



SPRING VALLEY FORMERLY USED DEFENSE SITE PROJECT
RAB Meeting

January 8, 2019
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**
Groundwater Study
Site-Wide Remedial Action
Glenbrook Road
- 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 12, 2019
- 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
08 January 2019**

“The USACE Mission in Spring Valley is to identify, investigate and remove or remediate threats to human health, safety or to the environment resulting from past Department of Defense activities in the area.”

“The views, opinions and findings contained in this report are those of the authors(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation.”



AGENDA REVIEW

Co-Chair Updates

- Introduction, Announcements

Task Group Updates

- TAPP Contractor
- RAB Membership

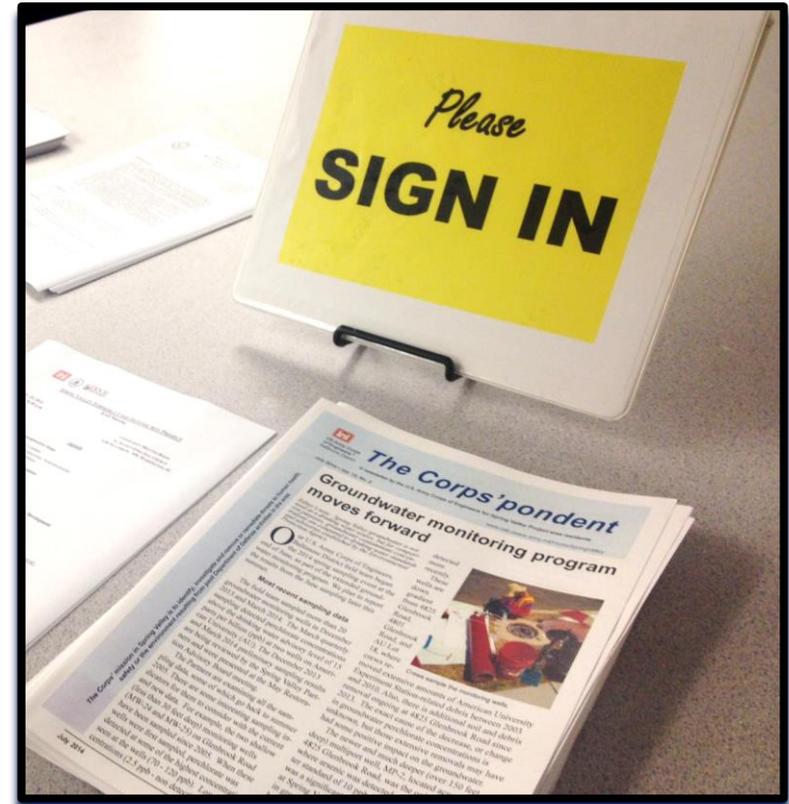
USACE Updates

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

Community Items

Open Discussion & Future RAB Agenda Development

Public Comments



US Army Corps
of Engineers.

CO-CHAIR UPDATES

Introductions



CO-CHAIR UPDATES

Announcements

Website Updates:

- November and December Monthly Site-Wide Project Updates
- Weekly 4825 Glenbrook Rd Project Updates with photos
- Update RAB member roster
- October Partner meeting minutes
- December 2018 Corps'pondent

BALTIMORE DISTRICT

US Army Corps of Engineers

Search Baltimore District

HOME > HOME > SPRING VALLEY

Announcements

Next Restoration Advisory Board Meeting - May 8, 2018

The next RAB meeting is scheduled to be held on **Tuesday, May 8 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.

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.

Spring Valley Overview

Project Efforts

- Project Update
- 4825 Glenbrook Road
- Site-Wide
- Groundwater

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

Site-Wide

The Corps'pondent

Project Documents



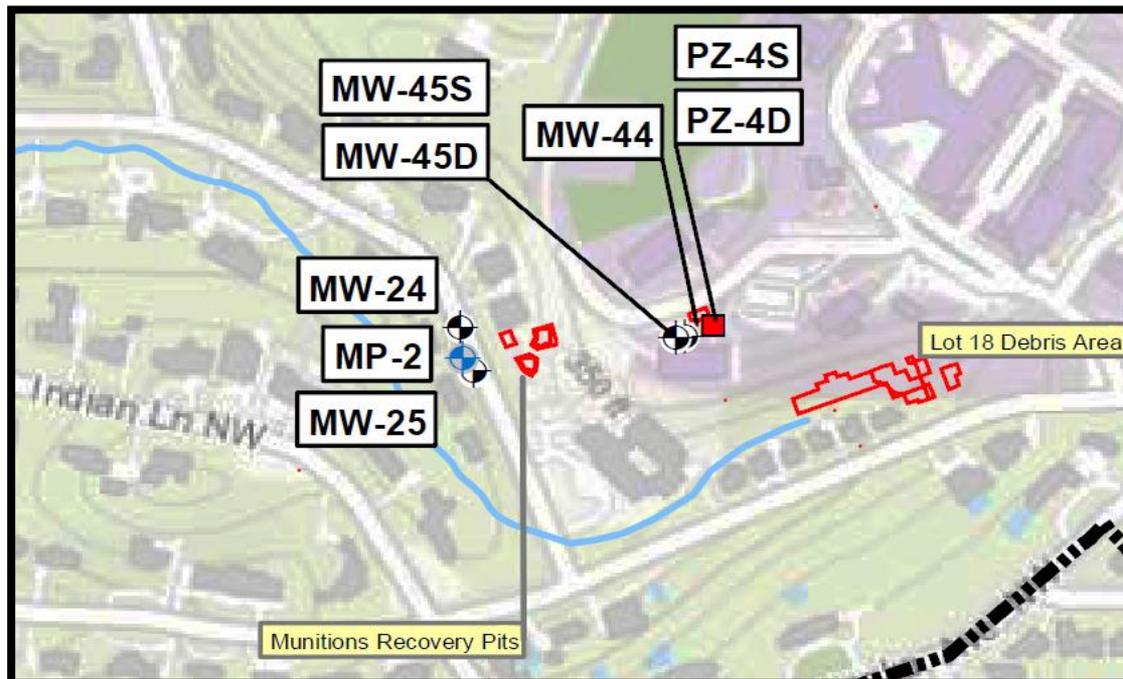
TASK GROUP UPDATES

- New TAPP Contractor
- RAB Membership
 - Marguerite Clarkson (Horace Mann Elementary School)



GROUNDWATER STUDY

USACE Updates



US Army Corps
of Engineers.

DISPUTE RESOLUTION

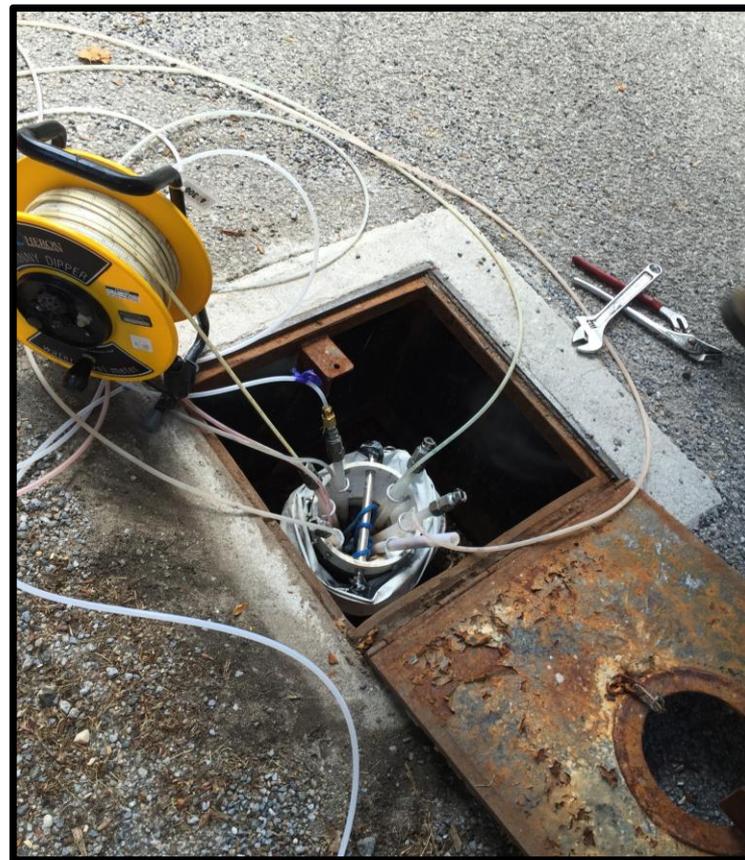
As a reminder, after receipt of the Draft Final Proposed Plan, DOEE submitted a request for Dispute Resolution under the DoD/District Memorandum of Agreement (DDMOA). The Dispute Resolution was paused at Tier 2 while the Army Corps and their Partners discuss potentially conducting additional groundwater data collection.

- **Nationwide DoD/EPA Policy Disagreement:**
 - EPA and DOEE position: groundwater must be restored to drinking water standards if groundwater could be used as drinking water source.
 - DoD position: CERCLA is risk based, cleanup decisions should be based on protection of human health and the environment. Prevention of exposure is an acceptable remedy.



TENTATIVE GROUNDWATER SCHEDULE

- **Winter 2019:** Address Dispute Resolution Request.
- **Winter 2019:** Finalize Feasibility Study.
- **Spring 2019:** Proposed Plan, public comment period, public meeting.
- **Fall 2019:** Final Decision Document.



MP-5 on Rockwood Parkway

SITE-WIDE REMEDIAL ACTION (RA)

USACE Updates



SITE-WIDE REMEDIAL ACTION

Munition Education and Awareness

The **'Land Use Control Implementation Plan,'** or **LUCIP** has been finalized. The **LUCIP** entails continuing the *3Rs* of the Explosive Safety Education Program (*Recognize, Retreat, Report*), and 5-year reviews to ensure that human health and the environment continue to be protected.



The team continues to prepare a FUDS information notice, along with a brochure about the 3Rs, to distribute to the community once they are reviewed by the Spring Valley Partners and finalized. Initial distribution is anticipated this Spring. Then distributed annually every spring.

