



SPRING VALLEY FORMERLY USED DEFENSE SITE PROJECT RAB Meeting

September 10, 2013
7:30 – 8:30 p.m.

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

Agenda

[6:00 p.m. *Scheduled RAB tour*]

7:30 p.m. I. **Administrative Items*

Co-Chair Updates

- Introductions, Announcements

Task Group Updates

7:35 p.m. II. **USACE Program Updates**

Glenbrook Road

Groundwater Study

Community Relations Plan Update

8:10 p.m. III. **Community Items**

8:15 p.m. IV. **Open Discussion & Future RAB Agenda Development**

Upcoming Meeting Topics:

- (Suggestions?)
- JHU Follow-On Health Study and Survey (November)
- Groundwater Study: April 2013 Sampling Results (November)
- Report on Pre-2005 Human Health Risk Assessment Review (ERT)
- Community Relations Plan Update
- 4825 Glenbrook Road Health Consultation Update (ATSDR)

Next meeting: November 12, 2013

8:20 p.m. V. **Public Comments**

8:30 p.m. VI. **Adjourn**

**Note: Meeting start delayed to 7:30p.m. due to RAB tour.*

Spring Valley

Formerly Used Defense Site

Restoration Advisory Board Meeting

September 10, 2013

“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.”



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US Army Corps of Engineers
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Agenda Review

❖ Co-Chair Updates

- Introductions, Announcements

❖ USACE Updates

- Glenbrook Road
- Groundwater
- Community Relations Plan

❖ Community Items

❖ Open Discussion & Agenda Development

❖ Public Comments



Co-Chair Updates

Introductions



Co-Chair Updates

❖ Announcements



➤ Website Updates:

- Monthly Site-wide Project Update
- Weekly 4825 Glenbrook Rd Project Updates with photos
- July Partnering meeting minutes
- Spring Valley Project Timeline (August 2013 Version)
- August Corps' pondent
- [Coming up: September Corps' pondent website issue]



Task Group Updates



4825 Glenbrook Road

Update

[Tour video: <http://youtu.be/yVws5UnBuZw>]



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The Engineering Control Structure (ECS) construction is complete.

4825 Glenbrook Road Site Preparation



The installation of the sound suppression system was completed in mid-July.



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4825 Glenbrook Road Site Preparation



The site crew completed the installation of the ductwork connecting the ECS tent to the CAFS.



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MiniCAMS



Re-dress tent



**The installations
of the
miniCAMS,
vestibule, and
re-dress tent
were completed.**



Vestibule



High probability crews prepared for high probability operations in safety briefings and running test scenarios in their personal protective equipment.



The team was assessed by the Huntsville District to test their readiness to begin the high probability work.



4825 Glenbrook Road

Shelter-in-Place during High Probability



The emergency sirens and strobe lights for the Shelter-in-Place alert system have been installed on site.

USACE successfully performed the first of a series of monthly tests on September 4th. The monthly siren tests will take place on the first Wednesday of every month at 4:05 p.m.



4825 Glenbrook Road

Communication during High Probability

Weekly updates: USACE will continue with the weekly updates via email and the website. These updates will include general information on weekly site progress and include information about recovered items and photos.

A special e-mail will be sent, as soon as possible, to the established stakeholder list and posted to the website:

- If USACE recovers an item that is not anticipated (such as an intact munition, a large intact container of liquid, or an unexpected chemical), once that unexpected item is stored at the federal property.
- During any major sustained site shutdown which could be caused by extreme weather or major equipment failure.



4825 Glenbrook Road

Schedule Update

✓ December 2012 through May 2013

Site Preparation/ Initial Low Probability Work

- Test pits in backyard and re-locating utilities
- Install soldier piles to support embankments

→ May 2013 through September 2013

ECS Set Up, High Probability training, and Pre-Operational Exercises

September 2013 through September 2014

High Probability Excavation

October 2014 through November 2014

Final Low Probability Excavation

December 2014

Site Restoration



4825 Glenbrook Road



Major Milestones:

- Monday, August 12, 2013 we began on-site training.
- On August 28 and August 29, 2013 the Huntsville Survey.
- September 9 through September 13, 2013 the Department of Army Pre-Operations Survey.
- Monday, September 23, 2013 is the planned date to begin High Probability operations.



Potentially Responsible Party (PRP) Investigation Underway

The U. S. Army Corps of Engineers continues with the investigation regarding the post-AUES development of certain properties, focusing on 4825 Glenbrook Rd., 4835 Glenbrook Rd., and the Public Safety Building at 4400 Massachusetts Avenue.

- The Corps is seeking information regarding the development of these properties, and encourages those who have information about this matter to contact the PRP investigation contractor:

Watermark, Inc. [**Toll free number: (866) 383-7327**].

