General

· Darlene 12/16/99
Bruce 12/16
Sandra 3/28
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

PETE MAGGIORE
SECRETARY

mailed

LANL | ES Data | GW

November 19, 1999

RECEIVED
NOV 22 1999
DOE OVERSIGHT BUREAU

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

RE: Release of ground-water data related to split-sampling and independent sampling at Los Alamos National Laboratory and surrounding areas during 1998

Dear Mr. Vozella:

The DOE Oversight Bureau (DOE OB) collected ground-water samples at Los Alamos National Laboratory and surrounding areas throughout 1998, and the attached preliminary data are being submitted for your thirty-day review as stated in the Agreement-in-Principle Umbrella Protocol. After you have had the opportunity to review and comment on these data, they will be released to applicable agencies thirty (30) days following your receipt of this letter. These data are currently being incorporated into a formal report titled "Ground-Water Quality Oversight at Los Alamos National Laboratory and Surrounding Areas, 1996 through 1998"; the report (draft version) is planned to be released to DOE and LANL by March, 2000. Contact Robert Wingo 672-3151 or Michael Dale at 672-0449 if you have any questions concerning this matter.

Sincerely,

Stephen Yanicak

Steve Yanicak, LANL POC
Department of Energy Oversight Bureau

SY:mrd

Attachments
cc: J. Parker, NMED, Chief, DOE Oversight Bureau
T. Taylor, DOE LAAO, Program Manager, EM/ER, MS A316
S. Rae, LANL, LANL, ESH-18/Group Leader, MS K490
J. Canepa, LANL, ER Project Manager, MS M992

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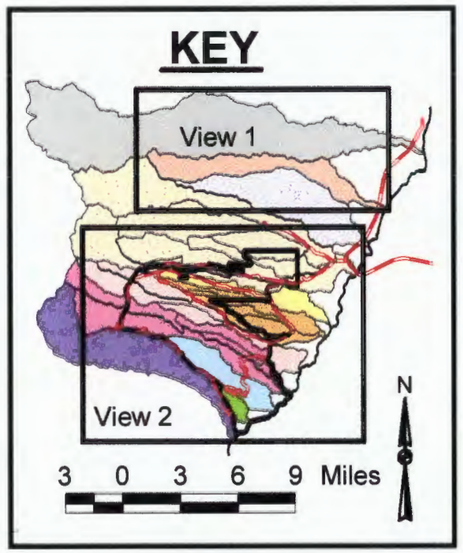
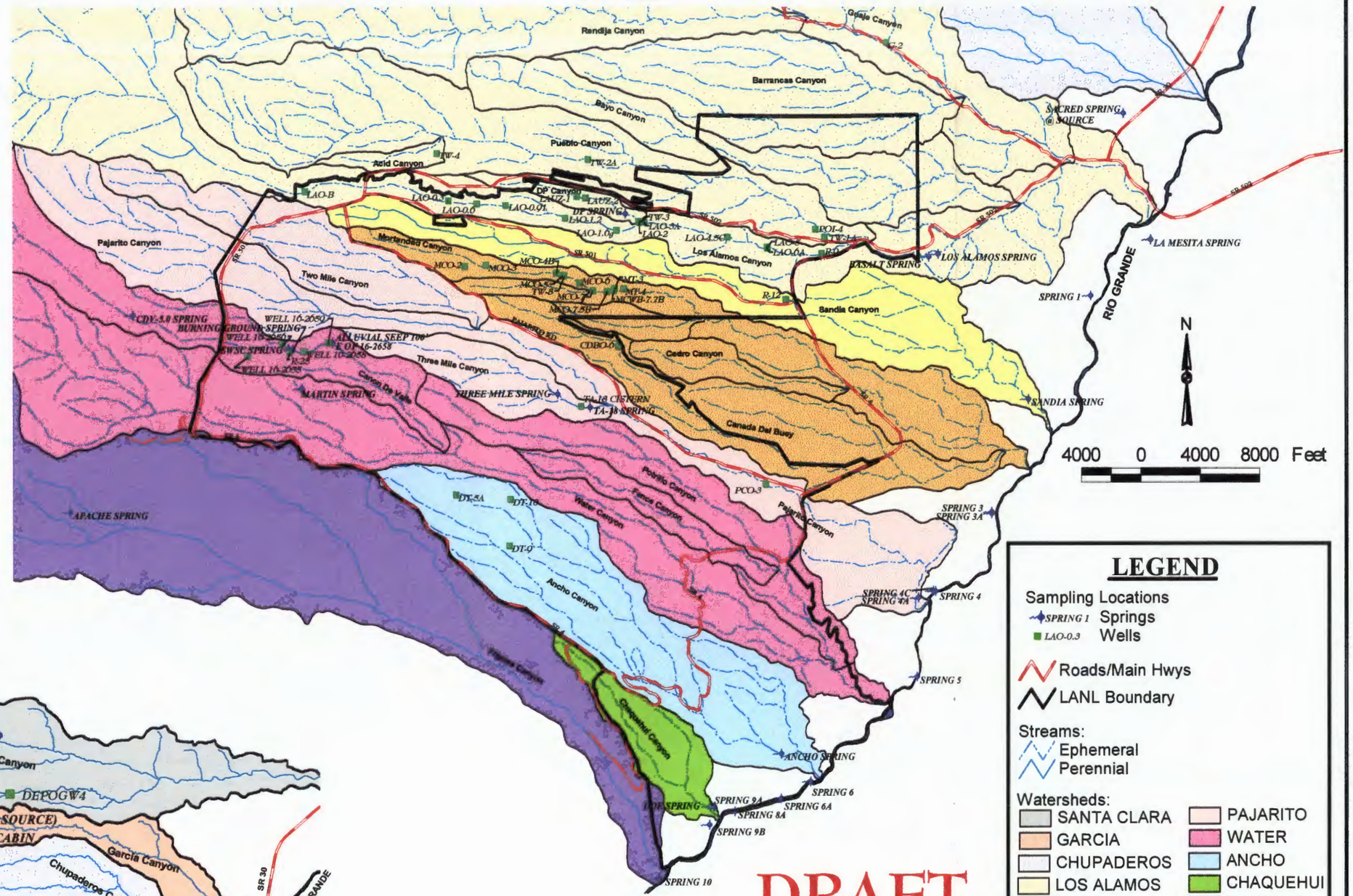
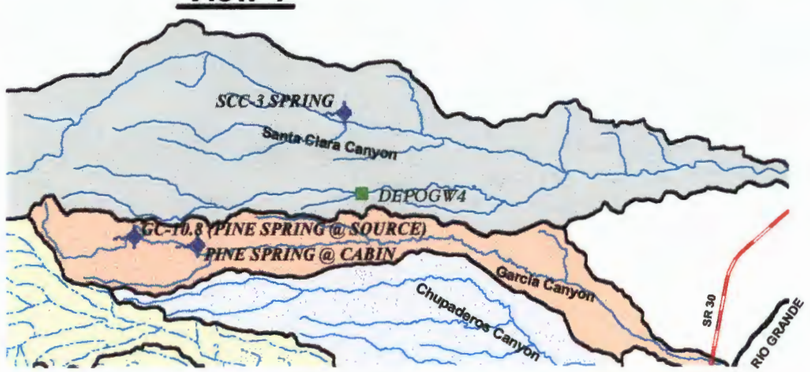


View 2



View 1



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DRAFT

1998 Groundwater Sampling Locations

LEGEND

Sampling Locations
- SPRING 1 Springs
- LAO-0.3 Wells

Roads/Main Hwys

LANL Boundary

Streams:
- Ephemeral
- Perennial

Watersheds:
- SANTA CLARA
- GARCIA
- CHUPADEROS
- LOS ALAMOS
- SANDIA
- MORTANDAD
- PAJARITO
- WATER
- ANCHO
- CHAQUEHUI
- FRIJOLES

State plane coordinates, New Mexico Central Zone.
1927 North American Datum.
Digitized from U.S.G.S 7.5 minute quadrangles.

Table 1 - NMED DOE Oversight Bureau Ground-Water Quality Results: Major Ion Chemistry.

STATION ID			Date	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Na (mg/L)	Cl (mg/L)	ClO_3 (mg/L)	Br (mg/L)	I (mg/L)	F (mg/L)	CO_3 (mg/L)	HCO_3 (mg/L)	SO_4 (mg/L)
WELLS															
DEEP AQUIFER															
DT-5A	2	T	11/5/98	8	2	2	10	NA	NA	NA	NA	NA	NA	NA	NA
DT-9	2	T	11/5/98	10	3	1	9	NA	NA	NA	NA	NA	NA	NA	NA
DT-10	2	T	11/6/98	11	3	2	10	1.8	NA	<0.2	NA	0.23	<10	65	1.3
R-12 (801')	3	T	6/8/98	27	5.5	4.3	19	9.07	NA	<0.1	NA	0.3	<2§	120§	8.28
	3	F	6/8/98	26	5.4	4.3	19	NA	NA	NA	NA	NA	NA	NA	NA
R-12 (803')	3	T	10/15/98	28	6.0	3.4	19	NA	NA	NA	NA	NA	NA	120	NA
	3	F	10/15/98	28	6.0	3.8	19	NA	NA	NA	NA	NA	NA	NA	NA
R-12 (810')	2	T	5/29/98	750	312	40	150	9.8	NA	<0.2	NA	0.52	<5§	120§	8.6
	2	F	5/29/98	28	6	4	20	NA	NA	NA	NA	NA	NA	NA	NA
R-25 (747')	3	T	9/30/98	30	17	39	36	NA	NA	NA	NA	NA	NA	NA	NA
	3	F	9/30/98	15	6.0	2.2	11	11.1	NA	0.1	NA	0.3	NA	NA	9.76
R-25 (867')	3	F	10/9/98	12	4.9	0.8	13	9.48	NA	0.1	NA	0.2	<10	64	8.57
R-25 (1184')			12/3/98	[See Additional Table(s)]											
R-25 (1249')	4	F	12/18/98	11	3.6	2.6	12	<2§	NA	380§	NA	0.2§	<1§	110§	<10§
TW-1	2	T	5/28/98	51	NA	NA	16	34	NA	<0.2	NA	0.38	<5§	110§	23
	2	F	5/28/98	49	NA	NA	15	NA	NA	NA	NA	NA	NA	NA	NA
			9/1/98	[See Additional Table(s)]											
TW-3			9/1/98	[See Additional Table(s)]											
(First purge; Time: 16:30)	2		8/31/98	NA	NA	NA	NA	3.3	NA	<0.2	NA	0.42	<5	71	2.9
TW-4			9/1/98	[See Additional Table(s)]											
TW-8															
(TIME: 13:36)	2	F	3/24/98	11	4	2	9	2.2	NA	<0.2	NA	0.16	NA	60§	2.8
(TIME: 14:15)			3/24/98	[See Additional Table(s)]											
(TIME: 14:46)	2	F	3/24/98	10	4	1	9	2.2	NA	<0.2	NA	0.17	NA	59§	2.6
(TIME: 15:17)			3/24/98	[See Additional Table(s)]											
(TIME: 15:41)			3/24/98	[See Additional Table(s)]											
(TIME: 16:10)	2	F	3/24/98	11	4	2	10	2.1	NA	<0.2	NA	0.16	NA	60§	2.4
	2	F	9/2/98	11	4	2	9	2.2	NA	<0.2	NA	0.13	<10§	67§	2.1
DEPOGW4 (Santa Clara Pueblo)	2	T	4/6/98	18	3	3	25	20	NA	<0.2	NA	0.5	5	81	7
	2	F	4/6/98	18	3	3	25	NA	NA	NA	NA	NA	NA	NA	NA

Table 1 - NMED DOE Oversight Bureau Ground-Water Quality Results: Major Ion Chemistry.

STATION ID			Date	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Na (mg/L)	Cl (mg/L)	ClO_3 (mg/L)	Br (mg/L)	I (mg/L)	F (mg/L)	CO_3 (mg/L)	HCO_3 (mg/L)	SO_4 (mg/L)
WATER SUPPLY															
G-2			2/24/98	[See Additional Table(s)]											
INTERMEDIATE AQUIFER (VOLCANICS/SEDIMENTARY)															
R-12 (443' ZONE)	2,3	T	4/13/98	43	13	3.1	18	32	NA	<0.2	NA	0.51	NA	110§	26
	3	F	4/13/98	43	12	2.8	18	NA	NA	NA	NA	NA	NA	NA	NA
R-12 (464' ZONE)	3	F	4/29/98	23	6.4	58	120	179§	<0.5§	0.2§	<0.02§	0.7§	40§	120§	185§
TW-1A	2	T	5/29/98	17	NA	NA	43	49	NA	<0.2	NA	0.57	<5§	100§	7.6
	2	F	5/29/98	17	6	6	42	NA	NA	NA	NA	NA	NA	NA	NA
TW-2A			9/1/98	[See Additional Table(s)]											
POI-4			9/2/98	[See Additional Table(s)]											
PERCHED CANYON-BOTTOM AQUIFER (Qal & Qbt)															
Canada del Buey															
CDBO-6	2	T	5/26/98	15	NA	NA	19	17	NA	<0.2	NA	0.23	<5§	62§	8.7
Los Alamos Canyon															
LAO-0.91	3	F	9/3/98	15	2.9	3.8	31	NA	NA	NA	NA	NA	NA	NA	NA
LAO-1.2	3	F	8/31/98	15	3.9	9.4	36	NA	NA	NA	NA	NA	NA	NA	NA
LAO-1.6g			9/1/98	[See Additional Table(s)]											
LAO-5			8/31/98	[See Additional Table(s)]											
LAO-6A	2	T	5/14/98	10	NA	NA	27	33	NA	0.24	NA	0.46	<5	50	7.1
LAUZ-1	3	F	5/5/98	48	3.7	8.4	73	187	<0.4	<0.1	0.04§	0.6	<1.0	104	17.5
			9/4/98	[See Additional Table(s)]											
			9/17/98	[See Additional Table(s)]											
LAUZ-2	3	F	5/5/98	59	4.5	11.7	63	120	<0.4	<0.1	0.12§	0.8	<1.0	160	11.8
			9/4/98	[See Additional Table(s)]											
			9/17/98	[See Additional Table(s)]											
Mortandad Canyon															
MCO-2	2		8/19/98	[See Additional Table(s)]											
MCO-3	2		8/20/98	[See Additional Table(s)]											

Table 1 - NMED DOE Oversight Bureau Ground-Water Quality Results: Major Ion Chemistry.

