2/9/04

Table 1 - Preliminary NMED performance-evaluation results for perchlorate analysis via Severn Trent Laboratory using method 8321A (LC/MS/MS).

Station ID	Date Sampled	NMED DOE OB PE Results: ERA Spike Conc. Added (ug/L)	LC/MS/MS Result (ug/L)	% REC	MDL	PQL/RL	Q	Est. Uncert. (1 sigma)	RPD LANL	RPD LANL DUP	LANL PE Results (splits only): ERA Spike Conc. Added (ug/L)	LC/MS/MS Result (ug/L)	% REC	MDL	PQL/RL	Q	Est. Uncert. (1 sigma)	LANL PE Duplicate? Results (splits only): ERA Spike Conc. Added (ug/L)	LC/MS/MS Result (ug/L)	% REC	MDL	PQL/RL	Q	Est. Uncert. (1 sigma)	LANL PE Average Results (splits only): ERA Spike Conc. Added (ug/L)	LC/MS/MS Average Result (ug/L)	% REC	MDL	PQL/RL	Q	Est. Uncert. (1 sigma)
PA #4																															
Spring 4C (unspiked)	5/12/2003	N/A	0.56	N/A	0.05	0.20		0.11	-7.23	-14.88	N/A	0.602	N/A	0.05	0.20			N/A	0.65	N/A	0.05	0.20			N/A	0.602/0.650	0.626	N/A	0.05	0.20		
Spring 4C (spiked with 0.05 ug/L)	5/12/2003	0.05	0.77	420	0.10	0.40		0.14	13.89	14.63	0.05	0.67	136	0.05	0.20			0.05	0.665	30	0.05	0.20			0.05	0.670/0.665	0.668	83	0.05	0.20		
Spring 4C (spiked with 0.10 ug/L)	5/12/2003	0.10	0.9	340	0.05	0.20		0.16	27.42	27.13	0.10	0.683	81	0.05	0.20			0.10	0.685	35	0.05	0.20			0.10	0.683/0.685	0.684	58	0.05	0.20		
Spring 4C (spiked with 0.20 ug/L)	5/12/2003	0.20	0.73	85	0.05	0.20		0.13	-11.37	-14.25	0.20	0.818	108	0.05	0.20			0.20	0.842	96	0.05	0.20			0.20	0.818/0.842	0.830	102	0.05	0.20		
Spring 4C (spiked with 0.50 ug/L)	5/12/2003	0.50	1.1	108	0.10	0.40		0.19	-1.80	3.70	0.50	1.12	103.6	0.10	0.40			0.50	1.06	82	0.10	0.40			0.50	1.120/1.060	1.090	93	0.10	0.40		
PM-5 (unspiked)	5/12/2003	N/A	0.25	N/A	0.05	0.20		0.05	-26.39	-18.18	N/A	0.326	N/A	0.05	0.20			N/A	0.3	N/A	0.05	0.20			N/A	0.326/0.300	0.313	N/A	0.05	0.20		
PM-5 (spiked with 0.05 ug/L)	5/12/2003	0.05	0.27	40	0.05	0.20		0.05	-23.82	-36.36	0.05	0.343	34	0.05	0.20			0.05	0.39	180	0.05	0.20			0.05	0.343/0.390	0.367	107	0.05	0.20		
PM-5 (spiked with 0.10 ug/L)	5/12/2003	0.10	0.48	230	0.05	0.20		0.09	6.67	9.61	0.10	0.449	123	0.05	0.20			0.10	0.436	136	0.05	0.20			0.10	0.449/0.436	0.443	130	0.05	0.20		
PM-5 (spiked with 0.20 ug/L)	5/12/2003	0.20	0.43	90	0.05	0.20		0.09	-21.58	-10.78	0.20	0.534	104	0.05	0.20			0.20	0.479	90	0.05	0.20			0.20	0.534/0.479	0.507	97	0.05	0.20		
PM-5 (spiked with 0.50 ug/L)	5/12/2003	0.50	0.66	82	0.05	0.20		0.12	-26.32	-15.77	0.50	0.86	106.8	0.05	0.20			0.50	0.773	95	0.05	0.20			0.50	0.860/0.773	0.817	101	0.05	0.20		
Pajarito Pump #1 (unspiked)	5/12/2003	N/A	0.092	N/A	0.05	0.20	J	0.02	5.59	27.16	N/A	0.087	N/A	0.05	0.20	J		N/A	0.07	N/A	0.05	0.20	J		N/A	0.087/0.070	0.079	N/A	0.05	0.20	J	
