

FILE HSW-A LANL GEN/MISC / 5



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Ground Water Protection and Remediation Bureau



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MEMORANDUM

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From: John Rogers, ^{HR} Environmental Specialist, GWQB/AAS

Subject: Los Alamos National Laboratory's (LANL) preliminary COPECs list

Date: November 22, 1996

At an Ecological Risk Assessment meeting with NMED personnel on October 23, 1996, LANL presented a list (attached) of preliminary COPECs (Contaminants Of Potential Ecological Concern). The purpose of this list is to allow LANL to move ahead in developing a toxicological database for their ecological risk assessment methodology. The COPECs list is not intended to be a list of analytes tested for at specific EEUs (Ecological Exposure Units). EEUs are geographical ecological units defined on the basis of habitat types within LANLs boundaries. It is my understanding that this preliminary list was developed for soils and that an additional COPECs list is being prepared for terrestrial aquatic communities. LANL has requested that NMED comment on the attached COPECs list and that all comments be consolidated by HRMB. The following represents the comments of the GWQB:

I recommend that the following constituents be added to the preliminary COPECs list for the following reasons:

- 1) Nitrate (NO₃ as N) and 1,2 dichloroethane (EDC). These contaminants have been found in ground water at LANL (e.g., Mortandad Canyon and TA-18).
- 2) 1,1,2,2-tetrachloroethylene (PCE), 1,1,2,2-tetrachloroethane, 1,1,1 trichloroethane, 1,1,2-trichloroethane, trans-1,2-dichloroethylene, cis-1,2-dichloroethylene, 1,1-dichloroethylene, 1,1-dichloroethane, and vinyl chloride. These represent the parent and breakdown products of TCE (on COPECs list) and EDC (known contaminant at LANL) and are listed in WQCC Regulations 3103 and 1101.TT.



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Core COPEC List for Screening

Analyte Suite	COPEC	Analyte Suite	COPEC
Inorganic	Silver (Ag)	VOC	TCE
Inorganic	Aluminum (Al)	VOC	Benzene
Inorganic	Antimony (Sb)	VOC	1,4-Dichlorobenzene
Inorganic	Arsenic (As)		
Inorganic	Barium (Ba)		
Inorganic	Beryllium (Be)	High Explosive	DNT
Inorganic	Cadmium (Cd)	High Explosive	HMX
Inorganic	Chromium (Cr)	High Explosive	RDX
Inorganic	Copper (Cu)	High Explosive	TNT
Inorganic	Lead (Pb)		
Inorganic	Manganese (Mn)	Radionuclide	Americium (Am)
Inorganic	Mercury (Hg)	Radionuclide	Cesium (Cs)
Inorganic	Nickel (Ni)	Radionuclide	Plutonium (Pu)
Inorganic	Thallium (Tl)	Radionuclide	Radium (Ra)
Inorganic	Uranium (U)	Radionuclide	Strontium (Sr)
Inorganic	Vanadium (V)	Radionuclide	Thorium (Th)
Inorganic	Zinc (Zn)	Radionuclide	Tritium (H ³)
		Radionuclide	Uranium (U)
SVOC	Anthracene		
SVOC	Phenanthrene	Pesticide	Aldrin
SVOC	Pyrene	Pesticide	Chlordane
SVOC	Benzo[a]pyrene	Pesticide	DDE
SVOC	PCBs	Pesticide	DDT
		Pesticide	Dieldrin
		Pesticide	Lindane