

Meeting Minutes

Naval Weapons Station Yorktown
Cheatham Annex (CAX), Williamsburg, Virginia
Environmental Restoration Program (ERP)
Restoration Advisory Board (RAB) Meeting
Yorktown Library
Thursday, November 10, 2022; 1300-1400

Attendees:

Name	Organization/Role
Captain Horgan	CAX Commanding Officer
Steven Oyer	Citizen and RAB Community Co-Chair
Bryan Peed	Navy Remedial Project Manager (RPM)
Sarina Howell	United States Environmental Protection Agency (USEPA) RPM
Wade Smith	Virginia Department of Environmental Quality (VDEQ) RPM
Stephanie Sawyer	CH2M HILL Inc. (CH2M) Program Manager
Megghan Smith	CH2M Deputy Program Manager
Suzanne Greene	CAX Public Affairs Officer
Jeff Kissler	CAX Environmental Program Director
Bruce C. Keener	Community Member
Bonnie Roberts	CAX Waste Management Coordinator
CDR Takach	NAVFAC

Mr. Bryan Peed started the meeting with introductions and welcoming everyone to the meeting. Captain Horgan says he is glad to be here and appreciates all the hard work done by the environmental team. Captain Horgan stated that environmental stewardship is a priority to the base and looks forward to sharing a quarterly update with the public and Mr. Steven Oyer agreed.

Environmental Restoration Program Update

Mr. Peed presented an overview of the active CAX sites. This overview included the work completed since the last RAB and work that is currently in progress at Site 4, Site 7, Site 9, AOC 1 South, AOC 6, AOC 8, and AOC 9. Mr. Peed reviewed the CERCLA process flow chart for the 21 ERP Sites and reviewed the site status with the following: 2 sites are in the Site Inspection (SI) phase, 4 sites are in the Remedial Investigation (RI) and/or Feasibility Study (FS) phase, 1 site is in the Remedial Action (RA) phase, and 14 sites are closed.

Site 4 (Outdated medical supply disposal area): Since the last RAB meeting, team has continued to work on drafting FS for all site media. Currently developing RI planning.

Site 7 (Old DuPont Disposal Area): Since the last RAB meeting, a Vapor Intrusion (VI) Technical Memorandum (TM) was completed, which summarized the VI Results. Phase 1 groundwater delineation field activities has been completed. Site 7 is in the fieldwork stage.

Site 9 (former Transformer Storage Area): Since the previous RAB meeting, the team has collaborated with the USEPA and VDEQ to determine a path forward for the site and has developed the Draft Expanded Site Inspection (ESI) report documenting field investigations. The team is currently submitting the ESI report to the EPA and DEQ to document the field investigation.

AOC 1 South (former Scrap Metal Dump): Since the previous RAB meeting, the team has finalized the RI report and has begun drafting the FS report. The path forward consists of removal of the surficial waste and long-term monitoring (LTM) for groundwater.

AOC 6 (Trinitrotoluene (TNT)/Ammonia Settling Pits Subareas): Since the previous RAB meeting, the team has prepared for a Non-Time Critical Removal Action (NTCRA) and has initiated NTCRA field activities. Soil is the only active media under investigation.

AOC 8 (Area South of Site 7): Since the previous RAB meeting, the team has conducted Phase 2 groundwater sampling activities and is currently preparing an RI Addendum report documenting groundwater delineation field activities. Path forward is anticipated to be no further action or LTM of groundwater.

AOC 9 (Penniman Lake Historical Industrial Areas): Since the previous RAB meeting, the team has completed Phase 2 field investigation and explosives contamination field activities. Currently, the team is preparing an ESI Report to document field investigation activities. Prior to performing remedial action, the team is performing an investigation to identify the source of PCB contamination. Once the source is identified and treatment, remediation of Penniman Lake is planned.