- **Jon Owens**, Assistant District Counsel for USACE Baltimore:
(410) 962-3385



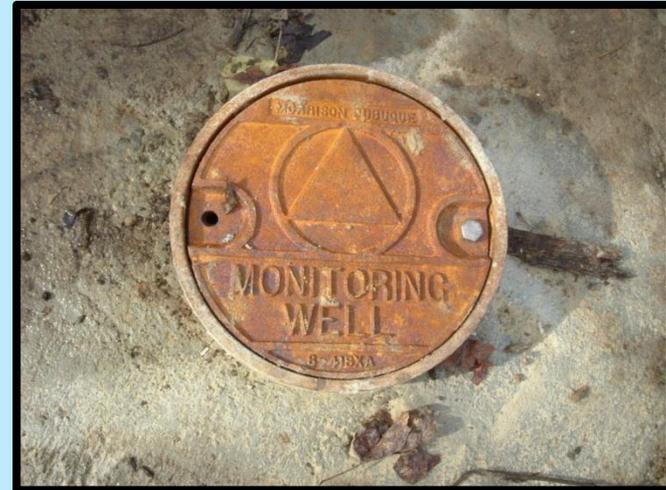
Groundwater



Update

Groundwater

USACE field team is preparing for the Fall 2013 sampling event at 20 well locations and 10 surface water locations.



Groundwater



Additionally, the two new wells are scheduled to be installed this fall.



Community Relations Plan



Community Relations Plan Update

The Spring Valley Community Relations Plan is the blueprint of how USACE communicates with the Spring Valley stakeholders. It ensures that USACE communicates clearly and with transparency at all times.



Currently, the Spring Valley Community Outreach team is updating the plan with information from community interviews. These interviews provide feedback from the community on the USACE outreach efforts to date, and how we can best engage and provide information to the Spring Valley stakeholders .



Community Relations Plan Update

These stakeholder interviews started in August. Stakeholders who are represented with these interviews include:

- ✓ Homeowners who have had arsenic sampling, geophysical surveys, and arsenic and/or anomaly clearance performed on their property, as well as those who have groundwater sampling wells, or surface water locations, on or near their homes,
- ✓ Current and past RAB members,
- ✓ Local elected officials,
- ✓ Spring Valley realtors,
- ✓ And other local interested parties.



The RAB will be briefed when the document is complete.



Spring Valley FUDS Restoration Advisory Board

Community Items



Spring Valley FUDS Restoration Advisory Board

REMINDER: The next RAB meeting, on **November 12**, is the last meeting of the year.

Upcoming Agenda Items

- Suggestions?



- JHU Follow-On Health Study and Survey (November)
- Groundwater Study: April 2013 Sampling Results – (November)
- Report of Pre-2005 Risk Assessment Review (ERT) - TBD
- Community Relations Plan Update – TBD
- 4825 Glenbrook Road Health Consultation Update (ATSDR) – Public draft for review tentatively by May 2014.



Spring Valley FUDS Restoration Advisory Board

- **Public Comments**

- **Wrap-Up**



**U.S. Army Corps of Engineers
Spring Valley Joint Restoration Advisory Board Meeting
St. David's Episcopal Church
Minutes of the September 10, 2013 RAB Meeting**

RESTORATION ADVISORY BOARD MEMBERS PRESENT AT THIS MEETING	
Dan Noble	Military Co-Chair/USACE, Spring Valley MMRP Manager
Greg Beumel	Community Co-Chair
Ralph Cantral	Community Member
Kathleen Connell	Community Member
Mary Douglas	Community Member
Lawrence Miller	Community Member
Lee Monsein	Community Member
Malcolm Pritzker	Community Member
Tom Smith	Community Member
George Vassiliou	Community Member
John Wheeler	Community Member
Linda Argo	At Large Representative – American University
Dr. Peter deFur (represented by Laura Williams)	Environmental Stewardship Concepts/RAB TAPP Consultant
Alma Gates	At Large Representative – Horace Mann Elementary School
Steve Hirsh	Agency Representative – US Environmental Protection Agency Region III
James Sweeney	Agency Representative – District Department of the Environment
RESTORATION ADVISORY BOARD MEMBERS NOT PRESENT AT THIS MEETING	
Mary Bresnahan	Community Member
Paul Dueffert	Community Member
William Krebs	Community Member
ATTENDING PROJECT PERSONNEL	
Brenda Barber	USACE, Spring Valley Project Manager
Lan Reeser	USACE, Technical Manager
Clem Gaines	USACE, Public Affairs
Carrie Johnston	Spring Valley Community Outreach Program Manager

Rebecca Yahiel	Spring Valley Community Outreach Program
Jessica Bruland	ERT
HANDOUTS FROM THE MEETING	
I. Final Agenda for the September 10, 2013 RAB Meeting	
II. Army Corps of Engineers Presentation	

AGENDA

Starting Time: The September 10, 2013 RAB meeting began at approximately 7:30 PM.

I. Administrative Items

A. Co-Chair Updates

Greg Beumel, Community Co-Chair, opened the meeting. He turned the meeting over to Dan Noble.

Dan Noble, Spring Valley Project Manager and Military Co-Chair, welcomed the group. He reviewed the evening's agenda. He mentioned that most RAB members just arrived from a site tour of the 4825 Glenbrook Road site, which focused on the site conditions prior to the start of high-probability excavation, at a time when all engineering controls are in place and fully functional. A similar virtual site tour was prepared for the benefit of RAB members who were unable to attend, and for interested audience members. (The contents of this video were shared later during the meeting and are available on the Spring Valley website.)

B. Introduce Guests

Officer McCray of the District of Columbia Metropolitan Police Department (MPD) 2nd District briefly attended the meeting. Officer McElwee was unable to attend. No questions were asked regarding the 2nd District's role in current Spring Valley operations.

