



SPRING VALLEY FORMERLY USED DEFENSE SITE PROJECT
RAB Meeting

January 14, 2020
7:00 – 8:30 p.m.

UNDERCROFT MEETING ROOM
ST. DAVID'S EPISCOPAL CHURCH
5150 MACOMB ST. NW, WASHINGTON, DC

Agenda

- 7:00 p.m. I. Administrative Items**
Co-Chair Updates
 ▪ Introductions, Announcements
Task Group Updates
 ▪ TAPP Contractor
 ▪ RAB Membership
- 7:15 p.m. II. USACE Program Updates**
Site-Wide Remedial Action
Glenbrook Road
Groundwater Study
- 8:05 p.m. III. Community Items**
- 8:10 p.m. IV. Open Discussion & Future RAB Agenda Development**
Upcoming Meeting Topics:
 ▪ (Suggestions?)

 *Next meeting: March 10, 2020
- 8:20 p.m. V. Public Comments**
- 8:30 p.m. VI. Adjourn**

**Note: The RAB meets every odd month.*

SPRING VALLEY FORMERLY USED DEFENSE SITE

Restoration Advisory Board Meeting
14 January 2020



US Army Corps
of Engineers®



AGENDA REVIEW

Co-Chair Updates

- Introduction, Announcements

Task Group Updates

- TAPP Contractor
- RAB Membership

USACE Updates

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

Community Items

Open Discussion & Future RAB Agenda Development

Public Comments





SPRING VALLEY FUDS RESTORATION ADVISORY BOARD



CO-CHAIR UPDATES

Introductions





CO-CHAIR UPDATES



The screenshot shows the website for the US Army Corps of Engineers Baltimore District. The main content area features an 'Announcements' section with the following text:

--- Next Restoration Advisory Board Meeting - January 14, 2019

The next RAB meeting is scheduled to be held on **Tuesday, January 14 at 7 pm**. 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).

[Click here to visit the Site-Wide section of the Spring Valley page where the Final Site-Wide Decision Document can be downloaded](#)

Below the announcements is a 'Spring Valley Overview' section with a paragraph: "The Spring Valley Formerly Used Defense Site (FUDS) consists of approximately 660 acres in the northwest section of Washington, D.C. During the World War I-era, the site was known as the American University Experiment Station, and was used by the U.S. government for research and testing of chemical agents, equipment, and munitions. Today, the site encompasses approximately 1,600 private properties, including several embassies and foreign properties, as well as the American University and Wesley Seminary."

On the right side of the screenshot, there are several navigation buttons: 'Site-Wide', 'The Corps'pondent', 'Project Efforts', 'Project Documents', and 'Associated Organizations'. The 'Project Efforts' section lists links for 'Project Update', '4825 Glenbrook Road', 'Site Wide', 'Groundwater', and 'Community Participation'. The 'Project Documents' section includes a paragraph: "These are just a few of the project documents. More key documents can be found in the information Repository at the Tenley Friendship Branch Library." and a link to 'Project Documents'. The 'Associated Organizations' section lists 'Agency for Toxic Substances and Hazardous Waste'.

Announcements

Website Updates

- November and December Monthly Site-Wide Project Update
- Weekly 4825 Glenbrook Rd Project Updates with photos
- October Partners meeting minutes
- Next Partners meeting: *February 13th*
- September RAB Meeting Minutes



SPRING VALLEY FUDS RESTORATION ADVISORY BOARD



TASK GROUP UPDATES

New TAPP Contractor





TASK GROUP UPDATES



New RAB Technical Assistance for Public Participation (TAPP) advisor

- Two firms appeared qualified and expressed interest in supporting the RAB.
- The two potential companies are **ATI, Inc.** and **Nspiregreen, LLC.**
- Once the RAB identifies their preferred TAPP contractor firm, USACE will begin hiring negotiations.



SPRING VALLEY FUDS RESTORATION ADVISORY BOARD



SITE-WIDE REMEDIAL ACTION (RA)

92 Properties - USACE Updates



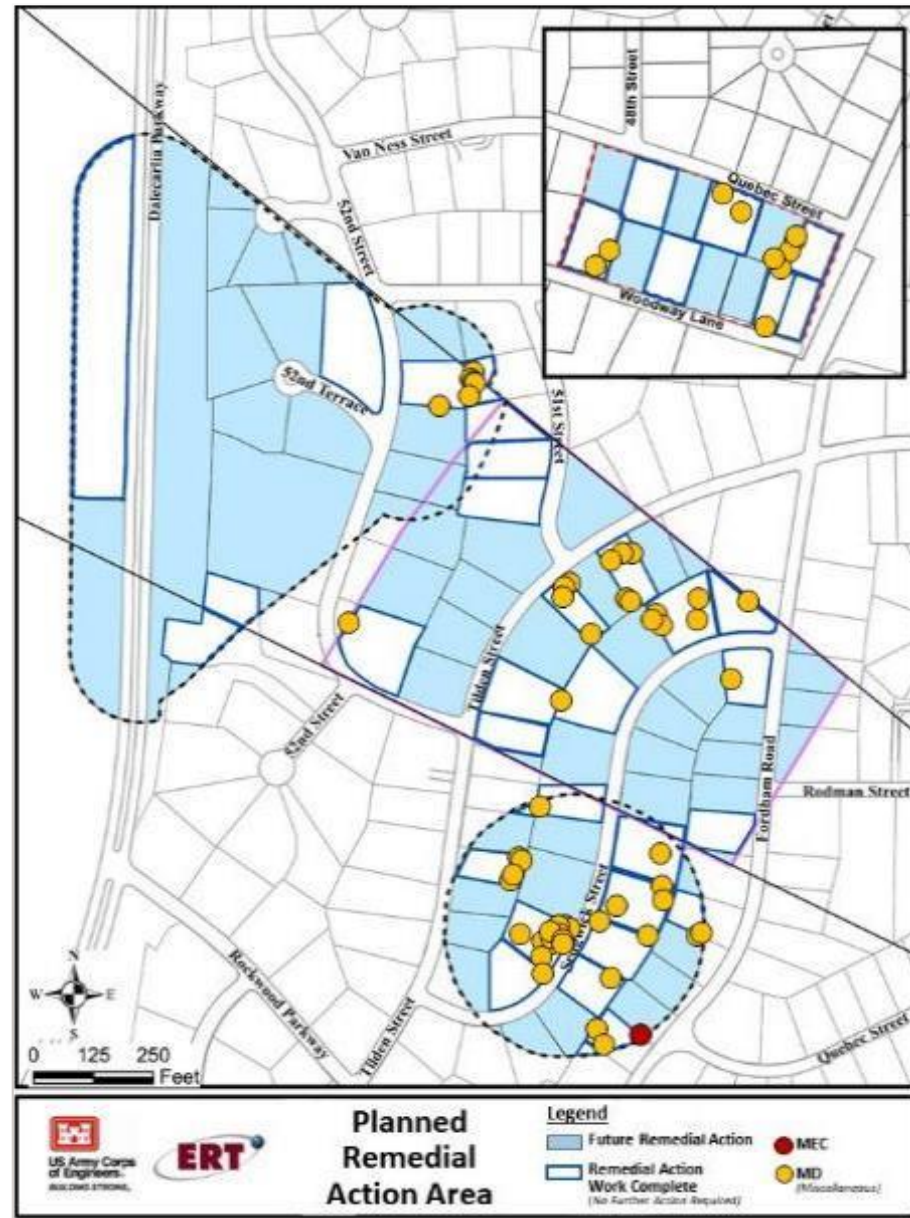


SITE-WIDE REMEDIAL ACTION



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

- Currently working on 87 residential properties at different stages of the remedial action process.
- 80 civil surveys and 80 arborist surveys have been completed.
- 79 properties have been visited by the geophysist team, who provide technical recommendations on plant removal.
- Vegetation has been removed from 49 private properties and 13 City/Fed lots.
- Geophysical surveys completed at 43 private properties and 7 City/Fed lots off Dalecarlia Parkway.
- Anomaly removal completed at 34 private properties and 4 City/Fed lots off Dalecarlia Parkway.
- Issued 2 Assurance Letters.





SITE-WIDE REMEDIAL ACTION



Despite leaving properties with less vegetation, the landscape removal team aims to leave each property neat, both during the preparation for the geophysical surveys and for the re-landscaping during the following planting season.



Landscape removal team leveling area where vegetation was removed.





SITE-WIDE REMEDIAL ACTION



Once the approved vegetation has been removed, “blind seeds” are installed for Quality Control and Quality Assurance.

Blind quality control (QC) seeds are placed by Weston as an internal data collection and processing check.

The Army Corps also places their own quality assurance (QA) validation seeds to ensure all data collection and processing meet the requirements outlined in the work plan.



Industry standard objects (ISO)

The "blind seeds" are industry standard objects (ISO) (a metal pipe) that range in size buried at various depths and orientations.



Recovered "Blind Seed"



SITE-WIDE REMEDIAL ACTION

Geophysical Surveys



The team closely examines each location during the property site walk to determine if there are any complexities that may cause interference to the equipment.