Site 7 – Old DuPont Disposal Area Field Work Update

Ms. Sawyer reviewed the Site 7 background information and environmental investigation objectives. Surface water, sediment, and soil remediation actions have been closed. Team has performed a step-based approach for groundwater investigation. The investigation objectives are to determine the horizontal and vertical extents of the volatile organic compound (VOC) tetrachloroethene (TCE) and its degradation products in groundwater. Once the extent of contamination is identified, team will determine if these constituents were present at concentrations posing potential risks to human health and ecological receptors. Geochemical and geophysical data (grainsize, total oxygen demand, alkalinity, chloride, nitrate, nitrite, sulfate, sulfide, methane, ethane, and ethene) will be collected to support the evaluation of remedial alternatives, as needed.

The investigation was conducted in two phases. Phase I was performed in 2021 and 202 and consisted of collecting direct push technology (DPT) groundwater samples and Hydraulic Profiling Tool (HPT) data to understand groundwater contamination and site hydrogeology. One shallow and one deep groundwater sample was collected at 35 locations and analyzed for site contaminants. HPT was conducted at 8 locations. Tool on HPT provided indicators that TCE is present. Soil sampling was performed to determine concentrations. TCE concentrations up to

550 ug/l and TCE degradations products were identified in the groundwater and presented mostly in the deeper portion of the aquifer.

Phase II is anticipated to be performed in early 2023 and consisted of the installation and sampling of groundwater monitoring wells to confirm the DPT results. Based on the data collected, a risk assessment will be completed in 2024 to determine if contaminant concentrations in groundwater represent a potential risk to human health and a report will be prepared to document findings.

Open Discussion: Captain Horgan requested clarification on slide 29, the Site 7 Cross Section. Groundwater flow direction is towards the York River. Is there risk of contaminants to reach the York River. Ms. Sawyer noted that there is potential for TCE to reach the York River over time. It was noted that Site 7 has a No Further Action (NFA) Record of Decision (ROD) in place for sediment, soil, and surface water. Phase II groundwater sampling will be utilized to gauge path forward. Mr. Peed noted that the installation of monitoring wells will provide more information regarding potential York River contamination.

A participant asked if the monitoring wells confirm that groundwater is not flowing into the York River? Based on elevation of York River and groundwater, interpreted that it is not flowing straight into the York River. Data received from the Phase II groundwater sampling will be used to evaluate if additional evaluation is needed.

Ms. Sawyer noted that the low hydraulic conductivity zone depicted in the Site 7 Cross Section slide, is the Yorktown Confining Unit and the high hydraulic conductivity zone is the Yorktown Eastover Aquifer.

AOC 8 – Area South of Site 7 Field Work Update

Ms. Sawyer presented recent AOC 8 field activities and results and planned future field activities. AOC 8 was historically used as a borrow pit which was filled with World War I era debris. From 2017 to 2018, 17.5 tons of construction debris (concrete, asphalt, lumber, bricks, etc.) and 23,000 tons of non-hazardous soil was removed in a NTCRA. The site was then re-graded and re-planned with native vegetation. The shoreline was slightly sloped to provide a gentle grade towards the York River. The investigation objectives are to determine the horizontal and vertical extents of the residual VOC tetrachlorethylene (PCE) in groundwater. Once the extent of contamination is identified, team will determine if these constituents were present at concentrations posing potential risks to human health and ecological receptors. Once the extent of contamination is identified, team will determine if these constituents were present at concentrations posing potential risks to human health and ecological receptors. Geochemical and geophysical data (grainsize, total oxygen demand, alkalinity, chloride, nitrate, nitrite, sulfate, sulfide, methane, ethane, and ethene) will be collected to support the evaluation of remedial alternatives, as needed.