D. Noble mentioned that USACE will continue to stay in contact and coordinate closely with MPDC as the start date for high-probability excavation approaches. Community Outreach added that they participated in a briefing with MPDC in August 2013.

C. General Announcements

D. Noble announced that recent website updates include the July 2013 Partnering minutes and the most recent (August 2013) version of the Site-Wide Spring Valley FUDS Timeline from 1993 through 2013. Additionally, recent website updates include the monthly site-wide project update, along with the weekly remediation progress updates for the 4825 Glenbrook Road site, and associated photographs as appropriate.

D. Noble mentioned that the August Corps'pondent was delivered in early September 2013 due to technical difficulties at the printer and the shipper.

D. Noble noted that an electronic version of the September 2013 Corps'pondent will focus on the 4825 Glenbrook Road site. This website issue will be posted on the Spring Valley project website on the start date for high-probability excavation.

D. Task Group Updates

No task group updates were presented.

II. USACE Updates

B. Barber, Spring Valley Project Manager, provided a brief status update on the current low-probability schedule, tentative high-probability schedule, and progress to date for 4825 Glenbrook Road.

D. Noble, Spring Valley Project Manager and Military Co-Chair, provided brief status updates on the groundwater investigation and the Community Relations Plan (CRP).

A. Military Munitions Response Program

4825 Glenbrook Road

Virtual Site Tour

A video site tour presented the basic historical background and remedial cleanup components including restoration. This video will be posted on the Spring Valley project website and accessible to the public.

Comment from Kathleen Connell, RAB Member – I would like to thank Brenda and the project team for what I think was a remarkable site tour. I think all who attended would agree that an extensive, elaborate, and redundant security system has been established. This system is extraordinarily protective under the worst case scenario and has reassured me that every precaution has been taken to protect the site personnel and the community. I am very impressed.

Request from Kathleen Connell, RAB Member – Two things are absent in this video: the shifting of employees during high-probability excavation, and movement of the protective tent in various stages. The details were shared with the RAB during the site tour earlier this evening, and it would be useful to share these details with the community.

[The requested information was provided during the following presentation.]

Background Summary

[This section is a summary of completed schedule components provided for Readers of this meeting summary. This information was not presented at this meeting.]

Completed Documents: Finalized 4825 Glenbrook Road CERCLA-related documents are posted on the Spring Valley project website and are also available at the Information Repository at the Tenley-Friendship Branch Library. These documents include the Decision Document, which formally selects Alternative 5 (removal of the house and cleanup to residential standards providing for unrestricted future use of the property) as the cleanup alternative for the 4825 Glenbrook Road site. These documents also include the Demolition and Disposal Plan, which describes the removal and disposal of the 4825 Glenbrook Road house and associated debris.

Finalized documents also include the 4825 Glenbrook Road Remedial Design and Remedial Action Work Plan (which includes the Public Protection Plan), which describes the intrusive activities designed to achieve remedial objectives, including details of high-probability excavation engineering controls and safety procedures. (Details of this plan were shared with the RAB and the community at the October 2012 Joint RAB/Community meeting, with updates provided at the January and February 2013 RAB meetings.)

Demolition Phase: House demolition was completed in late November 2012, after the Thanksgiving holiday. Remaining house structural components are limited to the basement foundation walls and floor. The site is currently secured with fencing, and a fall protection system was installed to minimize worker safety risks at the site. (Details of this effort were shared with the RAB and the community at the January 2013 RAB meeting.)

Site Preparations for Low Probability Work: USACE completed site preparations for low probability excavations and remedial action work in January 2013. (Details of this effort were shared with the RAB and the community at the January and February 2013 RAB meetings.)

Low Probability Soil Removal Completed To Date: The first phase of the low probability effort began on January 28, 2013 and was completed in February 2013. This effort consisted of excavating a small portion of the front sidewalk, followed by confirmation sampling and restoration. (Details of this effort were shared with the RAB and the community at the February 2013 RAB meeting.)

The second low probability effort began on February 19, 2013 and was completed in early March 2013. This effort consisted of excavating all remaining backyard test pits to competent saprolite. No evidence of American University Experiment Station (AUES)-related debris, visible soil staining, or air monitoring detections of chemicals of potential concern were observed during this effort. (Details of this effort were shared with the RAB and the community at the March 2013 RAB meeting.)

The last initial low probability soil removal effort began on March 25, 2013 and was completed in mid-April 2013. This effort consisted of relocating a sewer utility and a water utility that could interfere with implementation of remedial activities at the site. The water utility was situated above ground along the adjacent Koreans' property, and the sewer line was situated below grade. No evidence of AUES-related debris, visible soil staining, or air monitoring detections of chemicals of potential concern were observed during this effort. This effort was completed concurrently with the initial high-probability site preparations described below. (Details of this effort were shared with the RAB and the community at the April 2013 RAB meeting.)

(Remaining low probability efforts (second phase) include a small portion of the driveway and a small portion of the backyard behind the retaining wall, and are scheduled following completion of high-probability efforts.)