Survey team collecting data around different landscaping features, (i.e. stairs, rocks, hardscape, etc.)





SITE-WIDE REMEDIAL ACTION

Tentative Schedule



Winter 2020	<ul style="list-style-type: none">• Continue to finalize plant removal plans and conduct plant removal in Dalecarlia Woods and private properties.• Continue geophysical surveys.• Continue to obtain Rights-of-Entry from the next group of homeowners.• Complete soil removal at two locations in the southern American University campus exposure unit.• Continue anomaly removal efforts.
Spring 2020	<ul style="list-style-type: none">• Continue finalizing plant removal plans with subsequent groups in preparation for geophysical surveys.• Continue geophysical surveys.

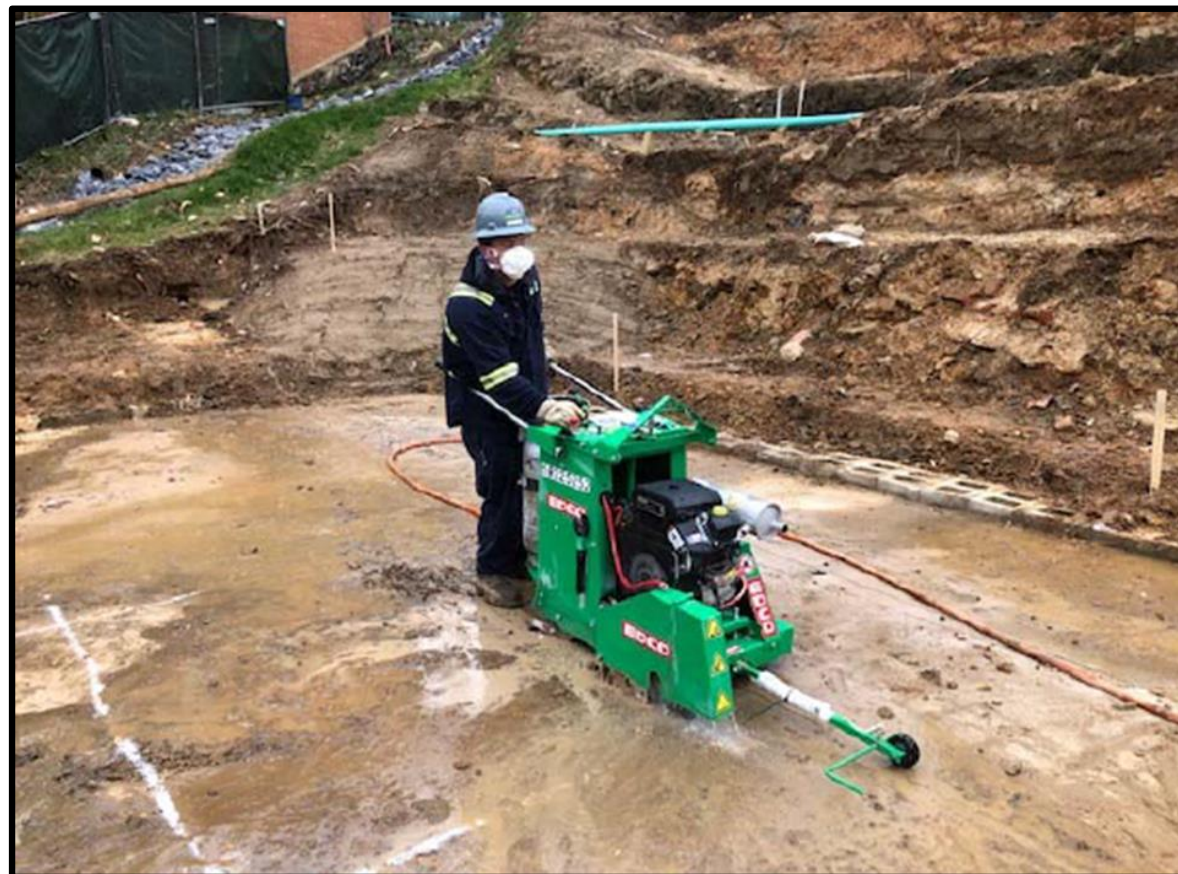


SPRING VALLEY FUDS RESTORATION ADVISORY BOARD



SITE-WIDE REMEDIAL ACTION (RA)

Public Safety Building (PSB) - USACE Updates





SITE-WIDE REMEDIAL ACTION

AU's Former Public Safety Building (PSB)

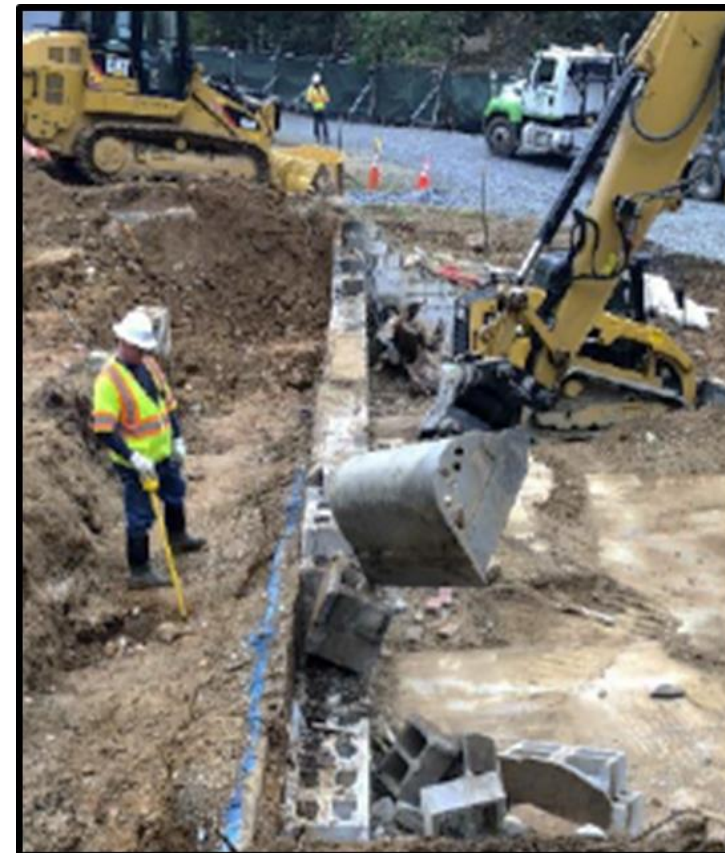


Crews continued benching the upslope soils of the basement slab. During soil removal activities, two intact glass bottles were encountered in the soil around the former PSB on December 3rd and work was paused immediately.

- One of the glass bottles was unsealed and the other was sealed with a stopper. No stained soils or unusual odors were observed in the area where the bottles were found.
- The glassware was secured and sent for analysis. It was determined to be non-hazardous.
- Crews resumed work and completed the upslope soil benches.



Recovered glass bottle with stopper



Excavator pulling down concrete wall in preparation for the last soil bench



SITE-WIDE REMEDIAL ACTION

AU's Former Public Safety Building



Pre-Slab Removal Efforts



Completed upslope stabilization benches

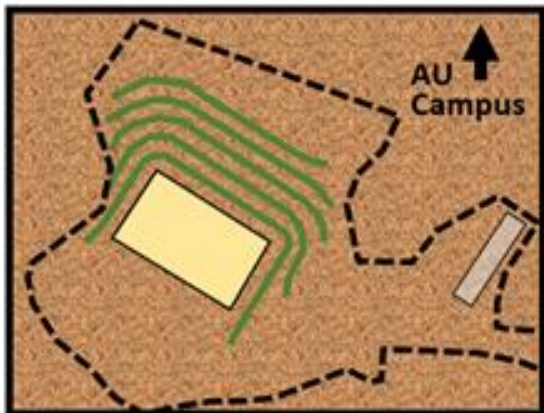


The crew using a walk-behind saw to cut the PSB foundation slab into sections. This saw distributes water to minimize the concrete dust.