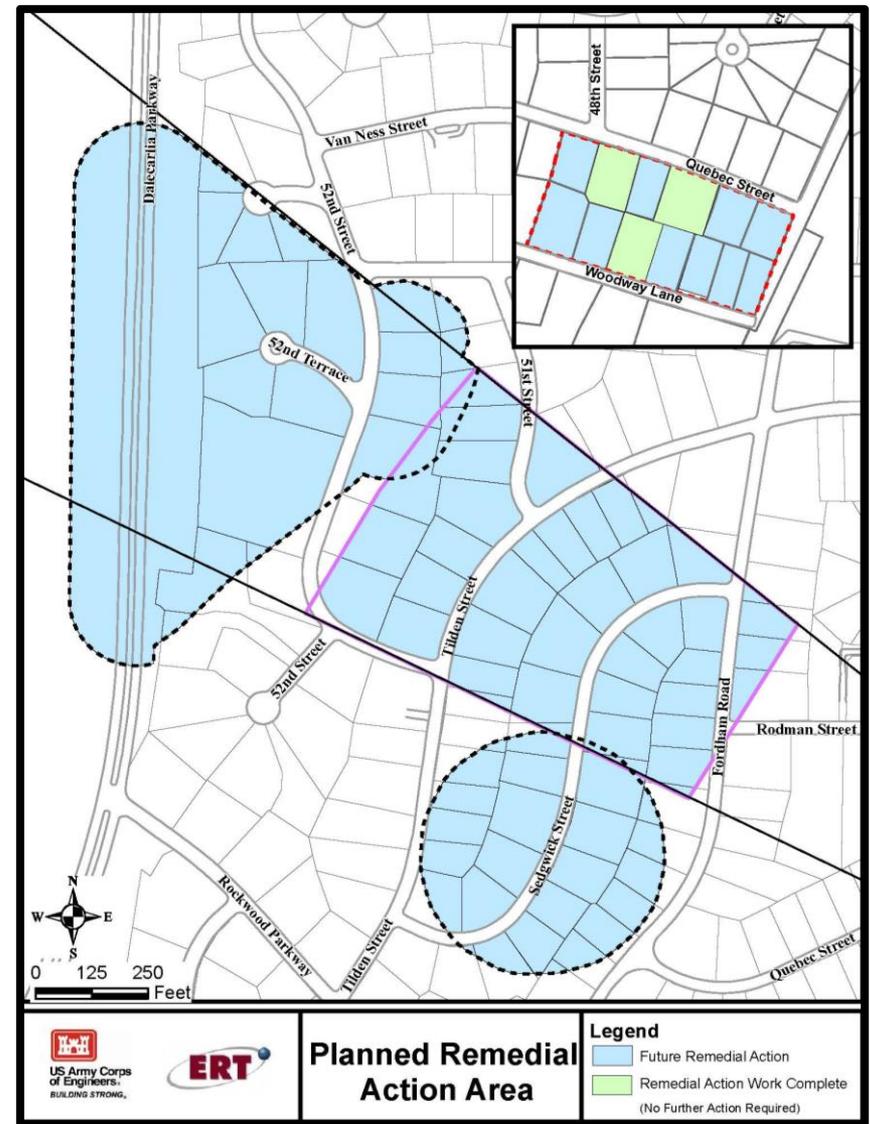
The informational notice and brochure will be sent to all property owners in neighborhoods such as Spring Valley and AU Park; and institutions within the Spring Valley FUDS boundary, including Sibley Hospital, the Washington Aqueduct, American University, Wesley Seminary, and the local police department.



SITE-WIDE REMEDIAL ACTION

Final survey effort at 91 residential properties and 13 Federal/City Lots:

- Rights-of-Entries received from 33 residential properties.
- 33 civil surveys and 29 arborist surveys have been completed.
- Geophysical clearing walkthroughs completed at 26 properties.
- Vegetation removed from 9 private properties and 7 City/Fed lots.
- Geophysical surveys completed at 5 private properties and 4 City/Fed lots off Dalecarlia Parkway.
- Initial anomaly removal at 4 City/Fed lots off Dalecarlia Parkway.



SITE-WIDE REMEDIAL ACTION

Advanced Geophysical Classification (AGC) survey efforts underway



The presence of metal fences interferes with the geophysical data collection instruments. With the homeowners' permission, the team is temporarily removing section of metal fencing before the property is surveyed.



In many cases, temporary fencing is installed following the removal of each metal fence. Each property's fence will be restored once the survey and anomaly removal is completed at that property.



SITE-WIDE REMEDIAL ACTION

Advanced Geophysical Classification (AGC)

Geophysicists conducting Dynamic and Cued surveys to characterize metallic anomalies with the Man Portable Vector (MPV)



Collecting data in Dynamic Survey mode



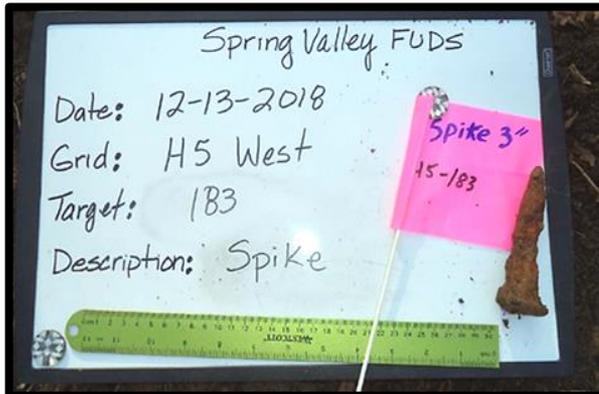
Collecting data in Cued Survey mode

SITE-WIDE REMEDIAL ACTION

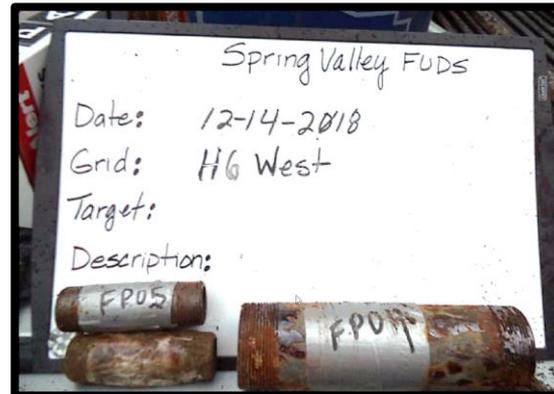
Advanced Geophysical Classification (AGC) survey efforts underway in Dalecarlia Woods



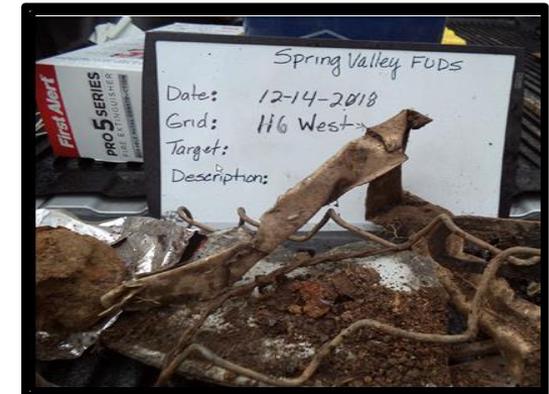
The anomaly removal team digging items from areas of the Dalecarlia Woods where the geophysical survey was completed.



Recovered railroad spike



Recovered quality control "blind seeds"

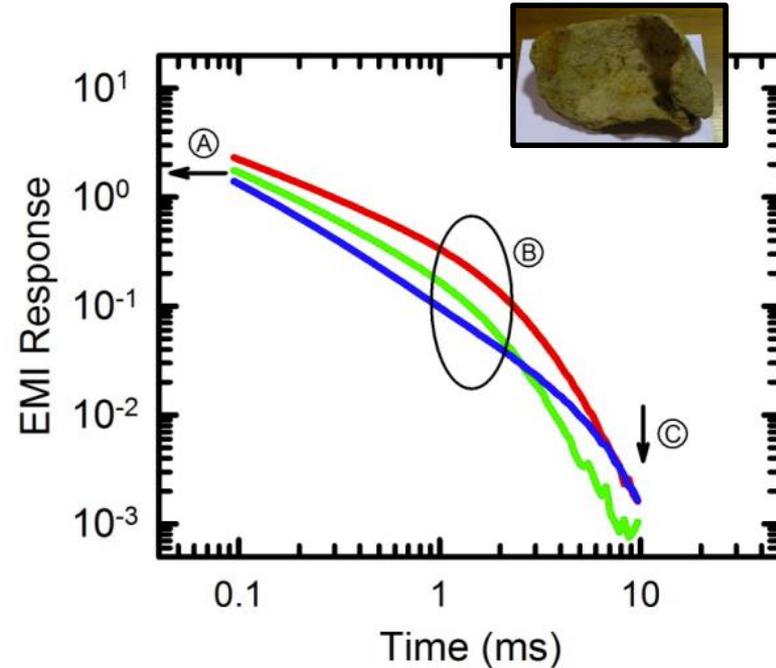
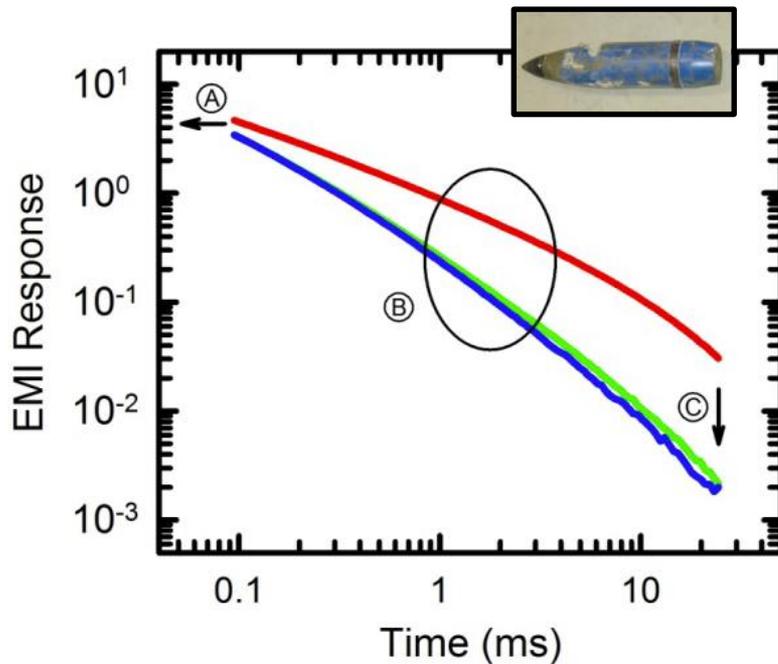


Recovered non-Army related metal

SITE-WIDE REMEDIAL ACTION

Advanced Geophysical Classification (AGC)

Comparison of Electromagnetic Induction (EMI) Responses for Two Metal Objects



The overall amplitude of the response (A) is related to the volume of the object; the projectile on the left is larger than the fragment on the right and the responses are about twice as large. The projectile is cylindrical, which results in one large response corresponding to the long axis and two smaller, but equal, responses corresponding to the other two axes (B). The fragment is not symmetric and exhibits three distinct responses. The decay of the curves is related to the wall thickness of the object. The responses of the thick-walled projectile persists (C) for a longer time than the fragment.

