

100-HR-3-H Groundwater Operable Unit



Overview

DOE has operated a pump-and-treat (P&T) system in 100-H Area since 1997 to prevent groundwater containing chromium from reaching the Columbia River.

Other groundwater contaminants are nitrate and strontium-90.

Cleanup Goal for Chromium

- 100-HR-3 P&T = 22 ug/L

Limitations

Although many waste sites have been excavated, additional sources of chromium may be present in the unsaturated soil. This chromium could move down to the water table and contaminate groundwater.

A second chromium plume west of the 100-H Area may move toward the river. DOE is studying the size and movement of this plume.

Chromium is elevated in some deeper wells. DOE is investigating the extent of this contamination.

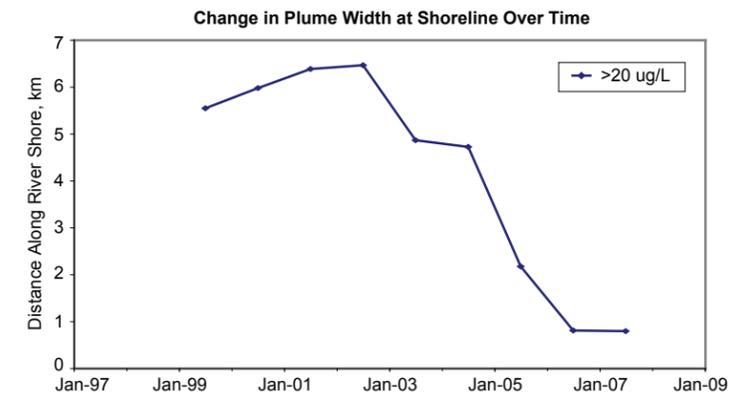
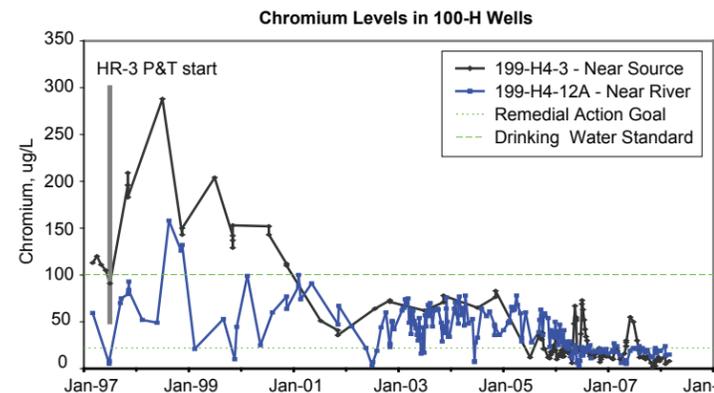
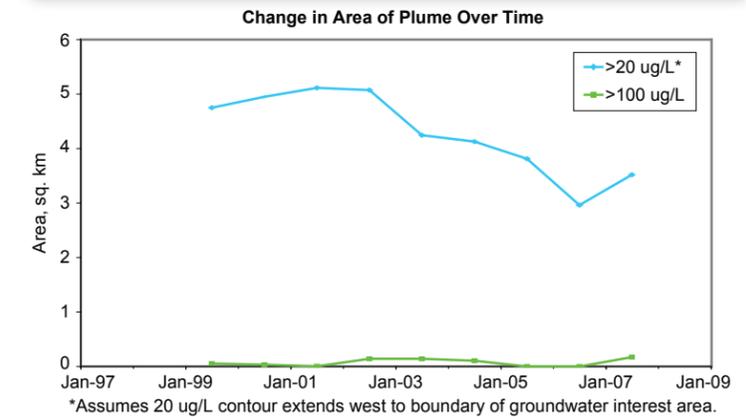
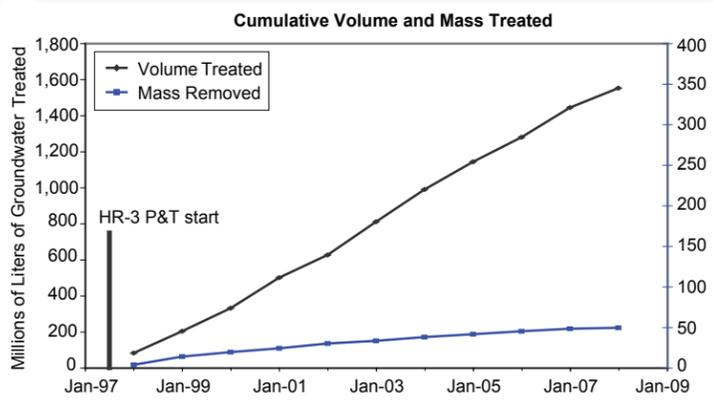
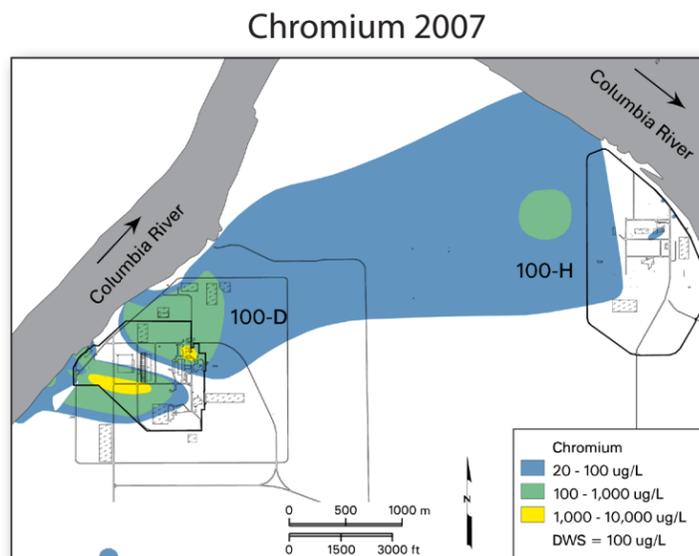
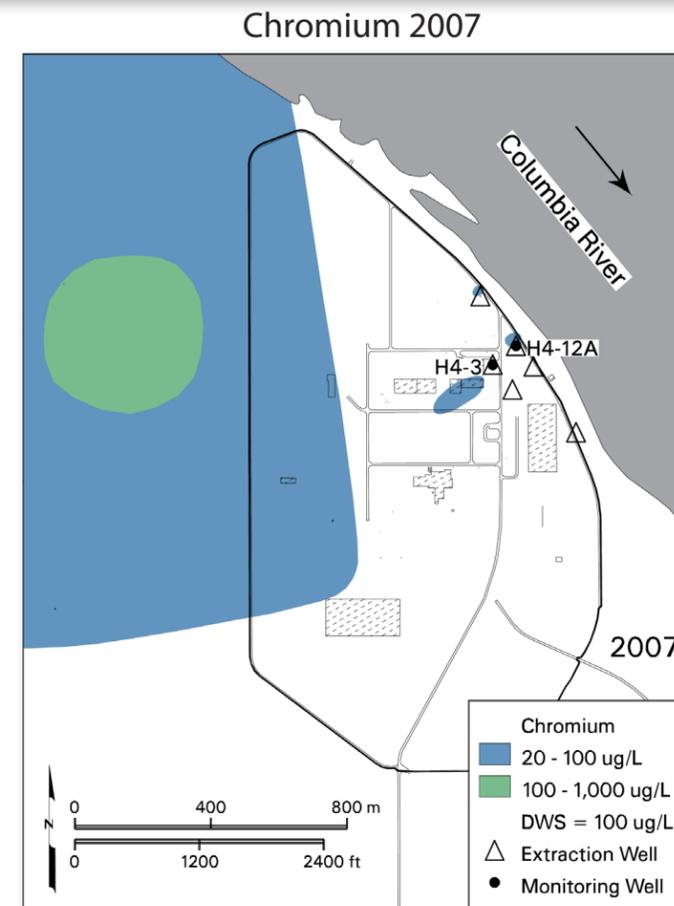
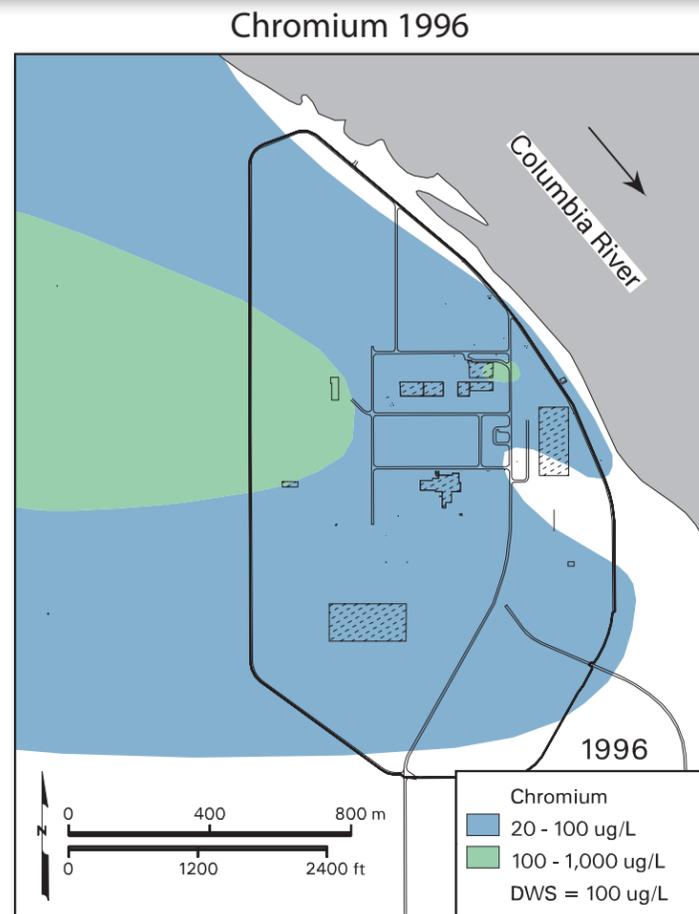
Conclusions

DOE has removed about 50 kilograms (110 pounds) of chromium from 100-H groundwater with the pump-and-treat system.

The 100-H chromium plume has shrunk to a fraction of its original size

Chromium concentrations occasionally rise above cleanup goals in some near-river wells.

7/21/08



Low levels of chromium contamination underlie the area between the 100-D and 100-H Areas. The plume migrated eastward from the 100-D Area in the past.