

US Department of Energy Groundwater Database Groundwater Master Report

Installation Name, State: New Rifle
Responsible DOE Office: Office of Legacy Management

Plume Name: New Rifle
Remediation Contractor: Unknown

Report Last Updated: 2009

Contaminants

Halogenated VOCs/SVOCs Present? **No**

Fuel Present? **No**

Metals Present? **Yes**

Metal Name	Metal Concentration (ppb)	Regulatory Driver	Cleanup Requirement
V	86	Yes	44
Mo	828	Yes	100
U	1593	No	

Isotopes Present? **No**

Explosives Present? **Yes**

Other Contaminants? **No**

Tritium Present? **No**

Nitrates Present? **Yes** Concentration: **24000** (ppb) Regulatory Driver: **Yes** Cleanup Requirement: **10000** (pCi/l)

Sulfates Present? **Yes** Concentration: (ppb)

Hydrogeology

Conduit Flow? **No**

Depth (feet): **25**

Multiple Units Affected? **No**

Avg Velocity (feet/year): **292**

Plume Information (no source)

Source **Controlled**

Area of Plume (acres): **664**

Plume Status **Contaminants Offsite**

Remedial Approach

Remedy Name	Status	Start Date	End Date
natural flushing	Proposed		

Groundwater Use / Exit Strategy

Potable? **No**

Does an Exit Strategy Exist? **Yes**

Sole Source Aquifer? **No**

Basis for Exit Strategy: **Target Concentration**

Environmental Indicators (EIs)

Groundwater Migration Under Control? **Yes**

Current Human Exposure Acceptable? **Yes**

Confirmed by Lead Regulator? **No**

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Regulatory

Decision Document? **Remedial Approach Proposed**
Date Approved

Lead Regulatory Agency: **Federal**
Regulatory Driver: **Other**

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

Comments

Natural flushing estimated to end 100 from start. Sulfate concentration below EPA recommended concentration of 250 mg/L, no longer measured Documents consulted are the 2008 Verification Monitoring Report for the New and Old Rifle Processing Sites, the New and Old Rifle Ground Water Compliance Action Plans, and the New and Old Rifle Site Observational Work Plans. NRC, the prime regulator, has concurred with the compliance strategy for Old Rifle Processing Site and has not finished its review of the

New Rifle Processing Site. The compliance strategy for Old Rifle is natural flushing for U and Se, with an alternate concentration limit for V. The proposed compliance strategy for New Rifle is also natural flushing for U, NO₃, and Mo, with an alternate concentration limit for V.