



**DEPARTMENT OF THE ARMY
BADGER ARMY AMMUNITION PLANT
S7273 BLUFF ROAD
MERRIMAC, WISCONSIN 53561**

July 10, 2018

**SUBJECT: Deterrent Burning Ground Groundwater Sampling Work Plan
Badger Army Ammunition Plant**

Mr. Jason Lowery
Wisconsin Department of Natural Resources
101 S. Webster Street
Box 7921
Madison, WI 53707-7921

Dear Mr. Lowery:

Per your letter dated June 13, 2018 regarding the April 2018 Monitoring Well and Residential Well Groundwater Data, you requested that the Army submit a work plan to increase the frequency of sampling at the downgradient Deterrent Burning Ground (DBG) Plume monitoring wells and potable wells (residential). This letter outlines the scope and schedule of the additional groundwater sampling.

The results from the April 2018 sampling of monitoring wells indicated that dinitrotoluene (DNT) concentrations in two off-site monitoring wells, ELN-1003B and ELN-1003C, have increased to above the NR 140 Enforcement Standard for total DNT (0.05 micrograms per liter). The closest downgradient residential well to the DBG Plume is Purcell-D. No exceedances of a NR 140 Groundwater Standard (including total DNT) have been detected in the Purcell-D residential well.

The Army is proposing to increase the DNT sampling frequency of monitoring wells ELN-1003A, ELN-1003B, ELN-1003C, ELN-1003E, and ELN-1504B from semi-annual to quarterly. Samples from these monitoring wells would be analyzed for DNT on a quarterly basis. Samples from these monitoring wells would continue to be analyzed for volatile organic compounds (VOC) on an annual basis. Quarterly sampling rounds would typically occur during the months of April, June, August, and November.

The Army is proposing to increase the sampling frequency of the Purcell-D (163) residential well from semi-annual to quarterly. Samples from the Purcell-D residential well would be analyzed for DNT and VOC. Quarterly sampling rounds would typically occur during the months of April, June, August, and November.

In response to the recent increase in DNT concentrations in PBN-8202A, the Army is proposing to sample an additional three monitoring wells during the September 2018 sampling round. PBN-8202A is located next to and downgradient from the capped Propellant Burning Ground (PBG) source area. The three monitoring wells (PBM-1201, PBM-1202, and PBM-1203) are also located next to and downgradient from the PBG. Samples from these monitoring wells would be analyzed for DNT and VOC. The sampling results from these three monitoring wells plus the other eight routinely sampled monitoring wells near the PBG, would help evaluate the recent increase in DNT concentrations.

Please do not hesitate to contact me at 608-434-5374 if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'R. Sitton', with a large, stylized flourish at the end.

Robert M. Sitton
Commander's Representative

Enclosure

Copy furn: Bryan Lynch, Contracting Officer's Representative
SpecPro Professional Services, LLC