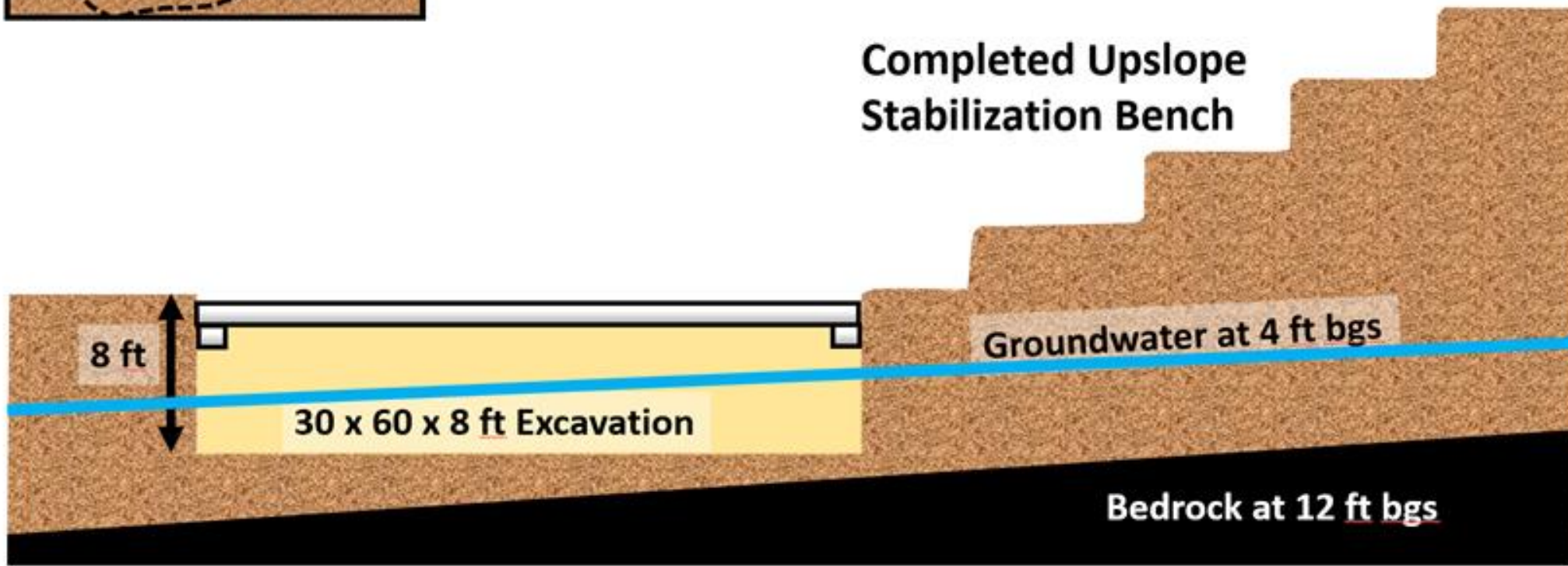
SITE-WIDE REMEDIAL ACTION

AU's Former Public Safety Building



PSB Excavation Cross Section

AU Campus →



*Not to scale



SITE-WIDE REMEDIAL ACTION

AU's Former Public Safety Building



Slab Removal Efforts



Crews started removing the sectioned pieces of the foundation slab, in preparation for the excavation of the soils beneath the former Public Safety Building.



Sections of the PSB foundation slab



SITE-WIDE REMEDIAL ACTION

AU's Former Public Safety Building



Crews began staging the soil screening station in preparation for the removal of the soils beneath the former Public Safety Building.

Intrusive excavation will continue as the basement slab is removed and soil screening station is complete.

The soil excavation work is anticipated to take 2-3 months to complete.



Soil screening tables

Bin blocks

Staging of the soil screening station



SPRING VALLEY FUDS RESTORATION ADVISORY BOARD



GLENBROOK ROAD PROJECT AREA

USACE Updates





GLENBROOK ROAD – RECENT EFFORTS

Final restoration efforts continued with soil compaction operations in select areas.



Crews continued to bring in clean soil, one truck load at a time, or use clean backfill already at the site, to fill in sections of the excavated site. The soil compaction is performed to construction site standards, with soil added in layers, compacted, and then tested.



GLENBROOK ROAD – RECENT EFFORTS



In December, we returned rented construction equipment until it is needed in 2020.

The crew installed a super silt fence near the south front corner of the property. The silt fence is an erosion control measure in the area where the soldier pile removal effort is ongoing. It provided greater site stability and security, including when the crew was largely demobilized over the holiday break.



GLENBROOK ROAD – RECENT EFFORTS



Excavated a trench around the foundation of 4835 Glenbrook Road to provide access for waterproofing the foundation wall.

The crew then installed J-Drain waterproofing near the shared property line, and completed backfilling the trench next to the 4835 Glenbrook Road foundation.

The effort is part of our final restoration plans to restore the waterproofing for the basement wall previously exposed during our extensive remediation efforts.



GLENBROOK ROAD – UPCOMING HTW EFFORTS



ECBC team's second round of soil gas sampling completed in November at 4835 Glenbrook Road, detected no agent or agent breakdown contamination.

The Corps of Engineers is discussing with the Partners whether to conduct another round of soil gas sampling, when the weather is warmer this year, to confirm these sampling results as an added measure of caution.





GLENBROOK ROAD – HTW AREAS



Plans are underway to return to two HTW areas, where recent confirmation samples detected some contamination.

- Located within Area 4, and along the shared property line with 4835 Glenbrook Road.

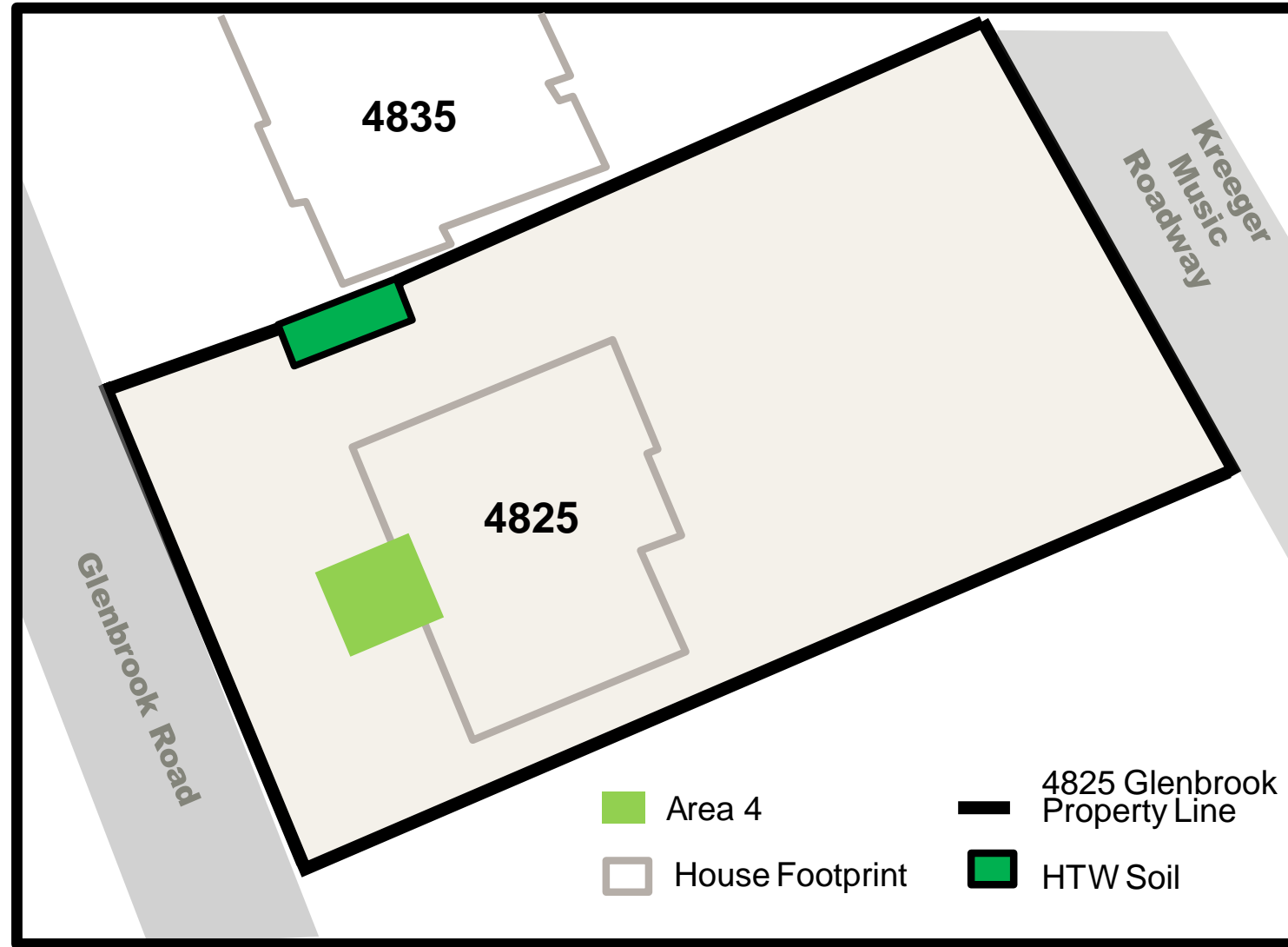
To complete this additional soil removal, the Partners discussed how to best evaluate the air monitoring regime due to the false positives for lewisite.



