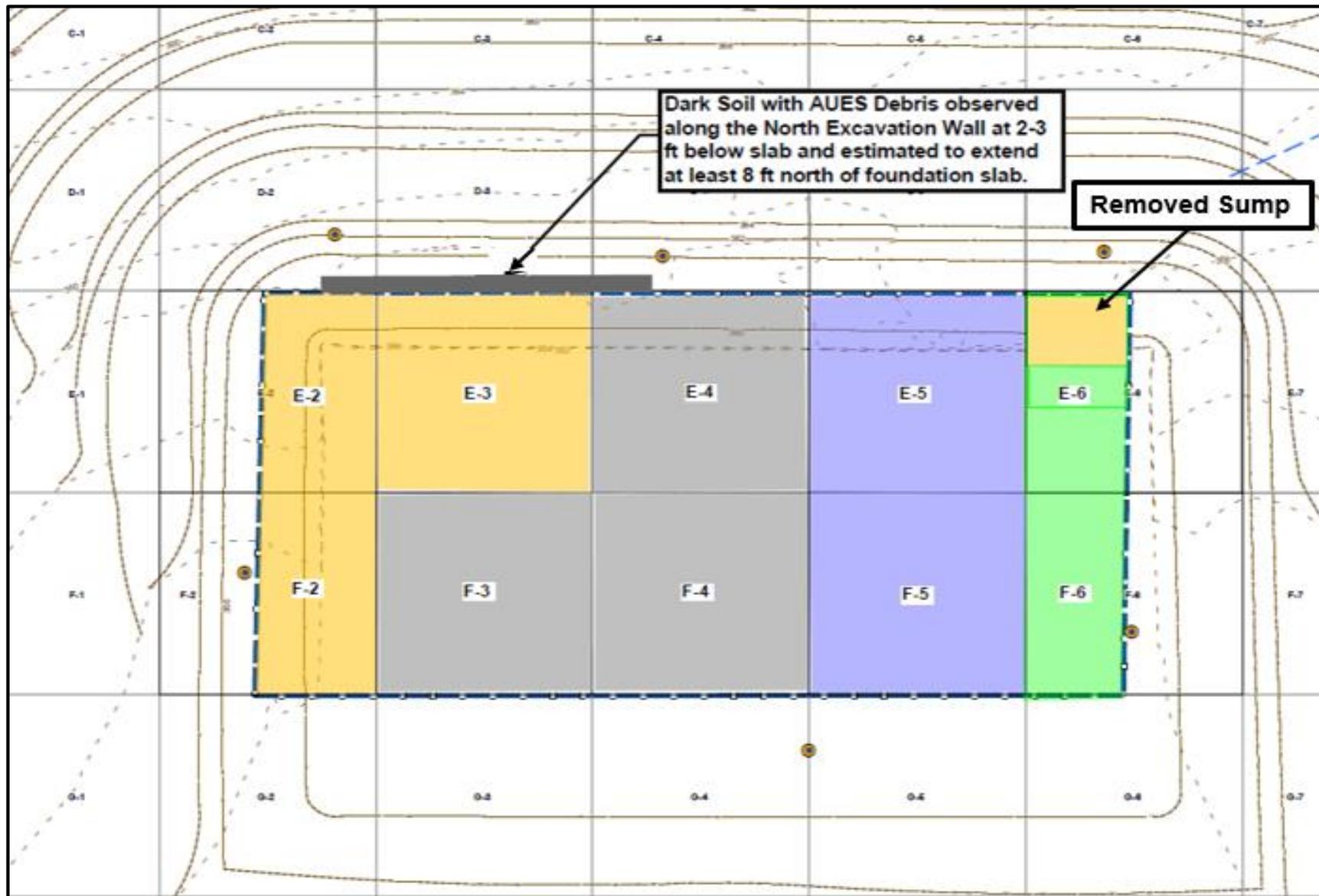


Batch glass collected at 4 to 5 feet Grid Cell E-5



SITE-WIDE REMEDIAL ACTION

AU's Former Public Safety Building (PSB)



