

## US Department of Energy Groundwater Database Groundwater Master Report

**Installation Name, State:** Fernald Environmental Management Project  
**Responsible DOE Office:** Office of Legacy Management

**Plume Name:** Fernald  
**Remediation Contractor:** S.M. Stoller

**Report Last Updated:** 2009

### Contaminants

Halogenated VOCs/SVOCs Present? **Yes**

VOC Name	Concentration (ppb)	Regulatory Driver	Cleanup Requirement
TCE	120	Yes	5
carbon disulfide	14	Yes	5.5

Fuel Present? **Yes**

Metals Present? **Yes**

Metal Name	Metal Concentration (ppb)	Regulatory Driver	Cleanup Requirement
Mn	11400	Yes	900
Mo	690	Yes	100
U	1586	Yes	30
Ni	134	Yes	100
Zn	155	Yes	21

Isotopes Present? **Yes**

Isotope Name	Isotope Activity (pCi/l)	Regulatory Driver	Cleanup Requirement
Tc	1352	Yes	94

Explosives Present? **Yes**

Other Contaminants? **No**

Tritium Present? **No**

Nitrates Present? **Yes**    Concentration: **109000** (ppb)    Regulatory Driver: **Yes**    Cleanup Requirement: **11000** (pCi/l)

Sulfates Present? **No**

### Hydrogeology

Conduit Flow? **No**

Depth (feet): **20**

Multiple Units Affected? **No**

Avg Velocity (feet/year): **700**

### Plume Information (no source)

Source **Not Present**

Area of Plume (acres): **186**

Plume Status **Contaminants Offsite**

### Remedial Approach

Remedy Name	Status	Start Date	End Date
pump and treat	Confirmed	1993	2026

### Groundwater Use / Exit Strategy

Potable? **Yes**

Does an Exit Strategy Exist? **Yes**

Sole Source Aquifer? **Yes**

Basis for Exit Strategy: **Target Concentration**

### Environmental Indicators (EIs)

Groundwater Migration Under Control? **Yes**

Current Human Exposure Acceptable? **Yes**

Confirmed by Lead Regulator? **Yes**

Confirmed by Lead Regulator? **Yes**

**Regulatory**

Decision Document? **Decision Document in Place**  
Date Approved **01/01/1996**

Lead Regulatory Agency: **Federal**  
Regulatory Driver: **CERCLA**

Regulatory Position on Groundwater Use Same as Site? **Yes**

**Comments**