

The results of these studies indicate that the modifications did not increase the mass of contaminants removed, as compared to a conventional vertical well system with no artificial recharge. Therefore, increasing the amount of water extracted from the area through the use of artificial recharge will not reduce the remediation timeframe for the contaminants of concern. The angled well even failed to produce results comparable to the vertical extraction well. This demonstrates the difficulty of siting productive wells in the complex geology of the site. The estimated sustainable yield that was determined from these studies (3 gpm) is less than that used in the Feasibility Study evaluations (10 gpm).

This report is a secondary document supporting the feasibility studies for the Groundwater Operable Unit, subject to agency review under the Federal Facility Agreement. A reevaluation of the pump and treat alternative in the study area using additional information and data presented in this report will be provided in a separate report prepared by Argonne National Laboratory. If you have any questions or comments regarding this report, please contact Tom Pauling at (636)926-7051.

Sincerely,

ORIGINAL SIGNED BY
PAMELA THOMPSON

Pamela Thompson
Project Manager
Weldon Spring Site
Remedial Action Project

Enclosure:
As stated

cc w/ enclosure:
Larry Erickson, MDNR
Ben Moore, MDNR
Myrna Rueff, MDNR-DGLS
Rick Hampel, WSCC (2 copies)
Mary Picel, ANL

cc w/o enclosure:
Rebecca Cato, PMC

EM-95:TPauling:x7051:emh:3/29/02 (m:Field Study Report - Draft to Dan)

CONCURRENCES/ REVIEWED BY:
RTG SYMBOL EM-95
INITIALS/SIG. TPauling
DATE 3/29/2002
CONCURRENCES/ REVIEWED BY:
RTG SYMBOL EM-95
INITIALS/SIG. PThompson
DATE 3/29/2002
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INITIALS/SIG.
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