Pajarito Pump #1 (spiked with 0.05 ug/L)	5/12/2003	0.05	0.14	96	0.05	0.20	J	0.03	9.74	22.22	0.05	0.127	80	0.05	0.20	J		0.05	0.112	84	0.05	0.20	J		0.05	0.127/0.112	0.120	82	0.05	0.20	J	
Pajarito Pump #1 (spiked with 0.10 ug/L)	5/12/2003	0.10	0.39	298	0.05	0.20		0.08	73.20	86.24	0.10	0.181	94	0.05	0.20	J		0.10	0.155	85	0.05	0.20	J		0.10	0.181/0.155	0.168	90	0.05	0.20	J	
Pajarito Pump #1 (spiked with 0.20 ug/L)	5/12/2003	0.20	0.28	94	0.05	0.20		0.05	20.04	1.80	0.20	0.229	71	0.05	0.20			0.20	0.275	103	0.05	0.20			0.20	0.229/0.275	0.252	87	0.05	0.20		
Pajarito Pump #1 (spiked with 0.50 ug/L)	5/12/2003	0.50	0.50	81.6	0.05	0.20		0.09	9.21	10.30	0.50	0.456	73.8	0.05	0.20			0.50	0.451	76	0.05	0.20			0.50	0.456/0.451	0.454	75	0.05	0.20		
Buckman #2 (unspiked)	5/12/2003	N/A	0.26	N/A	0.05	0.20		0.05	30.60	70.83	N/A	0.191	N/A	0.05	0.20	J		N/A	0.124	N/A	0.05	0.20	J		N/A	0.191/0.124	0.158	N/A	0.05	0.20	J	
Buckman #2 (spiked with 0.05 ug/L)	5/12/2003	0.05	0.25	-20	0.05	0.20		0.05	-6.20	14.59	0.05	0.266	150	0.05	0.20			0.05	0.216	184	0.05	0.20			0.05	0.266/0.216	0.241	167	0.05	0.20		
Buckman #2 (spiked with 0.10 ug/L)	5/12/2003	0.10	0.26	0	0.05	0.20		0.05	-4.51	16.22	0.10	0.272	81	0.05	0.20			0.10	0.221	97	0.05	0.20			0.10	0.272/0.221	0.247	89	0.05	0.20		
Buckman #2 (spiked with 0.20 ug/L)	5/12/2003	0.20	0.3	20	0.05	0.20		0.06	-25.83	-20.36	0.20	0.389	99	0.05	0.20			0.20	0.368	122	0.05	0.20			0.20	0.389/0.368	0.379	111	0.05	0.20		
Buckman #2 (spiked with 0.50 ug/L)	5/12/2003	0.50	0.74	96	0.05	0.20		0.13	20.73	22.06	0.50	0.601	82	0.05	0.20			0.50	0.593	94	0.05	0.20			0.50	0.601/0.593	0.597	88	0.05	0.20		
ERA DI (unspiked)	5/12/2003	N/A	<0.05	N/A	0.05	0.20	U	0.02	0?	0?	N/A	0.000	N/A	0.05	0.20	U		N/A	0.000	N/A	0.05	0.20	U		N/A	0.000/0.000	0.000	N/A	0.05	0.20	U	
ERA DI (spiked with 0.05 ug/L)	5/12/2003	0.05	<0.05	?	0.05	0.20	U	0.02	?	?	0.05	0.059	118	0.05	0.20	J		0.05	0	?	0.05	0.20	U		0.05	0.059/0.000	0.030	59	0.05	0.20	J	
ERA DI (spiked with 0.10 ug/L)	5/12/2003	0.10	0.12	120	0.05	0.20	J	0.03	19.18	21.20	0.10	0.099	99	0.05	0.20	J		0.10	0.097	97	0.05	0.20	J		0.10	0.099/0.097	0.098	98	0.05	0.20	J	
ERA DI (spiked with 0.20 ug/L)	5/12/2003	0.20	0.14	70	0.05	0.20	J	0.03	-26.63	-22.22	0.20	0.183	91.5	0.05	0.20	J		0.20	0.175	88	0.05	0.20	J		0.20	0.183/0.175	0.179	90	0.05	0.20	J	
Taos#5 (upspiked)	5/13/2003	N/A	0.22	N/A	0.05	0.20		NA			N/A	Pending	N/A					N/A	Pending	N/A					N/A	Pending		N/A				
Espanola South Well	5/13/2003	N/A	0.17	N/A	0.05	0.20	J	NA			N/A	Pending	N/A					N/A	Pending	N/A					N/A	Pending		N/A				
Albuquerque Ridgecrest Well 1	5/15/2003	N/A	0.24	N/A	0.05	0.20		NA			N/A	Pending	N/A					N/A	Pending	N/A					N/A	Pending		N/A				