Legend

- Public Safety Building Foundation Boundary
- Grids (15 x 15 ft)
- Public Safety Building Foundation Grids
- Public Safety Building Excavation Area Grids
- Contour Elevation (2ft interval)
- Abandoned Storm Drain Pipe
- Abandoned Storm Drain Pipe Location
- Sump Locations
- Grid soil to be excavated to 4 feet below slab.
- Grid soil to be excavated to 5 feet below slab.
- Grid soil to be excavated to 6 feet below slab.
- Grid soil to be excavated to 7 feet below slab.
- Grid soil to be excavated to 8 feet below slab.



SITE-WIDE REMEDIAL ACTION

AU's Former Public Safety Building (PSB)



The concrete sump structure was broken down into smaller pieces loaded into a roll-off container, and transported to the staging area at the Federal Compound pending off-site disposal.



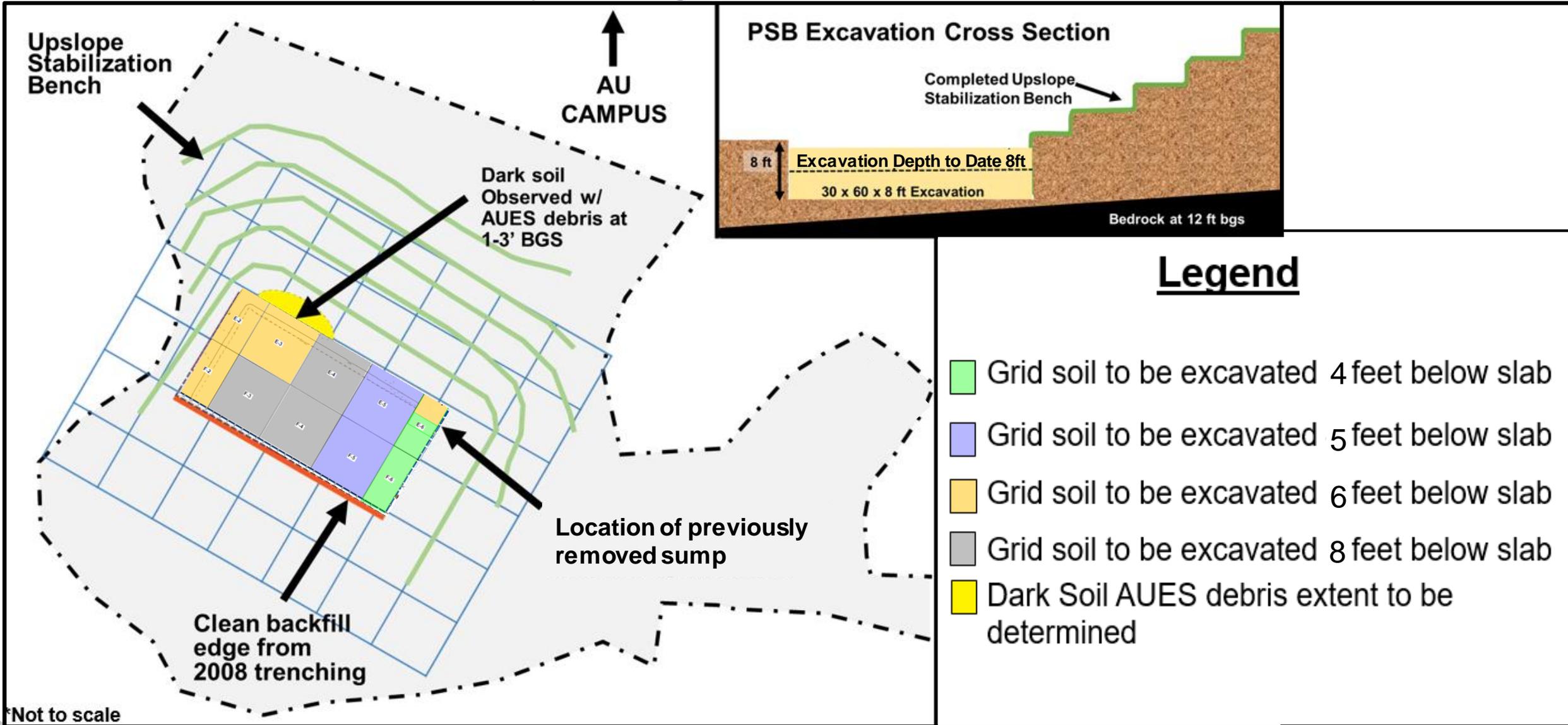
Excavator preparing to roll the concrete sump structure out of the excavation for sizing.



