



Massachusetts Camp Edwards

Facility and Location

Camp Edwards is located with Otis Air National Guard Base at the Massachusetts Military Reservation on Cape Cod. Camp Edwards' mission is to train soldiers in the Army National Guard and the Army Reserve.

Media Sampled and Findings

Groundwater — In 2011, 1,036 of 1,534 samples detected perchlorate from 0.01 to 198 ppb. In 2010, 1072 of 1369 samples detected perchlorate from 0.01 to 179 ppb. In 2009, 418 of 700 samples detected perchlorate from 0.04 to 116 ppb. In 2008, 302 of 798 samples detected perchlorate from 0.23 to 387 ppb. In 2007, 223 of 223 samples detected perchlorate from 0.22 to 299 ppb.

Sediment — In 2008, one sample reported no detection.

Soil — In 2011, 26 of 58 samples detected perchlorate from 0.02 to 185 ppb. In 2010, 19 of 29 samples detected perchlorate from 0.16 to 0.8 ppb. In 2009, 41 of 42 samples detected perchlorate from 0.13 to 98.4 ppb. In 2008, 69 of 249 samples detected perchlorate from 0.09 to 8,060 ppb. In 2007, 78 of 78 samples detected perchlorate from 0.26 to 5,070 ppb.

Appropriate Actions

Groundwater concentrations were above the EPA and DoD Preliminary Remediation Goal of 15 ppb. Soil concentrations were below the Massachusetts Upper Concentration Limit for screening level in soils of 50,000 ppb. Camp Edwards is continuing the Impact Area Groundwater Study Program, a comprehensive environmental restoration program including soil and groundwater sampling started in 2000, in coordination with the Massachusetts Department of Environmental Protection and EPA Region I under the authority of the Safe Drinking Water Act to address perchlorate levels. At J-1 range, a Remedial Investigation and Feasibility Study (RI/FS) was complete. At Demo 1, a groundwater extraction, treatment, and reinjection system (pump and treat) is currently treating groundwater. All systems use an extraction/treatment/reinjection process. An additional treatment system will be added in the future. At J-2 range, the groundwater extraction, treatment, and reinjection system (pump and treat) is currently treating groundwater at a rate of 800 gallons per minute. At the former K range, soil sample results are below the Massachusetts soil cleanup standard of 100 ppb and not suspected to result in a significant groundwater impact. No further action is proposed for perchlorate in soil at former K range and regulators have concurred. At location CIA, perchlorate in groundwater is comingled with RDX. The site is proceeding through the RI/FS process. A Remedial Action is being conducted to remove the source of the perchlorate and a groundwater treatment system will likely be constructed.