SW846 8321A - Liquid Chromatography Mass Spectrometry Mass Spectrometry.
Q - Flags which indicate problems or issues that may effect the result.
J - Indicates an estimated value that is less than the reporting limit (quantitation limit) but greater than the method detection limit (MDL).
U - Indicates that the compound was analyzed for but not detected above the MDL.
PQL/RL - Practical Quantitation Limit/Reporting Limit which is defined as the smallest amount that can be reliably measured with good confidence.
Relative standard deviation (Est. Uncert., 1 sigma) as a function of perchlorate concentration was calculated from eight replicates at each concentration prepared in water.
% Recovery calculation: Post-Spike Concentration - Pre-Spike Concentration / Spike Concentration
RPD = Relative percent difference or Rd%= [X1 - X2}/Xave x 100; where X1 is the NMED result and X2 is the LANL result(s), and Xave is ((X1 + X2) / 2).

LANL General (Perchlorate Analyses, Wells, springs
NMED Analyses

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PERFORMANCE ASSESSMENTS/EVALUATIONS

PA #1												
Blind Matrix Spike Results												
Spring 4C	1/28/2002	0.3 - 0.4	HWB	ACC	SW846 8321A	0.25	0.5	J	NA	NA	NA	NA
E1-HWB/201121-01 - 1.0 ppb spike Spring 4C	1/28/2002	1.3	HWB	ACC	SW846 8321A	NA	NA		0.3 - 0.4	1.002	1.3	100
E5-HWB/201121-02 - 0.5 ppb spike Spring 4C	1/28/2002	0.61	HWB	ACC	SW846 8321A	NA	NA		0.3 - 0.4	0.501	0.61	62
American Spring	1/29/2002	0.3	HWB	ACC	SW846 8321A	0.25	0.5	J	NA	NA	NA	NA
E1-AS/201121-03 - 1.0 ppb spike American Spring	1/29/2002	1.3	HWB	ACC	SW846 8321A	NA	NA		0.3	1.002	1.3	100
E5-AS/201121-04 - 0.5 ppb spike American Spring	1/29/2002	0.91	HWB	ACC	SW846 8321A	NA	NA		0.3	0.501	0.91	122
Blank and Blind-Blank Spike Results												
P1/201121-05 - Blank only	Prepared on 1/30/02?	ND	HWB	ACC	SW846 8321A	0.25	0.5	U	ND	NA	NA	NA
P2/201121-06 - 0.5 ppb blank spike	Prepared on 1/30/02?	0.58	HWB	ACC	SW846 8321A	0.25	0.5		<0.25	0.501	0.58	116 [2]
P3/201121-07 - 1.0 ppb blank spike	Prepared on 1/30/02?	0.98	HWB	ACC	SW846 8321A	0.25	0.5		<0.25	1.002	0.98	98 [2]
P4/201121-08 - 16.7 ppb blank spike	Prepared on 1/30/02?	13	HWB	ACC	SW846 8321A	0.25	0.5		<0.25	16.7	13	78 [2]

PA #2												
Pajarito Ski Area	3/20/2002	ND	EPA	ACC	SW846 8321A	0.25	1.25	U	NA	NA	NA	NA
Pajarito Ski Area (03-20-02) spiked with 0.5 ppb	3/21/2002	0.288	EPA	ACC	SW846 8321A	0.25	1.25	J	<0.25	0.5	0.288	58 [2]

PA #3												
Blank spiked at 0.5 ppb	Prepared on 8/05/02?	0.567	DOE OB	GEL	SW846 8321A	0.207	1.00	J	assumed 0 ppb	0.508	0.567	112 [2]
American Spring	8/1/2002	0.503	DOE OB	GEL	SW846 8321A	0.207	1.00	J	NA	NA	NA	NA
American Spring (08-01-02) spiked with 0.307 ppb	Prepared on 8/05/02?	0.639	DOE OB	GEL	SW846 8321A	0.207	1.00	J	0.503	0.307	0.639	44
American Spring (08-01-02) spiked with 1.269 ppb	Prepared on 8/05/02?	1.66	DOE OB	GEL	SW846 8321A	0.207	1.00		0.503	1.269	1.66	91
American Spring (08-01-02) spiked with 2.004 ppb	Prepared on 8/05/02?	2.51	DOE OB	GEL	SW846 8321A	0.207	1.00		0.503	2.004	2.51	100