Crew taking HTW confirmation samples



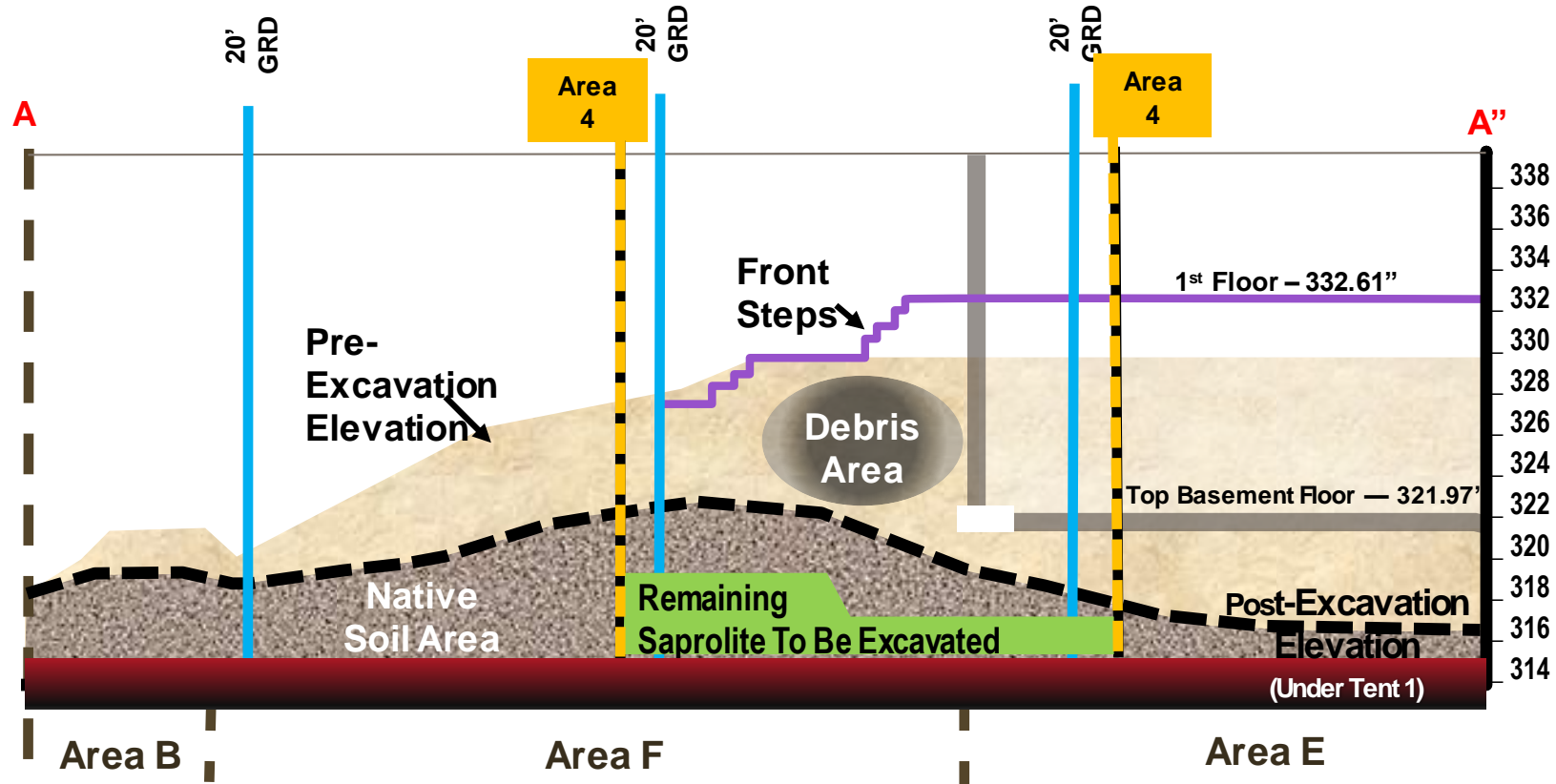
GLENBROOK ROAD – UPCOMING HTW EFFORT



Remaining HTW Contaminated Soil Removal Areas



GLENBROOK ROAD – UPCOMING HTW EFFORT



The site team will return to Area 4 to complete deeper excavation into bedrock.

Area 4 has a small area of remaining saprolite where HTW contamination has been detected.



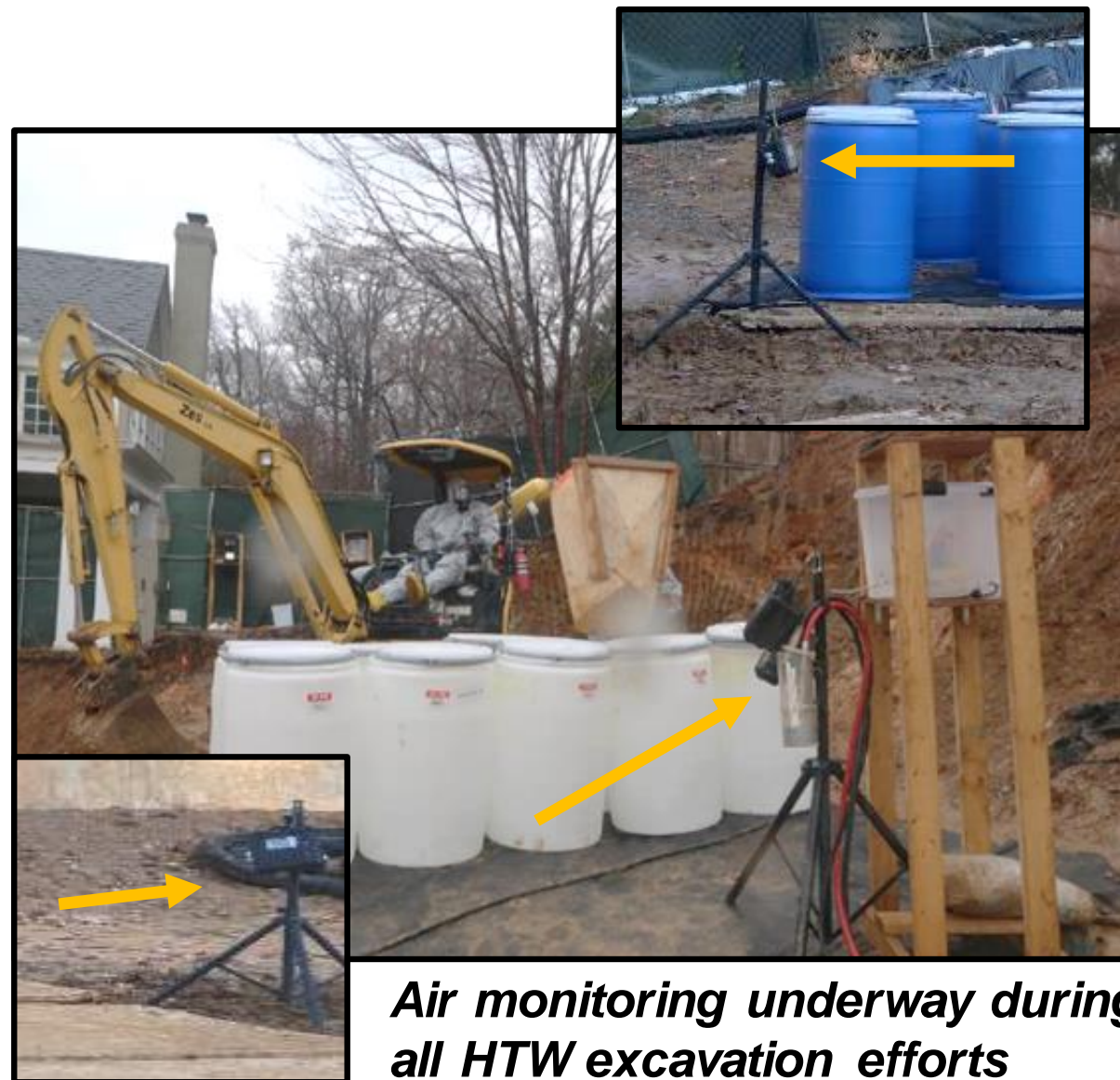
GLENBROOK ROAD – UPCOMING HTW EFFORT



Air Monitoring Approach at Area 4:

We will be using the same air monitoring approach with the MINICAMS, except we will not monitor for lewisite at the excavation site.

The lewisite MINICAMS will be placed downwind during excavation, at the perimeter, along with the usual DAAMS tubes.



Air monitoring underway during all HTW excavation efforts



GLENBROOK ROAD

Tentative Schedule



Winter/Spring 2020	<ul style="list-style-type: none">• Address remaining HTW at Area 4 and the grid along shared property line.• Completion of any remaining intrusive activities, conducted per Partner consensus on the conclusion of the HTW effort, and the Soil Gas Sampling results.• Ongoing site restoration for the Glenbrook project area.
Summer 2020	<ul style="list-style-type: none">• Anticipated project completion.