Findings to Date: To date, a total of 3 items were recovered along with small pieces of laboratory glassware and ceramic fragments. All items were situated directly behind the backyard retaining wall and were recovered under low-probability excavation protocols. Items included an empty 75 mm munitions debris (MD) item, which was described in detail at the May 2013 RAB meeting, followed by a heat-sealed pipette (test tube) and an empty closed-cavity item (pipe), which were described in detail at the July 2013 RAB meeting.

The protective steps that were taken to ensure the safety of the workers and the community were described in detail at the May 2013 and July 2013 RAB meetings. All protocols worked as intended, and at no time were the workers or the community at risk. No air monitoring detections of chemicals of potential concern were observed throughout these incidents. In summary, all items (including glassware and ceramic fragments) were cleared for headspace and tested negative for chemical agent contamination. These items will be disposed of as waste or scrap, as appropriate.

As noted at the July 2013 RAB meeting, due to the potential for encountering additional debris items along the retaining wall, the remainder of Area A will be addressed along with the remaining low-probability excavation areas following completion of high-probability excavations.

Site Preparations for High-Probability Work Completed to Date: As described at the March through July 2013 RAB meetings, site preparations for high-probability work began in March 2013, concurrently with completion of the initial low probability effort. Completed preparations include construction of temporary fences, water and sewer utility relocation efforts, installation of soldier piles to support soil embankments, removal of the backyard retaining wall, and installation of engineering controls support equipment. The remaining completed site preparations for high-probability work are described below.

Presentation Summary

[This section is a summary of schedule components completed since the July 2013 RAB meeting.]

Additional site preparations completed since the July 2013 RAB meeting include construction of the Engineering Control Structure (ECS), also referred to as the protective tent. Ductwork (connecting the ECS to the Chemical Agent Filtration System (CAFS)) was installed to process air and treat any chemical releases that could potentially occur inside the ECS. Sound suppression equipment was installed around the CAFS and MiniCAMS in mid-July.

Installations also included the MiniCAMS vestibule, which contains laptops and gas chromatographs for analyzing filtered air and thus providing near-real-time air monitoring. During this process, three technicians monitor the systems for the presence of any chemical agent or industrial compound detections, which in turn will inform decisions made in the field.

The re-dress tent provides a location for site personnel to take breaks between work shifts and to change into and out of personal protective equipment (PPE). All site personnel working under the protective tent will be outfitted in Level B protection, which includes an air supply line and a face mask. Limited productivity is anticipated at the start of high-probability excavation due to late summer weather and the risk of heat stress while fully dressed in Level B protection. Three dig teams will rotate through the excavation area based on their heat stress level and the amount of time they are permitted to remain outfitted in PPE. During hot weather, each dig team is anticipated to accomplish 15 minutes worth of productivity per hour. Upon the return of cooler fall weather and stabilized temperatures, each dig team is anticipated to complete 1.5 hours of excavation progress before they must leave the tent to be evaluated and assured they are fit to continue work.

Final preparations began in early August 2013. These include equipment testing, safety briefings, and tabletop exercises. On-site training exercises with the remedial effort contractor (Parsons) and site support personnel were completed to ensure appropriate responses during various test scenarios, using clean soil in the front yard and personal protective equipment (PPE).

One of two pre-operational surveys was conducted by USACE Huntsville's Center of Expertise. The remaining pre-operational survey will be completed this week (mid-September) by the Department of the Army. These survey efforts are similar to the on-site training exercises and are designed to ensure that the remedial effort contractor (Parsons) is fully prepared to conduct high-probability excavations.

High-probability excavation is scheduled to begin this fall. The protective tent will be moved twice after work is completed under the current location, to provide full coverage of the entire high-probability excavation area.

Shelter-in-Place (SIP) During High-Probability Excavation

Alert System Installation: Completed SIP preparations include installation of the SIP alert system, consisting of four emergency sirens and strobe lights, at the 4825 Glenbrook Road site. An additional two sirens and an associated alert system will be installed on the American University (AU) campus, designated specifically for the campus community in Watkins Hall and the nearby athletic field.

Testing: Monthly siren tests are scheduled for the first Wednesday of each month at 4:05 P.M. for the duration of high probability excavations, to ensure the alarm system continues to function properly. USACE successfully performed the first monthly test on September 4, 2013.

Public Communication Process During High Probability Excavation and Finds

Weekly Updates: USACE will continue to provide weekly updates via e-mail and posting on the Spring Valley project website. These updates will contain general information on site progress accomplished during the past week, along with information and photos of recovered items.

Special E-mail Notifications: In the event of a specific issue during high-probability excavations, a special e-mail will be sent as soon as possible to the established stakeholder list, and this notification will also be posted on the project website.

- Potential issues include the recovery of an unanticipated item (such as an intact munition, a large intact container with liquid, or an unexpected chemical detection). In this scenario, the community will be notified as soon as the unanticipated item is safely placed in storage at the Federal Property.
- Other potential issues include any major sustained shutdown of site activities. This scenario could be caused by extreme weather conditions or major equipment failure, and the community will be notified once the decision has been made and the site has been closed.

Tentative Schedule (Next Steps)

All remedial action dates from this point forward are tentative and will be determined pending resolution of any remaining issues.

