

# Los Alamos

NATIONAL LABORATORY

Los Alamos National Laboratory  
Los Alamos, New Mexico 87545

General

Date: February 19, 2002

In Reply Refer To: ESH-18/WQ&amp;H:02-073

Mail Stop: K497

Telephone: (505) 665-4681

General

ERG

Attn: Meetings  
110 Hartwell Ave.  
Lexington, MA 02421

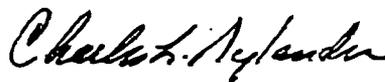
**SUBJECT: LOS ALAMOS NATIONAL LABORATORY COMMENTS ON  
PERCHLORATE DOCUMENT**

Attached are Los Alamos National Laboratory comments regarding the external review draft of Perchlorate Environmental Contamination: Toxicological Review and Risk Characterization.

1. Additional animal studies for the purpose of refining the draft perchlorate oral reference dose, and/or for developing a drinking water standard, should be designed to measure neurodevelopmental and neurobehavioral effects rather than surrogates such as inhibition of iodine uptake, blood levels of hormones, or brain morphometry.
2. Well-designed studies on adverse effects in humans should be emphasized for refining the draft perchlorate oral reference dose, and/or for developing a drinking water standard. Obtaining such information seems feasible since several large public water supplies are impacted by perchlorate, and chronic exposures have apparently occurred at concentrations well above 1 ppb.
3. The concentrations of other trace contaminants in groundwater should be factored into studies based on human exposure because of the potential for interactive effects among chemicals.

We appreciate the opportunity to provide comments on this document. If you have any questions regarding the enclosed comments, please contact me at (505) 665-4681 (nylander@lanl.gov).

Sincerely,



Charles Nylander  
Program Manager  
Water Quality and Hydrology Group

CN/tml

Attachments: a/s

Cy: S. Rae, ESH-18, w/att., MS K497  
WQ&H File, w/att., MS K497  
IM-5, w/att., MS A150



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