

APPENDIX C—Water Quality Results

Table C1—Summary of Major Element Chemistry

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Table C—Explanation

New Mexico Bureau of Geology & Mineral Resources and New Mexico Department of Health Scientific Laboratory Division reports

Table C1–Summary of Major Element Chemistry

Site ID	Site Name	Geologic Formation	Date Sampled	pH (pH units)	TDS	Specific Conductance (uS/cm)	Ca	Mg	Na	K	HCO3	SO4	Cl	Br
EPA MCL's for Drinking Water (1)				6.5-8.5*	500*	none	none	none	none	none	none	250*	250*	none
NM State Standards (2)				6.0-9.0	1000	none	none	none	none	none	none	600	250	none
PW-04	Tsosies	Tpm/Xu	3/18/04	8.0	330	560	18	1.9	95	4.5	230	68	5.5	0.14
PW-06	Rael	Tpmc	12/11/03	7.7	250	285	53	5.7	14	4.3	184	22	3.4	0.1
PW-06A	Rael	Tpmc	2/27/04	8.3	230	344	48	5.5	11	3.8	173	23	3.3	<0.1
PW-08	Mead	Ttd/Tpu	12/11/03	7.5	310	394	69	8.5	21	3.5	256	23	9.3	0.15
PW-15	PicurisPueblo	Qa/Tpm	3/31/04	7.5	268	433	67	8.4	8.8	1.8	237	24	3.9	<0.1
PW-17	Cordova	Ttd/Tpu	5/6/04	7.2	485	844	117	19	28	1.1	450	35	8.3	<0.1
PW-21	Lopez	Fault	12/19/03	7.8	300	392	66	16	8.1	3	265	20	4.8	0.04
PW-24	Guauale	Tpu	12/11/03	7.3	320	418	83	13	4.9	3	285	29	5.7	<0.1
PW-27	Cordova	Tpu	12/11/03	7.6	360	438	68	12	27	6.4	308	22	7.1	0.11
PW-28	Sacoman	Tpu	12/11/03	7.8	200	257	43	5.8	15	1.8	178	19	2.2	0.1
PW-31	Echwaldo	Ttd/Tpu	12/19/03	7.4	180	264	44	5.9	6.5	0.74	105	62	3.1	<0.1
PW-32	Fresquez	Ttd	3/31/04	7.9	164	283	43	6.2	11	1.1	176	9.2	3.7	<0.1
PW-34	Roybal	Tpm	12/19/04	7.6	280	383	81	6.5	5.3	1.2	252	19	7.2	<0.1
PW-37	Dominguez	Qa	2/26/04	7.9	320	534	83	9.1	11	1.4	305	21	5	<0.1
PW-38	Vasquez	Tpmc/fault	2/27/04	8.1	330	524	69	10	19	3.5	265	17	24	0.13
PW-39	Lopez	Tpm	4/27/04	7.6	301	513	83	9.4	4.9	1.9	271	20	8	<0.1
PW-40	Roybal	Tpu	12/11/03	7.1	260	364	73	6.9	6.9	1.3	247	24	5.5	0.1
PW-45	Fields	Tpu/Tpm	4/1/04	7.2	248	433	66	7.4	6.2	0.56	176	62	4.8	0.1
PW-46	Valdez	Tpu	3/11/04	7.5	250	427	67	6.3	4.7	1.2	205	25	6.7	<0.1
PW-48	Tafoya	Ttd	4/28/04	7.6	306	493	74	11	16	1	278	19	3.1	<0.1
PW-50	Lovato	Ttd	4/22/04	7.5	298	500	81	11	6.3	0.44	279	24	1.9	<0.1