Site Cleanup: The tentative remedial action schedule was recently updated to reflect the revised cleanup time frame and currently extends from late November 2012 (the completed demolition phase) through December 2014. This schedule is subject to change pending resolution of any remaining issues and any findings of concern at the site.

- **Major Milestone:** On-site training began on Monday, August 12, 2013. These exercises were designed for the remedial effort contractor (Parsons) and site support personnel. Training included equipment testing, safety briefings, and tabletop exercises.
 - **Major Milestone:** The first pre-operational survey was conducted by USACE Huntsville's Center of Expertise on August 28 and 29, 2013. These survey efforts are similar to the on-site training exercises and are designed to ensure that the remedial effort contractor (Parsons) is fully prepared to conduct high-probability excavations.
 - **Major Milestone:** The second pre-operational survey began yesterday (Monday September 9, 2013) and will be completed by the end of this week (September 13) by the Department of the Army.
 - **Major Milestone:** High-probability excavation is currently scheduled to begin in late September 2013. The planned start date of Monday, September 23, 2013 is subject to change pending resolution of any remaining issues and any findings of concern at the site.
- High-probability excavation is currently scheduled for late September 2013 through late Summer 2014. The protective tent will be moved twice, for a total of three tent locations, to provide full coverage of the entire high-probability excavation area. Excavations under each tent location will tentatively require four months to complete: the total duration for high-probability activities is projected to take one year. The current tent location (front yard) will be completed first, then the back yard in front of the retaining wall, and finally the center yard (including the house foundation).
 - Remaining low probability removal actions in Areas A and B (including the driveway and a small portion of the backyard) are scheduled for Fall 2014 following completion of the high probability excavations.
 - Site restoration is tentatively scheduled for completion in December 2014. The project team anticipates turning the remediated and restored property over to the property owner (AU) in December 2014.

Potentially Responsible Party (PRP) Investigation Update

USACE and their contractor Watermark, Inc. continue to pursue information regarding the development of three properties (4825 Glenbrook Road, 4835 Glenbrook Road, and the Public Safety Building on AU's

campus at 4400 Massachusetts Avenue). Details of this investigation and contact information were provided at recent RAB meetings.

Question from Tom Smith, RAB Member – During the RAB site tour, you mentioned that AU is taking responsibility for informing their students about SIP procedures. Could Linda Argo share how AU will share information with the campus community, now that the fall semester classes have begun?

Linda Argo, At-Large Representative for AU, explained that the campus administration has established a plan for ensuring safety of the campus community during upcoming high-probability excavations. Some of these safety protocols have been used during previous Spring Valley project efforts, while other safety protocols have changed substantially to address the specifics of the upcoming high-probability excavations.

L. Argo summarized AU's plans for sharing this information with the community.

- Notifications will be sent to the entire campus next week, prior to the start of high-probability excavations. This timing is important because all students have returned and all classes have begun, ensuring that the entire campus community is informed while also identifying the subset of individuals who will be present within the SIP area. The campus-wide notifications will inform the community of the high-probability excavation start date, general safety protocols, and a map of the SIP zone.
- The SIP zone captures a single building (Watkins Hall) and a portion of Jacobs Field. Specific training sessions will be held for all students, faculty, and staff in Watkins Hall and for all athletes who are anticipated to use Jacobs Field. These training sessions will be prepared and coordinated by Paul Chrostowski, an AU consultant who has participated in the Spring Valley project for several years. Training sessions will include instructions for gathering at specific assembly points to wait for further instructions, in the event that a siren alarm activates within the SIP zone.

Question from T. Smith, RAB Member – Where would the students, faculty, and staff be directed to go?

L. Argo replied that campus community members would probably be instructed to go to the nearest bus stop shelters, because there are a sufficient number of these and they are easily accessible from the SIP portion of the campus. The full campus safety plan will be released next week (mid-September 2013).

Question from T. Smith, RAB Member – Has USACE reviewed and approved the information that will be shared with the campus community?

B. Barber confirmed that USACE has reviewed this information and coordinated with AU to ensure that all essential information is shared with a good flow of communication. AU requested that USACE prepare a flyer with specific point of contact (POC) information, so that students are able to contact USACE if they have additional questions or concerns.

Question from T. Smith, RAB Member – Who is responsible for conducting the campus SIP training?

L. Argo replied that the training will be conducted by Paul Chrostowski.

B. Barber added that P. Chrostowski has access to all pertinent materials from USACE, and he regularly attends Partnering meetings along with AU's Bethany Bridgham.

B. Barber noted that while USACE may not have input on safety aspects specific to the AU campus, such as the specific buildings in which alert systems and notifications are provided, the AU administration understands the importance and details of the SIP program and the associated protective measures that should be taken.

Question from T. Smith, RAB Member – Will you post any information at the campus?

L. Argo responded that the pertinent information will be posted via notices, provided via e-mail, and featured on the video screens across campus. All details are coordinated by the appropriate AU

Departments (Risk Management and Public Safety). Both safety components are involved in the process, and the risks are managed in the same way that they would manage any risk to the campus community.

Question from T. Smith, RAB Member – Is the athletic track situated within the SIP area?

L. Argo clarified that only a portion of Jacobs Field overlaps with the SIP area, while Reeves Field (including the athletic track) is not impacted by the SIP zone.