STATION ID			Date	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Na (mg/L)	Cl (mg/L)	ClO_3 (mg/L)	Br (mg/L)	I (mg/L)	F (mg/L)	CO_3 (mg/L)	HCO_3 (mg/L)	SO_4 (mg/L)
MCO-4B	2	T	5/27/98	31	NA	NA	60	20	NA	<0.2	NA	1.3	<5§	150§	16
MCO-5	2		8/20/98	NA	NA	NA	NA	20	NA	<0.2	NA	1.4	<25	170	16
MCO-6	2	F	8/21/98	28	3	20	73	20	NA	<0.2	NA	1.6	<25	190	17
MCO-7	2	F	8/21/98	20	5	21	76	18	NA	<0.2	NA	1.8	<25	180	16
MCO-7.5	2	T	5/28/98	21	NA	NA	77	18	NA	<0.2	NA	1.5	<5§	170§	16
MCWB-7.7B			8/26/98	[See Additional Table(s)]											
MT-3			8/27/98	[See Additional Table(s)]											
MT-4	2	T	5/14/98	17	NA	NA	95	18	NA	<0.2	NA	0.99	<5	160	17
Pajarito Canyon															
PCO-3	2	T	5/13/98	210	NA	NA	200	390	NA	0.69	NA	0.69	<10	590	14
Water Canyon															
WELL 16-2655	2	F	12/15/98	15	6	11	94	NA	NA	NA	NA	NA	NA	NA	NA
	3		12/15/98	NA	NA	NA	NA	15.5	NA	0.1	NA	0.7	NA	NA	51.50
WELL 16-2656	2	F	12/18/98	18	5	3	17	NA	NA	NA	NA	NA	NA	NA	NA
	3		12/18/98	NA	NA	NA	NA	17.2	NA	0.2	NA	0.3	NA	NA	10.6
WELL 16-2658	2	F	12/18/98	14	4	2	17	NA	NA	NA	NA	NA	NA	NA	NA
	3		12/18/98	NA	NA	NA	NA	14.5	NA	0.2	NA	0.2	NA	NA	5.81
WELL 16-2659	2	F	12/17/98	17	5	3	16	NA	NA	NA	NA	NA	NA	NA	NA
	3		12/17/98	NA	NA	NA	NA	15.7	NA	0.2	NA	0.2	NA	NA	7.58
SPRINGS															
Frijoles Canyon Watershed															
APACHE SPRING	3		7/1/98	NA	NA	NA	NA	6.62	NA	<0.1	NA	<0.1	<10	59	6.01
Garcia Canyon Watershed															
PINE SPRING @ CABIN	3	T	7/14/98	11	4.2	4.1	7.2	1.23	NA	<0.1	NA	<0.1	<2	52	6.13
	3	F	7/14/98	11	3.6	3.6	7.0B	NA	NA	NA	NA	NA	NA	NA	NA
PINE SPRING @ SOURCE	3	T	7/14/98	8.4	3.2	3.3	6.2	1.25	NA	<0.1	NA	<0.1	<2	41.2	5.23
	3	F	7/14/98	9	2.9	2.9	6B	NA	NA	NA	NA	NA	NA	NA	NA

Table 1 - NMED DOE Oversight Bureau Ground-Water Quality Results: Major Ion Chemistry.

STATION ID			Date	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Na (mg/L)	Cl (mg/L)	ClO_3 (mg/L)	Br (mg/L)	I (mg/L)	F (mg/L)	CO_3 (mg/L)	HCO_3 (mg/L)	SO_4 (mg/L)
Los Alamos Canyon Watershed															
BASALT SPRING	2	F	5/29/98	25	6	9	48	39	NA	<0.2	NA	0.32	<5§	110§	26
DP SPRING	3	F	5/6/98	31	3.3	12.7	44	88.0	<0.4	<0.1	0.18§	1.05	<1.0	63.2	9.71
	3	F	9/2/98	15	1.7	9.4	36	25.7	NA	NA	NA	1.53	<10	81	6.85
			9/16/98	[See Additional Table(s)]											
			10/6/98	[See Additional Table(s)]											
LOS ALAMOS SPRING	2	F	5/29/98	36	8	4	15	20	NA	0.27	NA	0.86	<5§	110§	35
Pajarito Canyon Watershed															
TA-18 SPRING	3	F	7/6/98	10	3.3	3.0	12	19.5	NA	<0.1	NA	<0.1	<10	50	7.17
THREEMILE SPRING (B)	3	F	7/6/98	9.5	3.1	2.6	12	14.9	NA	<0.1	NA	<0.1	<10	50	7.06
Santa Clara Canyon Watershed															
SCC-3 SPRING	3	T	7/16/98	8.5	4.0	1.9	8.7	1.44	NA	<0.1	NA	1.71	<2	50.1	2.82
	3	F	7/16/98	8.5	<0.04	1.7	<0.02	NA	NA	NA	NA	NA	NA	NA	NA
Water Canyon Watershed															
ALLUVIAL SEEP 100' E 16-2659	3	T	12/17/98	15	4.6	2.7	18	15.6	NA	0.2	NA	0.3	NA	NA	7.99
	2	F	12/17/98	16	5	3	15	NA	NA	NA	NA	NA	NA	NA	NA
CDV-5.0 SPRING	3	T	2/23/98	8.3	2.9	2.2	7.1	NA	NA	NA	NA	NA	NA	NA	NA
	3	F	7/1/98	7.3	2.7	2.3	5.0	1.01	NA	<0.1	NA	<0.1	<10	42	4.14
BURNING GROUND SPRING	2	F	12/16/98	16	5	3	15	NA	NA	NA	NA	NA	NA	NA	NA
	3		12/16/98	NA	NA	NA	NA	13.5	NA	0.2	NA	0.3	NA	NA	7.73
MARTIN SPRING	2	F	12/15/98	32	7	4	31	NA	NA	NA	NA	NA	NA	NA	NA
	3		12/15/98	NA	NA	NA	NA	22.4	NA	0.3	NA	0.6	NA	NA	23.4
SWSC SPRING	2	F	12/16/98	16	5	3	15	NA	NA	NA	NA	NA	NA	NA	NA
	3		12/16/98	NA	NA	NA	NA	13.8	NA	0.2	NA	0.3	NA	NA	7.65
White Rock Canyon															
ANCHO SPRING			7/1/98	[See Additional Table(s)]											
			9/24/98	[See Additional Table(s)]											

Table 1 - NMED DOE Oversight Bureau Ground-Water Quality Results: Major Ion Chemistry.

STATION ID			Date	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Na (mg/L)	Cl (mg/L)	ClO_3 (mg/L)	Br (mg/L)	I (mg/L)	F (mg/L)	CO_3 (mg/L)	HCO_3 (mg/L)	SO_4 (mg/L)
DOE SPRING			2/3/98	[See Additional Table(s)]											
			9/23/98	[See Additional Table(s)]											
	2	F	9/30/98	10	3	2	10	2.5	NA	<0.2	NA	0.41	<10§	62§	1.9
LA MESITA SPRING	2		4/7/98	NA	NA	NA	NA	8.1	NA	<0.2	NA	0.25	NA	120§	14
	2	T	7/7/98	34	1	3	28	NA	NA	NA	NA	NA	NA	NA	NA
SANDIA SPRING	2	F	9/28/98	37	2	3	15	4.2	NA	<0.2	NA	0.49	<10§	140§	4.3
SPRING 1	2		4/7/98	NA	NA	NA	NA	3.3	NA	<0.2	NA	0.47	NA	97§	6.6
	2	T	7/7/98	15	<1	3	28	NA	NA	NA	NA	NA	NA	NA	NA
	2	F	9/28/98	16	1	3	28	4.2	NA	<0.2	NA	0.49	<10§	110§	7.9
SPRING 3			3/12/98	[See Additional Table(s)]											
			9/22/98	[See Additional Table(s)]											
SPRING 3A			3/12/98	[See Additional Table(s)]											
			9/22/98	[See Additional Table(s)]											
(Sample collected below spring source at Rio Grande)	2	F	9/28/98	19	2	3	14	3.8	NA	<0.2	NA	0.35	<10§	82§	4.8
SPRING 4			2/18/98	[See Additional Table(s)]											
			9/22/98	[See Additional Table(s)]											
SPRING 4A			2/18/98	[See Additional Table(s)]											
			9/22/98	[See Additional Table(s)]											
SPRING 4C			2/18/98	[See Additional Table(s)]											
SPRING 5			9/22/98	[See Additional Table(s)]											
SPRING 6			9/24/98	[See Additional Table(s)]											
	2	F	9/29/98	12	3	2	10	2.5	NA	<0.2	NA	0.28	<10§	65§	2.6
SPRING 6A	2	F	9/29/98	9	3	2	10	2	NA	<0.2	NA	0.25	<10§	53§	2
SPRING 8A	2	F	9/29/98	8	3	2	10	2	NA	<0.2	NA	0.31	<10§	56§	1.9
SPRING 9A			2/3/98	[See Additional Table(s)]											
SPRING 9B			2/3/98	[See Additional Table(s)]											
(Sample collected approx. 50 ft below spring source			9/23/98	[See Additional Table(s)]											
SPRING 10	2	T	9/23/98	15	3	2	11	2.3	NA	<0.2	NA	0.39	<10§	72§	2.6
Other Springs/Misc.															
HEMINGWAY SPRING	2	T	11/3/98	18	6	3	11	2.8	NA	<0.2	NA	0.33	<10	85	8.7
SACRED SPRING @ SOURCE			4/14/98	[See Additional Table(s)]											
	2	T	7/7/98	29	1	3	20	NA	NA	NA	NA	NA	NA	NA	NA

Table 1 - NMED DOE Oversight Bureau Ground-Water Quality Results: Major Ion Chemistry.

STATION ID			Date	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Na (mg/L)	Cl (mg/L)	ClO_3 (mg/L)	Br (mg/L)	I (mg/L)	F (mg/L)	CO_3 (mg/L)	HCO_3 (mg/L)	SO_4 (mg/L)
TA-18 CISTERN	3	F	7/6/98	11	3.2	3.2	15	19.3	NA	<0.1	NA	<0.1	<10	52	7.41
	3	F	7/6/98	11	3.2	3.0	14	NA	NA	NA	NA	NA	NA	NA	NA
	3	T	7/6/98	11	3.3	3.3	14	NA	NA	NA	NA	NA	NA	NA	NA

2 - Paragon Laboratory
3 - CT&E Laboratory
4 - Pinnacle Laboratory
< - not detected above reporting detection limit or method detection limit

B - Analyte found in the associated blank as well as in the sample.
NA - Not analyzed or not applicable
T - Total fraction (non-filtered acidified sample)
F - Filtered sample (dissolved fraction passed through a 0.45 micron filter prior to acidification and analysis)
§ - Hold time exceeded
Note: all samples were received by the contract laboratory at 4° +/-2° Celsius.

Table 2 - NMED DOE Oversight Bureau Ground-Water Quality Results: Additional General Chemistry.

			PHOS (mg/L)	NO_2/NO_3 AS N (mg/L)	del^{15}N ‰	TKN (mg/L)	NH_3 (mg/L)	TDS (mg/L)	TSS (mg/L)	FIELD NO_3 AS N (mg/L)	FIELD pH (S.U.)	FIELD SC (uS/cm)	FIELD TDS (ppm)	FIELD TEMP. (°C)
WELLS														
DEEP AQUIFER														
DT-5A	2	11/5/98	NA	NA	NA	NA	NA	NA	NA	NA	7.55	114.8	70	21.9
DT-9	2	11/5/98	NA	NA	NA	NA	NA	NA	NA	NA	7.92	119	73	21.2
DT-10	2	11/6/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
R-12 (801')	3	6/8/98	0.056§	0.91§	NA	0.2§	0.70§	NA	NA	NA	NA	NA	NA	NA
R-12 (803')	3	10/15/98	0.030	0.75D	NA	0.2	<0.06D	NA	12	NA	7.86	290	174	23.6
R-12 (810')	2	5/29/98	0.22	0.978	NA	0.6	<0.1	NA	NA	NA	7.90	265	155	30.3
R-25 (747')	3	9/30/98	0.16D	0.62D	NA	0.6	0.12	NA	NA	NA	NA	NA	NA	NA
R-25 (867')	3	10/9/98	0.29	0.6D	NA	0.4	0.07	190	190D	NA	6.52	166	96	10.8
R-25 (1249')	4	12/18/98	1.8§	0.1§	NA	0.5§	0.23§	190§	83000§	NA	NA	NA	NA	NA
TW-1	2	5/28/98	<0.1	5.04	NA	2.6	<0.1	NA	NA	NA	7.55	382	221	13.8
	3	9/1/98	0.019	4.9D	NA	<0.1	0.34D	NA	NA	NA	NA	NA	NA	NA
TW-3 (First purge; Time: 16:30)	2	8/31/98	0.069	<0.05	NA	NA	<0.5	NA	NA	NA	NA	NA	NA	NA
TW-8														
(TIME: 13:36)	2	3/24/98	NA	NA	NA	NA	NA	NA	NA	0.69	7.75	119	69	17.7
(TIME: 14:15)		3/24/98	NA	NA	NA	NA	NA	NA	NA	NA	7.72	118	68	19.0
(TIME: 14:46)	2	3/24/98	NA	NA	NA	NA	NA	NA	NA	NA	7.66	118	68	19.6
(TIME: 15:17)		3/24/98	NA	NA	NA	NA	NA	NA	NA	NA	7.71	118	68	20.5
(TIME: 15:41)		3/24/98	NA	NA	NA	NA	NA	NA	NA	NA	7.63	119	69	20.7
(TIME: 16:10)	2	3/24/98	NA	NA	NA	NA	NA	NA	NA	NA	7.58	120	69	20.7
	2	9/2/98	<0.1§	0.28§	NA	1.7	<0.5§	NA	NA	NA	NA	NA	NA	NA
DEPOGW4 (Santa Clara Pueblo)	2	4/6/98	<0.05	<0.01	NA	0.31	<0.5	NA	NA	NA	7.95	219	127	30.6
WATER SUPPLY														
G-2		2/24/98	NA	NA	NA	NA	NA	NA	NA	1.08	8.13	157	91	28.4

Table 2 - NMED DOE Oversight Bureau Ground-Water Quality Results: Additional General Chemistry.