PA #4												
American Spring	11/22/2002	0.20	DOE OB	STL	SW846 8321A	0.06	0.20		NA	NA	NA	NA
American Spring spiked with 0.2 ppb	Prepared on 11/25/02	0.41	DOE OB	STL	SW846 8321A	0.06	0.20		0.20	0.20	0.41	105
American Spring spiked with 0.5 ppb	Prepared on 11/25/02	0.64	DOE OB	STL	SW846 8321A	0.06	0.20		0.20	0.50	0.64	88
Los Alamos Tap Water (TA-3)	11/25/2002	0.24	DOE OB	STL	SW846 8321A	0.06	0.20		NA	NA	NA	NA
Los Alamos Tap Water (TA-3) spiked with 0.2 ppb	Prepared on 11/25/02	0.41	DOE OB	STL	SW846 8321A	0.06	0.20		0.24	0.20	0.41	85
Los Alamos Tap Water (TA-3) spiked with 0.5 ppb	Prepared on 11/25/02	0.68	DOE OB	STL	SW846 8321A	0.06	0.20		0.24	0.50	0.68	88
Los Alamos Tap Water (TA-3) spiked with 1.0 ppb	Prepared on 11/25/02	1.1	DOE OB	STL	SW846 8321A	0.06	0.20		0.24	1.0	1.1	86
Blank and Blind-Blank Spike Results												
Blank only	Prepared on 11/25/02	ND	DOE OB	STL	SW846 8321A	0.06	0.20	U	NA	NA	NA	NA
0.2 ppb Blank spike	Prepared on 11/25/02	0.20	DOE OB	STL	SW846 8321A	0.06	0.20		<0.20	0.20	0.20	100 [2]
0.5 ppb Blank spike	Prepared on 11/25/02	0.47	DOE OB	STL	SW846 8321A	0.06	0.20		<0.20	0.50	0.47	94 [2]

ACC - Acculab
GEL - General Engineering Laboratories
STL - Severn Trent Laboratories
PARA - Paragon Analytics, Inc.
HWB - Hazardous Waste Bureau, NMED
EPA - Environmental Protection Agency, Region 6
DOE OB - Department of Energy, Oversight Bureau, NMED
EPA 314.0 - Ion Chromatography.
SW846 8321A - Liquid Chromatography Mass Spectrometry Mass Spectrometry.
Q - Flags which indicate problems or issues that may effect the result.
J - Indicates an estimated value that is less than the reporting limit (quantitation limit) but greater than the method detection limit (MDL).
U - Indicates that the compound was analyzed for but not detected above the MDL.
H - Hold times exceeded.
~~PQL/RL - Practical Quantitation Limit/Reporting Limit which is defined as the smallest amount that can be reliably measured with good confidence.~~
1 - high PQL due to dilution. The dilutions occurred so as to obtain passing internal standard values (i.e., matrix interference).
2 - the Pre-Spike Concentration is assumed to be zero and is given a zero value in the % Recovery calculation.
% Recovery calculation: Post-Spike Concentration - Pre-Spike Concentration / Spike Concentration
Note: % Recovery results provided by Pat Longmire.

Table 1 - Draft perchlorate results for precipitation and ground water samples collected during 2001 to the Los Alamos National Laboratory and surrounding area.