PW-51	Lovato	Ttd	2/26/04	7.7	360	580	78	12	20	3.2	311	29	8.6	<0.1
PW-54	Wagner	Ttd/Tpu	5/6/04	7.5	381	642	78	14	33	2.7	330	29	9.1	0.15
PW-57	Roybal	Tpu	2/26/04	7.8	320	510	61	13	17	5.7	290	18	3.2	<0.1
PW-60	Romero	Ttd/Tpu	4/29/04	7.5	344	550	76	14	24	1.9	306	25	4.7	<0.1
PW-64	Gonzales	Tpu/Tpm	3/10/04	7.5	290	462	68	6.2	9.6	3.3	255	16	4.9	<0.1
PW-65	Sandoval	Qa	3/18/04	7.2	360	647	96	12	8.3	2.7	365	24	6.1	<0.1
PW-66	Medina	Tpm	3/11/04	7.3	340	573	91	9.5	6	1.8	325	25	4.8	<0.1
PW-67	Montoya	Qa/Tpu/Tpm	4/1/04	7.4	259	497	78	7.6	7.1	0.34	247	28	7.7	<0.1
PW-69	Stanley	Tpm	3/31/04	7.8	231	410	26	4.1	5.8	2.9	156	39	9.8	0.13
PW-71	Trujillo	Tpu/Tpm	2/25/04	7.5	230	400	62	6.4	7.9	0.62	203	33	4.7	<0.1
Picuris Pueblo Water Quality Code (3) General Standards				none	500	none	none	none	none	none	none	250	230	none
PS-76	Suncomer Springs		5/5/04	8.0	292	526	75	8.8	17	1.4	281	9.1	12	<0.1
PS-77	Dogwater Spring		4/22/04	8.2	329	517	88	7.5	11	2.8	303	15	2.7	<0.1
PS-81	Aspen Springs		5/5/04	8.1	202	355	38	5.7	27	1.3	182	10	7.4	0.11
PS-93	Unknown Spring		12/19/03	7.5	280	388	81	6.7	6.5	1.7	247	31	4.4	<0.1
Picuris Pueblo Water Quality Code (3) Designated Use Standards (A)				6.6-8.8 (c)	500 (c)	none	none	none	none	none	none	none	none	none
PSW-1	Chamisal Creek		12/11/03	7.7	340	461	95	10	12	1.4	326	23	5.8	<0.1
PSW-3	Embudo		2/13/04	7.8	200	269	52	6.4	5.8	0.93	167	30	4.4	<0.1
Picuris Pueblo Water Quality Code (3) Designated Use Standards (B)				6.6-8.8 (c,d)	500 (c,h)	300 (d)	none	none	none	none	none	250 (h)	230 (h)	none
PSW-2	Rio Chiquito		3/17/04	7.7	190	262	49	5.8	6.3	0.78	166	27	3.3	<0.1
PSW-4	Rio Pueblo above WWTP		2/13/04	7.8	220	312	58	7.7	6	0.86	197	34	5.2	<0.1
PSW-5	Rio Pueblo above Telephone Canyon		2/13/04	7.6	190	278	52	6.8	4.8	0.59	163	35	4.8	<0.1
PSW-6	Rio Pueblo above Embudo		2/13/04	7.4	200	264	53	7	5.8	0.86	168	31	5.5	<0.1
PSW-7	Rio Pueblo below WWTP		2/13/04	7.5	220	296	57	7.6	6	0.97	193	33	5.3	<0.1
PSW-8	Santa Barbara above Embudo		2/13/04	7.7	190	260	52	5.8	5.5	0.95	166	30	4.2	<0.1
PSW-9	Santa Barbara above Chiquito		2/13/04	7.5	170	237	45	4.8	3.7	0.79	127	37	3.9	<0.1