			PHOS (mg/L)	NO_2/NO_3 AS N (mg/L)	del^{15}N ‰	TKN (mg/L)	NH_3 (mg/L)	TDS (mg/L)	TSS (mg/L)	FIELD NO_3 AS N (mg/L)	FIELD pH (S.U.)	FIELD SC (uS/cm)	FIELD TDS (ppm)	FIELD TEMP. (°C)
INTERMEDIATE AQUIFER														
(VOLCANICS/SEDIMENTARY)														
R-12 (443')	2,3	4/13/98	NA	4.92	NA	1.2	<0.1	300§	31§	4.35	NA	399	232	14.5
R-12 (464')	3	4/29/98	0.95§	0.63§	NA	14§	12D§	NA	NA	NA	NA	NA	NA	NA
TW-1A	2	5/29/98	0.63	<0.2	NA	2.5	0.32	NA	NA	NA	8.12	339	197	12.2
PERCHED CANYON-BOTTOM AQUIFER (Qal & Qbt)														
Canada del Buey														
CDBO-6	2	5/26/98	0.64	0.44	NA	2.5	0.44	NA	NA	NA	NA	NA	NA	NA
Los Alamos Canyon														
LAO-1.2	3	8/31/98	NA	NA	NA	NA	NA	NA	NA	NA	6.41	250	NA	10.5
LAO-5		8/31/98	NA	NA	NA	NA	NA	NA	NA	NA	6.70	NA	NA	13.6
LAO-6A	2	5/14/98	0.05	0.1	NA	<2.5	<0.5	NA	NA	NA	NA	NA	NA	NA
LAUZ-1	3	5/5/98	NA	NA	NA	NA	NA	NA	NA	0.77	6.65	790	458	8.9
		9/17/98	NA	NA	NA	NA	NA	NA	NA	NA	6.77	361	216	22.5
LAUZ-2	3	5/5/98	NA	NA	NA	NA	NA	NA	NA	<0.29	7.30	745	433	11.4
		9/17/98	NA	NA	NA	NA	NA	NA	NA	NA	7.32	506	303	17.8
Mortandad Canyon														
MCO-2	2	8/19/98	NA	NA	NA	NA	NA	400§	<20§	NA	NA	NA	NA	NA
MCO-3	2	8/20/98	NA	NA	NA	NA	NA	560§	<20§	NA	NA	NA	NA	NA
MCO-4B	2	5/27/98	<0.1	14.6	NA	6.8	<0.1	NA	NA	NA	NA	NA	NA	NA
MCO-5	2	8/20/98	0.13	13	NA	1.4	<0.5	350§	<20§	NA	NA	NA	NA	NA
MCO-6	2	8/21/98	0.15	14	NA	1.5	<0.5	370§	<20§	NA	NA	NA	NA	NA
MCO-7	2	8/21/98	0.41	15	NA	1.1	<0.5	380§	59§	NA	NA	NA	NA	NA
MCO-7.5	2	5/28/98	0.11	17.5	NA	<2.5	<0.1	NA	NA	NA	NA	NA	NA	NA
MT-4	2	5/14/98	0.15	22	NA	<2.5	<0.5	NA	NA	NA	NA	NA	NA	NA
Pajarito Canyon														
PCO-3	2	5/13/98	0.05	<0.05	NA	<2.5	<0.5	NA	NA	NA	NA	NA	NA	NA

Table 2 - NMED DOE Oversight Bureau Ground-Water Quality Results: Additional General Chemistry.

			PHOS (mg/L)	NO_2/NO_3 AS N (mg/L)	del^{15}N ‰	TKN (mg/L)	NH_3 (mg/L)	TDS (mg/L)	TSS (mg/L)	FIELD NO_3 AS N (mg/L)	FIELD pH (S.U.)	FIELD SC (uS/cm)	FIELD TDS (ppm)	FIELD TEMP. (°C)
Water Canyon														
WELL 16-2655	2	12/15/98	1.7	0.59	NA	<2.5	NA	NA	NA	NA	NA	NA	NA	NA
	3	12/15/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WELL 16-2656	2	12/18/98	<0.05	0.55	NA	<2.5	NA	NA	NA	NA	NA	NA	NA	NA
	3	12/18/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WELL 16-2658	2	12/18/98	<0.05	<0.05	NA	<2.5	<0.5	NA	NA	NA	NA	NA	NA	NA
	3	12/18/98	0.30	0.06	NA	0.7	0.05	NA	NA	NA	NA	NA	NA	NA
WELL 16-2659	2	12/17/98	<0.051	0.25	NA	<2.5	<0.5	NA	NA	NA	NA	NA	NA	NA
	3	12/17/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPRINGS														
Frijoles Canyon Watershed														
APACHE SPRING	3	7/1/98	NA	NA	NA	NA	NA	NA	NA	NA	7.43	131.0	76	9.7
Garcia Canyon Watershed														
PINE SPRING @ CABIN	3	7/14/98	0.060	0.08	NA	0.3	<0.03	NA	NA	NA	6.69	114.1	67	13.3
PINE SPRING @ SOURCE	3	7/14/98	0.080	0.29	NA	0.2	<0.03	NA	NA	NA	6.24	92.5	54	10.4
Los Alamos Canyon Watershed														
BASALT SPRING	2	5/29/98	2.0	4.15	NA	2.5	0.12	NA	NA	NA	6.60	417	NA	6.0
DP SPRING	3	5/6/98	0.070	0.80	NA	0.1	0.06	NA	NA	0.95	8.00	478	279	12.7
	3	9/2/98	0.11	0.36	NA	0.2	0.06	NA	NA	NA	NA	NA	NA	NA
		9/16/98	NA	NA	NA	NA	NA	NA	NA	NA	7.89	280	168	15.8
		10/6/98	NA	NA	NA	NA	NA	NA	NA	NA	7.67	216	132	10.5
LOS ALAMOS SPRING	2	5/29/98	<0.1	2.58	NA	<2.5	<0.10	NA	NA	NA	6.66	303	NA	10.9
Pajarito Canyon Watershed														
TA-18 SPRING	3	7/6/98	0.018	0.01	NA	0.5	0.12	NA	NA	NA	5.81	83.0	47	11.1
THREEMILE SPRING (B)	3	7/6/98	0.064	0.02	NA	0.4	0.06	NA	NA	NA	6.21	140.3	82	9.2

Table 2 - NMED DOE Oversight Bureau Ground-Water Quality Results: Additional General Chemistry.

			PHOS (mg/L)	NO_2/NO_3 AS N (mg/L)	del^{15}N ‰	TKN (mg/L)	NH_3 (mg/L)	TDS (mg/L)	TSS (mg/L)	FIELD NO_3 AS N (mg/L)	FIELD pH (S.U.)	FIELD SC (uS/cm)	FIELD TDS (ppm)	FIELD TEMP. (°C)
Santa Clara Canyon Watershed														
SCC-3 SPRING	3	7/16/98	0.12	0.33	NA	<0.1	<0.03	50	<1	NA	6.61	102.0	59	10.7
Water Canyon Watershed														
ALLUVIAL SEEP 100' E 16-2659	3	12/17/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2	12/17/98	<0.06	0.24	NA	<2.5	<0.5	NA	NA	NA	NA	NA	NA	NA
CDV-5.0 SPRING	3	2/23/98	NA	NA	NA	NA	NA	NA	NA	0.88	7.85	84	48	6.9
	3	7/1/98	0.063	0.31	NA	0.3	<0.03	NA	NA	NA	6.86	78	45	8.0
BURNING GROUND SPRING	2	12/16/98	0.09	0.75	NA	<2.5	<0.5	NA	NA	NA	NA	NA	NA	NA
	3	12/16/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MARTIN SPRING	2	12/15/98	0.1	4.4	NA	<2.5	<0.5	NA	NA	NA	NA	NA	NA	NA
	3	12/15/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWSC SPRING	2	12/16/98	0.084	0.89	NA	<2.5	<0.5	NA	NA	NA	NA	NA	NA	NA
	3	12/16/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
White Rock Canyon														
ANCHO SPRING		7/1/98	NA	NA	NA	NA	NA	NA	NA	NA	7.43	131.0	76	9.7
		9/24/98	NA	NA	NA	NA	NA	NA	NA	NA	6.54	118.7	70	20.6
DOE SPRING		2/3/98	NA	NA	NA	NA	NA	NA	NA	0.81	7.53	111	64	13.5
		9/23/98	NA	NA	NA	NA	NA	NA	NA	NA	7.71	167	113	21.0
	2	9/30/98	<0.05	<0.5	NA	<2.5	<0.5	140§	<20§	NA	6.88	120	71	16.1
LA MESITA SPRING	2	4/7/98	NA	NA	NA	NA	NA	NA	NA	NA	7.40	370	210	12.5
	2	7/7/98	NA	NA	NA	NA	NA	NA	NA	NA	7.50	290	173	16.0
SANDIA SPRING	2	9/28/98	0.07	<0.5	NA	1.0	<0.5	200§	90§	NA	7.35	NA	NA	15.2
SPRING 1	2	4/7/98	NA	NA	NA	NA	NA	NA	NA	NA	7.71	194	112	16.1
	2	7/7/98	NA	NA	NA	NA	NA	NA	NA	NA	7.49	196.0	114	18.2
	2	9/28/98	0.27	1.4	0.9	2.9	<0.5	170§	360§	NA	8.12	231	137	17.5
SPRING 3		3/12/98	NA	NA	NA	NA	NA	NA	NA	0.95	NA	NA	NA	NA
		9/22/98	NA	NA	NA	NA	NA	NA	NA	1.5	7.83	179	NA	19.9
SPRING 3A		3/12/98	NA	NA	NA	NA	NA	NA	NA	1.23	NA	NA	NA	NA
		9/22/98	NA	NA	NA	NA	NA	NA	NA	1.1	7.67	165	NA	20.2
(Sample collected below spring source at Rio Grande)	2	9/28/98	<0.05	<0.5	NA	2.6	<0.5	150§	<20§	NA	7.89	NA	NA	19.4

Table 2 - NMED DOE Oversight Bureau Ground-Water Quality Results: Additional General Chemistry.

			PHOS	NO_2/NO_3 AS N	del^{15}N	TKN	NH_3	TDS	TSS	FIELD NO_3 AS N	FIELD pH	FIELD SC	FIELD TDS	FIELD TEMP.
			(mg/L)	(mg/L)	‰	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(S.U.)	(uS/cm)	(ppm)	(°C)
SPRING 4		2/18/98	NA	NA	NA	NA	NA	NA	NA	0.67	7.21	192	110	15
		9/22/98	NA	NA	NA	NA	NA	NA	NA	NA	6.83	195	116	16.6
SPRING 4A		2/18/98	NA	NA	NA	NA	NA	NA	NA	0.79	7.82	179	103	20.2
		9/22/98	NA	NA	NA	NA	NA	NA	NA	NA	7.23	182	108	20.3
SPRING 4C		2/18/98	NA	NA	NA	NA	NA	NA	NA	0.51	7.74	199	109	16.6
SPRING 5		9/22/98	NA	NA	NA	NA	NA	NA	NA	NA	7.38	165	98	21.3
SPRING 6		9/24/98	NA	NA	NA	NA	NA	NA	NA	NA	6.98	128.2	76	20.0
	2	9/29/98	<0.05	<0.5	NA	<2.5	<0.5	150§	<20§	NA	7.55	NA	NA	20.1
SPRING 6A	2	9/29/98	<0.05	<0.5	NA	<2.5	<0.5	140§	<20§	NA	8.07	107	64	21.9
SPRING 8A	2	9/29/98	<0.05	<0.5	NA	<2.5	<0.5	140§	<20§	NA	7.48	106	63	20.3
SPRING 9A		2/3/98	NA	NA	NA	NA	NA	NA	NA	NA	6.95	113	65	19.3
SPRING 9B		2/3/98	NA	NA	NA	NA	NA	NA	NA	0.91	7.22	117.7	68	8.8
(Sample collected approx. 50 ft below spring source)		9/23/98	NA	NA	NA	NA	NA	NA	NA	NA	7.26	111	66	20.5
SPRING 10	2	9/23/98	0.10	<0.5	NA	<2.5	<0.5	NA	NA	NA	6.88	144	86	20.1
Other Springs/Misc.														
HEMINGWAY SPRING	2	11/3/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SACRED SPRING @ SOURCE	2	7/7/98	NA	NA	NA	NA	NA	NA	NA	NA	7.53	219	128	17
TA-18 CISTERN	3	7/6/98	0.020	0.01	NA	0.4	0.11	NA	NA	NA	5.90	154	90	12.8

2 - Paragon Laboratory
3 - CT&E Laboratory
4 - Pinnacle Laboratory
< - not detected above reporting detection limit or method detection limit
D - Sample diluted when used with a non-detect result and/or compounds identified in an analysis at a secondary dilution factor.
N - Sample diluted when used with a non-detect result and/or compounds identified in an analysis at a secondary dilution factor.
TKN - Total kjeldahl nitrogen
TDS - Total dissolved solids
TSS - Total suspended solids
SC - Specific conductance
NA - Not analyzed or not applicable
§ - Hold time exceeded
Del 15/14N-NO3 - Nitrogen-isotope data provided by Global Geochemistry Corp.
Note: all samples were received by the contract laboratory at 4° +/-2° Celsius.