Station ID	Date Sampled	Concentration (ug/L)	Data Owner	LAB	Method	MDL	PQL/RL	Q
Regional Aquifer Drinking Water Wells								
Buckman 1 Well	10/31/2001	ND	EPA	ACC	SW846 8321A	0.25	0.5	U
Buckman 2 Well	10/31/2001	ND	EPA	ACC	SW846 8321A	0.25	0.5	U
Buckman 2 Well	5/12/2003	0.26	DOE OB	STL	SW846 8321A	0.05	0.20	
Buckman 7 Well	10/31/2001	ND	EPA	ACC	SW846 8321A	0.25	0.5	U
Eastside Artesian Well	6/24/2002	ND	DOE OB	GEL	SW846 8321A	0.207	1.00	U
G-5A Well	2/23/2002	ND	EPA	ACC	SW846 8321A	0.25	1.25	U
GR-3	8/3/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U
LA-5 Well	6/24/2002	0.37	DOE OB	GEL	SW846 8321A	0.207	1.00	J
Martinez House Well	6/25/2002	0.412	DOE OB	GEL	SW846 8321A	0.207	1.00	J
New Community Well	6/24/2002	0.399	DOE OB	GEL	SW846 8321A	0.207	1.00	J
O-1 Well	6/21/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U
O-1 Well (first purge)	8/3/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U
O-1 Well (post purge)	8/3/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U
O-1 Well	2/23/2002	1.19	EPA	ACC	SW846 8321A	0.25	1.25	J
O-1 Well	6/26/2002	2.37	DOE OB	GEL	SW846 8321A	0.207	1.00	
O-1 Well	7/16/2002	1.46	DOE OB	GEL	SW846 8321A	0.207	1.00	
O-4 Well	814/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U
O-4 Well	6/26/2002	0.576	DOE OB	GEL	SW846 8321A	0.207	1.00	J
O-4 Well	7/16/2002	0.289	DOE OB	GEL	SW846 8321A	0.207	1.00	J
O-4 Well	3/5/2003	0.25	DOE OB	STL	SW846 8321A	0.06	0.20	
Otowi House Well	6/25/2002	ND	DOE OB	GEL	SW846 8321A	0.207	1.00	U
Pajarito Pump 1 Well	6/25/2002	0.24	DOE OB	GEL	SW846 8321A	0.207	1.00	J
PM-1 Well	8/14/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U
PM-1 Well	2/23/2002	0.264	EPA	ACC	SW846 8321A	0.25	1.25	J
PM-1 Well	6/26/2002	0.497	DOE OB	GEL	SW846 8321A	0.207	1.00	J
PM-1 Well	7/16/2002	0.402	DOE OB	GEL	SW846 8321A	0.207	1.00	J
PM-1 Well	3/5/2003	0.33	DOE OB	STL	SW846 8321A	0.06	0.20	
PM-2 Well	8/14/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U
PM-2 Well	7/16/2002	0.335	DOE OB	GEL	SW846 8321A	0.207	1.00	J
PM-3 Well	2/23/2002	ND	EPA	ACC	SW846 8321A	0.25	1.25	U
PM-3 Well	6/26/2002	0.471	DOE OB	GEL	SW846 8321A	0.207	1.00	J
PM-3 Well	7/16/2002	0.368	DOE OB	GEL	SW846 8321A	0.207	1.00	J
PM-3 Well	3/5/2003	0.29	DOE OB	STL	SW846 8321A	0.06	0.20	
PM-4 Well	8/3/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U
PM-4 Well	8/14/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U

Table 1 - Draft perchlorate results for precipitation and ground water samples collected during 2001 to the Los Alamos National Laboratory and surrounding area.

Station ID	Date Sampled	Concentration (ug/L)	Data Owner	LAB	Method	MDL	PQL/RL	Q
PM-5 Well	8/14/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U
PM-5 Well	2/23/2002	0.279	EPA	ACC	SW846 8321A	0.25	1.25	J
PM-5 Well	6/26/2002	0.308	DOE OB	GEL	SW846 8321A	0.207	1.00	J
PM-5 Well	7/16/2002	0.331	DOE OB	GEL	SW846 8321A	0.207	1.00	J
PM-5	5/12/2003	0.25	DOE OB	STL	SW846 8321A	0.05	0.20	
Westside Artesian Well	6/25/2002	ND	DOE OB	GEL	SW846 8321A	0.413	2 [1]	U
Monitoring Wells								
Regional Aquifer Wells								
CDV-R15-3 Zone 4	7/16/2002	0.306	DOE OB	GEL	SW846 8321A	0.207	1.00	J
CDV-R15-3 Zone 5	7/16/2002	ND	DOE OB	GEL	SW846 8321A	0.207	1.00	U
CDV-R15-3 Zone 6	7/17/2002	ND	DOE OB	GEL	SW846 8321A	0.207	1.00	U
CDV-R37-2 Zone 2	7/18/2002	ND	DOE OB	GEL	SW846 8321A	0.207	1.00	U
CDV-R37-2 Zone 3	7/19/2002	0.344	DOE OB	GEL	SW846 8321A	0.207	1.00	J
CDV-R37-2 Zone 4	7/22/2002	ND	DOE OB	GEL	SW846 8321A	0.207	1.00	U
R-7 Zone 3	8/6/2002	ND	DOE OB	GEL	SW846 8321A	0.207	1.00	U
R-12 Zone 3	8/1/2002	0.303	DOE OB	GEL	SW846 8321A	0.207	1.00	J
R-22 Zone 2	7/11/2002	0.386	DOE OB	GEL	SW846 8321A	0.207	1.00	J
R-22 Zone 4	7/12/2002	ND	DOE OB	GEL	SW846 8321A	0.207	1.00	U
R-22 Zone 5	7/10/2002	ND	DOE OB	GEL	SW846 8321A	0.207	1.00	U
Test Well 1	5/2/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U
Test Well 1	9/12/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U
Test Well 1	8/21/2002	2.90	DOE OB	GEL	SW846 8321A	2.07	10 [1]	J
Test Well 1	11/6/2002	ND	DOE OB	PARA	EPA 314.0	1.39	4	U
Test Well 2	5/3/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U
Test Well 2	9/12/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U
Test Well 3	5/3/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U
Test Well 3	8/21/2002	ND	DOE OB	GEL	SW846 8321A	0.207	1.00	U
Test Well 3	11/6/2002	ND	DOE OB	PARA	EPA 314.0	1.39	4	U
Test Well 4	5/2/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U
Test Well 4	9/12/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U
Test Well 4	8/21/2002	ND	DOE OB	GEL	SW846 8321A	0.207	1.00	U
Test Well 8	5/2/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U
Test Well 8	9/13/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U
Test Well 8	8/21/2002	ND	DOE OB	GEL	SW846 8321A	0.207	1.00	U
Test Well 8	11/6/2002	ND	DOE OB	PARA	EPA 314.0	1.39	4	U
Intermediate Aquifer Wells								