B. Barber further clarified that the SIP area only includes the emergency egress for the athletic field. From USACE's perspective, for the purpose of overall community safety, students and other campus community members can remain on the opposite end of the field, but AU can certainly take additional safety precautions if they wish.

Question from Nan Wells, ANC3D Commissioner – Could you share some of these materials with us? My ANC district and T. Smith's ANC district are seamlessly connected to the AU campus, and it would be nice to know what information you are sharing with the public in case they happen to contact us first. For example, I have previously received calls from parents of AU students, and I directed these calls to the AU campus. It is also important to note that many people walk through campus as tourists, and I myself am occasionally on campus. Could you distribute the campus safety procedures throughout the community?

B. Barber responded that the flyer prepared by USACE will include POC information as well as the Spring Valley project website address. If the information provided by AU does not answer all questions voiced by the campus community, then it is better for these questions to be transitioned to USACE. This will enable technical answers, ensure delivery of the correct information, and prevent misinformation.

Comment from N. Wells, ANC3D Commissioner – Residents would certainly contact the USACE POC, but it would be useful for ANC Commissioners to be aware of the general procedures established for the AU campus.

L. Argo mentioned that her only concern with this request is as follows. From a risk management perspective, AU is responsible for focusing on the campus community, for whom the campus safety protocols are specifically designed. Providing the same information to the surrounding neighborhood could cause issues if the general community uses this information in unintended ways. This does not mean the information cannot be shared with the ANC.

Comment from T. Smith, RAB Member – The most appropriate forum for this topic might be the liaison meetings between AU and the community.

L. Argo replied that AU can certainly let the community know their general campus safety protocols, but despite a recent request to add this topic to the forum agenda, the RAB meetings are the most appropriate forum for addressing this request. AU will happy to share details beyond the current plans for disseminating information.

Comment from T. Smith, RAB Member – Sharing this information would be helpful because many individuals use the AU campus for many reasons, but not all of these individuals live within the SIP area. These community members should not be left out, and a balance needs to be reached with respect to providing sufficient information to a large enough audience. I do understand L. Argo's concern about widely sharing this information from a legal standpoint.

L. Argo agreed that reaching a balance is achievable and an acceptable solution. Part of AU's discussions focused on the fact that other individuals (e.g., those living outside of the Spring Valley FUDS or at least outside of the SIP area) are unlikely to be present within the SIP portion of the AU campus (Watkins Hall and the emergency egress area of Jacobs Field). The public generally does not go to these campus locations. Campus community members who are most likely to experience emergency conditions in the SIP area include AU students, faculty, and staff in Watkins Hall, as well as athletes and visitors to Jacobs Field.

T. Smith acknowledged this.

L. Argo added that AU has been very diligent about providing necessary information to USACE. AU is responsible for protecting the campus community, while USACE is responsible for sharing information on SIP and emergency procedures with the surrounding neighborhood. AU has carefully ensured the line between AU responsibility and USACE responsibility remains opaque.

Question from Kent Slowinski, (Audience Member) ANC3D Commissioner and Former RAB Member – Who currently uses Watkins Hall at AU’s campus?

D. Noble replied that Watkins Hall is currently used for classes and associated offices.

Question from K. Slowinski, (Audience Member) ANC3D Commissioner and Former RAB Member – Is Watkins Hall also used for training government agencies? I recall the presence of government agency plaques the last time I was in the building.

D. Noble replied that he is not aware of any uses for Watkins Hall other than university courses.

L. Argo added that she will check, but she is not aware of any other uses for the building.

Question from K. Slowinski, (Audience Member) ANC3D Commissioner and Former RAB Member – If you are not willing to share AU’s campus safety plan with all of the ANC Commissioners, would you be willing to share the plan with (other individuals associated with AU) the two AU student ANC Commissioners?

L. Argo clarified that she would be happy to share this information with the ANC Commissioners. She emphasized that the purpose and targeted audience of the campus safety plan must be clearly established, so that these protocols are not misinterpreted by the public and then followed incorrectly. This plan is designed specifically for those on campus that AU is responsible for, based on the opaque line between AU responsibility and USACE responsibility, as discussed above.

Suggestion from T. Smith, RAB Member – I hope you will share this information at the Community Liaison Committee meeting, where AU representatives gather with other community leaders to discuss campus topics. The attendees would probably be very interested in seeing this information even if they are not connected to or impacted by it. It is my opinion that the AU campus does not exist in isolation from the rest of the community.

L. Argo acknowledged this and replied that she would be happy to share this information with the CLC.

Comment from Mara Miller, Audience Member – Several years ago, I had an access card to the gate on the AU campus side, and was able to walk through campus whenever I wanted. Over the years I have seen other residents use the same access points to get from one place to another. Nearby residents may experience ignorance about the potential safety concerns, and it is important for the community to acknowledge and respond to the safety protocols for the AU campus. Providing this information is the right thing to do.

B. Barber reiterated L. Argo’s point that AU’s safety plan is designed specifically for the campus community, while USACE’s safety protocols are shared with the larger community. USACE and AU continually collaborate to ensure that all campus and neighborhood residents receive important information regarding the high-probability excavation. Both USACE and AU must reach very large groups of people and this is a large effort.