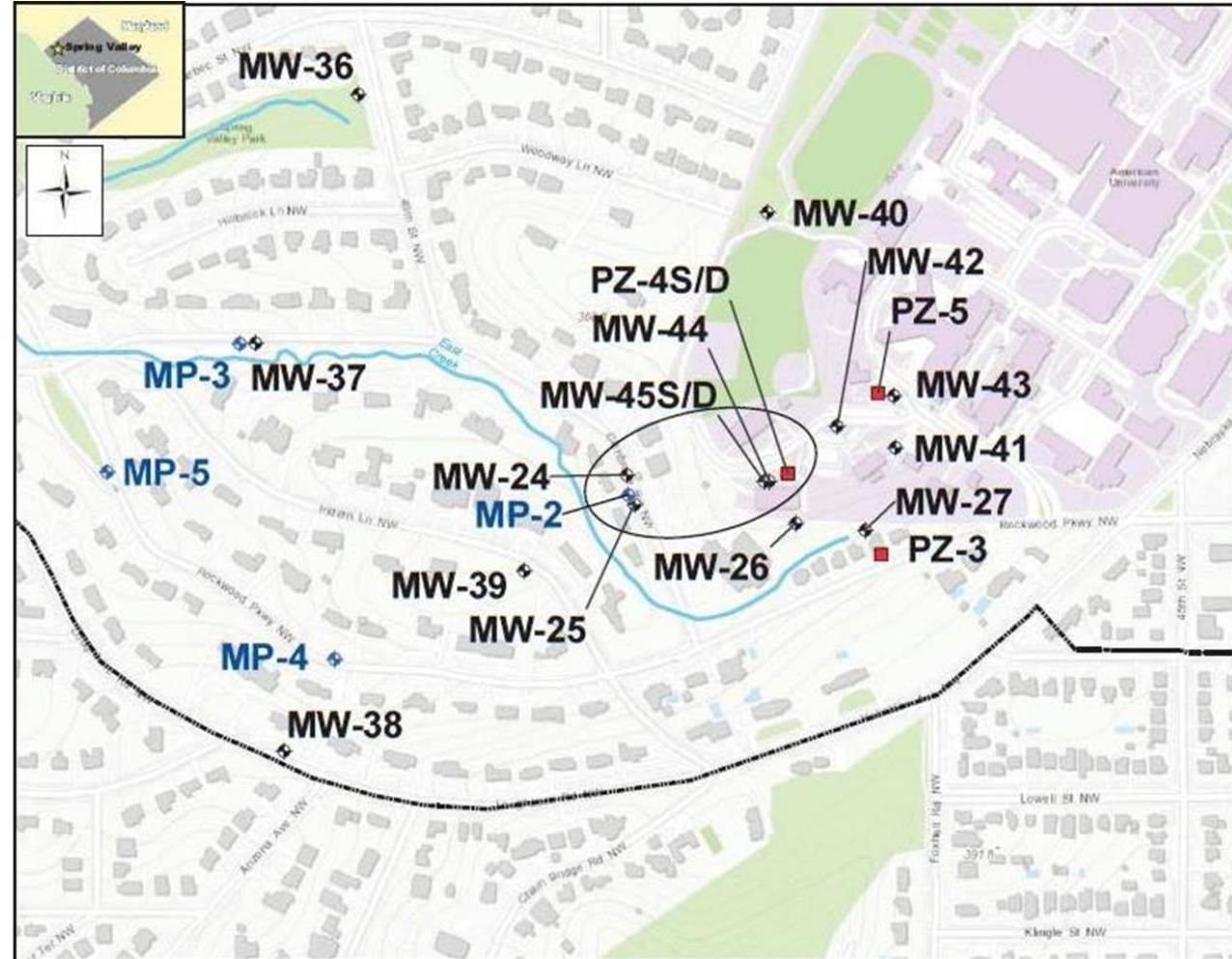


SPRING VALLEY FUDS RESTORATION ADVISORY BOARD



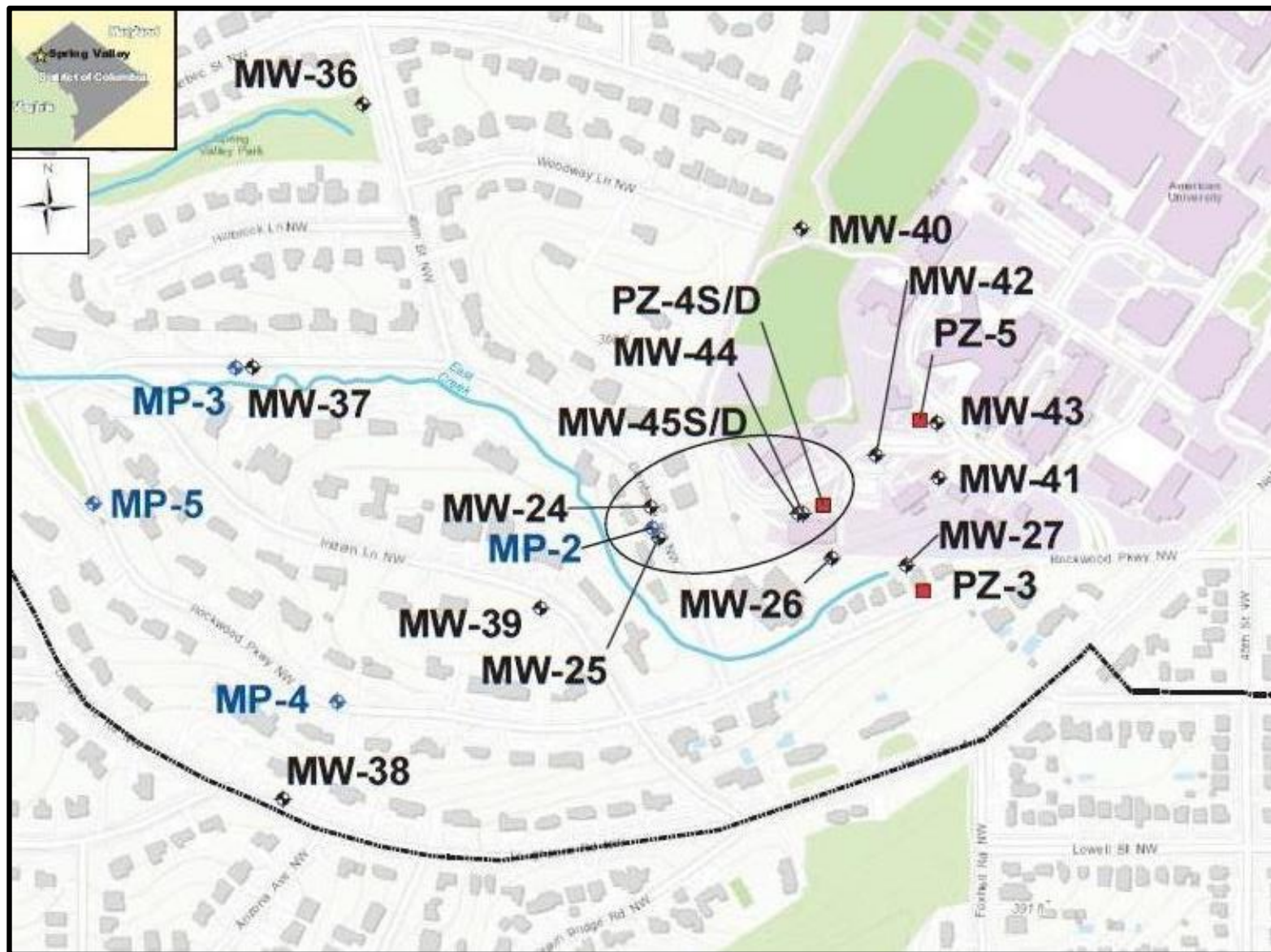
GROUNDWATER STUDY

USACE Updates





GROUNDWATER STUDY: EXPOSURE UNIT 2



Key

 Area encompassing the EU2 Monitoring Wells

 Spring Valley FUDS Boundary

 Piezometer

 Monitoring Well

 Multiport Well

S/D = Monitoring well or piezometer with screened intervals in the same borehole.



GROUNDWATER STUDY

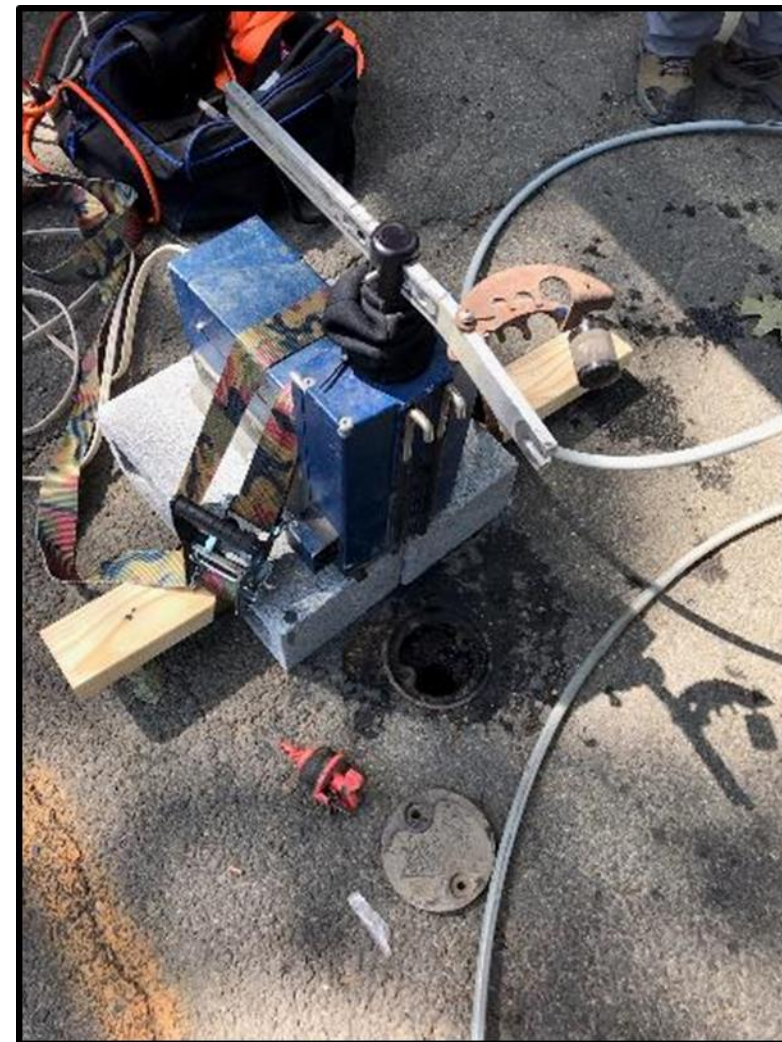


The Dispute Resolution was been paused at Tier 2, while the Army Corps and their Partners (DOEE and EPA) reviewed the initial sampling results. The Partners agreed to collect additional groundwater data in Spring 2020.