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Station ID	Date Sampled	Concentration (ug/L)	Data Owner	LAB	Method	MDL	PQL/RL	Q
LADP-3 (intermediate)	9/25/2002	0.224	DOE OB	GEL	SW846 8321A	0.207	1.00	J
LAOI(a)-1.1 (intermediate)	10/4/2002	0.253	DOE OB	GEL	SW846 8321A	0.207	1.00	J
POI-4	7/19/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U
POI-4	10/16/2002	ND	DOE OB	GEL	EPA 314.0	1.45	4.00	U,H
R-7 Zone 1	8/5/2002	ND	DOE OB	GEL	SW846 8321A	0.207	1.00	U
R-9i Zone 1	7/26/2002	ND	DOE OB	GEL	SW846 8321A	1.03	5 [1]	U
R-9i Zone 2	7/29/2002	ND	DOE OB	GEL	SW846 8321A	1.03	5 [1]	U
R-12 Zone 1	7/31/2002	ND	DOE OB	GEL	SW846 8321A	0.207	1.00	U
R-12 Zone 2	8/1/2002	1.07	DOE OB	GEL	SW846 8321A	0.207	1.00	
R-25 Zone 1	8/7/2002	ND	DOE OB	GEL	SW846 8321A	2.07	10 [1]	U
R-25 Zone 2	8/8/2002	ND	DOE OB	GEL	SW846 8321A	20.7	100 [1]	U
Test Well 1A	7/25/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U
Test Well 2A	7/25/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U
Shallow Alluvial Aquifer								
LAO-2	6/26/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U
LAO-3A	6/26/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U
LAO-3A	6/5/2002	ND	DOE OB	PARA	EPA 314.0	1.39	4	U
MCO-2	7/17/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U
MCO-3	7/17/2000	144	DOE OB	PIN	EPA 314.0	5.00	?	
MCO-6	7/10/2000	265	DOE OB	PIN	EPA 314.0	5.00	?	
MCO-6	5/29/2002	90	DOE OB	PARA	EPA 314.0	1.39	20	
MCO-6	8/26/2002	100	DOE OB	PARA	EPA 314.0	1.39	8	
MCO-7	7/10/2000	297	DOE OB	PIN	EPA 314.0	5.00	?	
MCO-7.5B	7/10/2000	239	DOE OB	PIN	EPA 314.0	5.00	?	
Springs								
Bandelier Tuff Bedrock Aquifer								
American Spring	1/29/2002	0.3	HWB	ACC	SW846 8321A	0.25	0.5	J
American Spring	8/1/2002	0.503	DOE OB	GEL	SW846 8321A	0.207	1.00	J
Barbara's Spring	8/18/2003	0.23	DOE OB	GEL	SW846 8321A	0.05	0.20	
Bulldog Spring	6/15/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	