Question from M. Miller Audience Member – My question focuses on the equipment testing during recent site preparations. The video tour mentioned that the site equipment is based on “tried and true” engineering. What other Formerly Used Defense Sites (FUDS) have used this machinery?

B. Barber replied that the engineering controls support equipment is proven technology that has been used nationwide and internationally. The same engineering controls were successfully used, without any

equipment failures, during nine previous operations within the Spring Valley FUDS. USACE-Huntsville uses this technology at multiple chemical project sites, and in general this technology is used around the world.

Question from M. Miller Audience Member – Has there been any testing conducted specifically to ensure the equipment will detect the eight chemicals of interest?

B. Barber confirmed that Edgewood Chemical and Biological Center (ECBC) tests the monitoring equipment to ensure that all compounds previously detected at the site will be recognized and treated by this approach. The equipment was retested when arsenic trichloride was unexpectedly discovered at the site, and ECBC confirmed that the filters would treat this chemical. The reason that site investigations were suspended for approximately three years was to ensure the technology was appropriate for the compounds that had been detected at the site.

Question from M. Miller Audience Member – You mentioned that testing had to be conducted for an additional unexpected chemical. How do you know that the site equipment is testing for the correct set of eight chemicals?

B. Barber explained that the MiniCAMS will detect the eight chemicals that pose the highest risk and have been most prevalent at the site, based on findings to date as well as review of historical AUES operations. It is not feasible to test for the entire list of approximately 1,600 chemicals using real-time monitoring equipment such as the MiniCAMS.

Question from M. Miller Audience Member – So it is possible that a release may occur for an unexpected chemical (specifically, a chemical that has not been previously observed at the site).

B. Barber replied that site monitoring also includes industrial compounds. If a chemical release cannot be identified by the monitoring equipment, then high-probability excavation will cease and the site will be shut down to prevent further potential chemical release. Decision-making processes have been established to address this type of scenario. USACE previously experienced this scenario upon encountering arsenic trichloride at the site, at which point all activities were suspended to allow chemical analysis and further evaluation of engineering controls.

Question from M. Miller Audience Member – Did the alarm system activate because arsenic trichloride was similar enough to the specific chemicals you were monitoring for? What if a very different chemical is released?

D. Noble clarified that arsenic trichloride was encountered while carefully digging by hand in an area associated with AUES laboratory debris. The chemical release was observed visually, followed by on-site and laboratory testing to identify the chemical. Additionally, the MiniCAMS is capable of detecting some chemicals that have not been observed at the site to date but were present historically or were used by the U.S. Army during World War I.

B. Groundwater Investigation

[Previous groundwater study efforts were described at the November 2010 RAB meeting as well as various earlier RAB meetings. Additional planned groundwater study efforts were described at the May 2011 RAB meeting as well as various subsequent RAB meetings. Recently completed and upcoming groundwater study efforts were summarized at the January 2012 through July 2013 RAB meetings.]

Completed Semi-annual Sampling: As described at the March through July 2013 RAB meetings, selected existing groundwater monitoring wells and surface water monitoring locations will be sampled twice annually for the next few years. These locations include a total of 20 shallow and deep wells and a total of 10 surface water locations. During these sampling events, USACE field sampling crews are present in the neighborhood along with Community Outreach.

The first semi-annual sampling event was completed in mid-May 2013, as part of the extended 2013 groundwater monitoring program. (Details were provided at the May 2013 RAB meeting.)

An additional sampling event to collect additional groundwater data from PZ-4S/D at AU's campus and the Sibley Hospital Sump was completed in mid-July 2013.

Upcoming Semi-annual Sampling: The second semi-annual sampling event is scheduled for Fall 2013 and will consist of the same set of selected existing groundwater monitoring wells and surface water monitoring locations described above.

Upcoming Deep Well Installations: Two additional deep monitoring wells are planned for installation in two locations, pending contract finalization by the end of FY2013 (the end of September), followed by sampling.

Current and Upcoming Efforts: The groundwater investigation will be a major topic of interest at the November 2013 RAB meeting. Todd Beckwith, Spring Valley Project Manager, will present the results of the April/May and July 2013 sampling events, along with a status update on the upcoming deep well installations and the Fall 2013 semi-annual sampling effort.

C. Update on the Community Relations Plan

The Spring Valley Community Relations Plan (CRP) serves as the blueprint for how USACE communicates with the Spring Valley stakeholders. This document ensures that USACE communicates clearly and with transparency at all times. The Spring Valley CRP is updated regularly to reflect changes in community opinions about the site, how people prefer to receive information, the effectiveness of current communication and public involvement efforts, and other positive and negative views of the contents.

The Community Outreach Team is currently updating the CRP, which will incorporate information gathered during community interviews. These interviews provide community feedback on the USACE outreach efforts to date, and how USACE can best engage and provide information to the Spring Valley stakeholders from this point forward.

Stakeholder interviews began in August 2013, representing homeowners, current and past RAB members, local elected officials, Spring Valley realtors, and other local parties who are interested in the Spring Valley project. In particular, homeowner interviews focus on those who have had arsenic sampling, geophysical surveys, and arsenic and/or anomaly clearance performed on their property, as well as those who have groundwater monitoring wells or surface water sampling locations on or near their homes.