Table 3a - NMED DOE Oversight Bureau Ground-Water Quality Results: Dissolved and Total Metals.

STATION ID			Date	Ag (mg/L)	Al (mg/L)	As (mg/L)	B (mg/L)	Ba (mg/L)	Be (mg/L)	Cd (mg/L)	Cr (mg/L)	Co (mg/L)	Cu (mg/L)	Fe (mg/L)	Hg (mg/L)
WELLS															
DEEP AQUIFER															
DT-5A	2	T	11/5/98	<0.01	<0.2	<0.01	<0.1	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.0002
DT-9	2	T	11/5/98	<0.01	<0.2	<0.01	<0.1	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.0002
DT-10	2	T	11/6/98	<0.01	<0.2	<0.01	<0.1	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.0002
R-12 (801')	3	T	6/8/98	NA	4.0	<0.01	0.06	0.097	NA	NA	0.009	NA	NA	0.24	NA
	3	F	6/8/98	NA	1.0	<0.01	0.05	0.090	NA	NA	0.007	NA	NA	0.12	NA
R-12 (803')	3	T	10/15/98	<0.0005	<0.1	<0.01	0.06	0.10	<0.002	<0.001	<0.05	<0.001	0.03	<0.1	NA
	3	F	10/15/98	<0.005	<0.1	<0.01	NA	0.10	<0.002	<0.001	<0.05	<0.001	0.03	<0.1	NA
R-12 (810')	2	T	5/29/98	<0.01	720	0.09	<0.5	9.2	0.018	<0.05	0.99	1.45	1.13	1200	<0.0002
	2	F	5/29/98	<0.01	<0.2	<0.01	<0.1	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.0002
R-25 (747')	3	F	9/30/98	<0.0005	<0.1	<0.01	0.40	0.014	<0.001	<0.001	<0.05	0.002	<0.02	<0.1	NA
	3	T	9/30/98	<0.0005	89	<0.02M	1.46	0.46	0.051	0.010	0.22	0.040	0.21	240	NA
R-25 (867')	3	F	10/9/98	NA	NA	NA	0.14	0.18	NA	NA	NA	NA	NA	NA	NA
R-25 (1249')	4	F	12/18/98	<0.005	5.4	<0.005	<0.01	0.085	<0.002	<0.002	<0.005	<0.005	0.009	4.3	NA
TW-1	2	T	5/28/98	NA	<0.2	NA	<0.1	<0.1	NA	NA	NA	NA	NA	2.0	NA
	2	F	5/28/98	NA	<0.2	NA	<0.1	<0.1	NA	NA	NA	NA	NA	0.2	NA
TW-8															
(TIME: 13:36)	2	F	3/24/98	NA	<0.2	NA	<0.1	<0.1	NA	NA	NA	NA	NA	<0.1	NA
(TIME: 14:46)	2	F	3/24/98	NA	<0.2	NA	<0.1	<0.1	NA	NA	NA	NA	NA	0.1	NA
(TIME: 16:10)	2	F	3/24/98	NA	<0.2	NA	<0.1	<0.1	NA	NA	NA	NA	NA	0.1	NA
	2	F	9/2/98	<0.01	<0.2	<0.01	<0.1	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	NA
DEPOGW4 (Santa Clara Pueblo)	2	T	4/6/98	<0.01	<0.2	<0.01	<0.1	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.0002
	2	F	4/6/98	<0.01	<0.2	<0.01	<0.1	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.0002
INTERM. AQUIFER (VOLCANICS/SEDIMENTARY)															
R-12 (443')	3	T	4/13/98	NA	2.1	<0.01	0.09	0.021	NA	NA	0.084B	NA	NA	2.5	NA

Table 3a - NMED DOE Oversight Bureau Ground-Water Quality Results: Dissolved and Total Metals.

STATION ID			Date	Ag (mg/L)	Al (mg/L)	As (mg/L)	B (mg/L)	Ba (mg/L)	Be (mg/L)	Cd (mg/L)	Cr (mg/L)	Co (mg/L)	Cu (mg/L)	Fe (mg/L)	Hg (mg/L)
	3	F	4/13/98	NA	<0.1	<0.01	NA	0.006	NA	NA	0.014B	NA	NA	0.05B	NA
R-12 (464')	3	F	4/29/98	<0.0005	0.3	<0.01	0.18	0.038	<0.001	<0.001	<0.002	<0.001	0.006B	0.04	<0.0002§
TW-1A	2	T	5/29/98	NA	<0.2	NA	0.2	<0.1	NA	NA	NA	NA	NA	2.8	NA
	2	F	5/29/98	<0.01	<0.2	<0.01	0.2	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	NA
PERCHED CANYON-BOTTOM AQUIFER (Qal & Qbt)															
Canada del Buey															
CDBO-6	2	T	5/26/98	NA	NA	NA	<0.1	0.1	NA	NA	NA	NA	NA	5.4	NA
Los Alamos Canyon															
LAO-0.91	3	F	9/3/98	<0.0005	0.5B	0.02B	<0.05	0.048	<0.001	<0.001	<0.05	<0.001	<0.02	0.1	NA
LAO-1.2	3	F	8/31/98	<0.0005	0.2	<0.01	0.19	0.045	<0.001	<0.001	<0.05	<0.001	<0.02	<0.1	NA
LAO-6A	2	T	5/14/98	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA	NA	0.4	NA
LAUZ-1	3	F	5/5/98	NA	<0.1	NA	NA	0.13	NA	NA	NA	NA	NA	0.11B	NA
LAUZ-2	3	F	5/5/98	NA	<0.1	NA	NA	0.13	NA	NA	NA	NA	NA	0.87	NA
Mortandad Canyon															
MCO-2	2	T	8/19/98	NA	8.1	<0.01	<0.1	0.2	<0.005	NA	NA	NA	NA	11	NA
MCO-3	2	T	8/20/98	NA	<0.2	<0.01	0.1	<0.1	<0.005	NA	NA	NA	NA	<0.1	NA
MCO-4B	2	T	5/27/98	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA	NA	0.1	NA
MCO-5	2	T	8/20/98	NA	<0.2	<0.01	<0.1	<0.1	<0.005	NA	NA	NA	NA	<0.1	NA
MCO-6	2	F	8/21/98	<0.01	<0.2	<0.01	<0.1	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	NA
MCO-7	2	F	8/21/98	<0.01	<0.2	<0.01	<0.1	0.2	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	NA
MCO-7.5	2	T	5/28/98	NA	NA	NA	0.1	0.2	NA	NA	NA	NA	NA	0.2	NA
MT-4	2	T	5/14/98	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA	NA	<0.1	NA

Table 3a - NMED DOE Oversight Bureau Ground-Water Quality Results: Dissolved and Total Metals.

STATION ID			Date	Ag (mg/L)	Al (mg/L)	As (mg/L)	B (mg/L)	Ba (mg/L)	Be (mg/L)	Cd (mg/L)	Cr (mg/L)	Co (mg/L)	Cu (mg/L)	Fe (mg/L)	Hg (mg/L)
Pajarito Canyon															
PCO-3	2	T	5/13/98	NA	NA	NA	<0.1	0.4	NA	NA	NA	NA	NA	2.3	NA
Water Canyon															
WELL 16-2655	2	F	12/15/98	<0.01	27	0.01	<0.1	0.2	<0.005	<0.005	0.02	<0.01	0.02	22	NA
WELL 16-2656	2	F	12/18/98	<0.01	<0.2	<0.01	<0.1	3.3	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	NA
WELL 16-2658	2	F	12/18/98	<0.01	<0.2	<0.01	<0.1	12	<0.005	<0.005	<0.01	<0.01	<0.01	1.3	NA
WELL 16-2659	2	F	12/17/98	<0.01	<0.2	<0.01	<0.1	5.9	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	NA
SPRINGS															
Garcia Canyon Watershed															
PINE SPRING @ CABIN	2	F	7/14/98	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
	3	T	7/14/98	NA	3.7	NA	NA	NA	<0.001	<0.001	<0.002	<0.001	<0.002	1.5	NA
	3	F	7/14/98	NA	0.35	NA	NA	0.050	NA	NA	NA	NA	NA	0.04	NA
PINE SPRING @ SOURCE	2	F	7/14/98	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
	3	F	7/14/98	NA	3.9	NA	NA	NA	0.001	<0.001	0.003	<0.001	0.015B	1.4	NA
	3	F	7/14/98	NA	0.33	NA	NA	0.40	NA	NA	NA	NA	NA	0.02	NA
Los Alamos Canyon Watershed															
BASALT SPRING	2	F	5/29/98	NA	<0.2	<0.01	0.2	<0.1	NA	NA	NA	NA	NA	<0.1	NA
DP SPRING	3	F	5/6/98	NA	<0.1	NA	NA	0.084	NA	NA	NA	NA	NA	0.12B	NA
	3	F	9/2/98	<0.0005	1.6	<0.01	<0.05	0.051	<0.001	<0.001	<0.05	<0.001	<0.02	0.6	NA
LA SPRING	2	F	5/29/98	NA	<0.2	<0.01	<0.1	<0.1	NA	NA	NA	NA	NA	<0.1	NA
Santa Clara Canyon Watershed															
SCC-3 SPRING	2	T	7/16/98	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
	2	F	7/16/98	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
	3	T	7/16/98	0.0036	0.4	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002
	3	F	7/16/98	<0.005	0.3	<0.01	NA	0.025	<0.001	<0.001	<0.004	<0.004	<0.004	<0.003	NA

Table 3a - NMED DOE Oversight Bureau Ground-Water Quality Results: Dissolved and Total Metals.

STATION ID			Date	Ag (mg/L)	Al (mg/L)	As (mg/L)	B (mg/L)	Ba (mg/L)	Be (mg/L)	Cd (mg/L)	Cr (mg/L)	Co (mg/L)	Cu (mg/L)	Fe (mg/L)	Hg (mg/L)
Pajarito Canyon Watershed															
TA-18 SPRING	3	T	7/6/98	NA	0.5	<0.01	<0.05	0.086	NA	NA	NA	NA	NA	3.5	NA
	3	F	7/6/98	NA	0.3	0.02	<0.05	0.087	NA	NA	NA	NA	NA	0.10	NA
THREEMILE SPRING (B)	3	T	7/6/98	NA	2.9	<0.01	<0.05	0.073	NA	NA	NA	NA	NA	2.0	NA
	3	F	7/6/98	NA	0.5	<0.01	<0.05	0.048	NA	NA	NA	NA	NA	0.15	NA
Water Canyon Watershed															
ALLUVIAL SEEP 100' E 16-2659	2	F	12/17/98	<0.01	<0.2	<0.01	<0.1	5.8	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	NA
	3	T	12/17/98	<0.0005	0.8B	<0.01	<0.05	5.8	<0.002M	<0.001	<0.05	<0.001	<0.02	0.4	<0.0002
BURNING GROUND	2	F	12/16/98	<0.01	<0.2	<0.01	<0.1	0.3	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	NA
CDV-5.0	3	T	2/23/98	NA	<0.1	NA	NA	0.022	NA	NA	0.021B	NA	NA	0.14B	NA
	3	F	7/1/98	0.0005	0.6	<0.01	NA	0.027	NA	NA	<0.002	NA	NA	0.14	NA
MARTIN SPRING	2	F	12/15/98	<0.01	<0.2	<0.01	2.4	0.2	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	NA
SWSC SPRING	2	F	12/16/98	<0.01	<0.2	<0.01	<0.1	0.3	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	NA
White Rock Canyon Watershed															
DOE SPRING	2	F	9/30/98	<0.01	<0.2	<0.01	<0.1	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	<0.003	NA
LA MESITA SPRING	2	T	7/7/98	NA	<0.2	<0.01	NA	0.1	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	NA
SANDIA SPRING	2	F	9/28/98	<0.01	<0.2	<0.01	<0.1	0.1	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	NA
SPRING 1	2	T	7/7/98	NA	<0.2	<0.01	NA	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	NA
	2	F	9/28/98	<0.01	<0.2	<0.01	<0.1	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	NA
SPRING 3A (Sample collected below spring source at Rio Grande)	2	F	9/28/98	<0.01	<0.2	<0.01	<0.1	<0.1	<0.005	0.015	<0.01	<0.01	<0.01	<0.1	NA
SPRING 6	2	F	9/29/98	<0.01	<0.2	<0.01	<0.1	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	<0.003	NA
SPRING 6A	2	F	9/29/98	<0.01	<0.2	<0.01	<0.1	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	<0.003	NA
SPRING 8A	2	F	9/29/98	<0.01	<0.2	<0.01	<0.1	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	<0.003	NA

Table 3a - NMED DOE Oversight Bureau Ground-Water Quality Results: Dissolved and Total Metals.

STATION ID			Date	Ag (mg/L)	Al (mg/L)	As (mg/L)	B (mg/L)	Ba (mg/L)	Be (mg/L)	Cd (mg/L)	Cr (mg/L)	Co (mg/L)	Cu (mg/L)	Fe (mg/L)	Hg (mg/L)
SPRING 10	2	T	9/23/98	<0.01	<0.2	<0.01	<0.1	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	0.1	NA
Other Springs/Misc.															
HEMINGWAY SPRING	2	T	11/3/98	<0.01	<0.2	<0.01	<0.1	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.0002
SACRED SPR. @ SOURCE	2	T	7/7/98	NA	0.2	<0.01	NA	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	0.2	NA
TA-18 CISTERN	3	T	7/6/98	NA	0.2	0.02	<0.05	0.087	NA	NA	NA	NA	NA	1.4	NA
	3	F	7/6/98	NA	0.2	<0.01	<0.05	0.077	NA	NA	NA	NA	NA	0.07	NA

2 - Paragon Laboratory
3 - CT&E Laboratory
4 - Pinnacle Laboratory
< - not detected above reporting detection limit or method detection limit
B - Analyte found in the associated blank as well as in the sample.
M - Due to the large concentration of analyte in the sample, matrix spike recoveries may not be accurate.
† - Serial dilution results suggest possible physical or chemical interference(s).
NA - Not analyzed or not applicable
T - Total fraction (non-filtered acidified sample)
F - Filtered sample (dissolved fraction passed through a 0.45 micron filter prior to acidification and analysis)
§ - Hold time exceeded
Note: all samples were received by the contract laboratory at 4° +/-2° Celsius.