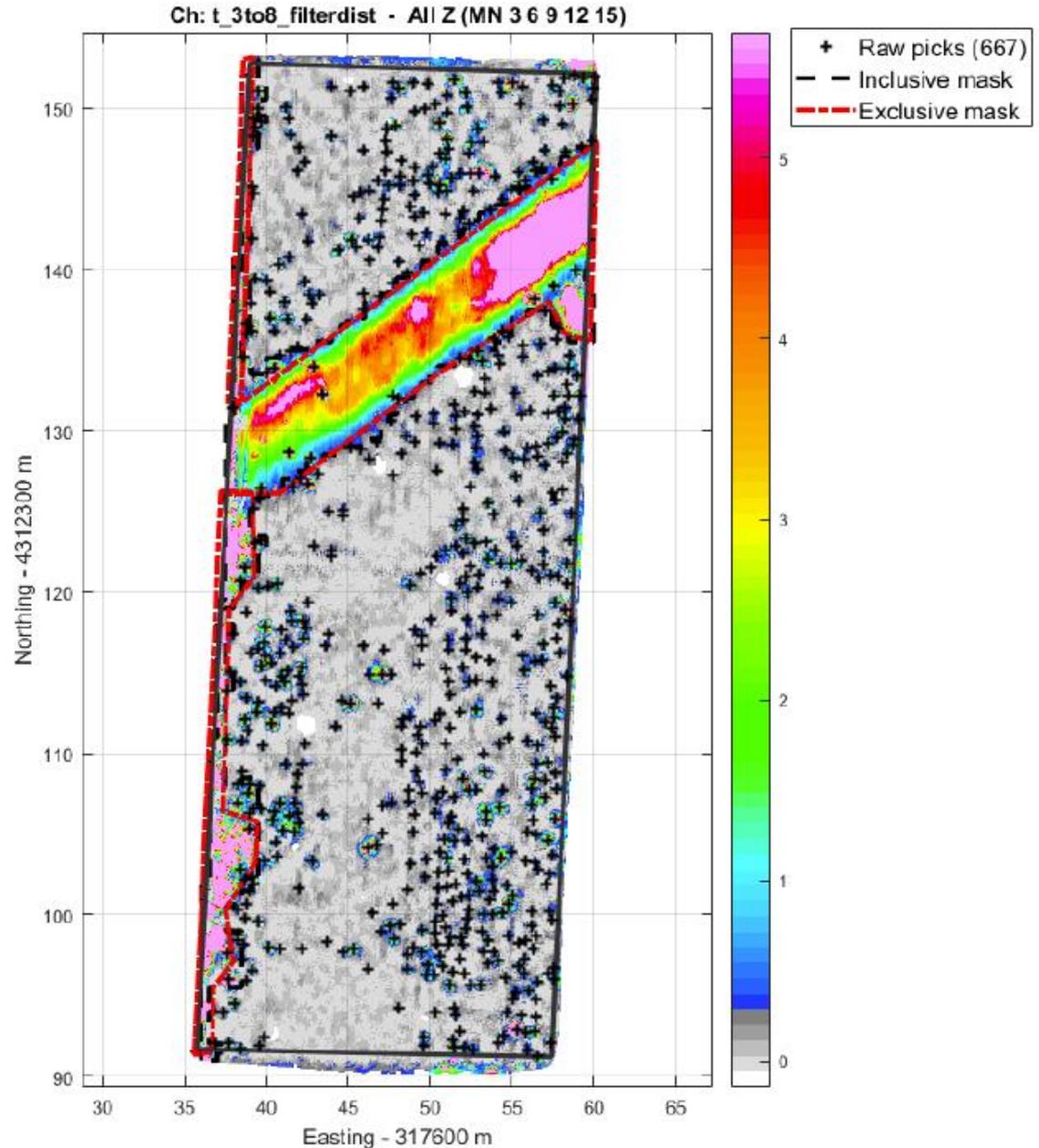
SITE-WIDE REMEDIAL ACTION

Grid H5 in Dalecarlia Woods

667 total targets identified from the Dynamic Survey.

The Cued Survey results were: 81 anomaly digs, 7 verification digs, and 3 validation digs (selected by the Army Corps).

All blind seeds were properly identified and no munition related items were found.

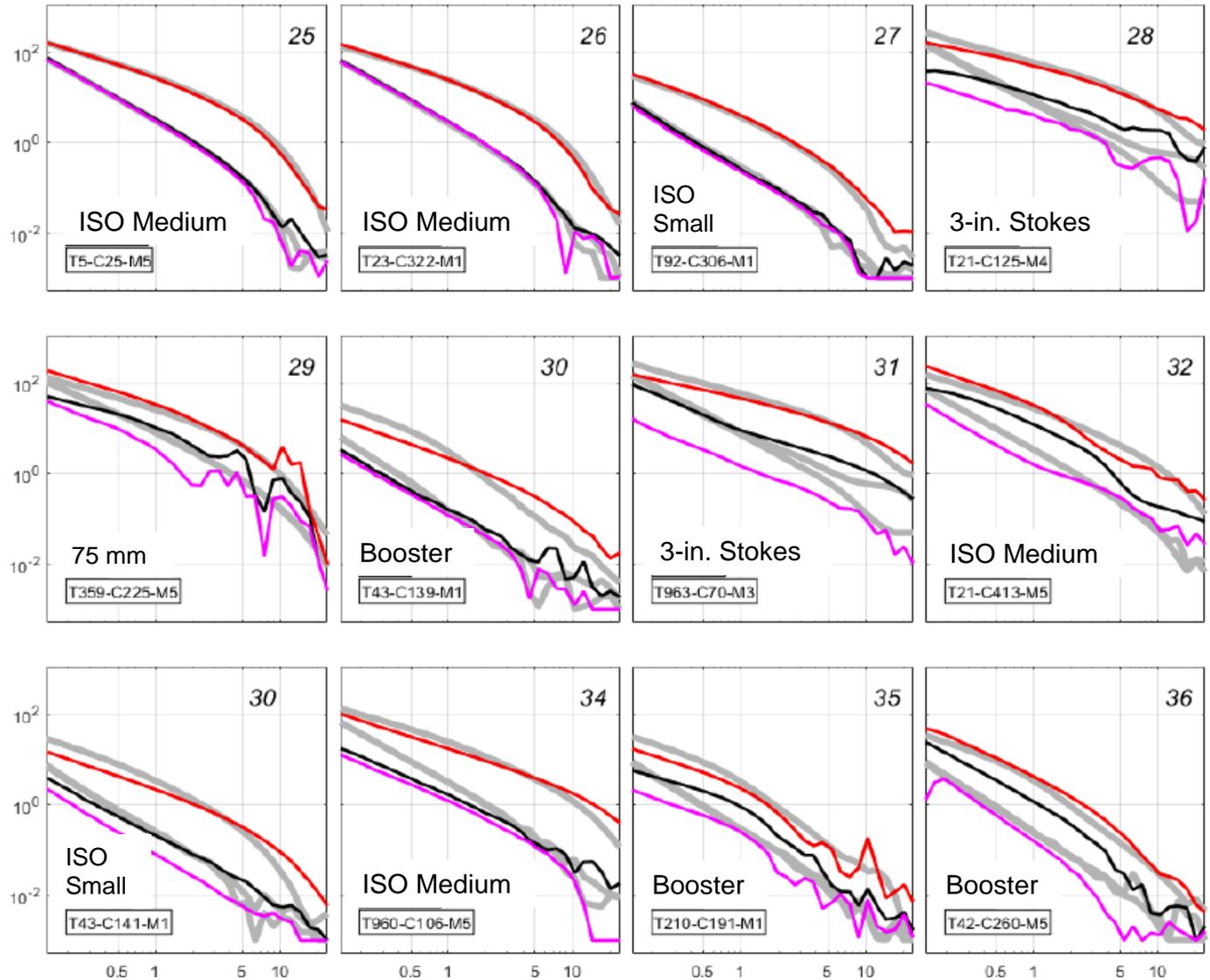


SITE-WIDE REMEDIAL ACTION

Advanced Geophysical Classification (AGC)

Grid H5
Polarizabilities of
First 12 digs.

The grey lines
indicate data from
the library, while
the colored lines
are data responses
from the anomalies
in the ground.

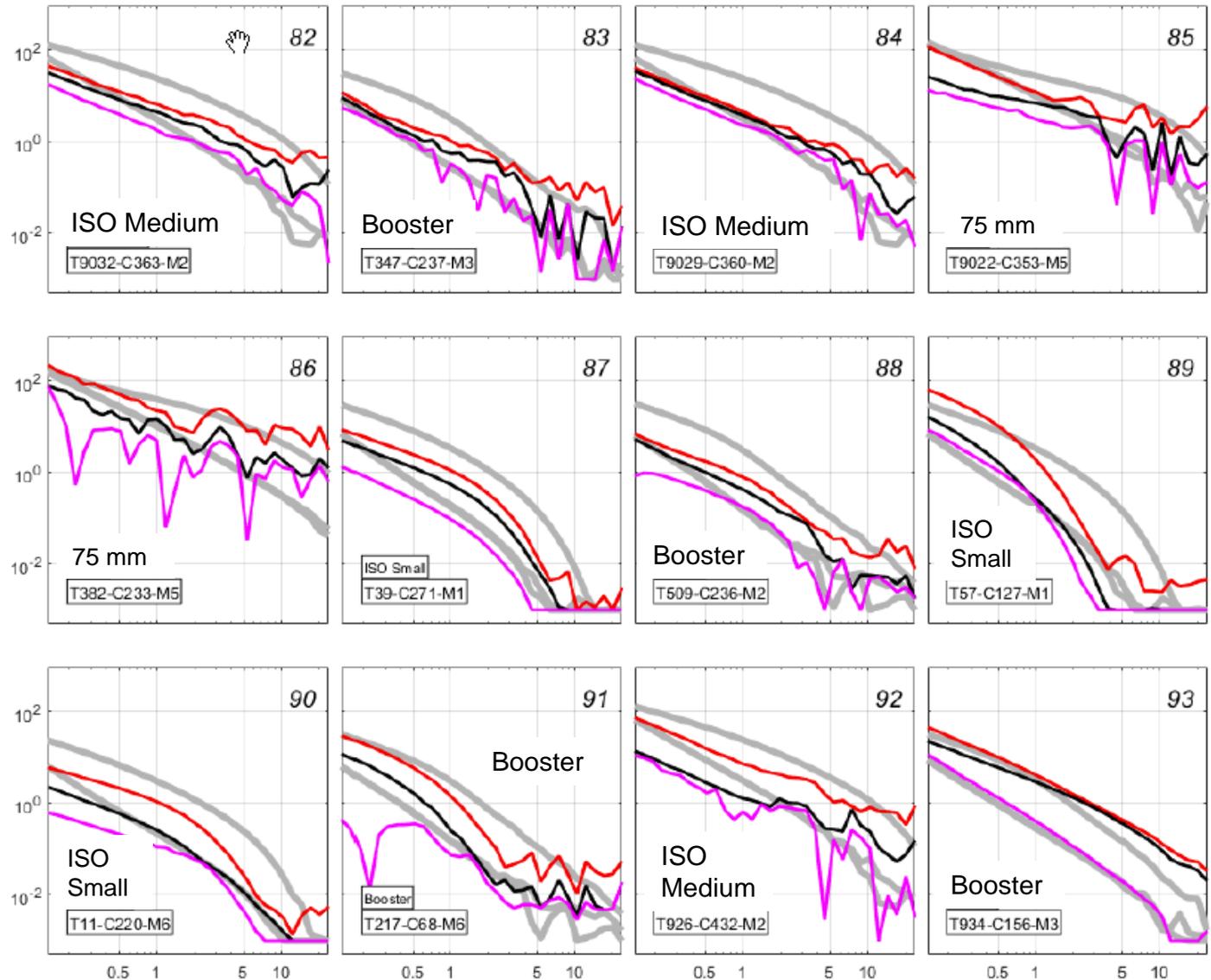


SITE-WIDE REMEDIAL ACTION

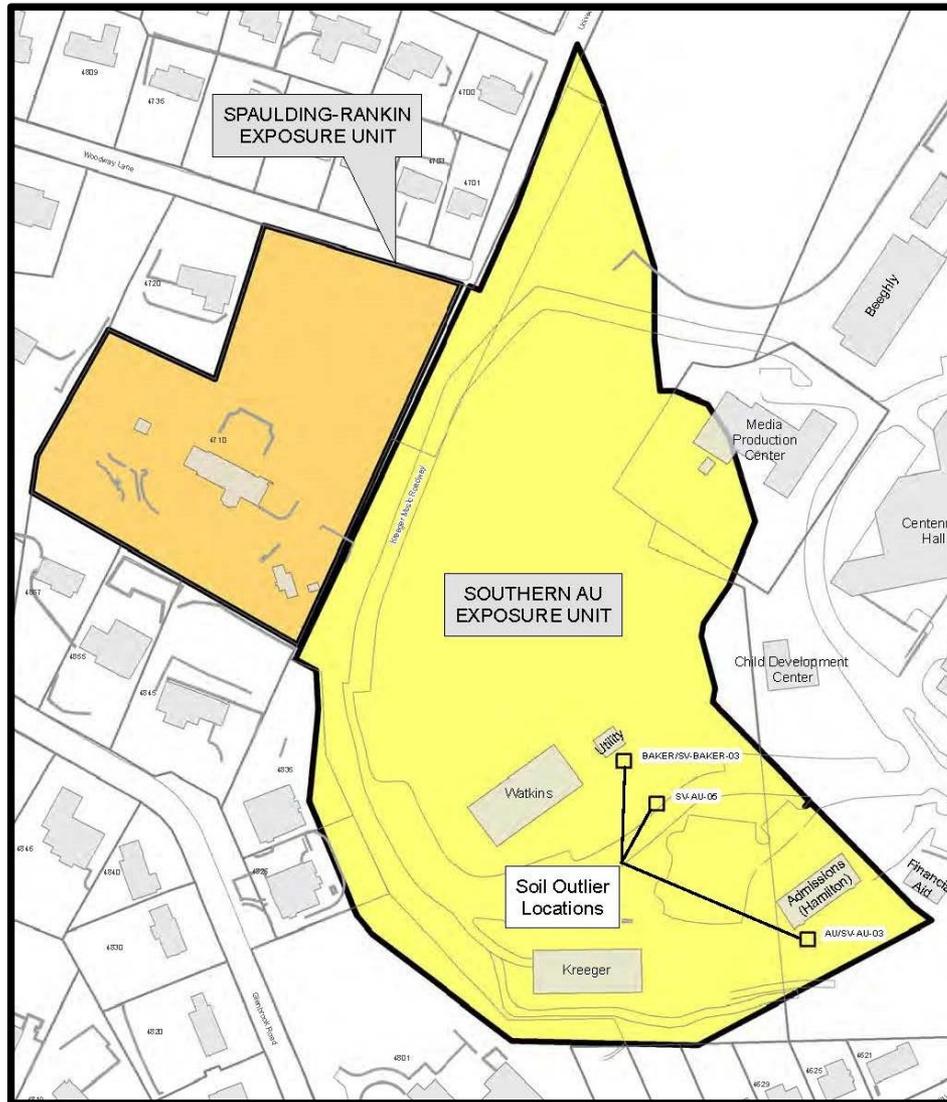
Advanced Geophysical Classification (AGC)

Grid H5
Polarizabilities of
Targets
immediately after
stop dig point

The grey lines
indicate data from
the library, while
the colored lines
are data
responses from
the anomalies in
the ground.



