

**United States Environmental Protection Agency
Region III
POLLUTION REPORT**

Date: Wednesday, April 29, 2009

From: Myles Bartos

Subject: Dec 2 2008 - April 24 2009

Crozet Arsenic Site

Orchard Acres Subdivision, Crozet, VA

Latitude: 38.0360985

Longitude: -78.7759559

POLREP No.: 24

Site #: A3R4

Reporting Period: Dec 2 2008 - April 24 2009

D.O. #:

Start Date:

Response Authority: CERCLA

Mob Date: 4/30/2007

Response Type: Time-Critical

Demob Date:

NPL Status: Non NPL

Completion Date:

Incident Category: Removal Action

CERCLIS ID #:

Contract #

RCRIS ID #:

Site Description

The Site is a former orchard area that has had residential development. Prior to an EPA ban in 1972, a variety of pesticides including lead-arsenates and DDT compounds were applied.

EPA conducted a removal action at one property at the Crozet Arsenic Site in Crozet, Virginia. Historical sampling indicated that additional properties may need removal work.

To date, twelve properties have had removal work due to arsenic concentrations above 58 mg/kg.

One property continues to have removal work done. Phytoremediation is being used to remove the arsenic contamination.

Current Activities

EPA received and reviewed results of the November sampling event.

8 additional plots had arsenic concentrations below the action level of 58 mg/kg in soil. These plots will need no further treatment and will be restored in the springtime.

The remaining 5 plots still had elevated levels of arsenic and did not demonstrate significant reductions over the last two growing seasons. These plots also showed elevated levels of lead (500-600 mg/kg range). While not concrete evidence, it seems the lead may be impeding the uptake of the arsenic into the ferns.

EPA will re-evaluate the results after consultation with phytoremediation experts.

Next Steps

EPA will evaluate the results of the 5 remaining plots and if necessary, author an additional decision document (Action Memorandum) to address the situation.

response.epa.gov/Crozet-Arsenic