Table 3b - NMED DOE Oversight Bureau Ground-Water Quality Results: Dissolved and Total Metals.

STATION ID			Date	Li (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Pb (mg/L)	Sb (mg/L)	Se (mg/L)	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Tl (mg/L)	V (mg/L)	Zn (mg/L)
WELLS																
DEEP AQUIFER																
DT-5A	2	T	11/5/98	0.02	<0.01	<0.01	<0.02	<0.003	<0.02	0.005	33M	<0.02	0.04	<0.01	<0.01	0.22
DT-9	2	T	11/5/98	0.02	<0.01	<0.01	<0.02	<0.003	<0.02	<0.005	32M	<0.02	0.05	<0.01	<0.01	0.13
DT-10	2	T	11/6/98	0.02	<0.01	<0.01	<0.02	<0.003	<0.02	<0.005	29M	<0.02	0.05	<0.01	<0.01	0.07
R-12 (801')	3	T	6/8/98	NA	0.039	NA	NA	0.008	NA	NA	30.9	NA	0.17	NA	NA	NA
	3	F	6/8/98	NA	0.030	NA	NA	<0.005	NA	NA	29.7	NA	0.17	NA	NA	NA
R-12 (803')	3	T	10/15/98	0.041	0.050	<0.01	<0.005	<0.005	NA	<0.01	33.3	NA	0.17	<0.02	<0.01	<0.02
	3	F	10/15/98	0.030	0.050	<0.01	<0.005	<0.005	<0.01	<0.01	NA	NA	NA	<0.02	<0.01	<0.02
R-12 (810')	2	T	5/29/98	0.42	29	0.05	2.69	0.11	<0.02	<0.05	130	<0.1	5.7	<0.1	0.83	1.3
	2	F	5/29/98	0.04	0.11	0.07	<0.02	<0.003	<0.02	<0.005	17	<0.02	0.15	<0.01	<0.01	<0.02
R-25 (747')	3	F	9/30/98	0.014	1.3	0.02	0.009	<0.005	<0.002	<0.02	18.5	<0.3	0.11	<0.02	<0.01	<0.02
	3	T	9/30/98	1.6D	6.2	0.06	0.17	0.23	<0.03M	<0.02	26.9	<0.3	0.59	<0.02	0.06	0.94
R-25 (867')	3	F	10/9/98	0.009	0.24	NA	NA	NA	NA	NA	14.8	NA	0.09	NA	NA	NA
R-25 (1249')	4	F	12/18/98	<0.05	0.44	0.047	0.0089	<0.005	<0.005	<0.005	12.6	<0.01	0.057	<0.01	<0.005	0.012
TW-1	2	T	5/28/98	NA	0.07	NA	NA	0.082	NA	NA	21	NA	0.28	NA	NA	1.4
	2	F	5/28/98	NA	0.07	NA	NA	<0.003	NA	NA	20	NA	0.27	NA	NA	0.87
TW-8																
(TIME: 13:36)	2	F	3/24/98	NA	NA	NA	NA	NA	NA	NA	22	NA	0.05	NA	NA	NA
(TIME: 14:46)	2	F	3/24/98	NA	NA	NA	NA	NA	NA	NA	24	NA	0.05	NA	NA	NA
(TIME: 16:10)	2	F	3/24/98	NA	NA	NA	NA	NA	NA	NA	27	NA	0.05	NA	NA	NA
	2	F	9/2/98	0.02	<0.01	<0.01	<0.02	<0.003	<0.02	NA	30	<0.02	0.05	<0.02	<0.01	0.74
DEPOGW4 (Santa Clara Pueblo)	2	T	4/6/98	0.04	0.02	<0.01	<0.02	<0.003	<0.02	<0.005	34	<0.02	0.09	<0.01	0.01	0.22
	2	F	4/6/98	0.03	0.02	<0.01	<0.02	<0.003	<0.02	<0.005	35	<0.02	0.09	<0.01	0.01	0.22
INTERM. AQUIFER																
(VOLCANICS/SEDIMENTARY)																
R-12 (443')	3	T	4/13/98	NA	0.060	NA	NA	<0.005	NA	NA	22	NA	0.19	NA	NA	NA
	3	F	4/13/98	NA	0.025	NA	NA	<0.005	NA	NA	NA	NA	NA	NA	NA	NA
R-12 (464')	3	F	4/29/98	0.066	0.14	0.06	<0.02	<0.005	<0.01	<0.02	4.2	0.40	0.49	<0.02	<0.01	0.006B
TW-1A	2	T	5/29/98	NA	0.10	NA	NA	<0.003	NA	NA	1.3	NA	0.11	NA	NA	3.9
	2	F	5/29/98	0.01	0.08	<0.01	<0.02	<0.003	<0.02	<0.005	1.2	<0.02	0.11	<0.01	<0.01	0.39

Table 3b - NMED DOE Oversight Bureau Ground-Water Quality Results: Dissolved and Total Metals.

STATION ID			Date	Li (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Pb (mg/L)	Sb (mg/L)	Se (mg/L)	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Tl (mg/L)	V (mg/L)	Zn (mg/L)
PERCHED CANYON-BOTTOM AQUIFER (Qal & Qbt)																
Canada del Buey																
CDBO-6	2	T	5/26/98	NA	0.07	NA	NA	0.005	NA	NA	38	NA	0.10	NA	NA	0.03
Los Alamos Canyon																
LAO-0.91	3	F	9/3/98	0.010	<0.003	<0.01	<0.005	<0.005	<0.01	<0.02	21.2	<0.3	0.10	<0.02	<0.01	<0.02
LAO-1.2	3	F	8/31/98	0.005	<0.003	<0.01	<0.005	0.005	<0.01	<0.02	17.6	<0.3	0.11	<0.02	<0.01	<0.02
LAO-6A	2	T	5/14/98	NA	NA	NA	NA	<0.05	NA	NA	20	NA	0.07	NA	NA	<0.02
LAUZ-1	3	F	5/5/98	NA	0.006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LAUZ-2	3	F	5/5/98	NA	0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mortandad Canyon																
MCO-2	2	T	8/19/98	NA	1.3	NA	NA	0.003	NA	NA	48	NA	0.09	NA	NA	NA
MCO-3	2	T	8/20/98	NA	<0.01	NA	NA	<0.003	NA	NA	22	NA	0.12	NA	NA	NA
MCO-4B	2	T	5/27/98	NA	<0.01	NA	NA	<0.003	NA	NA	17	NA	0.11	NA	NA	<0.02
MCO-5	2	T	8/20/98	NA	<0.01	NA	NA	<0.003	NA	NA	16	NA	0.12	NA	NA	NA
MCO-6	2	F	8/21/98	0.02	<0.01	0.12	<0.02	<0.003	<0.02	<0.005	16	<0.02	0.11	<0.01	<0.01	<0.02
MCO-7	2	F	8/21/98	<0.01	<0.01	0.10	<0.02	<0.003	<0.02	NA	16	<0.02	0.13	<0.01	<0.01	<0.02
MCO-7.5	2	T	5/28/98	NA	<0.01	NA	NA	<0.003	NA	NA	16	NA	13	NA	NA	<0.02
MT-4	2	T	5/14/98	NA	NA	NA	NA	<0.05	NA	NA	18	NA	0.11	NA	NA	<0.02
Pajarito Canyon																
PCO-3	2	T	5/13/98	NA	NA	NA	NA	<0.05	NA	NA	18	NA	1.1	NA	NA	<0.02
Water Canyon																
WELL 16-2655	2	F	12/15/98	0.04	0.11	<0.01	0.02	0.009	<0.02	<0.005	70	<0.02	0.12	<0.01	0.04	0.08
WELL 16-2656	2	F	12/18/98	<0.01	0.02	<0.01	<0.02	<0.003	<0.02	<0.005	16M	<0.02	0.14	<0.01	<0.01	<0.02
WELL 16-2658	2	F	12/18/98	<0.01	0.64	<0.01	<0.02	<0.003	<0.02	<0.005	16	<0.02	0.18	<0.01	<0.01	<0.02
WELL 16-2659	2	F	12/17/98	<0.01	<0.01	<0.01	<0.02	<0.003	<0.02	<0.005	17	<0.02	0.14	<0.01	<0.01	<0.02

Table 3b - NMED DOE Oversight Bureau Ground-Water Quality Results: Dissolved and Total Metals.

STATION ID			Date	Li (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Pb (mg/L)	Sb (mg/L)	Se (mg/L)	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Tl (mg/L)	V (mg/L)	Zn (mg/L)
SPRINGS																
Garcia Canyon Watershed																
PINE SPRING @ CABIN	2	F	7/14/98	NA	NA	NA	NA	NA	NA	NA	24	NA	0.09	NA	NA	NA
	3	T	7/14/98	NA	0.011	<0.01	NA	<0.005	0.03	NA	NA	NA	NA	NA	NA	NA
	3	F	7/14/98	NA	0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PINE SPRING @ SOURCE	2	F	7/14/98	NA	NA	NA	NA	NA	NA	NA	25	NA	0.07	NA	NA	NA
	3	F	7/14/98	NA	0.014	<0.01	NA	<0.005	<0.01	NA	NA	NA	NA	NA	NA	NA
	3	F	7/14/98	NA	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Los Alamos Canyon Watershed																
BASALT SPRING	2	F	5/29/98	NA	<0.01	NA	NA	<0.003	NA	NA	28M	NA	0.13	NA	NA	<0.02
DP SPRING	3	F	5/06/98	NA	0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3	F	9/2/98	0.011	0.004	<0.01	<0.005	<0.005	<0.01	<0.02	9.2	<0.3	0.10	<0.02	<0.01	<0.02
LA SPRING	2	F	5/29/98	NA	<0.01	NA	NA	<0.003	NA	NA	17	NA	0.18	NA	NA	<0.02
Santa Clara Canyon Watershed																
SCC-3 SPRING	2	T	7/16/98	NA	NA	NA	NA	NA	NA	NA	25	NA	0.05	NA	NA	NA
	2	F	7/16/98	NA	NA	NA	NA	NA	NA	NA	24	NA	0.05	NA	NA	NA
	3	T	7/16/98	NA	NA	NA	NA	NA	NA	<0.02	NA	<0.3	NA	<0.02	<0.01	0.058B
	3	F	7/16/98	0.012	<0.001	<0.1	<0.02	<0.03	<0.004	NA	NA	<0.3	NA	<0.04	<0.008	<0.002
Pajarito Canyon Watershed																
TA-18 SPRING	3	T	7/6/98	NA	NA	NA	NA	<0.005	NA	<0.02	13.6	NA	0.07	NA	NA	NA
	3	F	7/6/98	NA	NA	NA	NA	<0.005	NA	<0.02	15.2	NA	0.07	NA	NA	NA
THREEMILE SPRING (B)	3	T	7/6/98	NA	NA	NA	NA	<0.005	NA	<0.02	15.9	NA	0.07	NA	NA	NA
	3	F	7/6/98	NA	0.21	NA	NA	<0.005	NA	<0.02	17.0	NA	0.08	NA	NA	NA
Water Canyon Watershed																
ALLUVIAL SEEP 100' E 16-2659	2	F	12/17/98	<0.01	<0.01	<0.01	<0.02	<0.003	<0.02	<0.005	16	<0.02	0.14	<0.01	<0.01	<0.02
	3	T	12/17/98	0.007	0.008	<0.01	<0.005	<0.005	0.01	<0.02	17.9	<0.1	0.14	<0.02	<0.01	<0.02
BURNING GROUND	2	F	12/16/98	<0.01	<0.01	<0.01	<0.02	<0.003	<0.02	<0.005	20	<0.02	0.11	<0.01	<0.01	<0.02
CDV-5.0	3	T	2/23/98	NA	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3	F	7/1/98	NA	<0.003	NA	NA	<0.005	NA	NA	NA	NA	NA	NA	NA	NA
MARTIN SPRING	2	F	12/15/98	<0.01	<0.01	<0.01	<0.02	<0.003	<0.02	<0.005	21	<0.02	0.16	<0.01	<0.01	<0.02
SWSC SPRING	2	F	12/16/98	<0.01	0.02	<0.01	<0.02	<0.003	<0.02	<0.005	20	<0.02	0.11	<0.01	<0.01	<0.02

Table 3b - NMED DOE Oversight Bureau Ground-Water Quality Results: Dissolved and Total Metals.