SITE-WIDE REMEDIAL ACTION



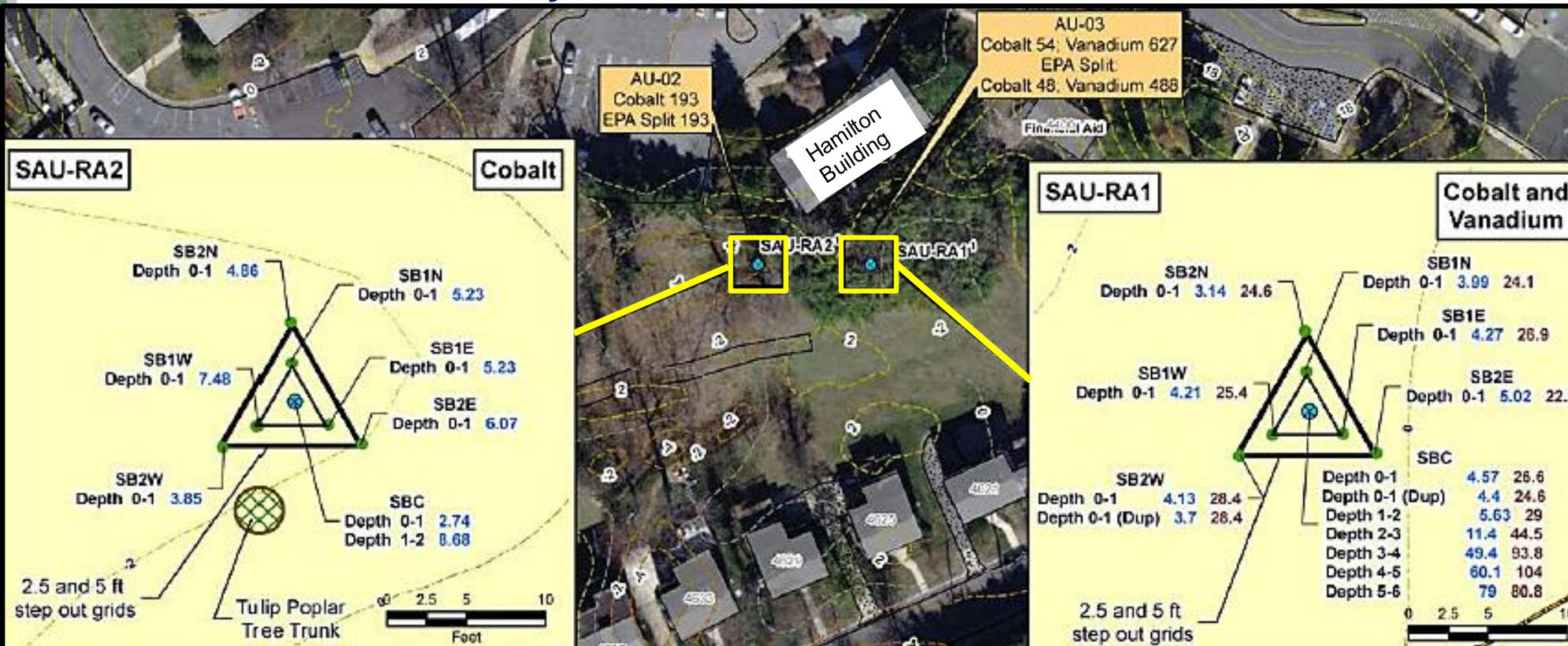
AU's Former Public Safety Building





SITE-WIDE REMEDIAL ACTION

American University HTW Soil Removal



RA1 (AU-03) – The team is proposing to remove the soil with an excavator at the center point down to 10 feet below the ground surface and extending out 2.5 feet (5 ft by 5 ft excavation area).

There was no Cobalt exceedance was detected at the step-out locations.

RA2 (AU-02) – The team is proposing to remove the soil by hand using a digging/air knife (to avoid harming the Poplar tree) to 1 foot below the ground surface around the center point and extending out 2.5 feet (5 ft by 5 ft excavation area).

The excavation work behind the Hamilton Building on AU campus is tentatively scheduled to take 4-5 days starting in September.



SPRING VALLEY FUDS RESTORATION ADVISORY BOARD



GLENBROOK ROAD PROJECT AREA

USACE Updates





GLENBROOK ROAD – BACKFILL & COMPACTION



Week of July 30, 2020

As the crew completed backfilling the small excavation areas, the focus moved to restoring the site's planned elevation, compacting to street level during the week of August 7th. Then operations continued on the south side.

The compaction efforts involve close monitoring and inspection of the moisture content in the lifts of soil.



Week of August 7, 2020



Week of August 28, 2020



GLENBROOK ROAD – OTHER EFFORTS



The goal is a low impact operation, with consideration of the impacts our operation could have on a neighborhood street. We have implemented a couple of practices that have been noticed and appreciated by the our Glenbrook Road neighbors.

- No trucks are staged and waiting on the road, to deposit backfill soil at the site. We have only one truck at the area.
- We use a geotextile liner as a ‘runway’ to keep dirt off of the tires.



GLENBROOK ROAD – LOCATING BACKFILL



Backfill efforts are currently being conducted at the south end of the property, per a planned standard construction-grade approach. We currently are at around 30% complete with the backfill and compaction efforts at the site.

Additional restoration efforts include reinstalling functional utility networks.

Covering the lifts with plastic at the end of the day to reduce excess moisture content.



Installing backfill and lifts at the south side of the property.



GLENBROOK ROAD – RESTORATION EFFORTS



As we continue to make significant progress with the backfill and compaction efforts, we are removing equipment from the site.

