

**Table A-11.B. Evaluation factors for electrical resistance heating**

Remedial time frame	Concern	Very low
	Discussion	Typical heating times are 6 to 12 months.
Safety	Concern	High
	Discussion	Electric equipment and cables on the ground. Possible steam eruption from wells.
Waste management	Concern	Moderate
	Discussion	Collect LNAPL from recovery wells and treat the vapors.
Community concerns	Concern	Low to moderate
	Discussion	Concern with technology that is unfamiliar to general public. Electrical and process equipment, high-voltage and high-temperature warnings, piping, and electrical cables are likely to cause concern. Potential concerns over odors and volatile emissions. Noise is often the greatest issue for nearby neighbors.
Carbon footprint/energy requirements	Concern	Moderate
	Discussion	Electric generation and vapor treatment offset by short duration of remediation. Carbon footprint is lower than SVE at ambient temperatures.
Site restrictions	Concern	High
	Discussion	Electric cables on the ground; subsurface utility concerns, and need to restrict access during application. Equipment can be installed below grade so that access can be maintained during treatment.
LNAPL body size	Concern	Moderate
	Discussion	Capable of remediating large LNAPL sources. Lithology and permeability determine the spacing between electrodes (generally 20 - 40 feet) and placement of recovery wells and vapor extraction wells.
Other regulations	Concern	Moderate
	Discussion	Permit to inject water, vapor emissions.
Cost	Concern	Moderate to high
	Discussion	High electric costs (10 - 20% of total costs) and high operation and maintenance costs. Short duration can make present value cost-competitive.
Other	Concern	Low
	Discussion	Need to keep electrodes moist to maintain current. Some water injection may be required.