

# 200-BP-5 Groundwater Operable Unit



## Overview

Groundwater in the 200-BP-5 Operable Unit (central 200 East Area and north to the Columbia River) is contaminated with several mobile contaminants, including technetium-99, uranium, iodine-129, tritium and nitrate.

The B complex (B-BX-BY tank farms and surrounding waste sites) is the only area where contaminant concentrations currently are increasing significantly.

A CERCLA Remedial Investigation is underway to determine cleanup actions for the contamination.

Planned work includes installing new wells, conducting pumping tests to determine hydraulic parameters, and conducting tracer tests to study groundwater flow.

There currently is no active groundwater remediation in this unit.

## Limitations

The water table is flat in this region, so the direction and rate of groundwater flow are not known with certainty and cannot be determined by standard methods.

Multiple sources of contamination, including waste cribs and underground tanks, are located near each other, making it difficult to pin down the source of contamination.

Information about the deep vadose zone is limited.

## Conclusions

Technetium-99 and uranium concentrations have increased in recent years in some wells near the B complex.

A uranium plume has increased in size in the past 10 years.

Recent time series plume maps within the B complex area indicate groundwater is nearly stagnant.

A planned Remedial Investigation will help resolve data gaps and determine cleanup actions.

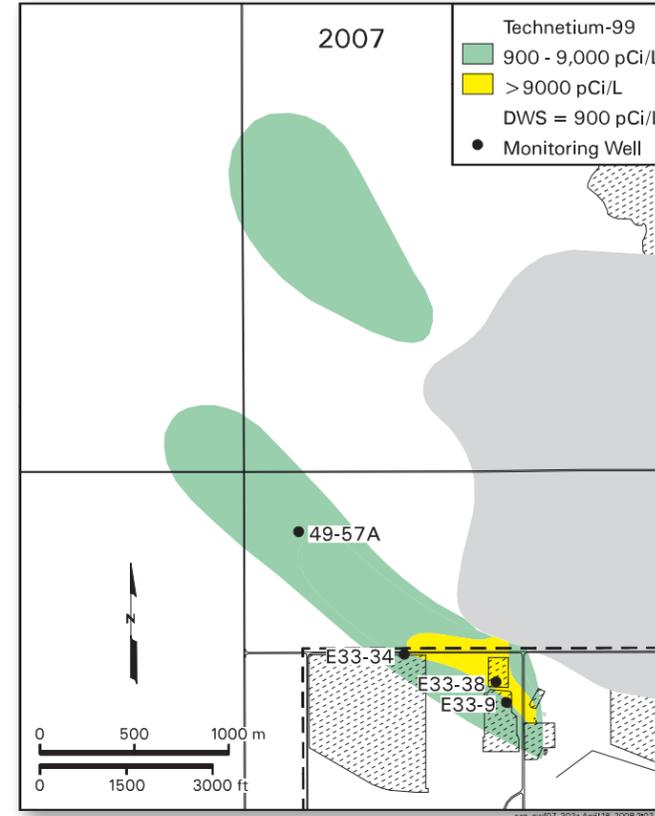
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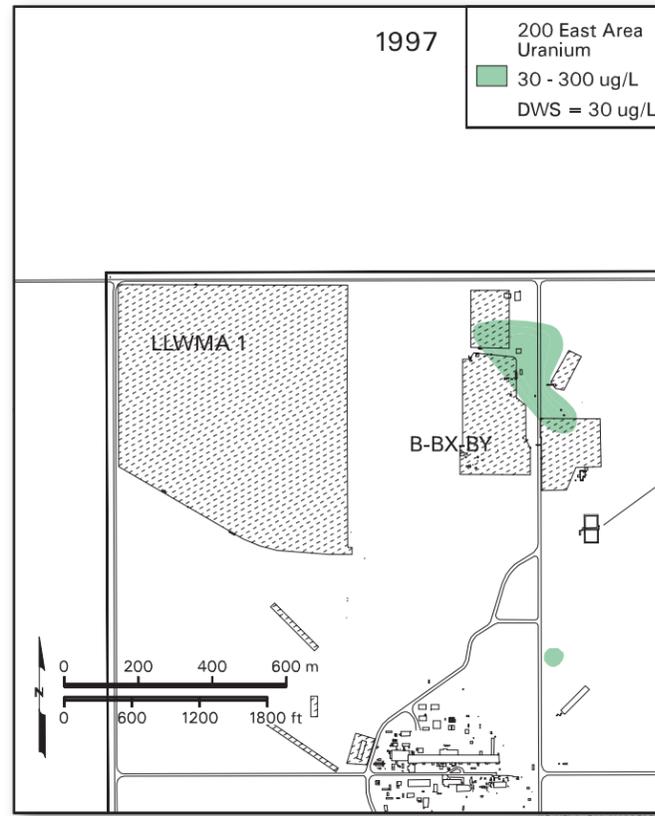
Technetium-99 1997



Technetium-99 2007



Uranium 1997



Uranium 2007