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Station ID	Date Sampled	Concentration (ug/L)	Data Owner	LAB	Method	MDL	PQL/RL	Q
Campsite Spring	8/25/2003	0.28	DOE OB	GEL	SW846 8321A	0.05	0.20	
Charlie's Spring	6/15/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	
CDV-5.0 Spring	8/20/2003	0.33	DOE OB	GEL	SW846 8321A	0.05	0.20	
GU-0.01	11/18/2002	ND	DOE OB	PARA	EPA 314.0	1.39	4	U
Homestead Spring	6/15/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	
Kieling Spring	6/15/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	
PC Spring	5/2/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	
PC Spring	8/22/2003	0.23	DOE OB	GEL	SW846 8321A	0.05	0.20	
Starmer Spring	6/15/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	
TA-18 Spring	8/4/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	
Shallow Alluvial Aquifer								
DP Spring	6/26/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	
DP Spring	10/3/2002	0.455	DOE OB	GEL	SW846 8321A	0.207	1.00	J
LA-5.19 Spring	11/21/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	
Intermediate Aquifer								
Ancha Spring (east of Rio Grande; interm	3/18/2002	ND	DOE OB	ACC	SW846 8321A	0.25	1.25	U
Basalt Spring (mixture sw with interm gw	6/25/2002	ND	DOE OB	GEL	SW846 8321A	1.03	5 [1]	U
La Mesita Spring (intermediate?)	6/24/2002	1.11	DOE OB	GEL	SW846 8321A	0.207	1.00	
Los Alamos Spring	7/25/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	
Regional/Drinking Water Aquifer								
Ancho Spring	9/26/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	
Ancho Spring	11/5/2003	0.44	HWB	STL	SW846 8321A	0.05	0.20	B
DOE Spring	11/5/2003	0.22	HWB	STL	SW846 8321A	0.05	0.20	B
Sacred Spring	9/25/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	
Sacred Spring	6/25/2002	0.399	DOE OB	GEL	SW846 8321A	0.207	1.00	J
Sandia Spring	9/25/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	
Sandia Spring	11/6/2002	ND	DOE OB	PARA	EPA 314.0	1.39	4	U
Sandia Spring	10/6/2003	0.16	DOE OB	STL	SW846 8321A	0.05	0.20	J
Spring 1	9/25/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	
Spring 1	11/6/2002	ND	DOE OB	PARA	EPA 314.0	1.39	4	U
Spring 1	10/6/2003	0.21	DOE OB	STL	SW846 8321A	0.05	0.20	

Table 1 - Draft perchlorate results for precipitation and groundwater samples collected during 2001 to the Los Alamos National Laboratory and surrounding area.

Station ID	Date Sampled	Concentration (ug/L)	Data Owner	LAB	Method	MDL	PQL/RL	Q
Spring 2	11/6/2002	ND	DOE OB	PARA	EPA 314.0	1.39	4	U
Spring 2	10/6/2003	ND	DOE OB	STL	SW846 8321A	0.05	0.20	U
Spring 2B (CCNS Spring)	11/15/2002	ND	DOE OB	GEL	EPA 314.0	1.45	4?	U, H
Spring 2B (CCNS Spring)	1/14/2003	0.12	DOE OB	STL	SW846 8321A	0.06	0.20	J
Spring 2B (CCNS Spring)	11/3/2003	0.29	DOE OB	STL	SW846 8321A	0.05	0.20	B
Spring 3	10/6/2003	0.27	DOE OB	STL	SW846 8321A	0.05	0.20	
Spring 3A	3/28/2002	0.502	EPA	ACC	SW846 8321A	0.25	1.25	J
Spring 3A	10/6/2003	0.34	DOE OB	STL	SW846 8321A	0.05	0.20	
Spring 3AA	3/28/2002	ND	EPA	ACC	SW846 8321A	0.25	1.25	U
Spring 3AA	10/6/2003	0.24	DOE OB	STL	SW846 8321A	0.05	0.20	
Spring 3C	11/3/2003	0.50	DOE OB	STL	SW846 8321A	0.05	0.20	B
Spring 4	11/1/2001	0.58	EPA	ACC	SW846 8321A	0.25	0.5	
Spring 4	1/28/2002	0.3	HWB	ACC	SW846 8321A	0.25	0.5	J
Spring 4	3/26/2002	0.318	EPA	ACC	SW846 8321A	0.25	1.25	J
Spring 4	10/17/2002	ND	DOE OB	GEL	EPA 314.0	1.45	4.00	U,H
Spring 4	10/6/2003	0.41	DOE OB	STL	SW846 8321A	0.05	0.20	
Spring 4A	11/1/2001	0.4	EPA	ACC	SW846 8321A	0.25	0.5	J
Spring 4A	1/28/2002	0.5	HWB	ACC	SW846 8321A	0.25	0.5	J
Spring 4A	10/17/2002	ND	DOE OB	GEL	EPA 314.0	1.45	4.00	U,H
Spring 4A	10/7/2003	0.42	DOE OB	STL	SW846 8321A	0.05	0.20	
Spring 4AA	11/1/2001	0.53	EPA	ACC	SW846 8321A	0.25	0.5	
Spring 4AA	1/28/2002	0.4	HWB	ACC	SW846 8321A	0.25	0.5	J
Spring 4AA	3/28/2002	0.455	EPA	ACC	SW846 8321A	0.25	1.25	J
Spring 4AA	11/23/2002	0.41	DOE OB	STL	SW846 8321A	0.06	0.20	
Spring 4AA	11/3/2003	0.67	DOE OB	STL	SW846 8321A	0.05	0.20	B
Spring 4B	1/28/2002	ND	HWB	ACC	SW846 8321A	0.25	0.5	U
Spring 4B	3/26/2002	0.311	EPA	ACC	SW846 8321A	0.25	1.25	J
Spring 4C	11/1/2001	0.64	EPA	ACC	SW846 8321A	0.25	0.5	
Spring 4C	1/28/2002	0.4	HWB	ACC	SW846 8321A	0.25	0.5	J
Blind Field Duplicate of Spring 4C	1/28/2002	0.3	HWB	ACC	SW846 8321A	0.25	0.5	J
Spring 4C	5/12/2003	0.56	DOE OB	STL	SW846 8321A	0.05	0.20	
Spring 5	3/26/2002	ND	EPA	ACC	SW846 8321A	0.25	1.25	U
Spring 5	10/7/2003	0.29	DOE OB	STL	SW846 8321A	0.05	0.20	
Spring 5A	3/26/2002	ND	EPA	ACC	SW846 8321A	0.25	1.25	U
Spring 5A	10/7/2003	0.20	DOE OB	STL	SW846 8321A	0.05	0.20	
Spring 5B	10/7/2003	0.27	DOE OB	STL	SW846 8321A	0.05	0.20	
Spring 6A	9/26/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	U