After this confirmation sampling is completed, the Partners will discuss the results and determine the path forward for the final groundwater approach.

Next Steps:

- Confirm that the arsenic concentrations are below established drinking the water standards.
- Continue to monitor perchlorate concentrations.
- The Perchlorate MCL is scheduled to be published in June 2020.



Groundwater sampling well



SPRING VALLEY RESTORATION ADVISORY BOARD



Community Items





SPRING VALLEY RESTORATION ADVISORY BOARD



Open Discussion:

Reminders:

- The next RAB meeting will be **Tuesday, March 10th, 2020**

Upcoming Agenda Items:

- *Suggestions?*
- Upcoming Spring 2020 Groundwater sampling results



**U.S. Army Corps of Engineers
Spring Valley Restoration Advisory Board
St. David's Episcopal Church
Minutes of the January 2020 Meeting**

RESTORATION ADVISORY BOARD MEMBERS PRESENT AT THIS MEETING	
Dan Noble	Military Co-Chair/USACE, Spring Valley MMRP Manager
Greg Beumel	Community Co-Chair
Jennifer Baine	Community Member
Brenda Barber	USACE, Spring Valley Project Manager
Brian Barone	Agency Representative - Department of Energy & Environment
Paul Bermingham	Community Member
Mary Kathryn Covert Steel	Community Member
Steve Hirsh	Agency Representative - Environmental Protection Agency (EPA) Region III
Dan Nichols	At Large Representative - American University
John Wheeler	Community Member
RESTORATION ADVISORY BOARD MEMBERS NOT PRESENT AT THIS MEETING	
Mary Bresnahan	Community Member
Marguerite Clarkson	At Large Representative - Horace Mann Elementary School
Mary Douglas	Community Member
Paul Dueffert	Community Member
William Krebs	Community Member
Lawrence Miller	Community Member
Lee Monsein	Community Member
Malcolm Pritzker	Community Member
Tom Smith	Community Member
ATTENDING PROJECT PERSONNEL	
Chris Gardner	USACE – Corporate Communications Office

Ivanna Goldsberry	USACE
Whitney Gross	Spring Valley Community Outreach Program
Holly Hostetler	ERT, Inc.
Carrie Johnston	Spring Valley Community Outreach Program
Rebecca Yahiel	Spring Valley Community Outreach Program
HANDOUTS FROM THE MEETING	
I. Final Agenda for the January 14, 2020 RAB Meeting	
II. Army Corps of Engineers Presentation	
III. December 2019 Monthly Project Summary	
IV. August 2019 Corps' pondent	

AGENDA

Starting Time: The January 2020 Restoration Advisory Board (RAB) meeting began at 7:17 PM.

I. Administrative Items

A. Co-Chair Updates

Dan Noble, U. S. Army Corps of Engineers (USACE), Spring Valley Project Manager, welcomed everyone and opened the meeting.

1. Introductions

None

2. General Announcements

a. Project Team Announcements

D. Noble announced that this was the last RAB meeting for Rebecca Yahiel, Spring Valley Community Outreach and Brenda Barber, USACE, Spring Valley Project Manager. R. Yahiel and B. Barber will be moving on to other projects for USACE Baltimore. Julie Kaiser, USACE Baltimore, will be taking over as the Project Manager for Glenbrook Road.

Question from Paul Bermingham, Community Member - Are we sure that this is the final decade?

D. Noble confirmed that this will be the final decade for the Glenbrook Road project.

b. Website Updates

D. Noble reviewed the website updates which included the November and December Site-Wide Monthly Project Update, weekly 4825 Glenbrook Road updates and photos, and the September RAB meeting minutes. D. Noble will confirm that the October Partner meeting minutes have been posted.

The next Partner meeting will be on February 13.

B. Task Group Updates

1. RAB Technical Assistance for Public Participation (TAPP) Consultant

- Two (2) firms appear qualified and expressed interest in supporting the RAB.
- The 2 potential firms are ATI, Inc. and Nspiregreen, LLC.
- Once the RAB identifies their preferred TAPP contractor firm, USACE will begin hiring negotiations.

Comment from Greg Beumel, Community Co-Chair - Well, after looking at the resumes, mostly some company qualifications, I talked to Dan and said that, 'at least based on top of what the RAB said last time and what has worked best for when we had Peter deFur, I would like a candidate who was semi-local.' Peter was from Richmond. I will call that local, ok, but somebody who can get here. And then I told Dan that I would like him to come up with what he thinks is the one who is going to help the Corps the most, because one of the great things that Peter did was, he went to Partner meetings. He could represent them. And so, I think he has got the company he wants. He does not have all the resumes he wants from them, but I thought that, and then when we get them, we will send out the last 2 resumes to people to see if they have any objections. But, that is going to be our best choice; somebody who can actually come to a meeting, and, you know, explain things that need to be explained as well as be able to come to Partner meetings and other things and sort of be able to represent us there since most of us do not, hardly any of us ever, get to a Partners meeting.

D. Noble confirmed that the ideal candidate would be someone that could be onsite at least once every month for the meetings.

Comment from G. Beumel, Community Co-Chair - Now, if anyone thinks that was a really stupid plan on my part, I will listen, but at least that is where I thought we would get our most bang for the buck. So, I have signed the official letter to the Colonel saying, 'please let us have \$25,000 a year for the next 2 years to pay for this person,' and they will process that at the same time that you make your decision who it should be. Hopefully, in a short period of time, we will have at least 2 years of a TAPP contractor and then [Ed. sentence trailed off]. When I signed my first letter, we were only allowed 1 extension and every couple years they needed a new letter. At least it seems that the Corps management appreciates letting us have a TAPP contractor.

D. Noble confirmed that he will send the resume to G. Beumel first.

G. Beumel explained that the resume will be sent to all the RAB members and then if anyone wants to talk about the candidates, a phone conference can be arranged.

D. Noble confirmed he will send the resume to G. Beumel quickly and move forward with the administrative tasks of hiring a TAPP contractor. The process will take more than a week in case the RAB changes its decision.

2. RAB Membership

Even though the RAB could not vote on a new member since a quorum was not present at the meeting, G. Beumel invited Jonathan Harms, RAB Community Member Candidate, to introduce himself.

Comment from Jonathan Harms, RAB Community Member Candidate - I am Jonathan Harms, I live over on 49th Street between Rodman and Sedgwick. My wife and I moved to 49th Street about 3 years ago now, it will be 3 years in April. We had our first child that June, June of 2017. I did not grow up in this area, so I was not aware of all the things going on here. I knew before we

moved to the neighborhood, but it is still somewhat new to me. Mary Kathryn is my neighbor across the street and when I learned about the committee here, I became very interested. So, I am happy to be here, hope to be a part of the committee, and look forward to helping out any way I can.

II. USACE Program Updates

A. Site-Wide Remedial Action (RA)

Ivanna Goldsberry, USACE Baltimore briefly reviewed the Site-Wide Remedial Design (RD)/Remedial Action (RA).

1. The final survey effort continues at the 92 residential properties and 13 Federal/City lots.

- Currently working on 87 residential properties at different stages of the remedial action process.
- Completed 80 civil surveys and 80 arborist surveys.
- The geophysicist team visited 79 properties to provide technical recommendations on plant removal.
- Vegetation has been removed from 49 private properties and 13 City/Federal lots.
- Geophysical surveys completed at 43 private properties and seven City/Federal lots off Dalecarlia Parkway.
- Anomaly removal completed at 34 private properties and four City/Federal lots off Dalecarlia Parkway.
- No new anomaly removals since the last RAB meeting.
- Issued two Assurance Letters to date. More Assurance Letters are expected to be issued in the coming weeks.

At the last RAB meeting, USACE described the process of how vegetation is identified for removal for the geophysical surveys. Even though vegetation is removed, the team strives to keep the properties neat by cleaning up after vegetation removals and covering holes left in garden beds.

