

N00158.AR.000360  
NASJRB WILLOW GROVE  
5090.3a

EMAIL AND COMMENTS FROM U S EPA REGION III REGARDING SAMPLING AND  
ANALYSIS PLAN FOR SITE 1 GROUNDWATER AND PILOT STUDY REPORT FOR SITE 5  
GROUNDWATER NASJRB WILLOW GROVE PA  
03/03/2011  
U S EPA REGION III

**Dale, Jeffrey M CIV NAVFAC MIDLANT, EV**

---

**From:** Leipert.Mark@epamail.epa.gov  
**Sent:** Thursday, March 03, 2011 5:27 PM  
**To:** Dale, Jeffrey M CIV NAVFAC MIDLANT, EV  
**Cc:** Leipert.Mark@epamail.epa.gov; Cunningham.Lisa@epamail.epa.gov  
**Subject:** Comments on Sampling Analysis Plan for Site 1 GW and Pilot Study for Site 5 - Fire Training Area at NAS JBR Willow Grove

Jeff,

As per our phone conversation today attached you will find my comments on the SAP for Site 1 and Pilot Test for Site 5 for NAS JRB Willow Grove.

**Sampling Analysis Plan for Site 1:**

The overall Sampling Analysis Plan (SAP) was in the proper format as outlined in the Unified Federal Policy (UFP). Any minor changes in personnel do not warrant re-printing the entire document. The only significant item is to include a new figure showing the existing monitoring well network at the site and highlight the three monitoring wells and supply wells that are to be monitored. No need to show the wells that were abandoned as part of the new facility construction.

**Pilot Test Report Site 5 - Fire Training Area GW (OU-2):**

We concur that it appears that bioremediation has been affective in destroying the Site 5 groundwater contaminants through reductive dechlorination. The agency also concurs with the findings, conclusions and recommendations of the Pilot test, including maintaining pH and anaerobic conditions, looking for a slower-releasing organic substrate like emulsified oil and the addition of shallow injection wells to more effectively distribute the amendments. Please add 05MW-16S to Figure 3. The section showing the trends during the Bioaugmentation Pilot Study were particularly useful in evaluating the results.

Mark W. Leipert, PG  
Geologist

U. S. Environmental Protection Agency, Region III Hazardous Site Cleanup Division Technical Support Branch (3HS41) 1650 Arch Street Philadelphia, PA 19103-2029  
Phone: 215.814.3341  
FAX: 215.814.3015  
[leipert.mark@epa.gov](mailto:leipert.mark@epa.gov)