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Spring 6A	10/7/2003	0.19	DOE OB	STL	SW846 8321A	0.05	0.20	J
Spring 7	9/26/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	
Spring 7	10/7/2003	0.21	DOE OB	STL	SW846 8321A	0.05	0.20	
Spring 7 (field duplicate)	10/7/2003	0.18	DOE OB	STL	SW846 8321A	0.05	0.20	J
Spring 8	10/7/2003	0.21	DOE OB	STL	SW846 8321A	0.05	0.20	
Spring 8A	10/8/2003	0.15	DOE OB	STL	SW846 8321A	0.05	0.20	J
Spring 9	10/8/2003	0.20	DOE OB	STL	SW846 8321A	0.05	0.20	
Spring 9A	9/27/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	
Spring 9A	10/8/2003	0.17	DOE OB	STL	SW846 8321A	0.05	0.20	J
Spring 9B	11/5/2003	0.41	HWB	STL	SW846 8321A	0.05	0.20	B
Spring 9C	9/27/2000	ND	DOE OB	PIN	EPA 314.0	5.00	?	
Misc Wells								
Albuquerque Ridgecrest Well 1	5/15/2003	0.24	DOE OB	STL	SW846 8321A	0.05	0.20	
Espanola South Well	5/13/2003	0.17	DOE OB	STL	SW846 8321A	0.05	0.20	
Pajarito Pump 1	5/12/2003	0.092	DOE OB	STL	SW846 8321A	0.05	0.20	
Taos 5	5/13/2003	0.22	DOE OB	STL	SW846 8321A	0.05	0.20	
Snow-Pack/Precipitation Sampling Results								
Aspen Peak	3/27/2002	ND	EPA	ACC	SW846 8321A	0.25	1.25	U
Aspen Peak	4/18/2003	ND	DOE OB	STL	SW846 8321A	0.06	0.20	U
Pajarito Ski Area	3/20/2002	ND	EPA	ACC	SW846 8321A	0.25	1.25	U
Pajarito Ski Area	4/13/2003	ND	DOE OB	STL	SW846 8321A	0.06	0.20	U
Technial Area 3 Tap Water								
Los Alamos Tap Water (TA-3)	11/25/2002	0.24	DOE OB	STL	SW846 8321A	0.06	0.20	
Los Alamos Tap Water (TA-3)	1/21/2003	0.50	DOE OB	STL	SW846 8321A	0.06	0.20	

ACC - Acculab
GEL - General Engineering Laboratories
STL - Severn Trent Laboratories
PARA - Paragon Analytics, Inc.
HWB - Hazardous Waste Bureau, NMED
EPA - Environmental Protection Agency, Region 6
DOE OB - Department of Energy, Oversight Bureau, NMED
B - The assoicated method blank contains the target analyte at a reportable level of 0.063 ug/L.
EPA 314.0 - Ion Chromatography.
SW846 8321A - Liquid Chromatography Mass Spectrometry Mass Spectrometry.

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Station ID	Date Sampled	Concentration (ug/L)	Data Owner	LAB	Method	MDL	PQL/RL	Q

Q - Flags which indicate problems or issues that may effect the result.
J - Indicates an estimated value that is less than the reporting limit (quantitation limit) but greater than the method detection limit (MDL).
U - Indicates that the compound was analyzed for but not detected above the MDL.
H - Hold times exceeded.
PQL/RL - Practical Quantitation Limit/Reporting Limit which is defined as the smallest amount that can be reliably measured with good confidence.
1 - high PQL due to dilution. The dilutions occurred so as to obtain passing internal standard values (i.e., matrix interference).