STATION ID			Date	Li (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Pb (mg/L)	Sb (mg/L)	Se (mg/L)	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Tl (mg/L)	V (mg/L)	Zn (mg/L)
White Rock Canyon Watershed																
DOE SPRING	2	F	9/30/98	0.03†	<0.01†	<0.01	<0.02	<0.003	<0.02	<0.005	35	<0.02	0.05	<0.01	<0.01	<0.02
LA MESITA SPRING	2	T	7/7/98	NA	<0.01	NA	NA	<0.003	NA	NA	NA	NA	NA	NA	NA	NA
SANDIA SPRING	2	F	9/28/98	0.03†	<0.07†	<0.01	<0.02	<0.003	<0.02	<0.005	21	<0.02	0.32	<0.01	<0.01	<0.02
SPRING 1	2	T	7/7/98	NA	<0.01	NA	NA	<0.003	NA	NA	NA	NA	NA	NA	NA	NA
	2	F	9/28/98	0.03†	<0.01†	<0.01	<0.02	<0.003	<0.02	<0.005	15	<0.02	0.19	<0.01	0.02	<0.02
SPRING 3A (Sample collected below spring source at Rio Grande)	2	F	9/28/98	0.02†	<0.01†	<0.01	<0.02	<0.003	<0.02	<0.005	23	<0.02	0.21	<0.01	0.01	<0.02
SPRING 6	2	F	9/29/98	0.02†	<0.01†	<0.01	<0.02	<0.003	<0.02	<0.005	34	<0.02	0.06	<0.01	<0.01	<0.02
SPRING 6A	2	F	9/29/98	0.02†	<0.01†	<0.01	<0.02	<0.003	<0.02	<0.005	36	<0.02	0.05	<0.01	<0.01	<0.02
SPRING 8A	2	F	9/29/98	0.02†	<0.01†	<0.01	<0.02	<0.003	<0.02	<0.005	37	<0.02	0.04	<0.01	<0.01	<0.02
SPRING 10	2	T	9/23/98	0.03†	<0.01†	<0.01	<0.02	<0.003	<0.02	<0.005	34	<0.02	0.07	<0.01	0.01	<0.02
Other Springs/Misc.																
HEMINGWAY SPRING	2	T	11/3/98	0.01	<0.01	<0.01	<0.02	<0.003	<0.02	<0.005	21M	<0.02	0.15	<0.01	0.01	<0.02
SACRED SPR. @ SOURCE	2	T	7/7/98	NA	0.01	NA	NA	<0.003	NA	NA	NA	NA	NA	NA	NA	NA
TA-18 CISTERN	3	T	7/6/98	NA	NA	NA	NA	0.005	NA	<0.02	14.4	NA	0.07	NA	NA	NA
	3	F	7/6/98	NA	NA	NA	NA	<0.005	NA	<0.02	15.9	NA	0.07	NA	NA	NA

2 - Paragon Laboratory
3 - CT&E Laboratory
4 - Pinnacle Laboratory
< - not detected above reporting detection limit or method detection limit
B - Analyte found in the associated blank as well as in the sample.
M - Due to the large concentration of analyte in the sample, matrix spike recoveries may not be accurate.
† - Serial dilution results suggest possible physical or chemical interference(s).
NA - Not analyzed or not applicable
T - Total fraction (non-filtered acidified sample)
F - Filtered sample (dissolved fraction passed through a 0.45 micron filter prior to acidification and analysis)
§ - Hold time exceeded
Note: all samples were received by the contract laboratory at 4° +/-2° Celsius.

Table 4a - NMED DOE Oversight Bureau Ground-Water Quality Results: Dissolved and Total Radionuclides.

STATION ID			Date	^{3}H (pCi/L)	UNC/DL	^{90}Sr (pCi/L)	UNC/DL	U (ug/L)	UNC/DL	^{234}U (pCi/L)	UNC/DL	^{235}U (pCi/L)	UNC/DL	^{238}U (pCi/L)	UNC/DL	^{227}Ac (pCi/L)	UNC/DL
WELLS																	
DEEP AQUIFER																	
DT-5A	2	T	11/5/98	NA	-	NA	-	NA	-	0.291	0.083/0.038	0.005	0.019/0.050	0.127	0.052/0.016	NA	-
DT-9	2	T	11/5/98	NA	-	BDL	NP/0.15	NA	-	0.313	0.088/0.050	0.025	0.028/0.050	0.157	0.060/0.050	NA	-
DT-10	2	T	11/6/98	NA	-	NA	-	NA	-	0.49	0.11/0.036	0.015	0.023/0.048	0.178	0.063/0.036	NA	-
R-12 (801')	3	T	6/8/98	NA	-	1.9	0.6/1.2	NA	-	NA	-	NA	-	NA	-	NA	-
	3	F	6/8/98	NA	-	NA	-	NA	-	2.0	0.6/0.3	0.1	0.1/0.2	1.1	0.4/0.2	NA	-
R-12 (803')	3	T	10/15/98	NA	-	BDL	0.6/2.1	NA	-	NA	-	NA	-	NA	-	1.0	0.5/1.1
R-12 (810')	2	T	5/29/98	-39.58	88/140	BDL	NP/0.30	17.1	2.3/1.00	8.3	1.1/0.073	0.35	0.13/0.056	6.18	0.88/0.056	BDL	0.4/1.0
	2	F	5/29/98	NA	-	BDL	NP/0.25	3.42	0.47/0.10	1.63	0.30/0.067	0.112	0.063/0.044	1.29	0.26/0.052	NA	-
	3	T	5/29/98	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	BDL	0.4/1.0
R-25 (747')	3	F	9/30/98	NA	-	NA	-	3	NP/NP	0.5	0.3/0.3	0.1	0.1/0.2	0.2	0.2/0.2	NA	-
R-25 (867')	3	F	10/9/98	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-
TW-1	2	T	5/28/98	143	92/140	BDL	NP/0.24	1.87	0.25/0.10	1.02	0.21/0.041	0.037	0.036/0.048	0.58	0.15/0.048	NA	-
	3	F	9/1/98	NA	-	NA	-	NA	-	1.7	0.6/0.1	0.1	0.1/0.1	0.9	0.4/0.1	0.8	0.5/1.1
TW-3 (initial purge)	2		8/31/98	-21.69	160/260	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-
	3	F	9/1/98	NA	-	0.6	0.5/1.2	NA	-	NA	-	NA	-	NA	-	0.7	0.5/1.1
TW-4	3	F	9/1/98	NA	-	1.0	0.6/1.2	NA	-	NA	-	NA	-	NA	-	1.1	0.5/1.1
TW-8																	
(TIME: 13:36)	2	F	3/24/98	NA	-	BDL	NP/0.84	NA	-	NA	-	NA	-	NA	-	NA	-
(TIME: 14:15)	3	T	3/24/98	NA	-	BDL	0.3/0.6	NA	-	NA	-	NA	-	NA	-	NA	-
(TIME: 14:46)	2	F	3/24/98	NA	-	BDL	NP/0.28	NA	-	NA	-	NA	-	NA	-	NA	-
(TIME: 16:10)	2	F	3/24/98	NA	-	BDL	NP/0.29	NA	-	NA	-	NA	-	NA	-	NA	-
(TIME: 16:10)	3		3/24/98	131	164/268	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-
	2	F	9/2/98	NA	-	BDL	NP/0.58	NA	-	0.50	0.12/0.032	0.020	0.024/0.043	0.175	0.063/0.016	NA	-
DEPOGW4(Santa Clara Pueblo)	2	F	4/6/98	-0.1UM	0.64/0.32	NA	-	1.19	0.16/0.10	0.68	0.20/0.069	0.009	0.039/0.069	0.36	0.14/0.069	NA	-
INTERMEDIATE AQUIFER (VOLCANICS/SEDIMENTARY)																	
POI-4	3	F	9/2/98	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	BDL	0.4/1.1
R-12 (443')	3	F	4/13/98	NA	-	BDL	0.3/0.6	NA	-	1.4	0.6/0.3	0.1	0.1/0.2	0.9	0.4/0.2	NA	-

Table 4a - NMED DOE Oversight Bureau Ground-Water Quality Results: Dissolved and Total Radionuclides.

STATION ID			Date	^{3}H (pCi/L)	UNC/DL	^{90}Sr (pCi/L)	UNC/DL	U (ug/L)	UNC/DL	^{234}U (pCi/L)	UNC/DL	^{235}U (pCi/L)	UNC/DL	^{238}U (pCi/L)	UNC/DL	^{227}Ac (pCi/L)	UNC/DL
R-12 (464')	3	T	4/29/98	225	169/269	BDL	0.6/1.5	NA	-	NA	-	NA	-	NA	-	NA	-
	3	F	4/29/98	NA	-	NA	-	2.4	0.3/0.01	3.8	1.2/0.5	0.4	0.3/0.4	0.9	0.5/0.3	NA	-
TW-1A	2	T	5/29/98	34	89/140	BDL	NP/0.25	0.14	0.02/0.10	0.096	0.061/0.067	0.045	0.043/0.062	0.082	0.055/0.057	NA	-
TW-2A	3	F	9/1/98	NA	-	1.2	0.6/1.2	NA	-	NA	-	NA	-	NA	-	2.0	0.6/1.1
PERCHED CANYON-BOTTOM AQUIFER (Qal & Qbt)																	
Canada del Buey																	
CDBO-6	2	T	5/26/98	185	93/140	BDL	NP/0.22	0.36	0.05/0.10	0.249	0.099/0.047	0.106	0.065/0.061	0.160	0.080/0.067	NA	-
Los Alamos Canyon																	
LAO-0.3	3	F	9/1/98	NA	-	NA	-	NA	-	NA	-	NA	-	1.0	0.5/1.1	NA	-
LAO-0.6	3	F	8/31/98	NA	-	NA	-	NA	-	NA	-	NA	-	1.2	0.5/1.1	NA	-
LAO-0.91	3	F	9/3/98	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	BDL	0.4/1.1
LAO-1.6g	3	F	9/1/98	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	BDL	0.4/1.1
LAO-1.2	3	F	8/31/98	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	0.7	0.5/1.1
LAO-2	3	F	8/31/98	NA	-	14.1	1.1/1.2	NA	-	NA	-	NA	-	NA	-	1.5	0.5/1.1
LAO-3A	3	F	8/31/98	NA	-	35.1	1.6/1.2	NA	-	NA	-	NA	-	NA	-	0.8	0.5/1.1
LAO-4.5C	3	F	8/31/98	NA	-	3.0	0.7/1.2	NA	-	NA	-	NA	-	NA	-	0.3	0.5/1.1
LAO-5	3	F	8/31/98	NA	-	NA	-	NA	-	NA	-	NA	-	0.8	0.5/1.1	NA	-
LAO-6A	2	T	5/14/98	11	210/350	0.92	0.27/NP	0.16	0.02/0.1	NA	-	NA	-	NA	-	NA	-
(DUPLICATE)	2	T	5/14/98	NA	-	0.80	0.26/NP	NA	-	NA	-	NA	-	NA	-	NA	-
LAO-B	3	F	8/31/98	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	1.2	0.5/1.1
LAUZ-1	3	F	5/5/98	NA	-	56.7	1.5/0.6	NA	-	NA	-	NA	-	NA	-	NA	-
	3	F	9/4/98	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	1.0	0.5/1.1
LAUZ-2	3	F	5/5/98	NA	-	69.4	1.6/0.6	NA	-	NA	-	NA	-	NA	-	NA	-
	3	F	9/4/98	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	0.7	0.5/1.1
Mortandad Canyon																	
MCO-2	2	T	8/19/98	11	87/140	0.79	0.42/NP	NA	-	0.35	0.12/0.089	0.046	0.049/0.085	0.36	0.12/0.079	NA	-
MCO-3	2	T	8/20/98	19900	2500/270	47.2	8.6/NP	NA	-	5.67	0.78/0.078	0.177	0.080/0.066	2.25	0.37/0.058	NA	-

Table 4a - NMED DOE Oversight Bureau Ground-Water Quality Results: Dissolved and Total Radionuclides.

STATION ID			Date	^{3}H (pCi/L)	UNC/DL	^{90}Sr (pCi/L)	UNC/DL	U (ug/L)	UNC/DL	^{234}U (pCi/L)	UNC/DL	^{235}U (pCi/L)	UNC/DL	^{238}U (pCi/L)	UNC/DL	^{227}Ac (pCi/L)	UNC/DL
MCO-4B	2	T	5/27/98	13600	1700/240	42.4	7.7/NP	0.95	0.13/0.10	1.44	0.28/0.078	0.084	0.059/0.075	0.29	0.11/0.063	NA	-
MCO-5	2	T	8/20/98	11800	1500/260	35.1	6.4/NP	1.26	0.21/0.10	1.18	0.24/0.081	0.030	0.037/0.065	0.48	0.13/0.047	NA	-
MCO-6	2	T	8/21/98	13600	1700/260	31.7	5.8/NP	1.67	0.27/0.10	1.46	0.25/0.051	0.059	0.043/0.056	0.40	0.11/0.051	NA	-
MCO-7	2	T	8/21/98	16800	2100/260	0.89	0.42/NP	NA	-	NA	-	NA	-	NA	-	NA	-
MCO-7.5	2	T	5/28/98	18300	2300/280	BDL	NP/0.22	1.53	0.21/0.10	0.63	0.16/0.042	0.049	0.043/0.063	0.43	0.13/0.049	NA	-
MCWB-7.7B	2	T	8/26/98	NA	-	BDL	NP/0.50	NA	-	0.90	0.20/0.087	0.023	0.034/0.066	0.74	0.17/0.048	NA	-
MT-3	2	T	8/27/98	NA	-	BDL	NP/0.55	NA	-	0.83	0.19/0.079	0.053	0.048/0.073	0.85	0.19/0.084	NA	-
MT-4	2	T	5/14/98	18400	2500/570	BDL	NP/0.31	1.48	0.20/0.1	0.59	0.13/0.040	0.017	0.021/0.035	0.60	0.13/0.035	NA	-
	3	T	8/26/98	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	1.7	0.5/1.1
Pajarito Canyon																	
PCO-3	2	T	5/13/98	110	220/350	0.78	0.29/NP	3.76	0.51/0.1	NA	-	NA	-	NA	-	NA	-
Water Canyon																	
WELL 16-2655	2		12/15/98	118	19/10	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-
WELL 16-2658	2		12/18/98	109	19/10	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-
WELL 16-2659	2		12/17/98	102	19/10	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-
SPRINGS																	
Los Alamos Canyon Watershed																	
BASALT SPRING	2	F	5/29/98	-54.66	88/140	BDL	NP/0.24	0.39	0.05/0.10	0.242	0.096/0.058	0.028	0.035/0.063	0.166	0.078/0.045	NA	-
LOS ALAMOS SPRING	2	F	5/29/98	4	88/140	NA	NP/0.24	2.16	0.29/0.10	0.97	0.22/0.066	0.118	0.072/0.081	0.61	0.17/0.066	NA	-
			5/29/98	0.45UM	0.70/0.35	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-
DP SPRING	3	F	5/6/98	NA	-	95.0	1.9/0.6	NA	-	0.3	0.2/0.2	0.1	0.1/0.2	BDL	0.1/0.2	5.7	0.7/1.0
	3	F	9/2/98	NA	-	51.6	1.9/1.2	NA	-	1.0	0.4/0.1	BDL	0.1/0.1	0.1	0.2/0.1	1.4	0.5/1.1
	3	F	10/6/98	NA	-	50.9	2.3/1.8	NA	-	NA	-	NA	-	NA	-	NA	-
Pajarito Canyon Watershed																	
TA-18 SPRING	3	F	7/6/98	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-
THREEMILE SPRING (B)	3	F	7/6/98	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-

Table 4a - NMED DOE Oversight Bureau Ground-Water Quality Results: Dissolved and Total Radionuclides.