SITE-WIDE REMEDIAL ACTION



Soil Excavation Areas

The hot spot soil removal at one residential property (*Spaulding and Captain Rankin Area, or SCRA*) was completed in November :

- ✓ Completed excavating and backfilling all 6 locations in November.
- Restoration will be completed in the Spring.

The hot spot soil removal at three locations within the southern area of the American University campus will likely begin after the former Public Safety Building excavations are completed.



SITE-WIDE REMEDIAL ACTION

Contaminated Soil Removal Activities at SCRA



The team filled the 6 excavated areas with clean backfill soil, which was compressed for stability. Then, they added about 12 inches of topsoil.



Soil erosion control matting was installed to protect the excavation areas until restoration can continue in the Spring.



US Army Corps
of Engineers.

Remedial Action - Tentative Schedule

Winter 2019	Continue to finalize plant removal plans and approved plant removal; continue geophysical surveys; continue anomaly removal.
Late-Winter / Early-Spring 2019	Finalize and distribute the Munitions Education and Awareness packet (first of future annual spring mailings).
Spring 2019	Begin restoration at Spaulding-Captain Rankin. Continue finalizing plant removal plans with subsequent groups in preparation for geophysical surveys; begin to obtain Rights-of-Entry from the next group of homeowners. Begin soil removal preparations for the southern AU campus exposure unit.

FORMER PUBLIC SAFETY BUILDING

Excavate under the foundation of AU's former Public Safety Building (PSB):

- **The team continues to work with the city to shut off the gas line that passes along the edge of the PSB foundation and cinder block walls.**
 - ✓ Before shutting off the gas line, the team had to provide an alternative source of heat for the Jack Child Building. These heat pumps are now installed and working.
 - ✓ In December, the team began constructing a temporary access road (from Fletcher Gate) and the site set up.
- **The gas line is expected to be shut off in January/early February.**
- **The slab and soil removal work is expected to begin after the gas line is shut off.**



FORMER PUBLIC SAFETY BUILDING



Basement slab of the former PSB



On-site office trailer



Fencing and gravel road construction from Fletcher Gate to the former PSB

Former Public Safety Building - Remedial Action Tentative Schedule

Winter	Complete Shut-off / Rerouting of Gas Utility Line. Remove Concrete Foundation Slab. Excavate Contaminated Soils Underneath Removed Foundation Slab.
Winter/Spring	Take Confirmation Samples.
Winter/Spring	Backfill With Clean Soil. Restoration and Demobilization.



GLENBROOK ROAD

USACE UPDATES



RECENT ACTIVITIES – 4825 GLENBROOK RD

Retaining wall along the shared property line



In mid-November, the team completed filling the drums with the stockpiled soils that had been previously excavated.

By the end of November, the crews began to remove soil and portions of the retaining wall in Area 1, along the 4825/4835 Glenbrook Road shared property line.

The crew also continued to take soil samples as the excavation activities progressed. The samples were sent to the laboratory for analysis.



Taking samples from the excavated soils.



RECENT ACTIVITIES – 4825 GLENBROOK RD

The crew worked on the parallel retaining wall through early December, then began work on the retaining wall that runs perpendicular to the 4825/4835 property line.



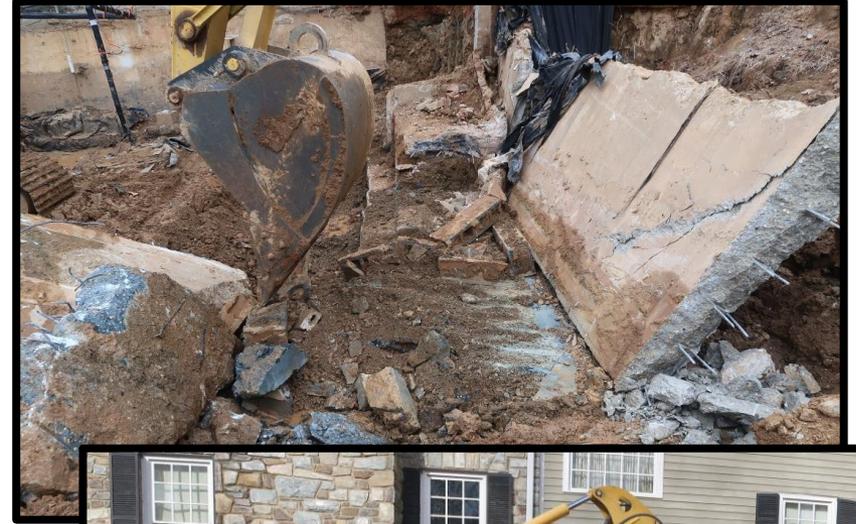
Retaining wall parallel to the shared property line

Retaining wall perpendicular to the shared property line



RECENT ACTIVITIES – 4825 GLENBROOK RD

The crews completed removal of the retaining wall that runs perpendicular to the property line. To date no chemical agent or agent breakdown products have been detected.



Demolition of the perpendicular retaining wall with a jackhammer

RECENT ACTIVITIES – 4825 GLENBROOK

As a reminder, the team completed this work in Level B protective gear.

Mechanical equipment is also being used to excavate the soil and place it into drums. A drum funnel is used to control the soil as is placed into the drums.

The excavation and drum filling will continue to be done in Level B protective gear with our additional weather restriction safety protocols.



Crew working in Level B gear using a mini-excavator to load soil into drums with a drum funnel

RECENT FINDS – 4825 GLENBROOK

On December 11th, our dig team encountered a suspect WWI Livens item behind the perpendicular section of retaining wall near the prior back patio of 4825 Glenbrook Road.

The team took all appropriate steps in their response in both safety and removal.

All air monitor readings were clear. There was no liquid or solid fill detected by the X-ray performed by the Explosives Ordnance Disposal (EOD) team. Tested negative for chemical agent.

The debris item was secured and later transported to the Federal Property and will be disposed offsite with other munitions debris.

The project team met and agreed to resume work at the site the following day.

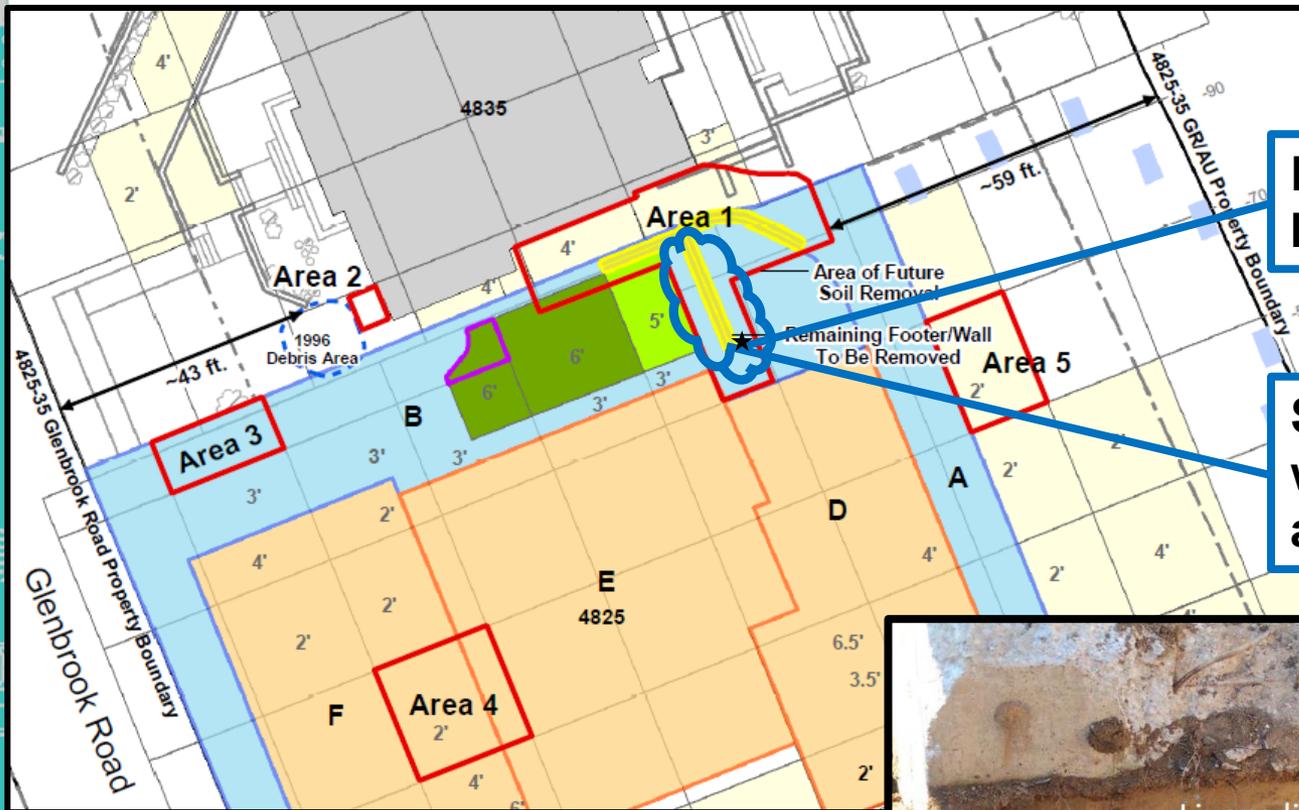


*Livens Item
found on
December 11th*



US Army Corps
of Engineers.