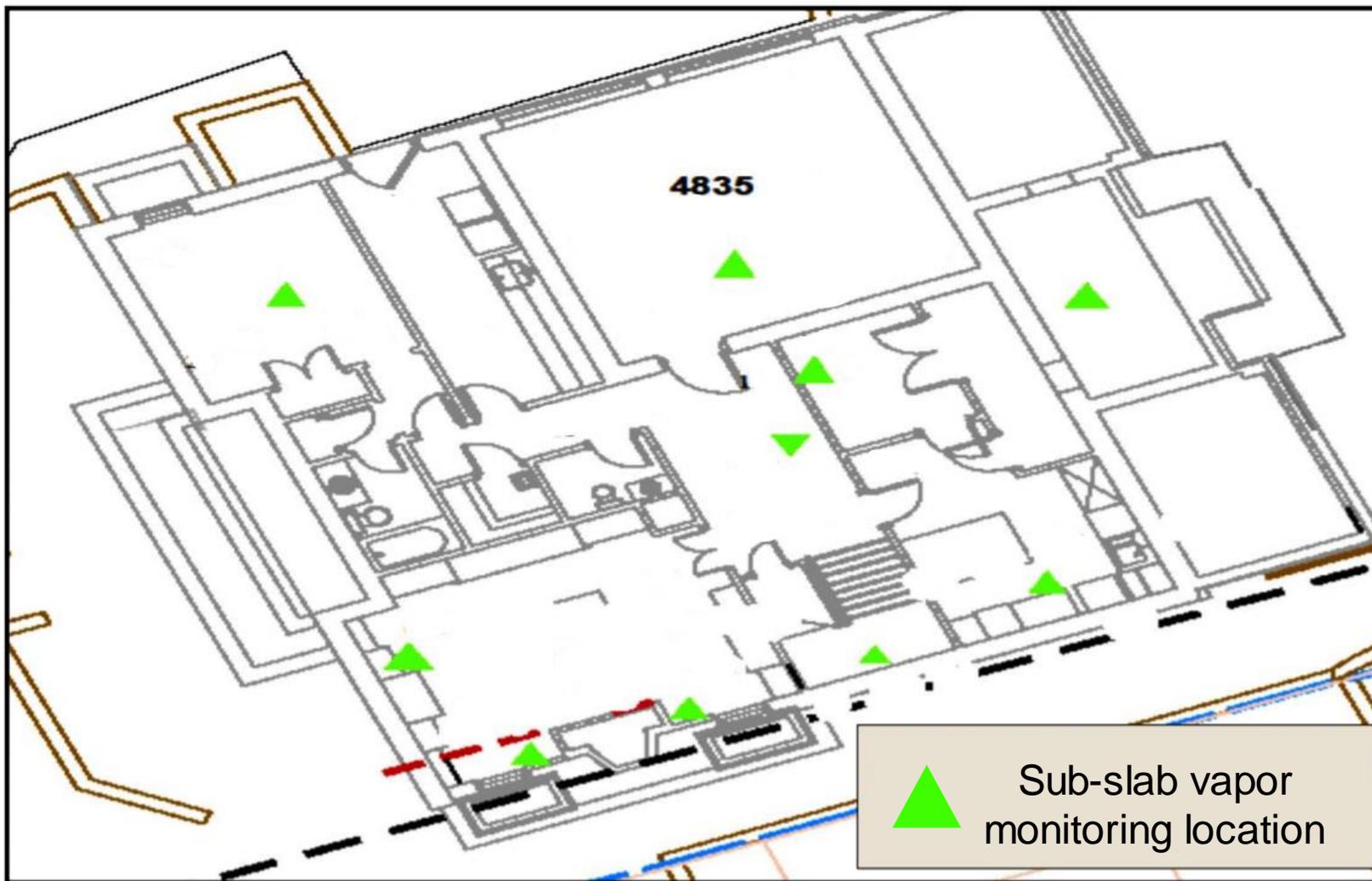
For the next several weeks, trucks with backfill for site restoration will continue to arrive and depart the Glenbrook Road site *Monday through Thursday, between 8 am - 4 pm.* Please consider this when driving safely along Glenbrook Road.



Removing unneeded equipment such as a stair, excavator, and the Shelter-in-Place emergency siren with a solar panel, which was atop a utility pole.



GLENBROOK ROAD – 4835 SUB-SLAB SOIL GAS CONFIRMATION SAMPLES



- The team has received the soil gas samplers to begin the third round of confirmation sampling, which is scheduled to occur mid-September.
- Ten locations will be sampled, as shown on the map to the left.



GLENBROOK ROAD

Tentative Schedule



Fall 2020	<ul style="list-style-type: none">• 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.• Complete the planned elevation levels of soil backfill and compaction at the site.
Winter 2021	<ul style="list-style-type: none">• Anticipated project completion.

