

To: For Ballard/David Brooks Ballard/Brooks
MS 623SS PNL's plan for BWIP Env. Monitoring.
HLTR

OFF-SITE GROUND-WATER MONITORING

Future Plans

JUL 13 10:09

Vertical Characterization Project - on-site well in upper confined aquifer near Columbia River

FY 1988 - Off-site well survey (existing wells, drilling sites)

FY 1989 - Drilling of at least two off-site wells (unconfined and upper confined)

Objectives

- Better characterize the interactions between ground water (including confined aquifers) and surface water to quantify the discharge of contaminants to the Columbia River.
- Insure concerned parties that contaminants are not moving across the river and off site.

Recommendations

- Drill an on-site well to the upper confined aquifer near the river in the area of the highest tritium concentrations on site.
- Drill a well to the upper confined aquifer directly on the other side of the river (same location as above).
- Drill a well to the unconfined aquifer directly on the other side of the river (same location as above).
- Investigate the possibility of revising existing deep wells across the river that are on Federal lands.

Concerns

- Contaminants will be found in the unconfined aquifer off-site not attributable to Hanford. This will be hard to explain.
- Iodine-129 will be found at all depths to some extent, although the pathway is probably not through ground-water from Hanford operations.
- Although politically and scientifically required; initiation of off-site monitoring, both shallow and deep, will probably result in the need for numerous wells and expanded ground-water monitoring off-site.

WM Record File 101 WIA Project 10
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