RECENT FINDS – 4825 GLENBROOK



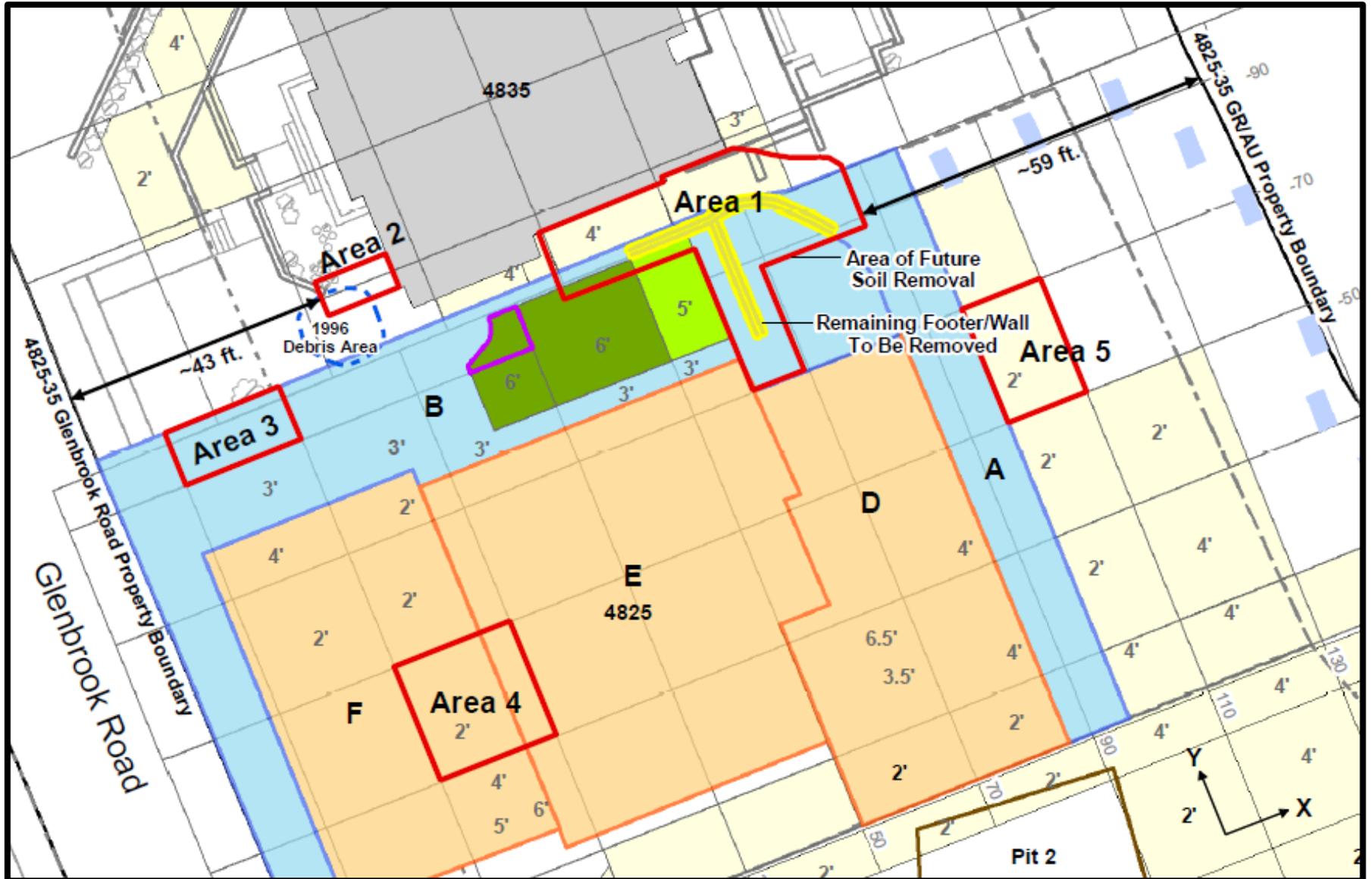
Livens Like Item Found

Section of retaining wall that was being addressed



This picture is looking southwest (i.e. Towards Glenbrook Road)

AREAS TO BE EXCAVATED



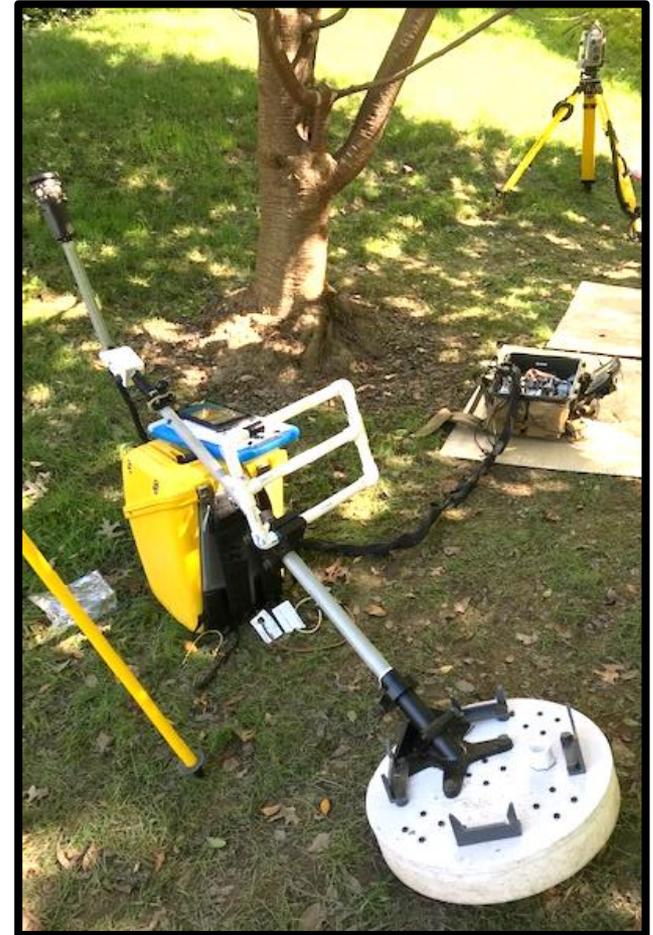
TENTATIVE SCHEDULE: GLENBROOK RD PROJECT AREA

Winter 2019	<p>Continue the soil removal operation along the 4825/4835 Glenbrook Road property line.</p> <p><i>Working hours:</i> Monday - Friday from 6:30 am to 5:00 pm. Heavy equipment operations do not begin until after 7:00 am.</p>
Spring/Summer 2019	<p>Potential completion of remedial activities at 4825 Glenbrook Road.</p> <p>Start of site restoration for Glenbrook Road sites – 4801, 4825, and 4835.</p>



SPRING VALLEY FUDS RESTORATION ADVISORY BOARD

Community Items



SPRING VALLEY FUDS RESTORATION ADVISORY BOARD

Open Discussion:

Reminders:

- The next RAB meeting will be
Tuesday, **March 12th, 2019**

Upcoming Agenda Items:

- Suggestions?



US Army Corps
of Engineers.

SPRING VALLEY FUDS RESTORATION ADVISORY BOARD AGENDA (continued...)

- **Public Comments**
- **Wrap-Up**



**U.S. Army Corps of Engineers
Spring Valley Restoration Advisory Board
St. David's Episcopal Church
Minutes of the January 2019 Meeting**

RESTORATION ADVISORY BOARD MEMBERS PRESENT AT THIS MEETING	
Dan Noble	Military Co-Chair/USACE, Spring Valley MMRP Manager
Jennifer Baine	Community Member
Paul Bermingham	Community Member
Mary Bresnahan	Community Member
Mary Douglas	Community Member
Lawrence Miller	Community Member
Malcolm Pritzker	Community Member
Tom Smith	Community Member
Mary Kathryn Covert Steel	Community Member
Dave Tomlinson	Agency Representative - Department of Energy & Environment
George Vassiliou	Community Member
John Wheeler	Community Member
RESTORATION ADVISORY BOARD MEMBERS NOT PRESENT AT THIS MEETING	
Greg Beumel	Community Co-Chair
Brenda Barber	USACE, Spring Valley Project Manager
Paul Dueffert	Community Member
Steve Hirsh	Agency Representative - Environmental Protection Agency (EPA) Region III
Andrew Huff	American University
William Krebs	Community Member
Lee Monsein	Community Member
ATTENDING PROJECT PERSONNEL	
Alex Zahl	USACE, Spring Valley Technical Manager
Carrie Johnston	Spring Valley Community Outreach Program
Rebecca Yahiel	Spring Valley Community Outreach Program
Whitney Gross	Spring Valley Community Outreach Program

Holly Hostetler	ERT, Inc.
Carlos Lazo	USACE, Government Affairs Liaison
HANDOUTS FROM THE MEETING	
I. Final Agenda for the January 8, 2019 RAB Meeting II. Army Corps of Engineers Presentation III. December 2018 Monthly Project Summary IV. December 2018 Corps' pondent V. Draft Spring Valley Formerly Used Defense Site 'Education and Awareness' Letter VI. Draft Spring Valley Formerly Used Defense Site '3Rs Safety Guide' Brochure	

AGENDA

Starting Time: The January 2019 Restoration Advisory Board (RAB) meeting began at 7:11 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

D. Noble reviewed website updates which included the November and December Site-Wide Monthly Project Updates, weekly 4825 Glenbrook Road updates and photos, updated RAB Member Roster, October Partner meeting minutes, and December 2018 Corps' pondent newsletter.

B. Task Group Updates

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

The USACE Contracting officer outlined two possible options for hiring a new TAPP contractor:

- Option 1: USACE awards several companies Indefinite Delivery/Indefinite Quantity (IDIQ) contracts, usually for a long-term Period of Performance (POP). The quickest way to hire a new TAPP contractor would be to issue a request-for-proposal via Task Order from the companies that are already on-contract. The companies would then submit candidate resumes for review that could be shared with the RAB. The independent status of the TAPP contractor would be lost, since the contractor would be coming from a company that conducts business with USACE. This may represent a conflict of interest to the RAB.
- Option 2: USACE could advertise a new contract through FedBizOpps.gov, screen responding candidates, and present the list of qualified candidates to the RAB for review. This was the method used to hire Peter DeFur. P. DeFur's company only served as the TAPP advisor to the RAB. This option may take more time to complete.

If the first option is selected, it is possible that USACE would have materials to hand out to the RAB for review at the next meeting.

Question from Tom Smith, Community Member - How long would you estimate it would take to do it directly, instead of going through this company?

D. Noble explained that hiring a contractor on a new contract would take 4 to 6 months.

Comment from John Wheeler, Community Member - I think, personally, I get more information from the Department of Energy & Environment (DOEE) and Environmental Protection Agency (EPA) representatives than I do from our TAPP contractor. I see them as more of the guardian of our side of things, than the TAPP contractor. I would like to have them on sooner and still rely considerably upon the EPA and DOEE.

Question from Mary Douglas, Community Member - Can you or can anyone think of decision points that the technical input would be needed within the next few months? Would we have some time?

D. Noble confirmed that there will be decision points coming quickly on groundwater. More data will be collected, and the TAPP contractor could have input on the type and scope of the data collection.

Question from M. Douglas, Community Member - So, we would need him two months from now, and then another two months. Would that data be available before those meetings so we would have to consider something on them?

D. Noble confirmed that the data may be available sooner than the next RAB meeting. If a decision is made on the Groundwater Decision Document (DD) in 2019, it will be near the end of the year. Either option will ensure that a new TAPP contractor will be on board by the end of the calendar year.

Question from M. Douglas, Community Member - I guess I would vote in favor of independence and taking a little bit longer.

Question from Malcolm Pritzker, Community Member - Do you need any input at this present time?

D. Noble explained that no input is needed unless the RAB believes there is a clear choice between the two Options. If there is no guidance regarding the RAB's preferred Option, USACE Baltimore will begin advertising for the new contractor.

Comment from T. Smith, Community Member - I would just agree with M. Douglas. I think the perception piece of this is very important also for neighbors, that we can say to neighbors, 'this person is independent of the Army, that there has been no direct involvement to speak of on an ongoing basis with the Army.' Even though maybe the outcome would be the same in terms of the quality of the advice, I still think the idea has a lot going for it.

Comment from Paul Bermingham, Community Member - I would share that.

2. New Horace Mann Elementary School Representative

M. Pritzker announced that the new representative for the Horace Mann Elementary School (HMES) will be Marguerite Clarkson.

D. Noble expressed USACE's thanks to Alma Gates, long-time representative for HMES. He noted that she was a great voice on the RAB and represented the school very well.