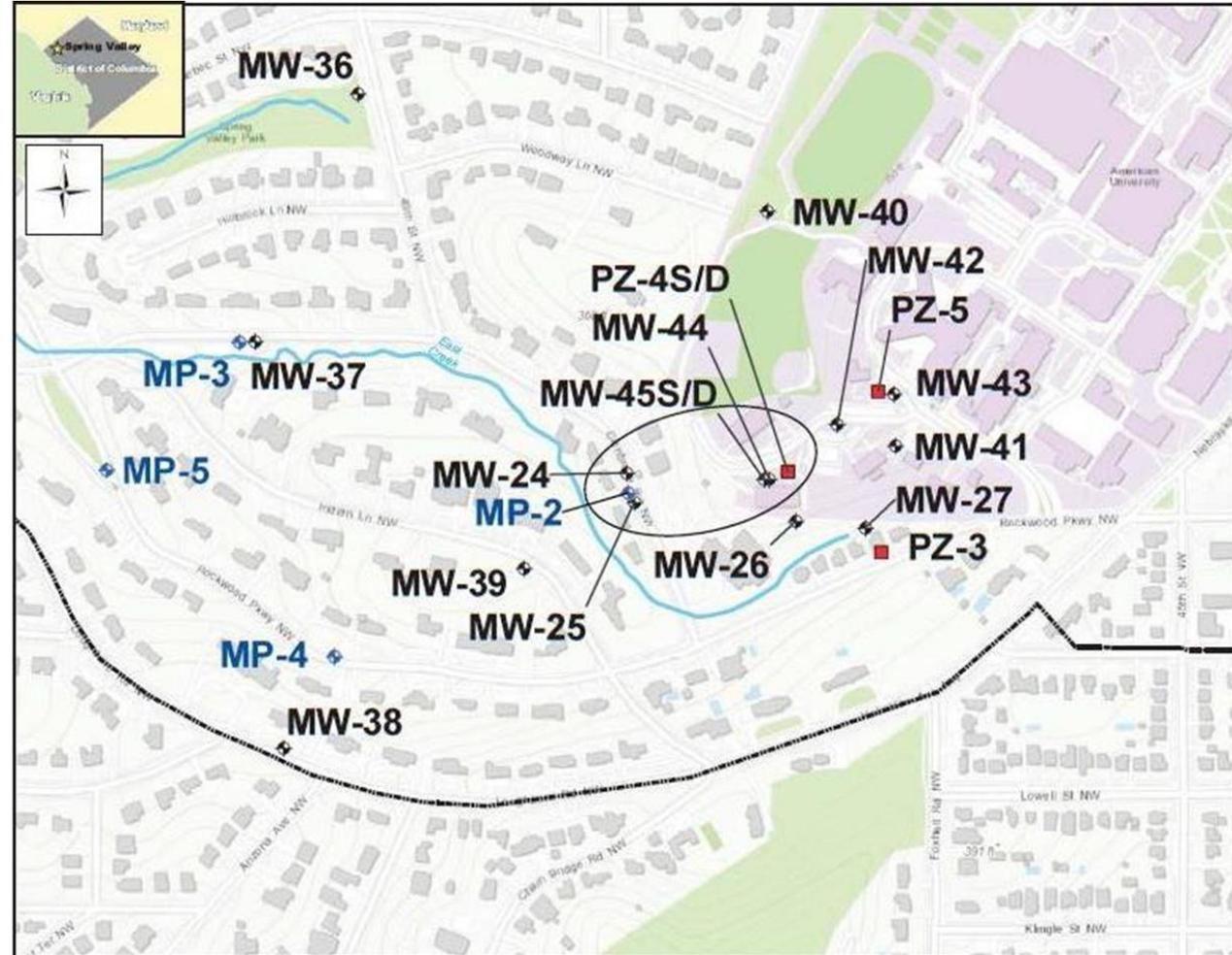


SPRING VALLEY FUDS RESTORATION ADVISORY BOARD



GROUNDWATER STUDY

USACE Updates





GROUNDWATER STUDY



- The groundwater sampling event took place on June 23-26 and was conducted by the Army Corps and the U.S. Geological Survey (USGS).