Any notable findings, including any significant changes to the current CRP, will be gathered and briefed to the RAB upon completion of the updated CRP. The updated CRP will also be made available at the Information Repository.

III. Community Items

No primary community items were scheduled due to the delayed meeting start time. The RAB site tour of the 4825 Glenbrook Road site was scheduled for 6:00 PM, followed by a short RAB meeting scheduled for 7:30 PM.

IV. Open Discussion and Agenda Development

A. Next Meeting: Tuesday, November 12, 2013

The next meeting will be the last RAB meeting scheduled in calendar year 2013.

Upcoming meetings will be held in January 2014 and March 2014.

RAB meetings are not held in even numbered months.

B. Future Agenda Topics

- Findings of the JHU Follow-on Health Study and Community Survey (November 2013)
- Groundwater Study: April 2013 Sampling Results (November 2013)
- Report by ERT on Site-Wide RI Report Human Health Risk Assessment (TBD)
- Update on the Community Relations Plan for the Spring Valley FUDS (TBD)
- Update on the Agency for Toxic Substances and Disease Registry (ATSDR) Health Consultation for 4825 Glenbrook Road (TBD)
- Update on the FY2013 Spring Valley Project Budget and the FY2014 Outlook (November 2013)

D. Noble mentioned that Dr. Mary Fox of Johns Hopkins University Bloomberg School of Public Health and her team are scheduled to present the findings of the follow-on Spring Valley public health study and community survey.

J. Sweeney confirmed that Dr. Mary Fox and her team are willing and happy to come to the November 2013 RAB meeting and share the follow-on health study results.

D. Noble mentioned that he hopes to provide a brief snapshot of the FY2013 budget allocations and the FY2014 budget outlook for the Spring Valley project. [This topic was added to the list of future agenda topics above.]

C. Open Discussion

G. Beumel asked if there were any additional agenda topics the RAB wishes to discuss.

Suggestion from M. Douglas, RAB Member – It would be interesting to hear more about the Site-Wide MEC HA [Munitions and Explosives of Concern Hazard Assessment].

D. Noble replied that details of the MEC HA methodology and format were shared by Tom Bachovchin of ERT at two recent RAB meetings in 2013. The project team has a good idea of what the MEC HA format will look like within the draft RI report.

D. Noble added that it may be more helpful to focus on the Human Health Risk Assessment (HHRA) portion of the Site-Wide RI report. This future agenda topic will be presented by Tom Bachovchin of ERT and available risk assessors (such as Cliff Opdyke of USACE).

D. Noble explained that in accordance with RI guidance, a baseline human health risk assessment (HHRA) must be performed for the Site-Wide RI report. To date, several HHRA efforts were already conducted by USACE and other agencies including USEPA. ERT is conducting a review of these previously-completed Pre-2005 HHRAs to ensure that we do not lose the benefits gained and lessons learned from those efforts. For example, additional soil sampling may be needed to address gaps in coverage, changes in risk values, and revised guidance for performing HHRAs. The resulting information will be incorporated into the current HHRA.

Clarification from M. Douglas, RAB Member – My interest is not focused on the MEC HA process itself. I am interested in whether implementing this process has revealed any significant results so far.

M. Douglas confirmed that her inquiry focuses on the actual MEC HA scores.

D. Noble explained that the MEC HA scores are not available at this time and will initially be presented in the draft RI report. This is an important part of the Site-Wide RI document.

Question from N. Wells, ANC3D Commissioner – When do you expect to present the RI report contents?

L. Reeser replied that the draft RI report will tentatively be available during the early 2014 to mid-2014 time frame.

D. Noble added that this refers to the calendar year, not the fiscal year. Based on this schedule, USACE hopes to share the draft RI report contents with the RAB by Summer 2014. This will be a sizeable document containing a large amount of information associated with the Spring Valley project.

Question from J. Wheeler, RAB Member – When should the RAB expect to hear an update from ATSDR?

D. Noble replied that the Agency for Toxic Substances and Disease Registry (ATSDR) continues to prepare the Health Consultation for 4825 Glenbrook Road. Based on recent communication with ATSDR, the public comment period for the document's contents is tentatively scheduled to begin in May 2014. [This information was previously shared at the May and July 2013 RAB meetings.]

J. Wheeler acknowledged this and added that it seems the ATSDR is behind the ball on this project.

D. Noble explained that the ATSDR is a sister federal agency that recently underwent significant internal restructuring. The same technical personnel continue to develop and produce the health consultation, but at this time they are in the process of working on a revised internal draft of this document.

Comment from M. Miller Audience Member – I think it is concerning that the ATSDR report focuses on risks so late in the game.

B. Barber clarified that the ATSDR report focuses specifically on past exposure to site developers, site workers, and residents at the 4825 Glenbrook Road site. The health consultation does not include current site risks or current site conditions. This is an important distinction, as USACE's efforts focus on current data to mitigate future risks while ATSDR's efforts focus on to historical and previous investigation data to evaluate potential past risks and exposures.

Question from M. Miller Audience Member – So the ATSDR health consultation is more of a historical document?

B. Barber confirmed this.

V. Public Comments

No additional public comments or questions were shared.

G. Beumel thanked everyone for attending.

VI. Adjourn

The meeting was adjourned at 8:21 PM.