Once the vegetation is removed, the crews place blind seeds on private properties. The blind seeds are industry standard objects (ISOs), metallic pipes that are buried at different depths and orientations. Quality Control (QC) seeds are placed by Weston Solutions to perform an internal check of their data processing and data collection. Quality Assurance (QA) seeds are placed by USACE to act as validation for Weston Solutions' data processing and data collection and to ensure Weston Solutions' processes meet the requirements included in the workplan.

The locations of the seeds are recorded via global positioning system (GPS). The geophysical survey teams and excavation teams do not know the locations of the seeds. The seeds are recovered during the anomaly removals.

At the last RAB meeting USACE discussed whether blind seeds have been missed. Weston Solutions has missed QC seeds but has not missed any QA seeds:

- When a QC seed is missed, Weston Solutions must perform a Root Cause Analysis (RCA) to determine why the seed was missed and must propose recommendations for how Weston Solutions' procedures will change so seeds are not missed in the future.
- Scenarios that have occurred that contributed to missed QC seeds include:
 - Data processing errors with coordinate conversions.
 - Equipment malfunctions and connectivity.

- Complex landscape features at a site. These features include hardscape areas, stairs, and rock retaining walls.
- Changes to the process to prevent future missed blind seeds include:
 - Use of a standard template to perform coordinate conversions.
 - Site walks to identify complex landscape features before conducting the survey.

2. Tentative Schedule

- Winter 2020
 - Continue to finalize plant removal plans and conduct plant removal in Dalecarlia Woods and private properties.
 - Continue geophysical surveys.
 - Continue to obtain Rights-of-Entry from the next group of homeowners.
 - Complete soil removal at two locations in the southern American University (AU) campus exposure unit.
 - Continue anomaly removal efforts; tentatively scheduled for February.
- Spring 2020
 - Continue finalizing plant removal plans with subsequent groups in preparation for geophysical surveys.
 - Continue geophysical surveys.

Question from Allen Hengst, Audience Member - I think I heard you say there were no new anomaly removals since the last meeting, so that first map in that first slide was the same as in November?

I. Goldsberry confirmed this.

Question from A. Hengst, Audience Member - And you have one scheduled for February?

I. Goldsberry confirmed this.

Question from A. Hengst, Audience Member - Is it slowing down? I mean, how come nothing [has] happened between November and now?

I. Goldsberry explained that the team had to wait for landscape removal plans to be finalized, and a slow-down in approvals by the homeowners has been observed. The team must also complete geophysical surveys and site preparation on the properties, such as civil and arborist surveys, before the team can begin anomaly excavations.

Question from A. Hengst, Audience Member - So, this anomaly removal effort that is scheduled is more than just one?

I. Goldsberry explained that USACE refers to a large group of properties as an effort.

Question from A. Hengst, Audience Member - So, maybe in March there will be more, maybe by March?

I. Goldsberry confirmed that more anomaly removals may be performed in March or April.

Question from D. Noble, USACE Spring Valley Project Manager - How many are going in the next group?

I. Goldsberry and Whitney Gross, Spring Valley Community Outreach explained that anomaly removals are scheduled for seven to ten properties in February and 22 properties are in line for the next group. The team will continue to move forward with the process on the 22 properties, including arborist and geophysical surveys.

Comment from A. Hengst, Audience Member - Thank you.

B. Former Public Safety Building (PSB)

Brenda Barber, USACE, Spring Valley Project Manager provided a brief update on the former Public Safety Building (PSB).

- Crews continued benching the upslope soils of the basement slab. During soil removal activities, two intact glass bottles were encountered in the soil around the former PSB on December 3rd and work was paused immediately.
- One of the glass bottles was unsealed and the other was sealed with a stopper. No stained soils or unusual odors were observed in the area where the bottles were found.
- The glassware was secured and sent to Edgewood Chemical Biological Center (ECBC) for analysis after the glassware cleared headspace analysis at the Federal Property. The glassware was determined to be non-hazardous and cleared for agent.
- Crews resumed work and completed the upslope soil benches for safe excavation of the former PSB.
- The crews began to cut the concrete foundation slab into manageable pieces in preparation for the excavation of the soils beneath the former PSB.
- Once the slab is removed the crews will excavate the soils to eight feet in depth across the former footprint of the PSB and perform confirmation sampling.
- The crews encountered a substantial layer of pea gravel and a plastic barrier under the foundation slab. This means the concrete is clean and had no contact with the soil. The clean concrete may be recycled, minimizing the amount of the waste going into the landfill system. The soils beneath the slab will be excavated over the next few weeks.
- A soil screening table is in place to screen all the excavated soils for any type of glassware, debris, or potential munition items. The screening will take place once the slab is removed. After the screening process, the soils will be stockpiled onsite and containerized for removal to the Federal Property for characterization and disposal.

Question from A. Hengst, Audience Member - Approximately where on the site were the two intact glass bottles? Was that the upslope?

B. Barber confirmed that the glass bottles were found in the upslope. All encountered items are tracked, and the team will present that information to the Partners to determine if the excavation limits need to be expanded. All the items encountered so far have cleared headspace.

Question from A. Hengst, Audience Member - Can you estimate how far from the building the bottles were [Ed. garbled]?

B. Barber and N. Noble explained that the glass bottles were found in the final bench, a couple feet from the foundation; not significantly outside the limits of the excavation, but adjacent to the former footprint of the PSB.

- The soil excavation to eight feet is expected to take two to three months to complete.
- Restoration of the site will begin after excavation and conformation sampling is complete.

Question from Jennifer Baine, Community Member - Did they figure out what was in the bottles?

B. Barber explained that the two bottles were determined empty once the bottles were cleaned at ECBC. Sometimes a partially full or full bottle is determined to be filled with soil with no agent present. Until confirmation of no agent, the bottles are handled as if liquid agent were present.

Question from John Wheeler, Community Member - What was the size of the bottle, if you could just?

D. Noble and B. Barber explained that the recovered glass bottle with the stopper was a ½ liter bottle.

Comment from J. Wheeler, Community Member - Ok, yeah, I just could see from looking at that.

Question from J. Baine, Community Member - One more. Is pea gravel and plastic under a foundation, is that normal, abnormal?

B. Barber explained that the team was not anticipating anything at the site based on the age of the building and the time of construction. Pea gravel and plastic under the foundation is not currently unusual but would have been unusual at the time of construction. The presence of the pea gravel and plastic helps the team by serving as a delineation between the foundation and the soil.

C. Glenbrook Road

B. Barber provided a brief update on 4825 Glenbrook Road and 4835 Glenbrook Road.

1. Recent Activities

- Final restoration efforts continued with soil compaction operations in select areas of the site confirmed clean.
- Crews continued to bring in clean soil, one truck-load at a time, or use clean backfill already at the site, to fill in sections of the excavated site. The soil compaction is performed to proper construction site density standards, with soil added in layers, compacted, and then tested.
- In December the team returned rented construction equipment to save funds until the equipment is needed in 2020.
- The crew updated storm water protection measures, including installation of a super silt fence near the south front corner of the property. The silt fence is an erosion control measure in the area where the soldier pile removal effort is ongoing. The silt fence provided greater site stability and security, including when the crew was mostly demobilized over the holiday break.
- A trench was excavated around the foundation of 4835 Glenbrook Road to provide access for waterproofing the foundation wall.
- The crew then installed J-Drain waterproofing near the shared property line and completed backfilling the trench next to the 4835 Glenbrook Road foundation.
- This effort is part of the final restoration plans to restore the waterproofing for the basement wall previously exposed during the extensive remediation efforts.

2. Upcoming Hazardous and Toxic Waste (HTW) Efforts

The second round of ECBS soil gas sampling completed in November at 4835 Glenbrook Road detected no agent or agent breakdown products (ABPs). Low levels of volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) consistent with the first round of sampling were observed. A summary table will be presented to the Partners to discuss if there is need for a 3rd round of sampling during the summer months to confirm there are no sub-slab issues at the

property.

3. HTW Areas

Plans are underway to return to two HTW areas where recent confirmation samples detected some contamination:

- Area 4, near the former front porch in the former front yard of 4825 Glenbrook Road.
- Small hotspot area along the shared property line between 4825 Glenbrook Road and 4835 Glenbrook Road.

The team discussed the two locations extensively with the Partners, and the Partners agreed that work would resume in both areas with a slightly modified air monitoring plan due to the false positives for Lewisite (L) on the Miniature Chemical Agent Monitoring System (MINICAMS).

The excavation in Area 4 is nearly complete and very close to saprolite. As discussed previously at the RAB, the challenge with completing the excavation is an interferent, suspected to be Dichloronaphthalene, that is causing false positive ring-offs on the MINICAMS. Since the excavation is conducted in open air, when MINICAMS ring-offs occur the team must halt work, convene the Project Delivery Team (PDT), and discuss if it is appropriate to resume work. The team discussed the interferent challenge with the Partners, and the Partners agreed to resume work in open air. The site team will be in Level B personal protective equipment (PPE) with supplied air, and the excavation will be conducted with a slightly modified air monitoring approach.