Next Steps:

- The current sampling results are very similar to the results from last September. The Army Corps and Partners are currently discussing the path forward for the final groundwater approach.
- EPA declined to establish a Maximum Contaminate Level (MCL) for Perchlorate.
- The Army Corps and the Partners are discussing the appropriate comparison criteria for Perchlorate.



Groundwater sampling well

GROUNDWATER SAMPLING RESULTS: PERCHLORATE KEEGER HALL

	WELL SCREEN (depth below ground surface)	July 06	June 07	Nov 09	May 11	July 11	Aug 11	Nov 11	Feb 12	Apr 12	Sep 12	May 13	July 13	Dec 13	Mar 14	Jun 14	Sep 14	Apr 15	Sep 19	June 20
PZ-4S	27 - 47 ft	71.8	146	50	30	18	19	25	28	NT	NT	5.57* *	ND**	6.75	10.9	8.58	4.16	4.49	2	NT
PZ-4D	52 -62 ft	34.7	41	41	39	9.8	39	45	39	36	NT	NT**	5.59* *	39.8	44.5	16.7	13.8	16.1	32.5	26.2
MW-44	80 - 95 ft	NP	NP	NP	NP	NP	NP	NP	NP	34	35	40.5	NT	40.2	42.3	49.8	40.1	39.2	15.7	16.0
MW-45S	119 - 124 ft	NP	NP	NP	NP	NP	NP	NP	NP	NP	6	31.1* *	NT	1.28	5.86	5.74	2.55	2.42	1.4	NT
MW-45D	147 - 152 ft	NP	NP	NP	NP	NP	NP	NP	NP	NP	3.6	54.3* *	NT	5.3	ND	ND	0.221	ND	0.50	NT

All concentrations reported in micrograms per liter (ug/L)

Yellow highlight indicates detected value exceeds the perchlorate IDWHA level of 15 UG/L

NT - Not Tested

ND - Non Detect (analyte was not detected in the sample)

NP - Not Present (well not installed as of that date)

**Samples from wells in front of Kreeger Hall are suspected to have been switched during the May 2013 and July 2013 sampling events. PZ-4S/4D results may actually represent MW45S/45D results (and vice versa). PZ-4D was scheduled to be sampled in May 2013, but no sample was collected.

SPRING VALLEY GROUNDWATER SAMPLING RESULTS: MP2 Arsenic

Sampling Port (depth bgs in feet)	Mar-12	May-12	Jul-12	May-13	Dec-13	Jun-14	Apr-15	Sep-19	June-20
SV-MP-02-1 (35'-44')	7.6	7.4	8.4	7.6	6.6	6.9	5.6	6.7	6.7
SV-MP-02-2 (49'-54')	15	15	16	12.6	11	12.4	10.0	7.6	7.6
SV-MP-02-3(56'-71')	15	18	18	11	15.2	13.7	9.5	7.7	8.6
SV-MP-02-4 (73'-77')	12	15	12	9.2	9.9	7.6	6.4	6.6	4.9
SV-MP-02-5 (96'-102')	13	15	15	9.1	10.3	9.8	11.3	7.6	7.3
SV-MP-02-6 (105'-114')	15	17	16	11	10.2	10.8	11.6	7.5	7.8
SV-MP-02-7 (123'-129')	14	27	16	12	12	11.8	10.0	7.6	7.1
SV-MP-02-8 (145'-160')	14	16	15	12.6	10.3	11.9	9.7	7.2	7.6

All concentrations reported in micrograms per liter (ug/L)

Yellow highlight indicates detected value exceeds the Arsenic MCL of 10ug/L



SPRING VALLEY RESTORATION ADVISORY BOARD



Reminders:

The next RAB meeting will tentatively be on
Tuesday, November 10th, 2020

Upcoming Agenda Items:

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

