

POLREP 61
NanoChemonics Site
4 Magnox Drive
Pulaski, Pulaski County, Virginia 24301

Lat: N 37.04718
Long: W 80.79146

ATTN: RRC
VADEM -Tolbert
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I. SITUATION (as of November 15, 2013)
EVENT: Site Cleanup Operations

- A. Refer to previous Polreps for site background information.
- B. STNP, the owner of the NanoChemonics property, is conducting a response action and cleanup of the Site under an EPA order. The Administrative Settlement and Order was signed on April 8, 2011, and response actions continue. In brief, the response action involves the removal of hazardous substances from the Site and included the removal of such substances found in the debris created during demolition of the buildings at the Site. The action also includes the management of wash waters and storm waters at the Site that migrate towards lagoons and then into nearby Peak Creek.
- C. The response actions related to the lagoons and drying bed began on September 25, 2013.

II. ACTIONS

- A. On November 7, 2013, the removal of the remaining water and residuals and final cleaning of Tanks 327 and 404 was completed. All the tanks on the 'Creek' side (aka, wet side) used to store contaminated storm water and wash water (Tanks 9, 10, 327, and 404) have now been cleaned out. Only the tank containing residual iron sulfate material remains to be cleaned out.
- B. STNP contractor ARG continued excavating sludge from Lagoons 1, 2, and 3 using an excavator and hauling it to the drying bed with a dump truck. The bottom and sides of Lagoons 1 and 2 were scraped with the excavator bucket to remove remaining sludge residuals. Removal of sludge from Lagoons 1 and 2 was completed on November 15th.
- C. On November 7-8, and 11-14, ARG cleaned out the following storm water conveyance trenches: trench from Lagoon-side sump to Lagoon 4; trench between Lagoon 3 and Lagoon 2; and trench and pipe between Lagoon 4 and Lagoon 3. The trenches between Lagoons 3 and 4 and Lagoon 2 and 3 were covered with approximately 1ft. of soil/rock. The soil/rock cover was excavated and the steel

gratings/plates were removed to allow access to clean the trenches. The trenches were approximately 6 ft. deep and contained approximately 2 to 3 ft. layers of sludge. After removing the sludge using a mini excavator and shovel, the trenches were pressure washed. The steel grates and plates were then replaced and the soil/rock covering was replaced. ARG also excavated the soil/rock cover from the storm water bypass trench to Lagoon 3 and cleaned out the majority of the sludge with a mini-excavator and shovel. This trench is approximately 125 ft. long and 6-ft. deep. This trench had a 2 to 3-ft. thick soil/rock cover over most of the trench and the sludge in the trench was approximately 3-ft. thick. ARG plans to bring a vac truck in to complete the final pressure wash and cleanout of the trench.

- D. EPA has established a public repository of site documents at the local library in Pulaski. EPA will also provide public information updates for the site on the EPA site website at: www.epaossc.org/nanochemonics.

III. FUTURE ACTIONS

- A. Continue response actions in the lagoon area including removal of sludge from lagoons into the drying bed.
- B. Complete response activities identified on July 27, 2012 inspection list. The remaining item to be completed on the checklist is cleaning ferrous sulfate (aka copperas) from the above-ground storage tank (AST) remaining on the Cobalt building (CAB) tank containment pad.
- C. Collect additional storm water samples from the Site to assist in evaluating completion of the response action involving the former facility buildings.
- D. Complete cleaning of storm water conveyance trenches and piping.
- E. EPA will continue providing on-site oversight of remediation activities conducted by STNP and inspect the Site against the required schedule.

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