In 2001, Phase I activities consisting of collecting HPT data and DPT groundwater sampling to understand site hydrogeology and groundwater contamination. Six permanent groundwater monitoring wells were installed. Results were presented in the November 2021 RAB Meeting. Groundwater was non-detected for VOCs with the exception PCE. PCE was detected above the project action limit of 11 ug/L at one location MW07 with 20 ug/L, which indicates there is a

potential for human health and ecological constituents. The extent and location of contamination has been identified and the team is currently performing risk assessments to determine if there are potential human health and/or ecological risk. A RI Addendum report will be prepared in 2023 to document the 2021 and 2022 field activities and risk assessment. Based on the results of the risk assessments, if risk is identified, the team will move forward with the CERCLA process.

Open Discussion: Captain Horgan when to we anticipate the report and risk assessment. Ms. Sawyer stated that the report is currently in progress and the report is anticipated in the fall/winter of 2023.

A participant asked if there is a status update on the fuel farm. Mr. Peed clarified that the fuel farm is currently active and run by a state program. The fuel farm is not under the CERCLA program, which is what is being covered in this presentation. Mr. Peed stated that participants are welcome to reach out to him regarding the fuel farm.

A participant asked if surrounding bodies of water have been impacted by the sites. Ms. Sawyer stated that CERCLA program sites are not located within proximity to Queen's Creek, King's Creek, or Yorktown River. Currently, there are not sites that impact the above-mentioned bodies of water.

Final Comments/Closing Remarks

Captain Horgan thanked everyone for joining the call and for the work being done. He is happy that members of the public have shown interest and he encouraged member of the community make their neighbors aware of the public meetings. He stated that great work is underway, and we still have work ahead of us. Mr. Peed reviewed contact information for the base Navy Project Manager, Environmental Direction for NWS Yorktown, and NWS Yorktown Public Affairs Officer, and the public website.

Action Items: Mr. Peed: Coordinate a site visit with Captain Horgan and Steven Oyer to view active sites.

Next RAB Meeting: November 15, 2023
(Will be advertised on the public websites and in the *Daily Press* and *Virginia Gazette* newspapers)

Location: Virtual MS Teams Meeting.

Points of Contact for Questions, Comments, or to Request Additional Information:

Mr. Bryan Peed, Naval Facilities Engineering Command Mid-Atlantic Remedial Project Manager for CAX, bryan.k.peed.civ@us.navy.mil or (757) 341-0480

Public Websites:

<https://go.usa.gov/xMame>

ATTACHMENT 1

Public Notice



**Public Notice of
RESTORATION ADVISORY BOARD (RAB) MEETING
for Naval Weapons Station (NWS) Yorktown
Cheatham Annex (CAX)**

Thursday, November 10, 2022 from 1:00 p.m. to 2:00 p.m.
Virtual Meeting via Microsoft Teams
Call in Phone Number: 1-469-214-8538
Conference ID Number: 545 627 410#

The Public is Invited to Attend

NWS Yorktown CAX is inviting the community to participate in the RAB meeting to be informed of Environmental Restoration Program (ERP) issues, investigations, and cleanups. The ERP addresses past contamination to protect human health and the environment and relies on public awareness and engagement in the process. This is your opportunity to participate by providing direct input during this meeting. NWS Yorktown CAX, the Virginia Department of Environmental Quality, and the U.S. Environmental Protection Agency are committed to the RAB, which symbolizes our commitment to maintaining open dialog with local communities as we work together to Clean, Protect, & Restore.

To join the meeting by telephone only, please call 1-469-214-8538, and enter conference ID 545 627 410#. A link to the virtual meeting and presentations for the meeting will be posted to the public website. To request a mailed hardcopy of the presentations, please contact the Navy's contractor, Ms. Stephanie Sawyer, at (757) 671-6273.

For additional information regarding the RAB Meeting or the ERP at NWS Yorktown CAX, visit our website:

<https://go.usa.gov/xSvFH>

or contact the NWS Yorktown Public Affairs Officer
Phone: (757) 887-4939

#MissionCleanup – Clean, Protect, & Restore

Notice published in the *Virginia Gazette* and *Daily Press* on November 6 and November 8, 2021, respectively. (In addition, notification letters are mailed to the Community Co-Chair and community members on the mailing list.)

