United Heckathorn Superfund Site

Date | Event
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1947-1966 | Site used to formulate and package pesticides, 95% DDT, until bankruptcy
1980 | CA Dept. of Health Services investigates site
1982 | Site listed by CDHS as a State Superfund Site
1990 | EPA lists site on NPL and later that year assumes lead
1990 | EPA directs PRP to excavate over 1500 yd$^3$ of soil and pesticide residue from Lauritzen Channel embankment
1991 | Excavation at the foundation of the former facility revealed a pesticide deposit beneath the foundation; another 1800 yd$^3$ removed
1993 | Final removal action
1994 | DTSC issues advisory against consuming bottom fish from the Inner Richmond Harbor
1995 | EPA completes Feasibility Study and signs Record of Decision Remediation Goals:
   - DDT in Sediment (590 ug/kg)
   - DDT in Surface Water (0.59 ng/L)
   - Dieldrin in Surface Water (0.14 ng/L)
1996-1997 | Dredging of Parr Canal and Lauritzen Channel: 107,000 yd$^3$ of DDT-contaminated sediment, containing an estimated 3 tons of DDT, were dredged from the Lauritzen Channel & Parr Canal and disposed off site.
   Median DDT concentrations dropped from 47,000 µg/kg in the Lauritzen Channel and 840 µg/kg at Parr Canal to average of 263 µg/kg in Lauritzen Channel and 200 µg/kg in Parr Canal. EPA then covered the channel beds with 18 in. of clean sand.
1997 | Post-remediation monitoring (collection of water, mussel and sediment) begins to evaluate the effectiveness of the cleanup
1998-1999 | Upland area cap constructed
2001 | 1st Five-Year Review concludes remedial goals have not been maintained; concentrations elevated in Lauritzen Channel (median concentration of DDT (1,594 ug/kg))
2002-2008 | Site investigations to identify potential sources of recontamination and to quantify extent of recontamination
2003 | Abandoned pipe discharging to Lauritzen Channel plugged
2006 | 2nd Five-Year Review concludes remedial goals have not been maintained; recommends preparation of feasibility study to evaluate cleanup options
2007-2009 | Continued monitoring (collection of water, mussel, sediment and fish) to evaluate the effectiveness of the cleanup
2008-2010 | Revised human health and ecological risk information based on current site conditions
May 2011 | Updated Fish Advisory for the Lauritzen Channel recommending no fish consumption
September 2011 | 3rd Five-Year Review concludes EPA should continue with feasibility study to evaluate cleanup options and State update fish advisory signs.
November 2011 | Sediment experts review existing data and recommend that before proceeding with FS, EPA should:
   1) Determine the source of DDT recontaminating the Lauritzen Channel
   2) Better understand sediment movement in and out of the Channel