STATION ID			Date	^{3}H (pCi/L)	UNC/DL	^{90}Sr (pCi/L)	UNC/DL	U (ug/L)	UNC/DL	^{234}U (pCi/L)	UNC/DL	^{235}U (pCi/L)	UNC/DL	^{238}U (pCi/L)	UNC/DL	^{227}Ac (pCi/L)	UNC/DL
Santa Clara Canyon Watershed																	
SCC-3 SPRING	3		7/16/98	27.1	188/314	BDL[T]	0.9/2.4	0.17[F]	0.01/0.01	0.4[F]	0.3/0.3	0.1[F]	0.1/0.2	0.2[F]	0.2/0.2	NA	-
Water Canyon Watershed																	
BURNING GROUND	2		12/16/98	89	19/10	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-
CDV-5.0	3	T	2/23/98	NA	-	NA	-	0.09	0.01/0.01	0.2	0.2/0.3	0.1	0.1/0.2	0.1	0.1/0.2	NA	-
	3	T	7/1/98	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	0.3	0.5/1.0
MARTIN SPRING	2		12/15/98	131	19/10	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-
SWSC SPRING	2		12/16/98	102	19/10	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-
White Rock Canyon Watershed																	
DOE SPRING	3	T	2/3/98	NA	-	NA	-	NA	-	0.2	0.2/0.2	BDL	0.1/0.1	0.2	0.2/0.2	NA	-
	2	F	9/30/98	NA	-	BDL	NP/0.49	0.07[J]	0.01/0.10	0.087	0.042/0.048	0.002	0.019/0.045	0.057	0.031/0.031	NA	-
SANDIA SPRING	2		9/28/98	61	170/280	BDL[F]	NP/0.45	NA	-	0.385[F]	0.086/0.039	0.016[F]	0.020/0.036	0.210[F]	0.058/0.010	1.5[T]	0.5/0.9
SPRING 1	3	T	4/7/98	NA	-	BDL	0.2/0.6	NA	-	NA	-	NA	-	NA	-	NA	-
	2		9/28/98	57	170/280	BDL[F]	NP/0.48	NA	-	1.61[F]	0.24/0.029	0.033[F]	0.031/0.053	0.93[F]	0.16/0.042	1.4[T]	0.5/0.9
SPRING 3A	2	F	9/28/98	NA	-	BDL	NP/0.45	0.68[J]	0.11/1.00	0.74	0.13/0.042	0.022	0.026/0.047	0.401	0.089/0.033	NA	-
Above sample not taken @ source & is considered surface water.																	
SPRING 4A	3	T	2/18/98	NA	-	NA	-	NA	-	0.6	.03/.03	BDL	0.1/0.1	0.2	0.1/0.1	NA	-
SPRING 6	2	F	9/29/98	NA	-	BDL	NP/0.46	0.18	0.03/0.10	0.187	0.056/0.029	0.006	0.017/0.037	0.139	0.047/0.024	NA	-
SPRING 6A	2	F	9/29/98	NA	-	NA	-	NA	-	0.178	0.065/0.056	0.010	0.024/0.053	0.078	0.045/0.056	NA	-
SPRING 8A	2	F	9/29/98	NA	-	BDL	NP/0.49	0.13	0.02/0.10	0.105	0.041/0.011	0.011	0.016/0.030	0.101	0.041/0.030	NA	-
SPRING 9B	3	T	2/3/98	NA	-	NA	-	NA	-	0.2	0.2/.03	BDL	0.1/0.1	BDL	0.1/0.1	NA	-
Other Springs/Misc.																	
HEMINGWAY SPRING	2	T	11/3/98	NA	-	BDL	NP/1.2	NA	-	NA	-	NA	-	NA	-	NA	-
SACRED SPR. @ SOURCE	3	T	4/14/98	NA	-	NA	-	NA	-	2.2	0.9/0.5	0.5	0.3/0.3	1.9	0.7/0.2	NA	-

Table 4a - NMED DOE Oversight Bureau Ground-Water Quality Results: Dissolved and Total Radionuclides.

STATION ID			Date	^{3}H (pCi/L)	UNC/DL	^{90}Sr (pCi/L)	UNC/DL	U (ug/L)	UNC/DL	^{234}U (pCi/L)	UNC/DL	^{235}U (pCi/L)	UNC/DL	^{238}U (pCi/L)	UNC/DL	^{227}Ac (pCi/L)	UNC/DL
TA-18 CISTERN	3	F	7/6/98	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-

2 - Paragon Laboratory

3 - CT&E Laboratory

UM - Tritium results provided by the University of Miami, Tritium Laboratory; all tritium samples were submitted as non-filtered and non-acidified.

NA - Not analyzed or not applicable

T - Total fraction (non-filtered acidified sample)

F - Filtered sample (dissolved fraction passed through a 0.45 micron filter prior to acidification and analysis)

J - Estimated value; result between Method Detection Limit and Reporting Limit.

Note: all samples were received by the contract laboratory at 4° +/-2° Celsius.

Table 4b - NMED DOE Oversight Bureau Ground-Water Quality Results:Dissolved and Total Radionuclides.

STATION ID			Date	238Pu (pCi/L)	UNC/DL	239/240 Pu (pCi/L)	UNC/DL	241Am (pCi/L)	UNC/DL	237Np (pCi/L)	UNC/DL	Gross Alpha (pCi/L)	UNC/DL	Gross Beta (pCi/L)	UNC/DL
WELLS															
DEEP AQUIFER															
DT-5A	2	T	11/5/98	-0.011	0.032/0.085	0.015	0.019/0.034	0.019	0.019/0.016	0.01	0.05/0.05	BDL	NP/1.4	BDL	NP/2.0
DT-9	2	T	11/5/98	0.005	0.017/0.045	0.001	0.015/0.034	0.015	0.018/0.017	0.00	0.05/0.06	0.94	0.52/NP	BDL	NP/1.2
DT-10	2	T	11/6/98	0.014	0.021/0.042	0.010	0.019/0.042	0.017	0.019/0.029	0.00	0.05/0.06	BDL	NP/1.2	BDL	[illegible]
R-12 (801')	3	F	6/8/98	NA	-	NA	-	NA	-	NA	-	5.1	1.8/2.4	13.6	1.7/2.2
R-12 (810')	2	T	5/29/98	-0.006	0.014/0.044	0.011	0.015/0.026	0.000	0.017/0.051	0.040	0.051/0.095	24.1	9.2/NP	15.8	8.0/NP
	2	F	5/29/98	0.022	0.027/0.051	0.005	0.015/0.032	0.035	0.031/0.048	-0.002	0.030/0.098	2.7	1.6/NP	BDL	NP/3.0
R-25 (747')	3	F	9/30/98	NA	-	NA	-	NA	-	NA	-	0.4	0.5/0.9	4.1	0.9/1.2
R-25 (867')	3	F	10/9/98	NA	-	NA	-	NA	-	NA	-	0.6	0.5/0.9	0.3	0.8/1.3
TW-1	2	T	5/28/98	0.011	0.019/0.040	0.010	0.016/0.032	0.022	0.022/0.016	NA	-	BDL	NP/2.5	BDL	NP/3.0
TW-8	2	F	9/2/98	0.004	0.014/0.013	0.004	0.014/0.013	0.028	0.036/0.067	NA	-	NA	-	NA	-
DEPOGW4(Santa Clara Pueblo)	2	F	4/6/98	NA	-	NA	-	NA	-	NA	-	BDL	NP/1.4	BDL	NP/2.1
INTERMEDIATE AQUIFER (VOLCANICS/SEDIMENTARY)															
TW-1A	2	T	5/29/98	-0.004	0.022/0.061	0.119	0.050/0.037	0.014	0.026/0.055	NA	-	BDL	NP/2.5	4.9	1.8/NP
PERCHED CANYON-BOTTOM AQUIFER (Qal & Qbt)															
Canada del Buey															
CDBO-6	2	T	5/26/98	0.010	0.031/0.070	0.003	0.015/0.027	0.003	0.022/0.057	NA	-	6.7	2.0/NP	10.0	2.2/NP
Los Alamos Canyon															
LAO-1.2	3	F	8/31/98	NA	-	NA	-	NA	-	NA	-	BDL	0.8/1.4	5.8	1.0/1.4
LAO-6A	2	T	5/14/98	NA	-	NA	-	NA	-	NA	-	BDL	NP/0.74	5.41	0.94/NP

Table 4b - NMED DOE Oversight Bureau Ground-Water Quality Results:Dissolved and Total Radionuclides.

STATION ID			Date	238Pu (pCi/L)	UNC/DL	239/240 Pu (pCi/L)	UNC/DL	241Am (pCi/L)	UNC/DL	237Np (pCi/L)	UNC/DL	Gross Alpha (pCi/L)	UNC/DL	Gross Beta (pCi/L)	UNC/DL
Mortandad Canyon															
MCO-2	2	T	8/19/98	0.011	0.014/0.022	0.034	0.020/0.0086	0.028	0.022/0.027	NA	-	NA	-	NA	-
MCO-3	2	T	8/20/98	0.70	0.13/0.078	0.145	0.049/0.047	0.425	0.096/0.054	NA	-	NA	-	NA	-
MCO-4B	2	T	5/27/98	0.025	0.025/0.041	0.026	0.023/0.027	1.27	0.22/0.083	NA	-	BDL	NP/2.6	145	15/NP
MCO-5	2	T	8/20/98	0.006	0.024/0.047	0.034	0.022/0.023	1.10	0.18/0.082	0.021	0.023/0.036	NA	-	NA	
MCO-6	2	T	8/21/98	0.021	0.018/0.026	0.021	0.017/0.023	1.20	0.18/0.022	NA	-	NA	-	NA	-
MCO-7.5	2	T	5/28/98	0.026	0.031/0.057	0.009	0.018/0.039	0.375	0.100/0.048	NA	-	BDL	NP/2.6	40.4	4.7/NP
MT-4	2	T	5/14/98	0.021	0.031/0.062	0.015	0.023/0.044	0.282	0.083/0.037	NA	-	1.92	0.91/NP	38.2	4.0/NP
Pajarito Canyon															
PCO-3	2	T	5/13/98	NA	-	NA	-	NA	-	NA	-	BDL	NP/6.0	6.9	4.0/NP
SPRINGS															
Los Alamos Canyon Watershed															
BASALT SPRING	2	F	5/29/98	0.022	0.022/0.029	0.022	0.022/0.029	0.016	0.031/0.065	NA	-	BDL	NP/2.5	8.9	2.
LOS ALAMOS SPRING	2	F	5/29/98	-0.006	0.017/0.041	0.000	0.017/0.015	0.011	0.024/0.054	NA	-	BDL	NP/2.2	BDL	NP/3.1
Pajarito Canyon Watershed															
TA-18 SPRING	3	F	7/6/98	NA	-	NA	-	NA	-	NA	-	BDL	0.4/0.7	2.3	0.5/0.7
THREEMILE SPRING (B)	3	F	7/6/98	NA	-	NA	-	NA	-	NA	-	BDL	0.4/0.6	3.9	0.5/0.7
Santa Clara Canyon Watershed															
SCC-3 SPRING	3		7/16/98	1.4[T]	0.8/0.5	BLD[T]	0.4/0.5	0.2[T]	0.2/0.3	NA	-	0.8[F]	0.3/0.5	3.6[F]	0.5/0.8

Table 4b - NMED DOE Oversight Bureau Ground-Water Quality Results:Dissolved and Total Radionuclides.

STATION ID			Date	238Pu (pCi/L)	UNC/DL	239/240 Pu (pCi/L)	UNC/DL	241Am (pCi/L)	UNC/DL	237Np (pCi/L)	UNC/DL	Gross Alpha (pCi/L)	UNC/DL	Gross Beta (pCi/L)	UNC/DL
Water Canyon Watershed															
CDV-5.0	3	T	2/23/98	NA	-	NA	-	NA	-	NA	-	0.3	0.4/0.6	3.0	0.5/0.7
White Rock Canyon Watershed															
DOE SPRING	2	F	9/30/98	NA	-	NA	-	NA	-	NA	-	BDL	NP/1.1	BDL	
SANDIA SPRING	2	F	9/28/98	NA	-	NA	-	NA	-	NA	-	1.45	0.76/NP	1.55	0.90/NP
SPRING 1	3	T	4/7/98	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-
	2	F	9/28/98	NA	-	NA	-	NA	-	NA	-	2.58	0.84/NP	2.39	0.97/NP
SPRING 3A	2	F	9/28/98	NA	-	NA	-	NA	-	NA	-	BDL	NP/1.1	3.10	0.93/NP
Above sample not taken @ source & is considered surface water.															
SPRING 6	2	F	9/29/98	NA	-	NA	-	NA	-	NA	-	BDL	NP/0.94	1.42	0.83
SPRING 8A	2	F	9/29/98	NA	-	NA	-	NA	-	NA	-	BDL	NP/1.1	BDL	NP/1.4
Other Springs/Misc.															
TA-18 CISTERN	3	F	7/6/98	NA	-	NA	-	NA	-	NA	-	BDL	0.5/0.7	4.6	0.6/0.7

2 - Paragon Laboratory

3 - CT&E Laboratory

NA - Not analyzed or not applicable

T - Total fraction (non-filtered acidified sample)

F - Filtered sample (dissolved fraction passed through a 0.45 micron filter prior to acidification and analysis)

Note: all samples were received by the contract laboratory at 4° +/-2° Celsius.

