

Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

DATE: August 4, 1993
IN REPLY REFER TO: EM-8-93-2159
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LANL / ER / 0V 1144

Honorable Gilbert Sanchez, Lieutenant Governor
Pueblo de San Ildefonso
Route 5, Box 315A
Santa Fe, NM 87501

FAX. Number: 455-7351

well DT-5A TA-49

Dear Gilbert:

As promised at our meeting in July, this letter is to provide you with the results of lead analyses on water samples from wells on San Ildefonso lands. The lead analyses for samples collected during May 1993 were all completed during the week of July 26.

The results for wells that supply drinking water on San Ildefonso lands were all below the New Mexico Environment Department standard (0.050 mg/L) and, in addition, were also below the new Environmental Protection Agency Action Level applicable to water from a user faucet (0.015 mg/L). Samples were also taken from two artesian wells not currently used, two BIA monitor wells for the underground storage tank area at Totavi, and three shallow wellpoints in Los Alamos Canyon alluvium installed by the Bureau of Indian Affairs (BIA). Four samples from the Totavi monitor wells and the wellpoints had detectable lead ranging from 0.020 to 0.160 mg/L. The results are as follows:

Well Location	Result (mg/L)
LA-1B (Old Supply Well)	< 0.006
LA-1A (Observation Well)	< 0.001 (Bailed)
LA-1A (Observation Well)	0.010 (Pumped)
LA-2 (Old Supply Well)	< 0.006
LA-5 (supply for Totavi)	< 0.006
New Community Well	< 0.001
Pajarito Well Pump 2	< 0.001
East Artesian Well	< 0.001
Westside Artesian Well	< 0.001
Don Juan Well	< 0.001
Otowi House Well	< 0.001
Halladay House Well	< 0.001
Martinez House Well	< 0.001
Sanchez House Well	< 0.001
Totavi Monitor Well 2	< 0.001
Totavi Monitor Well North	0.034
BIA Well Point LA1	0.099
BIA Well Point LA2	0.160
BIA Well Point LA3	0.020



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Honorable G. Sanchez
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August 4, 1993

In addition to the specific San Ildefonso results listed we are providing as an attachment an updated copy of the table we gave you at our meeting. The updated table is a summary of lead results in the Los Alamos supply wells and test wells revised to include the most recent data on lead analyses through the end of July. Four of the new results for samples collected on 6/2/93 showed lead level below the standard or action levels. One sample, for Supply Well Guaje Well 1A (G-1A), showed a level of 0.039 mg/L, which is within the NMED standard, but would be above the EPA Action Level if it were from a consumer tap.

Samples from the Los Alamos Distribution system taken in April 1993 were analyzed by the New Mexico Scientific Laboratory Division for compliance with the Safe Drinking Water Act regulations. We were advised by telephone on July 23, 1993 that those samples showed no detectable lead.

To keep you informed of present planning efforts for further sampling, we are attaching a copy of the proposed additional sampling program. Jeanne Lubbering of the Pueblo Office of Environmental Protection was at the meeting discussing ideas for the plan.

We hope this keeps you appropriately informed of the current status of this issue, and will provide future updates as needed. Please do not hesitate to call us should you have questions.

Sincerely,



Kenneth M. Hargis,
Group Leader,
Environmental Protection Group

KMH/AS:smm

Attachments: a/s

Cy: H. Otway, LANL Directors Office, FAX No. 667-7530
A. Puglisi, DOE/LAAO, Scientech, FAX No. 667-8038
B. White, BIA Albuquerque Area Office, FAX No. 766-3174
J. Lubbering, Pueblo Office of Environmental
Protection, FAX No. 883-7641
B. Swanton, NMED/AIP, FAX No. 827-4361
CRM-1, MS A150
Circ. File

SUMMARY OF LEAD ANALYSES IN TEST WELLS
(Updated to August 4, 1993)

(Values reported in milligrams/Liter, mg/L)
(Samples were unfiltered, analyses for Total Recoverable Pb)

NMED drinking water standard is 0.05 milligrams/Liter (values exceeding this level highlighted); EPA Action Level is 0.015 milligrams/Liter

Test Wells	1988		1991		1992		1993	
	Result	date sampled	Result	date sampled	Result	date sampled	Result	date sampled
TW-1	<0.01	3/88	0.022	9/23/91	0.010	10/8/92 ^a	1.04 ^f	5/19/93 ^e
TW-2	Out of Service		0.053	5/22/91	0.008	10/8/92 ^a	0.03	5/19/93 ^e
TW-3	<0.01	3/88	0.001	5/21/91	Out of Service		0.009	5/20/93 ^e
TW-4	No Pump		No Pump		No Pump		0.06	5/19/93 ^e
TW-8	0.061	3/88	0.036	9/23/91	Out of Service		Out of Service	
DT-5A	0.041	3/88	0.033	9/23/91	0.209 ^f	11/18/92 ^b	9.0 ^g	5/20/93 ^e
DT-9	0.017	3/88	0.026	9/23/91	0.055	2/25/93 ^c	0.053	5/20/93 ^e
DT-10	0.031	3/88	0.028	9/23/91	0.050	2/25/93 ^c	0.075	5/20/93 ^e
Supply Wells^h								
PM-1	0.007		0.002	5/9/91	<0.001	8/18/92	0.001	6/2/93 ^g
PM-2	0.002		<0.001	5/9/91	<0.001	8/18/92	<0.001	5/19/93 ^e
PM-3	0.006		0.002	5/9/91	<0.001	8/18/92	<0.006	5/19/93 ^e
PM-4	Out of Service		<0.001	5/9/91	Out of Service		To be sampled	
PM-5	<0.001		0.003	5/9/91	<0.001	8/18/92	To be sampled	
G-1	0.001		0.049	5/9/91	<0.001	8/18/92	To be sampled	
G-1A	<0.001		0.001	5/9/91	<0.001	8/18/92	0.008	3/2/93 ^g
G-2	0.002		<0.001	5/9/91	<0.001	8/18/92	0.039	3/2/93 ^g
G-4	<0.001		<0.001	5/9/91	<0.001	8/18/92	To be sampled	
G-5	<0.001		0.095	5/9/91	<0.001	8/18/92	0.006	3/2/93 ^g
G-6	<0.001		0.007	5/9/91	0.0011	8/18/92	To be sampled	
O-4	N/A		0.003	4/90 ^d	Not in service		0.01	5/20/93 ^e
							0.007	6/2/93 ^g

^e Analysis completed 3/19/93, resampling planned at end of May

^t Analysis completed 3/28/93, resampling planned at end of May

^c Analysis completed 4/27/93, resampling planned at end of May

^c Sampled during testpumping

^e Analysis completed 7/12/93

^f Additional sample collected at same time, but filtered through 0.45 micron filters showed 0.011 milligrams/Liter (TW-1, 5/19/93); 0.030 milligrams/Liter (DT-5A, 9/23/91); 0.037 milligrams/Liter (DT-5A, 5/20/93).

^g Analysis completed 7/26/93

^h In addition to the listed, currently used public water supply wells, three old supply wells in Lower Los Alamos Canyon, LA-1B, LA-2, and LA-3 (now owned by San Ildefonso), were sampled on 5/12/93; lead analyses were all less than detection limit of 0.006 mg/L. Two private household wells (Otowi House and Halladay House), also in Lower Los Alamos Canyon, were sampled on 5/12/93; lead results were less than detection limit of 0.001 mg/L