In the past, air monitors were set up for L and mustard (HD) at the excavation point with the Depot Area Air Monitoring System (DAAMS) tubes at the perimeter. Because of the interferent in Area 4, the team proposes to move the MINICAMS monitoring for L to the perimeter, slightly offset from the excavation area, to eliminate the false positives. The team will continue to run the normal MINICAMS at the excavation point for all other components, including HD.

4. Tentative Schedule

- Winter 2020
 - The team will prepare the remaining HTW areas and plan to resume work at Area 4 and the grid along shared property line within the next month.
 - Completion of any remaining intrusive activities; conducted per Partner consensus on the conclusion of the HTW effort, and the Soil Gas Sampling results.
 - Ongoing site restoration for the Glenbrook project area.
- Summer 2020 - anticipated project completion.

Question from A. Hengst, Audience Member - This soil gas sampling that you might do in the warmer weather, is that because the first time when you got the positive results that was in warmer weather? When was that?

B. Barber explained that the first sampling event was in August/September and the last sampling event was one and one-half years later in November.

Comment from A. Hengst, Audience Member - So, it sounds like you are trying to replicate what happened.

B. Barber explained that the sampling would be conducted in warmer weather because the agent would typically volatilize. The timing of potential sampling will be discussed with the Partners.

Question from A. Hengst, Audience Member - Maybe over the summer?

B. Barber confirmed that a third round of sampling might be conducted in June or July when the temperature will likely be 100 degrees.

Comment from A. Hengst, Audience Member - That will do it.

Comment from B. Barber, USACE, Spring Valley Project Manager - I just want to say thank you. It has been almost a decade for me on the project. I have really appreciated all the support from the RAB and coming and meeting with you guys and talking with you guys. It has been a great experience for me. Fortunately, I am taking Rebecca with me, so we are not leaving the Corps, we are just moving on to a different project that is going to take a lot of our time. We will still be available to the team and if you guys have questions Dan and Ivanna know how to find us. We can still be available if necessary. So, thank you.

Question from Mary Kathryn Covert Steel, Community Member - Thank you for your many contributions you made to the RAB. Do you have any advice to us as the project enters the next phase?

Comment from B. Barber, USACE, Spring Valley Project Manager - I am not as involved with the Site-Wide just because Glenbrook took so much of my time and because I have so many other high-profile projects. I think you guys are being left in very good hands and Dan and Ivanna know the Site-Wide like the back of their hand, so I think that you guys are poised to be complete this decade. So, I think just continue to interact with them and provide your feedback and input because they are very willing to get that feedback and that collaboration is what really brings us to a successful end of the project.

Comment from M. K. Covert Steel, Community Member - Thank you.

Comment from B. Barber, USACE, Spring Valley Project Manager - You are welcome.

D. Groundwater Feasibility Study / Dispute Resolution

D. Noble provided a review of the Groundwater Remedial Investigation (RI) and a brief update on the Groundwater Feasibility Study (FS).

At the last RAB meeting, Todd Beckwith, USACE Baltimore discussed the past Groundwater RI/FS efforts and described the latest round of groundwater sampling performed in late summer 2019. The outcome of the latest groundwater sampling data appears to indicate that the arsenic (As) levels in all the wells dropped below drinking water standards. The perchlorate levels in Exposure Unit 2 (EU2) are still above the drinking water advisory level of 15 parts per billion (ppb), so those wells are still a concern.

There is Environmental Protection Agency (EPA) rule-making underway for drinking water standards. Some of the proposed levels for an established perchlorate standard would be above the levels observed in the wells. If the rules get finalized in the next 6-12 months, there may no issue with perchlorate. If the new EPA perchlorate drinking water level is set near the current advisory level, then there will still be an issue with perchlorate. In the meantime, more sampling will be conducted in the spring.

Question from A. Hengst, Audience Member - This upcoming groundwater sampling would be on the AU campus around Kreeger, but also on Glenbrook Road, where you have MP-24 and MP-2; is that on Glenbrook Road?

D. Noble confirmed that wells MP-24 and MP-2 are part of EU2 along Glenbrook Road and had

been the wells with As issues. The team will sample the wells again to ensure that the As levels have dropped, as observed in the latest round of sampling.

D. Noble will inform the RAB when T. Beckwith discusses the next round of sampling with the team and when the next round of sampling will occur.

III. Community Items

IV. Open Discussion and Future RAB Agenda Development

A. Upcoming Meeting Topics

- RAB TAPP Consultant
- Groundwater FS Study/Policy Issues between USACE, EPA, and DOEE
- Site-Wide RD/RA
- 4825 Glenbrook Road/4835 Glenbrook Road

G. Beumel invited the RAB to suggest future topics for the next RAB meeting.

Comment from M. K. Covert Steel, Community Member - I would love, Greg, a deep dive on the rule-making that is going on and the number of standards and what they were under previous EPA rule, what is proposed now, and then how that impacts us, if you could spend some time on that, that would be great.

D. Noble asked Steve Hirsh, Agency Representative - Environmental Protection Agency (EPA) Region III if someone from EPA could provide the EPA rule-making information.

S. Hirsh explained that he could not share what the new levels might be but can explain how the levels are established, what the levels were in the past, where the levels are now, and what the options are for the future.

Comment from M. K. Covert Steel, Community Member - Thank you.

Comment from J. Wheeler, Community Member - Some time ago, years ago, EPA presented the Superfund process. Although I was pretty familiar with it, I thought that it was useful to think about that as it applies to this site. We have got a lot of new people on the RAB; that might be beneficial for them to understand just what this is. Everything we are going through is all in that statute; the remedial action, the remedial design, all of that is part of the process. So, it might be useful. At one time we were talking about the Potentially Responsible Parties. That is all part of that process. The CDC is part of the process. So, it might be useful to have a discussion of that.

D. Noble confirmed he remembered the presentation made by Charlie Howland, an EPA attorney no longer with EPA.

S. Hirsh confirmed that C. Howland is no longer an EPA attorney. S. Hirsh noted that the March RAB meeting will be his last meeting. He can explain the process from discovery through current day. He requested slides to use for the presentation.

W. Gross confirmed she would send the slides for the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) to S. Hirsh.

S. Hirsh confirmed he would give a presentation to the RAB using the CERCLA slides.

D. Noble and S. Hirsh explained that C. Howland talked about how formerly used defense sites (FUDS) work, who has authority over FUDS sites, and some of the differences, because some

FUDS sites are not Superfund sites, but they are being cleaned up under ‘Superfund.’ The Spring Valley FUDS is not a Superfund site.

Question from J. Wheeler, Community Member - By that you mean it is not on the National Priority List (NPL)?

D. Noble confirmed this.

S. Hirsh explained that although the Spring Valley FUDS is not on the NPL, it is not because Spring Valley is FUDS; there are other FUDS on the NPL.

D. Noble explained that FUDS are a little different because they are government clean-up projects on private land.

S. Hirsh explained that C. Howland’s point was that the President delegated power to different agencies. The Department of Defense (DoD) has certain responsibilities; they have almost all responsibility for their own sites, such as Aberdeen Proving Ground (APG) and Fort Lesley J. McNair; they are the lead agency. Not so with FUDS, but certain things are the DoD’s responsibility. It is complicated because DoD does not own the property.

D. Noble confirmed that the states play a large role in FUDS, and in the case of Spring Valley, the city plays a role in the FUDS within the city.

Question from J. Baine, Community Member - Really quick, maybe off-topic. Is the Corps aware of the controversy in the neighborhood over the bike lane on Dalecarlia?

D. Noble confirmed that USACE Baltimore is aware of the bike lane issue.

Comment from J. Baine, Community Member - So, what I am thinking, is that, there is all this Corps land, right, that is along Dalecarlia? And, as it is being excavated, has there been any discussion on, like, as you re-vamp it, maybe as an olive branch to the neighborhood of putting the bike path along the woods rather than in the street? Or, a walking path or something. It just might be a really beautiful way to end this project, like, ‘there you go;’ especially if it is land.

I. Goldsberry, D. Noble, and Chris Gardner, USACE, Corporate Communications Office explained that the land along Dalecarlia Parkway belonged to USACE until 1942, but since that time the land along Dalecarlia Parkway does not belong to USACE.

W. Gross noted that the ownership of the Dalecarlia Parkway land could be a future topic for a RAB meeting.

Comment from J. Baine, Community Member - We do not have to if it is not even a possibility.

G. Beumel suggested that a map describing the ownership of the area could be presented at a future meeting.

D. Noble explained that the legal documents of ownership are old maps that the Army used to delineate the different owners that received parcels of the land from the Army. When creating the maps, each owner was identified by different hand-drawn cross-hatching. It is clear that USACE does not have control over the land along Dalecarlia Parkway. The land is owned by either the city or the park service.

Comment from M. K. Covert Steel, Community Member - I love the idea.

Comment from J. Baine, Community Member - I do not know, there is so much land there.

Comment from J. Wheeler, Community Member - I love the idea of the walking path, you know, keep the bike path. I am sure that would make the people who are complaining about the bike path very happy, then they can walk.

B. Next RAB Meeting:

Tuesday, March 10, 2020

C. Open Discussion

V. Public Comments

VI. Adjourn

The meeting was adjourned at 7:54 PM.