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Department of Energy

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JUN 17 1997

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Mr. James A. Saric, Remedial Project Director
U.S. Environmental Protection Agency
Region V - SRF-5J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

Mr. Thomas A. Schneider, Project Manager
Ohio Environmental Protection Agency
401 East Fifth Street
Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

TRANSMITTAL OF 1) THE REMEDIAL DESIGN FACT SHEET FOR OPERABLE UNIT 5 AQUIFER RESTORATION - GROUNDWATER FINAL REMEDIATION LEVELS FOR FLUORIDE AND LEAD AND; 2) REVISED GROUNDWATER FINAL REMEDIATION LEVEL TABLE

Reference: **Letter from Mr. Johnny Reising to Mr. James A. Saric and Mr. Tom Schneider, "Transmittal of the Final Version of the Restoration Area Verification Sampling Project Specific Plan," dated May 21, 1997.**

This letter transmits the subject documentation to the Fernald Environmental Management Project (FEMP) Post-Decision File and all holders of the Operable Unit 5 Record Of Decision in accordance with the reference. As noted in the reference, the Department of Energy (DOE) FEMP, the U. S. Environmental Protection Agency (U.S. EPA) and Ohio Environmental Protection Agency (OEPA) have agreed with the changes to the groundwater final remediation levels (FRLs) for fluoride and lead. The Fact Sheet and revised groundwater FRL table have been three-hole punched so that they may be inserted into Section 9 of the Operable Unit 5 Record of Decision (ROD) for future reference.

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If you have any questions regarding this transmittal, please contact Robert Janke at (513) 648-3124 or Kathi Nickel at (513) 648-3166.

Sincerely,

Johnny Reising

Johnny W. Reising
Fernald Remedial Action
Project Manager

FEMP:Nickel

Enclosures: As Stated

cc w/enc:

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Operable Unit 5 ROD distribution list
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J. Harmon, FDF/90
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cc w/o enc:
C. Little, FDF/2
EDC, FDF/52-7

TABLE 9-4

FINAL REMEDIATION LEVELS FOR GREAT MIAMI AQUIFER GROUNDWATER

Constituent	Final Remediation Levels
Radionuclides (pCi/L)	
Neptunium-237(+1d)	1.0×10^{0}
Radium-226(+8d)	2.0×10^{1}
Radium-228(+1d)	2.0×10^{1}
Strontium-90(+1d)	8.0×10^{0}
Technetium-99	9.4×10^{1}
Thorium-228(+7d)	4.0×10^{0}
Thorium-230	1.5×10^{1}
Thorium-232+(10d)	1.2×10^{0}
Uranium, total (mg/L)	2.0×10^{-2}
Chemicals (mg/L)	
Alpha-chlordane	2.0×10^{-3}
Antimony	6.0×10^{-3}
Aroclor-1254	2.0×10^{-4}
Arsenic	5.0×10^{-2}
Barium	2.0×10^{0}
Benzene	5.0×10^{-3}
Beryllium	4.0×10^{-3}
Bis(2-chloroisopropyl)ether	5.0×10^{-3}
Bis(2-ethylhexyl)phthalate	6.0×10^{-3}
Boron	3.3×10^{-1}
Bromodichloromethane	1.0×10^{-1}
Bromomethane	2.1×10^{-3}
Cadmium	1.4×10^{-2}
Carbazole	1.1×10^{-2}
Carbon disulfide	5.5×10^{-3}
Chloroethane	1.0×10^{-3}
Chloroform	1.0×10^{-1}
Chromium VI	2.2×10^{-2}
Cobalt	1.7×10^{-1}

TABLE 9-4
(Continued)

Constituent	Final Remediation Levels
Chemicals (Cont.) (mg/L)	
Copper	1.3×10^{0}
1,1-Dichloroethane	2.8×10^{-1}
1,1-Dichloroethene	7.0×10^{-3}
1,2-Dichloroethane	5.0×10^{-3}
Fluoride	4.0×10^{0}
Lead	1.5×10^{-2}
Manganese	9.0×10^{-1}
Mercury	2.0×10^{-3}
Methylene chloride	5.0×10^{-3}
4-Methylphenol	2.9×10^{-2}
Molybdenum	1.0×10^{-1}
Nickel	1.0×10^{-1}
Nitrate	1.1×10^{1}
4-Nitrophenol	3.2×10^{-1}
Octachlorodibenzo-p-dioxin	1.0×10^{-7}
Selenium	5.0×10^{-2}
Silver	5.0×10^{-2}
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.0×10^{-5}
Trichloroethene	5.0×10^{-3}
Vanadium	3.8×10^{-2}
Vinyl chloride	2.0×10^{-3}
Zinc	2.1×10^{-2}