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File *—*



State of New Mexico
ENVIRONMENT DEPARTMENT
DOE OVERSIGHT BUREAU
P.O. Box 1663, MS/J-993
Los Alamos, New Mexico 87545



GARY JOHNSON
GOVERNOR

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LANL (General Groundwater)

October 18, 1999

Joe Vozella, LAAO
AIP Point of Contact
U.S. Department of Energy
Los Alamos Area Office
528 35th Street, MS A316
Los Alamos, NM 87544

RECEIVED
OCT 22 1999
DOE OVERSIGHT BUREAU

RE: Corrections and additional groundwater data related to the sampling of production wells at Los Alamos National Laboratory and surrounding areas during 1999.

Dear Mr. Vozella:

On October 5, 1999 NMED DOE-OB released tritium(H^3) and strontium-90(Sr^{90}) data related to groundwater samples at three(3) drinking-water production wells at Los Alamos National Laboratory and surrounding areas in a letter dated June 6, 1999. The data submitted to NMED DOE-OB for tritium is reported in TU(Tritium Units) and is converted to pCi/L using the conversion factor detailed in the narrative report incident with the data package received from the University of Miami. The data released on October 5, 1999 was incorrectly converted using 1 TU=3.237 pCi/L. This data release details corrected tritium values using a conversion factor of 1 TU=3.193 pCi/L. Further, results concerning ammonia and nitrate/nitrite data have recently been received and are included with this correction/data release.

Due to these results and those detailed in a similar May 14, 1999 letter "Release of ground-water data related to the sampling of production wells at LANL and surrounding areas. . .", NMED DOE-OB White Rock Office is interested in sampling production wells during November or December of 1999.

If you have any questions concerning these datum please contact Michael Dale at 672-449 or Robert Wingo at 672-3151.

Sincerely,
Stephen Yanicak

Steve Yanicak, LANL POC
Department of Energy Oversight Bureau

SY:rmw



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LANL/ES Miscellaneous

Attachments - Tables 1 and A

cc: J. Parker, NMED, Chief, DOE Oversight Bureau, w/att
T. Taylor, DOE LAAO, Program Manager, EM/ER, MS A316, w/att
S. Rae, LANL, ESH-18/Group Leader, MS K490, w/att
A. Pratt, LANL, ER/FPL, MS J521, w/att

Table 1: Corrected NMED DOE-OB Data Release for Tritium¹, Strontium-90², Ammonia-N³ and Nitrate/Nitrite⁴ for Guaje Replacement Well 4(GR-4), Otowi 1 and Production Well 4(PM-4).

<u>Well ID:</u>	<u>Tritium</u> pCi/L	SD-2 sigma	DL	<u>Strontium-90</u> pCi/L	SD-2 sigma	DL	<u>Ammonia-N</u> mg/L	DL	<u>Nitrate/Nitrite</u> mg/L	DL
GR-4	-0.26	0.57	0.29	0.08	0.38	0.66	ND	0.03	0.45	0.01
Otowi 1	39.91	2.55	1.27	-0.11	0.41	0.75	ND	0.03	1.1	0.01
PM-4*	0.19	0.57	0.29	0.30	0.41	0.67	0.067	0.03	0.42	0.01

* average of duplicate runs

ND-not detected

¹ 50x enrichment, Univ. of Miami, Rosenstiel School of Marine and Atmospheric Science, Tritium Laboratory

² Method ASTM D5811-95

³ Method EPA 350.1

⁴ Method EPA 353.2

Table 1A: Incorrect data released October 5, 1999 NMED DOE-OB

<u>Well ID:</u>	<u>Tritium</u> pCi/L	SD-2 sigma	DL	<u>Strontium-90</u> pCi/L	SD-2 sigma	DL
GR-4	-0.06	0.29	0.35	0.08	0.38	0.15
Otowi 1	40.46	1.29	0.35	-0.11	0.41	0.15
PM-4*	0.19	0.29	0.35	0.30	0.41	0.15