Question from Mary Bresnahan, Community Member - Is there a reason that she left?

D. Noble explained that the principal of HMES explained that a parent at the school was very interested in serving on the RAB and A. Gates had been on the Board for a long time.

Comment from M. Pritzker, Community Member - I would love to see Alma continue onboard, but there is no opening for a community person, and she is not currently a resident of the proper area. That has been explored. I thought she did a really good job.

Comment from M. Douglas, Community Member - I thought so too.

Comment from M. Bresnahan, Community Member - Yeah, she did a fabulous job.

Question from M. K. Covert Steel, Community Member - Is there anything we can do to recognize her service? I know when Peter [Ed. DeFur] was here and he left, I think it was Larry [Ed. Miller, Community Member] who wrote a few remarks and he read them into the record. Is that possible, for us to do something small for Alma as well?

Question from T. Smith, Community Member - Maybe we could do a formal recognition at the next meeting and ask her to come and express directly to her our appreciation, if she is willing to do that. Can you help remind me, is HMES within the Formerly Used Defense Site (FUDS) boundary, is that why they are part of this?

D. Noble confirmed that the HMES is within the FUDS boundary. The school is one of three Institutional Members; American University (AU), HMES, and the vacant Business Institutional Member. It is up to USACE to suggest who the Institutional Members will be, and then the RAB approves the Members.

Question from M. Pritzker, Community Member - But USACE nominates. You would not want to nominate Alma, would you?

D. Noble explained that USACE nominates the institution and then the institution provides the representative.

Question from T. Smith, Community Member - Does the principal then select the person or is it the parent-teacher association (PTA)?

D. Noble confirmed that the principal selects the representative to the RAB.

Question from J. Wheeler, Community Member - What is the name of the new HMES Representative?

M. Pritzker confirmed that the new representative for HMES will be Marguerite Clarkson.

Question from M. Bresnahan, Community Member - I did not realize Wesley Heights was part of the FUDS. And what part of Wesley Heights is part of the FUDS?

D. Noble explained that Wesley Heights is outside the Spring Valley FUDS.

Comment from M. Bresnahan, Community Member - Well then, HMES is in Wesley Heights.

D. Noble explained that the church and HMES are located in a bump-out of the FUDS boundary, land that was controlled by Camp Leach during WWI. The area appears to be a former ball field.

Question from M. Bresnahan, Community Member - Where HMES is?

D. Noble confirmed the area is where HMES and the church are located.

Question from M. Bresnahan, Community Member - So then, is Westover part of the FUDS?

D. Noble explained that Westover is not part of the FUDS. The boundary only includes the two properties; the church and HMES.

Question from T. Smith, Community Member - East Campus. Does that mean East Campus too?

D. Noble explained that the East Campus is not part of the FUDS site.

Question from M. Bresnahan, Community Member - Ok, now this is incredibly confusing. Now, you have got on Newark Street right there, that we are talking about. You have a house right there. Is that part of the FUDS?

D. Noble explained that there are residential properties in that area that are part of the FUDS.

Question from M. Bresnahan, Community Member - Are they aware they are part of the FUDS?

D. Noble confirmed this. The properties in that area have had arsenic testing and clean-up.

Comment from J. Wheeler, Community Member - They have been informed. Whether or not they are aware, that is something else.

Comment from M. Bresnahan, Community Member - The only house on Newark [Ed. Street] as you cross right here where HMES is, it's the only house on that street right here before you hit Nebraska [Ed. Avenue] and to go to Spring Valley [Ed.].

Comment from George Vassiliou, Community Member - It was on the old maps that we were shown, and Newark is on it, and 45th, which is the block sort of around this; a bunch of homes there. I think there were some anomalies there as well. I do not know whether they were dug on 45th.

D. Noble explained that he would need to consult a map to confirm this.

Question from T. Smith, Community Member - Not to belabor this discussion here, but is there beyond a community member, beyond an institutional member, and those that are now currently members, is there any mechanism at all that can be worked that we would be able to continue to have access to Alma's knowledge and experience of years of working on this issue?

D. Noble explained that before A. Gates was the HMES representative, she would sit in the audience at the RAB meetings and attend the Partner meetings as the Advisory Neighborhood Commission (ANC) Representative.

Question from T. Smith, Community Member - There is no liaison function that we could create, even informally, within the RAB?

D. Noble explained that the RAB Bylaws state that the RAB can decide what institutions will be represented and may change the institutions with a 2/3 majority vote. For example, the Business Institution has not been represented for years. If the RAB desired another member, the RAB could suggest a different type of institution. Then it would be up to USACE to search for an entity that represents that institution well and propose that entity to the RAB.

Comment from M. Pritzker, Community Member - I just happen to have the Rules here. 'The Board may be expanded if the majority of Community Members determines that there is a need to do so and USACE concurs.' What I am reading is the Operating Procedures: Spring Valley Restoration Advisory Board. I did not read the whole to see if there is anything else in here.

Comment from M. Bresnahan, Community Member - Great! I vote in favor of our needing her.

Comment from J. Wheeler, Community Member - I do not think that would do it though, because Community Members of the RAB have to live in the community.

Comment from M. Pritzker, Community Member - I was looking down to see if there is anything else here. There are two documents; one is the Operating Procedures and then there is a much more formidable document called Restoration Advisory Board Rule Handbook. I have not had a chance, because I did not know this would come up, to look at that, I really do not know what is in that.

D. Noble explained that in relation to RAB membership and how to build a RAB up, the Department of Defense (DoD) guidance is somewhat general and gives discretion to the Commander that convenes the RAB. The guidance does encourage developing bylaws that more specifically direct how the RAB membership will be generated and maintained.

Question from M. Bresnahan, Community Member - Putting another member on the RAB, even though she does not live in the FUDS, basically what everyone is saying. But her expertise is so valuable to the FUDS and the community members that are here on the committee, because, how long has she been on this committee? Over 10 years?

D. Noble explained that A. Gates joined the RAB as the HMES Representative in 2010-2011.

Question from T. Smith, Community Member - I think she was on as the ANC Chair before that.

Question from J. Wheeler, Community Member - The ANC has a representative on the RAB?

Question from T. Smith, Community Member - I do not know. For some reason or another when she was ANC Chair, or maybe it was that she was going to the Partner meetings.

Question from J. Wheeler, Community Member - I do not remember her coming to these. I started in 2004, I believe. That must have been before she started coming to the meetings, when she became the HMES Representative. Were you not the HMES Representative before?

Comment from G. Vassiliou, Community Member - I was. I actually was before her. My wife volunteered me from HMES and our kids used to go to HMES. Then I was nominated to become a member and HMES did not have anybody step forward to volunteer for the position. We decided to propose her as the person to represent HMES, and that is how she came on.

D. Noble confirmed that he and G. Vassiliou had introduced A. Gates to Principle Liz Whisnant.

Comment from G. Vassiliou, Community Member - Yes, and Liz [Ed. Whisnant] was very okay with it. We had a little bit of a debate [Ed. garbled] but it turned out she is terrific.

Question from M. Pritzker, Community Member - Could we just contact her and ask her as our invited guest to actually come and sit in one of those chairs? And as other people are sitting in the chairs, can contribute and to ask questions and to make comments and we would still have her expertise.

Comment from G. Vassiliou, Community Member - I propose we have USACE ask her what her intentions are, because she might say, 'it has been great, but I am not interested.'

Comment from M. Pritzker, Community Member - My recollection is that I got an email from Alma. I wish I could remember in any great detail, but my impression right now, sitting here, was that she was interested. Would that satisfy everybody?

Question from M. Bresnahan, Community Member - Yes.

Question from T. Smith, Community Member - I think we should try to find some way to continue to have her engaged in this. I think we would benefit a great deal. I think the Spring Valley community benefits, even though she is not a Spring Valley resident.

Comment from G. Vassiliou, Community Member - She is part of the community, for sure.

Comment from M. Bresnahan, Community Member - Yes, there is no question.

Comment from G. Vassiliou, Community Member - Malcolm, if you could spend a few minutes to look at the rules and see if we are clear, like you read that piece.

Comment from M. Pritzker, Community Member - It seems to me as D. Noble said, she did, for a period of time, attend as a non-member of the RAB. If we invited her, I hope, I suspect, maybe that she would accept that.

Question from T. Smith, Community Member - She has accepted a position on the board of one of the community organizations here, Neighbors for a Livable Community, which was the group that was founded by Bob Herzstein years ago.

Comment from M. Pritzker, Community Member - So, with everybody's approval, I hope that we would ask D. Noble to ask her if she would like to fill that role and if she says yes, I suspect we will all be pretty happy about that.

Question from M. Douglas, Community Member - Especially if it were framed as, 'you are valuable and your knowledge is valuable, we would love to see you continue, despite the technicality.'

Question from G. Vassiliou, Community Member - So, should we make a motion to explore this?

Comment from M. Bresnahan, Community Member - Yes, I motion that we explore this.

Comment from T. Smith, Community Member - Second.

M. Pritzker called on the RAB for all in favor of the motion. There were many 'ayes' and none opposed. The motion carried.

Comment from Lawrence Miller, Community Member - I propose we adopt a Resolution of Appreciation as follows: 'The Restoration Advisory Board thanks Alma Gates for her many years of dedicated service and commends her for her diligent attention to RAB proceedings, encyclopedic knowledge of the history of the project, and valuable contributions through the RAB to the interest of the Horace Mann Community.'

Comment from M. Bresnahan, Community Member - That was very good, Larry.

Comment from M. Pritzker, Community Member - The motion is made and passed and she is going to be invited and hopefully she will attend our meetings.

Question from T. Smith, Community Member - Larry, did you ever move that Resolution?

Comment from L. Miller, Community Member - I did.

Comment from T. Smith, Community Member - I will second.

M. Pritzker called on the RAB for all in favor of the Resolution. There were many 'ayes' and none opposed. The motion carried.

II. USACE Program Updates

A. Groundwater Feasibility Study

D. Noble provided a brief summary and status update on the Groundwater Feasibility Study (FS).

1. Government Shutdown

Question from P. Bermingham, Community Member - Perhaps as we go through the progress report, could we get an update on whether the government shutdown is having any impact on any of the players that are involved in the process?

D. Noble confirmed there is a government shutdown in place. The DoD was entirely funded for the fiscal year so no one in DoD is affected by the shutdown.

Question from P. Bermingham, Community Member - Contractors?

D. Noble confirmed that DoD contractors are not affected. Work performed by USACE and DoD contractors will continue unaffected. However, EPA is entirely shutdown and Steve Hirsh, EPA Region III is unable to attend the meetings until the new budget is passed.

Question from T. Smith, Community Member - So that affects the controversy right now with DOEE? Is EPA involved in that dispute?

D. Noble explained that USACE will be discussing collecting more data with DOEE. EPA's voice would have been valuable in that discussion. There is a Partner meeting scheduled next month; if operations resume before that time, S. Hirsh will be able to attend. For FUDS clean-ups, the State and DOEE acting as the State are the lead regulators. DOEE is still active during this shutdown.

Comment from M. K. Covert Steel, Community Member - Just as a follow up to our last meeting, I had asked several questions about groundwater. I wanted to say thank you to [Ed. Rebecca, Spring Valley Community Outreach Program] and Whitney [Ed. Gross, Spring Valley Community Outreach Program] because they followed up next day with responses to all my questions. I really appreciate the very timely response that you have provided. Thank you.

2. Dispute Resolution

After receipt of the Draft Final Groundwater PP, DOEE submitted a formal request for Dispute Resolution under the Department of Defense (DoD)/District Memorandum of Agreement (DDMOA).