Table 4c - NMED DOE Oversight Bureau Ground-Water Quality Results: Dissolved and Total Radionuclides (Gamma Spec.).

STATION ID		Date	^{241}Am (pCi/L)	UNC	^{137}Cs (pCi/L)	UNC	^{60}Co (pCi/L)	UNC	^{212}Pb (pCi/L)	UNC	^{214}Pb (pCi/L)	UNC	^{228}Ac (pCi/L)	UNC	^{208}Tl (pCi/L)	UNC	^{214}Bi (pCi/L)	UNC	^{212}Bi (pCi/L)	UNC	^{22}Na (pCi/L)	UNC	^{85}Sr (pCi/L)	UNC
WELLS																								
DEEP AQUIFER																								
DT-5A	2 T	11/5/98	<6.4	BDL	<2.2	BDL	<2.2	BDL	2.4	4.1	<4.0	BDL	<7.5	BDL	<2.2	BDL	<4.9	BDL	<25	BDL	<2.6	BDL	<3.7	BDL
DT-9	2 T	11/5/98	<19	BDL	<3.5	BDL	<4.3	BDL	<3.9	BDL	<5.2	BDL	<13	BDL	<3.0	BDL	<7.7	BDL	<41	BDL	<4.0	BDL	<5.5	BDL
DT-10	2 T	11/6/98	<16	BDL	<3.8	BDL	<4.0	BDL	<3.8	BDL	<6.1	BDL	<14	BDL	<3.9	BDL	<7.6	BDL	<46	BDL	<4.6	BDL	<6.0	BDL
TW-8	2 F	9/2/98	<28	BDL	<7.5	BDL	<10	BDL	<8.9	BDL	<12	BDL	<23	BDL	<7.5	BDL	<13	BDL	<95	BDL	<9.8	BDL	<15	BDL
PERCHED CANYON-BOTTOM AQUIFER (Qal)																								
Mortandad Canyon																								
MCO-2	2 T	8/19/98	<13	BDL	<4.0	BDL	<4.0	BDL	<5.2	BDL	<6.7	BDL	<11	BDL	<3.7	BDL	<8.1	BDL	<46	BDL	<4.8	BDL	<8.6	BDL
MCO-3	2 T	8/20/98	<27	BDL	<7.3	BDL	<8.8	BDL	<8.6	BDL	<11	BDL	<32	BDL	<7.7	BDL	<14	BDL	<74	BDL	11.5	8.7	31	14
MCO-5	2 T	8/20/98	<51	BDL	<8.1	BDL	<9.1	BDL	<9.0	BDL	<11	BDL	<23	BDL	<6.6	BDL	<12	BDL	<87	BDL	14.3	7.8	<16	BDL

2 - Paragon Laboratory

T - Total fraction (non-filtered acidified sample)

F - Filtered sample (dissolved fraction passed through a 0.45 micron filter prior to acidification and analysis)

Note: all samples were received by the contract laboratory at 4° +/-2° Celsius.

Table 5a - NMED DOE Oversight Bureau Ground-Water Quality Results: High Explosive Compounds.

WELLS AND SPRINGS

SAMPLE ID: / SAMPLING DATE: / PARAMETER	R-25 (747')[3] 9/30/98 RESULT (µg/L)	DL	R-25 (747')[2] 9/30/98 *RESULT (µg/L)	DL	R-25 (867')[3] 10/9/98 RESULT (µg/L)	DL	R-25 (1184')[2] 12/3/98 *RESULT (µg/L)	DL
2-AMINO-4,6-DNT	BDL	10	BDL	0.25	BDL	10	0.5	0.25
4-AMINO-2,6-DNT	BDL	10	BDL	0.25	BDL	10	0.25J	0.25
OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE (H	BDL	13	BDL	1.0	BDL	13	BDL	1
HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE (RDX)	BDL	14	9.6	0.84	BDL	14	2.5	0.84
1,3,5-TRINITROBENZENE (1,3,5-TNB)	BDL	7.3	BDL	0.26	BDL	7.3	BDL	0.26
1,3-DINITROBENZENE (1,3-DNB)	BDL	4.0	BDL	0.25	BDL	4.0	BDL	0.25
TETRYL	BDL	44	BDL	1.0	BDL	44	BDL	1
NITROBENZENE (NB)	BDL	26	BDL	1.0	BDL	26	BDL	1
NITROGLYCERIN	BDL	50	BDL	5	BDL	50	BDL	5
PENTAERYTHRITOL TETRANITRITE	BDL	50	BDL	5	BDL	50	BDL	5
2,4,6-TRINITROTOLUENE (2,4,6-TNT)	BDL	6.9	BDL	0.25	BDL	6.9	BDL	0.25
2,4-DINITROTOLUENE(2,4-DNT)	BDL	5.7	BDL	0.25	BDL	5.7	0.63	0.25
2,6-DINITROTOLUENE(2,6-DNT)	BDL	9.4	BDL	0.25	BDL	9.4	BDL	0.25
o-NITROTOLUENE (2-NT)	BDL	12	BDL	1.0	BDL	12	BDL	1
p-NITROTOLUENE (4-NT)	BDL	8.5	BDL	1.0	BDL	8.5	0.99J	1
m-NITROTOLUENE (3-NT)	BDL	7.9	BDL	1.0	BDL	7.9	1.60	1

2 - Paragon Laboratory

3 - CT&E Laboratory

4 - Pinnacle Laboratory

Method Used: Modified 8330

B - Analyte found in blank

BDL - Below method detection limits

DL - Detection limit (ug/L)

* - Sample out of hold time

Note: all samples were received by the contract laboratory at 4° +/-2° Celsius.

Table 5b - NMED DOE Oversight Bureau Ground-Water Quality Results: High Explosive Compounds.

WELLS AND SPRINGS

SAMPLE ID: / SAMPLING DATE: / PARAMETER	R-25 (1249')[4] 12/18/98 *RESULT (µg/L)	DL	TA-18 CISTERN[3] 7/6/98 RESULT (µg/L)	DL	TA-18 SPRING[3] 7/6/98 RESULT (µg/L)	DL	THREEMILE SPRING(B)[3] 7/6/98 RESULT (µg/L)	DL
2-AMINO-4,6-DNT	BDL	0.40	BDL	10	BDL	10	BDL	10
4-AMINO-2,6-DNT	BDL	0.90	BDL	10	BDL	10	BDL	10
OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE (H	BDL	0.20	BDL	13	BDL	13	BDL	13
HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE (RDX)	BDL	0.20	BDL	14	BDL	14	BDL	14
1,3,5-TRINITROBENZENE (1,3,5-TNB)	BDL	0.10	BDL	7.3	BDL	7.3	BDL	7.3
1,3-DINITROBENZENE (1,3-DNB)	BDL	0.20	59B	4.0	41B	4.0	66B	4.0
TETRYL	BDL	0.60	BDL	44	BDL	44	BDL	44
NITROBENZENE (NB)	BDL	0.40	BDL	26	BDL	26	BDL	26
NITROGLYCERIN	BDL	6	BDL	50	BDL	50	BDL	50
PENTAERYTHRITOL TETRANITRITE	BDL	6	BDL	50	BDL	50	BDL	50
2,4,6-TRINITROTOLUENE (2,4,6-TNT)	BDL	0.60	BDL	6.9	BDL	6.9	BDL	6.9
2,4-DINITROTOLUENE(2,4-DNT)	BDL	0.40	BDL	5.7	BDL	5.7	BDL	5.7
2,6-DINITROTOLUENE(2,6-DNT)	BDL	0.40	BDL	9.4	BDL	9.4	BDL	9.4
o-NITROTOLUENE (2-NT)	BDL	0.40	BDL	1.2	BDL	1.2	BDL	1.2
p-NITROTOLUENE (4-NT)	BDL	0.40	BDL	8.5	BDL	8.5	BDL	8.5
m-NITROTOLUENE (3-NT)	BDL	0.40	BDL	7.9	BDL	7.9	BDL	7.9

2 - Paragon Laboratory

3 - CT&E Laboratory

4 - Pinnacle Laboratory

Method Used: Modified 8330

B - Analyte found in blank

BDL - Below method detection limits

DL - Detection limit (ug/L)

* - Sample out of hold time

Note: all samples were received by the contract laboratory at 4° +/-2° Celsius.

Table 6 - NMED DOE Oversight Bureau Ground-Water Quality Results: Semi-volatile fraction TPH.

SAMPLE ID:	DP SPRING	
SAMPLING DATE:	9/16/98	
UNITS	ug/L	DL
PARAMETER		
SEMI-VOLATILE FRACTION TPH	0.3	0.2

SAMPLE ID:	LAUZ - 1	
SAMPLING DATE:	9/17/98	
UNITS	ug/L	DL
PARAMETER		
SEMI-VOLATILE FRACTION TPH	ND	0.2

SAMPLE ID:	LAUZ - 2	
SAMPLING DATE:	9/17/98	
UNITS	ug/L	DL
PARAMETER		
SEMI-VOLATILE FRACTION TPH	ND	0.2

SAMPLE ID:	DP SPRING	
SAMPLING DATE:	10/6/98	
UNITS	ug/L	DL
PARAMETER		
SEMI-VOLATILE FRACTION TPH	ND	0.2

DL- Method detection limit

ND - Not detected

Contract Laboratory Used: CT&E

Semi-Volatile Fraction TPH Analysis Method: SW-846 Mtd. 8015.

Semi-Volatile Fraction TPH Extraction Methods: SW-846 Mtd. 3510C.

Table 7 - NMED DOE Oversight Bureau Ground-Water Quality Results: Semi-Volatile Organics.

SAMPLE ID:	DP SPRING				
SAMPLING DATE:	10/6/98				
UNITS	ug/L	DL	UNITS	ug/L	DL
PARAMETER			PARAMETER		
1,2,4,-TRICHLOROBENZENE	ND	5	BENZO(G,H,I)PERYLENE	ND	5
1,2-DICHLOROBENZENE	ND	5	BENZO(K)FLUORANTHENE	ND	5
1,3,-DICHLOROBENZENE	ND	5	BIS (2-CHLOROETHOXY) METHA	ND	5
1,4,-DICHLOROBENZENE	ND	5	BIS (2-CHLOROETHYL) ETHER	ND	5
2,4,5-TRICHLOROPHENOL	ND	5	BIS (2-CHLOROISOPROPYL) ETH	ND	5
2,4,6-TRICHLOROPHENOL	ND	5	BIS(2-ETHYLHEXYL)PHTHALATE	ND	5
2,4-DICHLOROPHENOL	ND	5	BUTYL BENZYL PHTHALATE	ND	5
2,4-DIMETHYLPHENOL	ND	5	CARBAZOLE	ND	5
2,4-DINITROPHENOL	ND	20	CHRYSENE	ND	5
2,4-DINITROTOLUENE	ND	5	DI-N-BUTYL PHTHALATE	ND	5
2,6-DINITROTOLUENE	ND	5	DI-N-OCTYL PHTHALATE	ND	5
2-CHLORONAPHTHALENE	ND	5	DIBENZO(A,H)ANTHRACENE	ND	5
2-CHLOROPHENOL	ND	5	DIBENZOFURAN	ND	5
2-METHYLNAPHTHALENE	ND	5	DIETHYL PHTHALATE	ND	5
2-METHYLPHENOL	ND	5	DIMETHYL PHTHALATE	ND	5
2-NITROANILINE	ND	20	FLUORANTHENE	ND	5
2-NITROPHENOL	ND	5	FLUORENE	ND	5
3,3-DICHOLOROBENZIDINE	ND	20	HEXACHLOROBENZENE	ND	5
3 & 4 METHYLPHENOL	ND	10	HEXACHLOROBUTADIENE	ND	5
3-NITROANILINE	ND	20	HEXACHLOROCYCLOPENTADIE	ND	5
4,6-DINITRO-2-METHYL PHENOL	ND	20	HEXACHLOROETHANE	ND	5
4-BROMOPHENYL PHENYL ETHER	ND	5	INDENO(1,2,3-CD)PYRENE	ND	5
4-CHLORO-3-METHYLPHENOL	ND	5	ISOPHORONE	ND	5
4-CHLOROANILINE	ND	20	N-NITROSO-DI-N-PROPYLAMINE	ND	5
4-CHLOROPHENYL PHENYL ETHER	ND	5	N-NITROSODIMETHYLAMINE	NA	-
4-NITROANILINE	ND	20	N-NITROSODIPHENYLAMINE	ND	5
4-NITROPHENOL	ND-J	20	NAPHTHALENE	ND	5
ACENAPHTHENE	ND	5	NITROBENZENE	ND	5
ACENAPHTHYLENE	ND	5	PENTACHLOROPHENOL	ND	5
ANTHRACENE	ND	5	PHENANTHRENE	ND	5
BENZO(A)ANTHRACENE	ND	5	PHENOL	ND	5
BENZO(A)PYRENE	ND	5	PYRENE	ND	5
BENZO(B)FLUORANTHENE	ND	5			

DL- Method detection limit

NA - Not analyzed

ND - Not detected

J - Indicates an estimated value for tentatively identified components, or compounds detected and identified but present at a concentration less than the practical quantitation limit.

Contract Laboratory Used: CT&E.

Semi-Volatile Organic Analysis Method: SW-846 Mtd. 8270C.

Semi-Volatile Extraction Method: SW-846 Mtd. 3510C.