In late November, USACE and DOEE met for the Tier 2 level of the Dispute Resolution process. The outcome of that face-to-face meeting with the Tier 2 representatives was that DOEE requested and USACE agreed that before the Groundwater Proposed Plan (PP) was finalized, additional data would be collected from wells known to be contaminated with levels of arsenic (As) or perchlorate above drinking water standards. USACE will also consider additional wells and collection of different types of sample parameters. USACE asked DOEE to prepare a proposal for the additional data collection.

Dave Tomlinson, Agency Representative – DOEE confirmed that internal DOEE discussions are ongoing to present a proposal to USACE.

The Dispute Resolution process is paused at the Tier 2 level for the discussion of potential additional groundwater data collection. If an agreement is reached, the additional data collection will inform the Groundwater PP that USACE will offer for groundwater. If an agreement is not

reached, the Dispute Resolution process will restart and immediately proceed to the Tier 3 level.

3. Tentative Schedule

Winter 2019 - Address Dispute Resolution Request.

Winter 2019 - Finalize Groundwater FS.

Spring 2019 - Groundwater PP, public comment period, public meeting.

Fall 2019 - Groundwater Final Decision Document.

B. Site-Wide Remedial Action (RA)

1. Site-Wide Land Use Control Implementation Plan (LUCIP)

The Site-Wide Land Use Control Implementation Plan (LUCIP) has been finalized. The LUCIP recognizes that there is no way to guarantee that all munitions left behind in WWI will be found. USACE Baltimore will engage with the community and conduct a continuing education program indefinitely until the program is deemed no longer necessary. Mailings will be sent to the community once a year in the spring with information about the boundaries of the FUDS, the potential possibility that a munition could be encountered, and instruction on what to do if a munition is found.

The Department of Defense (DoD) 3Rs (Recognize, Retreat, Report) explosive safety program brochure has been customized for the Spring Valley site to include site-specific background information and photos of munitions found in Spring Valley from the WWI era.

Both the 3Rs brochure and the FUDS information notice will be mailed to every resident within the FUDS boundary once per year. As time goes by, some of the information in the FUDS Information Notice will no longer apply and the document will eventually be reduced to a single page.

The draft mailing documents have been reviewed by DOEE and EPA; no comments were submitted by the regulators. D. Noble invited the RAB to review the two draft mailing documents and submit comments by the next RAB meeting in early March. USACE expects to address any comments and send out the first mailing at the end of March.

Question from P. Bermingham, Community Member - If we have comments, we bring them to the next meeting?

D. Noble confirmed this. Comments may be submitted to Rebecca Yahiel, Spring Valley Community Outreach Program before the next meeting so proposed resolutions to the comments may be prepared. The spring mailing is meant to inform residents as warmer weather outdoor activities resume. USACE can delay the mailing if the RAB would prefer.

Question from M. Douglas, Community Member - I think it was about three years ago that I said, 'some time ago we had a neighborhood notification similar to this, like 1993-1994.' You had somebody kind of comb through the old public notices from USACE and there was, in fact, a request to neighbors to keep an eye out for possible munitions. And then, this was at the time, I said, 'so it does not seem necessary anymore to have that sort of neighborhood warning.' I believe you and others said, 'at this point we have explored the neighborhood so thoroughly we do not think it is necessary.' So, what changed?

D. Noble explained that as the project moved into developing the final Site-Wide DD, the team

considered that USACE would at some point withdraw its presence from the neighborhood. USACE would still have a responsibility for the FUDS site but would not be conducting activities in the neighborhood or holding RAB meetings to remind people about the FUDS site. Part of the Site-Wide DD acknowledges that USACE cannot guarantee that every munition will be removed. USACE must then inform and remind the public that the residual risk of finding munitions is an ongoing possibility in the area and what to do if a munition is found.

Comment from M. Douglas, Community Member - I think they will definitely be reminded when it talks about avoiding the risk of injury or death.

D. Noble confirmed that the 3Rs brochure contains standard DoD language about the potential risk of munitions.

Comment from M. Douglas, Community Member - It got my attention and it is going to get everyone's attention.

Question from L. Miller, Community Member - Have there been munitions found on the AU Park side of Massachusetts Avenue?

D. Noble explained that he believed no munitions have been found on the AU Park side of Massachusetts Avenue.

Question from L. Miller, Community Member - On this side, other than AU itself, is there any property in what would normally be called AU Park that is in the range? I am wondering about sending this to everyone in AU Park without some explanation as to what this map means, in terms of what the range is and where munitions have been found to date. You are going to have a couple thousand people that are worrying about injury and death who may not have any real possibility of encountering WWI munitions. This could be more carefully written in that respect if it is going to go to AU Park.

D. Noble confirmed that when the mailing goes out to ~1,200 private homes each year, the information notice will be news to some of the residents. Contact information is included for those residents that have questions or concerns. USACE is ready to field those calls.

Comment from L. Miller, Community Member - Absolutely agree. The slide says, 'the informational notice and brochure will be sent to all property owners in neighborhoods such as Spring Valley and AU Park.' My thought is, if it is going to the AU Park neighborhood, some of the wording might need to be changed to make it clear where munitions have been found in the past and where you have to be careful.

D. Noble explained that the main area of concern is drawn into the middle of the 3Rs brochure map. Over the years, the project team has found munitions that other people have found first and then moved to unexpected places. There is no way to determine zones by street because people have moved the munitions.

Comment from L. Miller, Community Member - You could not do it by streets. It would be areas, not streets. Ok, just raising a point.

D. Noble explained that over the years there have been instances of what is termed 'Amnesty Rounds,' munitions that people have found, picked up, moved, and left in an obvious place for someone to find, instead of contacting 911. Sometimes the munitions have been anonymously brought directly to USACE. Munitions have been left at the USACE gate at the Federal Property; one was left out on the sidewalk on Nebraska Avenue alongside the AU Campus. Finding a

munition can happen anywhere.

Comment from M. Douglas, Community Member - I was under the distinct impression things were found in AU Park and that where they expanded the border of the FUDS in AU Park, where they found some things.

Question from J. Wheeler, Community Member - It was arsenic, based on a map.

D. Noble confirmed that the expansion of the border of the FUDS was based on a map.

Question from M. Douglas, Community Member - They did not find anything around the reservoir, that part of it is on Van Ness Street?

D. Noble explained that elevated arsenic was found in that area but no military items.

Comment from J. Wheeler, Community Member - I believe the block with the most properties that had action levels of arsenic on it was the 4300 block of Warren Street. So, between where Larry [Ed. Miller] and I live. That also happens to be where a man that had a landscape company lived. Back then, one of the common ingredients in herbicide was arsenic. He probably was doing those people's [Ed. sentence unfinished]. There is no reason to think that [Ed. sentence unfinished]. Well, I used to be in the Army. When we wanted to dispose of waste, we would not take it uphill.

Question from P. Bermingham, Community Member - Back on the theme of the impact that this will have on the city. First of all, I think it is a good idea to send it out, including the flyer. But there is a statement there that, 'there are no known munitions hazards on any particular property.' Then we go on to say later on that we are cleaning up 91 of them. My question, therefore, is, what are we cleaning up, if not hazards of some kind? What I am just wondering is, are we going to give rise to questions rather than answers or comfort? Is there an inconsistency?

D. Noble explained that the mailing is sent as an attempt to educate and reassure people, not because USACE knows of a hazard on any particular property. If USACE knows of a munition on any property, USACE will remove the munition immediately. For example, USACE is conducting action to remove a known hazard at 4825 Glenbrook Road.

Question from P. Bermingham, Community Member - But you are saying there is no known hazard.

D. Noble confirmed this. There are no known hazards, but USACE has concerns about certain areas of the neighborhood based on the Site-Wide RI investigation. USACE will investigate the neighborhood as closely as possible, but there are no known hazards in these areas at this time. Hazards may be discovered during the investigation.

Comment from J. Wheeler, Community Member - Glenbrook Road was not a known hazard at one time.

D. Noble confirmed this.

Question from P. Bermingham, Community Member - But we are saying that there are no known hazards now.

Question from Jennifer Baine, Community Member - On a particular property, but there is a known hazard on a particular property, right? Is that what you are saying?

Question from P. Bermingham, Community Member - Glenbrook is a particular property, there is a hazard on it. Is that consistent, therefore, with the statement?

D. Noble agreed with the point and noted that when operations at Glenbrook Road are complete in ~two (2) to three (3) months, the statement will be true.

M. Pritzker reminded the RAB that D. Noble suggested that the RAB read the documents carefully and submit comments on or before the next RAB meeting.

2. 91 Residential Properties and 13 Federal/City Lots

Alex Zahl, USACE, Spring Valley Technical Manager briefly reviewed the Site-Wide Remedial Design (RD)/Remedial Action (RA).

- Right-of-Entries received from 33 residential properties.
- 33 civil surveys and 29 arborist surveys have been completed.
- Geophysical clearing walkthroughs completed at 26 properties.
- Vegetation removed from nine (9) private properties and seven (7) Federal/City lots.
- Geophysical surveys completed at five (5) private properties and four (4) Federal/City lots off Dalecarlia Parkway.
- Initial anomaly removal at four (4) Federal/City lots off Dalecarlia Parkway.

There are often fences on the properties to be investigated. Wooden and plastic fences do not interfere with the signal from the geomagnetic equipment and may be left in place. Metal fences, (including) chain link fences create signal interference for the geomagnetic equipment. If the fence is large and prevents a significant part of a property from being investigated, the fence will be temporarily removed. Fence removal is conducted only with homeowner approval. Some properties needed a fence in place to keep animals on the property, so the team temporarily replaced the metal fence with plastic construction fencing.

The man-portable vector (MPV) sends an electromagnetic signal into the ground to search for metal objects during the dynamic survey. If an object has the correct characteristics, the object will be added to the cued survey for further analysis.

During the cued survey, the equipment can produce a 3-dimensional view of the item in the ground. Based on a magnetic impulse, the electromagnetic signal can determine shape, wall thickness, and depth of the item. If the item is tubular and appears to be a munition, the Advance Geophysical Classification (AGC) library can identify the type and size of the munition.

Once the targets have been determined for excavation, the survey locations are noted within a few centimeters. The objects are hand-excavated by unexploded ordnance (UXO) experts; the team does not anticipate the need for mechanical excavation.

The team found 13 non-munition items in Dalecarlia Woods that when excavated were revealed to be railroad spikes.

Question from M. Douglas, Community Member - Why?

A. Zahl explained that USACE is looking in to why railroad spikes were found in the Dalecarlia Woods.

Question from M. K. Covert Steel, Community Member - Did you not say before that there were some civil war objects at the Dalecarlia site in addition to WWI?

A. Zahl confirmed this. USACE has not yet identified a railroad line that ran through the area, but there may have been a temporary railroad line used during the construction of the Washington Aqueduct. The recovered spikes are relatively small and may indicate a small-gauge or temporary

railroad line.

Blind seeds are buried on every property to confirm the equipment is working properly. A team buries several industry standard objects (ISOs) that resemble different munitions items on the property and then survey the blind seed locations. A second team must find the blind seeds without knowing the locations of the blind seeds. Additionally, USACE buries a second set of blind seeds with undisclosed locations as a double-blind test.

All ISOs were recovered on the first four (4) Federal/City lots. Most excavated items are considered Cultural Debris, or metallic trash. The AGC did not identify any munition items except for the blind seeds. Other items were excavated to confirm the AGC results.

The MPV performs electromagnetic Induction (EMI) by pulsing a signal into the ground with a series of transmitters. The signal shuts off and collects the EMI response from metallic objects over the course of 10 microseconds. The signal decays over that time. If the item has a thick wall, the signal will not decay as quickly. Larger objects have a higher amplitude. The MPV records the amplitude of the length, width, and depth of items to identify the items by type.

Slide 16 of the presentation shows a map of Grid H5 in Dalecarlia Woods, with an area of ~20ft x 60ft. The large stripe through the middle of the grid indicates a water pipeline. The plus symbols indicate 667 metallic objects identified by the Dynamic Survey. The Cued Survey results were 81 anomaly excavations, seven (7) verification excavations, and three (3) validation excavations for a total of 91 excavations. All blind seeds were properly identified, no munition-related items were found.

Slides 17 and 18 of the presentation show the data responses from the AGC library compared to the buried ISOs and other anomalies. The grey lines represent the data from the library and the colored lines indicate the anomalies in the ground. The data response from the ISOs on slide 17 match very closely to the data response for munitions in the AGC library.

Result #93 appears to match the data library response closely, but the result is the exact opposite of a munition data response. The two curved lines on top and one curved line on the bottom indicate the wrong shape for a munition. The shape of the anomaly indicated by those lines would be flat, such as a pie tin.

Question from Audience Member 1 - How do you decide if you need to remove bushes or trees in order to do an accurate classification?

A. Zahl explained that the decision to remove vegetation is based on the available area of a property, detailed in the Site-Wide DD. Houses are not accessible, driveways are accessible if the equipment can scan through the driveways. The equipment cannot scan through a driveway reinforced with rebar. The amount of accessible area is determined when the civil survey is performed. If the homeowner has a prize rose bush that may not be disturbed, the rest of the area of the property will be calculated to achieve the required amount of coverage. Trees [Ed. Trunks] 6" in diameter or larger will not be removed. The geophysical equipment can maneuver around the large trees. Plants such as boxwood, pachysandra, groundcover, and perennials will be replaced. The EPA and DOEE must approve the amount of coverage for each property. If the coverage is approved, the homeowner will be issued a comfort letter of completion. If a homeowner is adamant about keeping a large amount of the vegetation intact and the amount of accessible area does not meet the requirements of the Site-Wide DD, the comfort letter may not be issued.

Question from M. Douglas, Community Member - Have you had that happen?

A. Zahl explained that there have been negotiations. The team is working with homeowners that have expressed interest in being prioritized. The properties so far have had accessible areas above the required coverage.

Question from P. Bermingham, Community Member - So, you got ROEs from 33 so far?

A. Zahl confirmed this.

Question from P. Bermingham, Community Member - Then were you refused to grant ROEs?

A. Zahl explained that ROEs have not been refused yet. He reiterated that the first group of properties are homeowners that wanted to be prioritized.

Question from M. Bresnahan, Community Member - You know, I initially thought when I saw 33 of 91, I thought only 33 were letting you in. So, I am glad you asked that question.

A. Zahl explained that there is a backlog of properties to be addressed. The team is still conducting geophysical investigation, but the rainy winter has interfered with the schedule. Excavations at private properties are expected to begin at the end of January.

R. Yahiel added that the Outreach Team discusses removal of plants with the homeowners. Trees over 6" in diameter will not be removed, but if the branches and leaves cause an interference to the line of sight between the instrument and the tripod, it interferes with determining the exact location of potentially hazardous anomalies.

Question from M. Bresnahan, Community Member - Is that why the boxwood has to go?

R. Yahiel explained that branches for large trees are often propped up out of the way or trimmed. For other coverage on the property, some plants such as boxwoods and laurels are woodier, making the plants difficult to step over or maneuver around. Moving those plants out of the way provides better coverage for the equipment. Part of the restoration process is to replant or replace the removed vegetation. The homeowners have been very cooperative throughout the process.

Comment from M. K. Covert Steel, Community Member - What I have heard is that you have made it very easy for them, like you have told them when you are coming, you have told them if the rain happens and you have to reschedule. I think it has been a positive interaction with the people you have done it with already.

R. Yahiel confirmed that the Outreach Team strives to let the homeowners know every step of the way, providing as much advance notice as possible whenever the team will be visiting a property.

Question from M. Douglas, Community Member - ISO?

A. Zahl explained that ISO stands for Industrial Standard Object. An item that resembles a munition from the AGC library.

Question from M. Douglas, Community Member - So, some of these are often Industrial Standard Objects?

A. Zahl confirmed this and noted that the middle photo on the bottom of slide 14 of the presentation shows examples of ISOs. ISOs are available at home improvement stores but must have certain specifications for use as blind seeds, such as size and wall thickness.

Question from G. Vassiliou, Community Member - Like a can or something like that?

A. Zahl and R. Yahiel explained that ISOs are steel pipes. The ISOs are shiny when new but become rusty and dirty while buried for up to 1 month and a half before excavation.

3. Hotspot Removal of Contaminated Soil

D. Nobel, USACE, continued

Hotspot removal of cobalt contaminated soil at one residential property (Spaulding and Captain Rankin Area or SCRA) was completed in November:

- Completed excavating and backfilling all six locations in November.
- Restoration will be completed in the spring.

The hotspot soil removal at three locations within the southern area of the AU campus will likely begin after the former Public Safety Building excavations are completed.

4. Remedial Action Tentative Schedule

- Winter 2019: Continue to finalize plant removal plans and approved plant removal; continue geophysical surveys; continue anomaly removal.
- Late Winter/Early Spring 2019: Finalize and distribute the Munitions Education and Awareness packet (first of future annual spring mailings).
- Spring 2019:- Begin restoration at SCRA. Continue finalizing plant removal plans with subsequent groups in preparation for geophysical surveys; begin to obtain Right-of-Entries from the next group of homeowners. Begin restoration of properties for the first group of homeowners. Begin soil removal preparations for the southern AU campus exposure unit.

5. Former Public Safety Building (PSB)

AU removed the former PSB but left the foundation in place. An investigation will be conducted under the foundation because the Lot 18 debris field is suspected to have been under the foundation. Due to delays in the shut-off of an active gas line that runs through the middle of the site, excavation is delayed until the gas line is verified inactive. Removal of three surrounding trees and the foundation slab will likely begin in January.

Question from P. Bermingham, Community Member - Will the cutting of the gas line affect any of the neighboring properties or will it only be this property?

D. Noble explained that the gas line only served the former PSB and the Jack Child building. USACE arranged for alternate service at the Jack Child building. No other properties will be affected.

6. Former PSB – Remedial Action Tentative Schedule

- Winter - Complete shut-off/rerouting of gas utility line. Remove concrete foundation slab. Excavate contaminated soils underneath removed foundation slab.
- Winter/Spring - Collect confirmation samples.
- Winter/Spring - Backfill with clean soil. Restoration and demobilization.

C. Glenbrook Road

D. Noble provided a brief update on 4825 Glenbrook Road and 4835 Glenbrook Road.

1. Recent Activities - 4825 Glenbrook Road

Work has resumed along the shared property line and retaining wall parallel to the property line to

remove soils contaminated with chemical agent. All backfill that was placed on the site for mitigation purposes during the investigation period has been removed. The contaminated soil to be removed was covered with black fabric before the holiday break. Soil samples are collected as excavation continues.

The crew worked on the parallel retaining wall through early December, then began work on the retaining wall that runs perpendicular to the shared property line. The remaining structures from the 4825 Glenbrook Road house are a piece of the parallel retaining wall that runs along the shared property line and the retaining wall that extends perpendicular to the shared property line into the 4825 Glenbrook Road property. Removal of the retaining wall perpendicular to the property was completed.

Question from P. Bermingham, Community Member - What was the result of the laboratory test at 4825 Glenbrook Road? You had some soil samples at the laboratory. Did you have anything negative come out of those tests?

D. Noble explained that since going back to work the team has been collecting soil samples expecting to find detections for chemical agent or chemical agent breakdown products (ABPs). No chemical agent or ABPs have been detected. The team continues to drum the soil as if the soil were contaminated and shipping the drums for incineration.

Alterations to the workplan for Return-to-Work include:

- Workers in Level B personal protective equipment (PPE).
- Mechanically drumming the soil directly into containers and sealing the containers instead of stockpiling the soil. A funnel is placed on each of the empty drums as the drum is filled directly from the excavator. A worker stands next to the funnel and observes as the soil falls from the excavator into the funnel to watch for possible American University Experiment Station (AUES)-related debris.

Question from M. K. Covert Steel, Community Member - Is the funnel attached to the excavator? How does it stay in place?

D. Noble explained that the funnel stays on top of the drum by gravity. The bucket of the excavator moves over the drum and shakes the soil out slowly.

2. Recent find at 4825 Glenbrook Road

On December 11 the team encountered a suspect WWI Livens intact munition item behind the perpendicular section of the retaining wall on the AU side of the wall. The team paused work, hand-cleared the soil around the item, and made the call to the Explosives Ordnance Disposal (EOD) team. The EOD team x-rayed the item in place and determined there was no liquid or solid fill in the item and determined that the burster well was empty. The item was then removed to the Federal Property. The item was headspace analyzed on December 12. The results were negative, so the item is considered metal munitions scrap and will be disposed at the end of the project. During the detailed analysis a hole was found in the item, indicating that the wall of the item was breached, ensuring the item was empty.

Question from Allen Hengst, Audience Member - Can you estimate how deep it was below ground surface?

D. Noble explained that the item was found ~ seven (7) to eight (8) feet deep on the backside of the footer of the wall. When the builder filled in the soil after forming the concrete wall, the soil

was likely sourced from the original location of the Livens item on another part of the property.

3. Areas to be Excavated at 4825 Glenbrook Road

- Area 1 - Primary area of excavation. Most of the remaining soils to be removed are located along the shared property line. A small section of retaining wall to be removed.
- Area 2 - Front corner of 4835 Glenbrook Road. A small amount of glassware debris was found in this area.
- Area 3 - Excavated previously and confirmation samples failed. In compliance with the work plans, another two (2) ft. of soil will be excavated. Confirmation samples will be collected again. If the samples pass, the area will be completed.
- Area 4 - Small area in the front yard and location of one of the arsenic grids where an odor was encountered.
- Area 5 - Slightly outside of the work zone; exposed soil face with stairs down into the site. Excavation will be performed to ensure the area is clear.

4. Tentative schedule

- Winter 2019 - Continue the soil removal operation along the 4825/4835 Glenbrook Road property line. The hours of operation are Monday through Friday from 6:30 AM to 5:00 PM. Heavy equipment operations do not begin until after 7:00 AM.
- Spring/Summer 2019 - Potential completion of remedial activities at 4825 Glenbrook Road. Start of site restoration for Glenbrook Road sites - 4801, 4825, and 4835.

Question from M. Douglas, Community Member - When you say you will then restore the property, what will happen to it? Will it be restricted for future building?

D. Noble explained that the property will be released for unrestricted use. The project is being excavated to bedrock to ensure all contaminated soils have been removed. The restoration will establish a suitable soil profile that fits the surrounding properties, plant grass, and return the property to the property owner.

Question from G. Vassiliou, Community Member - What happened to the drilling that you were going to do in the basement of the other building through the slab and the sampling of that?

D. Noble confirmed that the results of the soil gas were previously reported. The remaining issue at 4835 Glenbrook Road is the detection of trace amounts of ABP in the soil gas under the slab. Soil samples under the slab tested clean. The soil gas detections may be coming from the contaminated soils on 4825 Glenbrook Road. Currently, USACE Baltimore does not plan to conduct additional sampling until the removal of contaminated soils on 4825 Glenbrook Road is complete.

Question from M. K. Covert Steel, Community Member - Remind me, 4835 [Ed. Glenbrook Road] is owned by American [Ed. University] and 4825 [Ed. Glenbrook Road] is owned by the developer?

D. Noble confirmed that both properties are owned by AU.

III. Community Items

IV. Open Discussion and Future RAB Agenda Development

A. Upcoming Meeting Topics

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

B. Next RAB Meeting:

Tuesday, March 12, 2019

C. Open Discussion

V. Public Comments

VI. Adjourn

The meeting was adjourned at 8:43 PM.