All units are mg/L (ppm), except where noted.

(1) US Environmental Protection Agency National Primary and Secondary Drinking Water Standards. (MCL = Maximum Contaminant Level)

*EPA Secondary Drinking Water Standards - non-enforceable guidelines to regulate contaminants that cause cosmetic or aesthetic effects.

(2) New Mexico Water Quality Control Commission NMAC 20.6.2.3103 Human Health Standards for Groundwater

(3) Water Quality Code for the Picuris Pueblo, adopted May 11, 1995; revised May, 2000.

(A) Most stringent standards for all designated uses (marginal coldwater fishery, warm water fishery, irrigation, livestock watering, wildlife habitat, primary contact, and recharge of domestic water supply) in streams and tributaries below confluence of Rio Pueblo and Rio Santa Barbara.

(B) Most stringent standards for designated uses (recharge of domestic water supply, fish culture, high quality coldwater fishery, irrigation, livestock watering, wildlife habitat, municipal & industrial water supply, and primary contact) in streams and tributaries above confluence of Rio Pueblo and Rio Santa Barbara.

(c) Standard for primary contact.

(d) Standard for high quality coldwater fishery.

(h) General standards for fish culture and municipal & industrial supply.

Table C2–Summary of Minor Element Chemistry

Site ID	Site Name	Geologic Formation	Date Sampled	NO3(N)	Fe	Mn	F	Sr	SiO2
EPA MCL's for Drinking Water (1)				10	0.3*	0.05*	4 (2*)	<i>none</i>	<i>none</i>
NM State Standards (2)				10 (2a)	1 (2b)	0.2 (2b)	1.6 (2a)	<i>none</i>	<i>none</i>
PW-04	Tsosies	Tpm/Xu	3/18/04	<0.02	<0.05	0.002	3.3	0.3	16
PW-06	Rael	Tpmc	12/11/03	0.70	<0.05	<0.001	0.38	0.33	49
PW-06A	Rael	Tpmc	2/27/04	0.72	<0.05	<0.001	0.4	0.29	49
PW-08	Mead	Ttd/Tpu	12/11/03	0.79	0.41	0.006	0.67	0.6	46
PW-15	PicurisPueblo	Qa/Tpm	3/31/04	0.65	<0.05	<0.001	0.21	0.48	32
PW-17	Cordova	Ttd/Tpu	5/6/04	3.16	<0.05	<0.001	0.77	4.3	32
PW-21	Lopez	Fault	12/19/03	0.86	<0.05	<0.001	0.59	0.59	43
PW-24	Guaule	Tpu	12/11/03	0.47	<0.05	<0.001	0.29	0.46	41
PW-27	Cordova	Tpu	12/11/03	1.08	<0.05	<0.001	0.65	1.1	54
PW-28	Sacoman	Tpu	12/11/03	0.22	0.89	0.003	0.14	0.63	23
PW-31	Echwaldo	Ttd/Tpu	12/19/03	0.16	0.47	0.005	0.12	0.21	6.8
PW-32	Fresquez	Ttd	3/31/04	0.27	<0.05	<0.001	0.26	0.44	18
PW-34	Roybal	Tpm	12/19/04	0.74	<0.05	<0.001	0.18	0.31	31
PW-37	Dominguez	Qa	2/26/04	0.63	0.084	0.002	0.23	0.39	34
PW-38	Vasquez	Tpmc/fault	2/27/04	0.52	<0.05	<0.001	0.45	0.53	55
PW-39	Lopez	Tpm	4/27/04	0.27	<0.05	<0.001	0.13	0.62	36
PW-40	Roybal	Tpu	12/11/03	0.47	<0.05	<0.001	0.13	0.34	20
PW-45	Fields	Tpu/Tpm	4/1/04	<0.02	0.13	0.002	0.13	0.34	13
PW-46	Valdez	Tpu	3/11/04	1.92	<0.05	<0.001	0.2	0.32	23
PW-48	Tafoya	Ttd	4/28/04	0.59	<0.05	0.001	0.98	0.81	39
PW-50	Lovato	Ttd	4/22/04	0.47	<0.05	<0.001	0.31	1.2	30
PW-51	Lovato	Ttd	2/26/04	2.48	<0.05	<0.001	0.59	0.82	45
PW-54	Wagner	Ttd/Tpu	5/6/04	1.04	<0.05	<0.001	0.74	2.2	43
PW-57	Roybal	Tpu	2/26/04	0.22	<0.05	<0.001	0.63	1.1	55
PW-60	Romero	Ttd/Tpu	4/29/04	1.17	<0.05	<0.001	0.45	1.5	39
PW-64	Gonzales	Tpu/Tpm	3/10/04	0.84	<0.05	<0.001	0.21	0.37	47
PW-65	Sandoval	Qa	3/18/04	0.08	0.43	0.49	0.14	0.5	29
PW-66	Medina	Tpm	3/11/04	0.45	<0.05	0.002	0.34	0.57	39
PW-67	Montoya	Qa/Tpu/Tpm	4/1/04	1.47	<0.05	<0.001	0.19	0.33	21
PW-69	Stanley	Tpm	3/31/04	0.52	<0.05	<0.001	10	0.54	21
PW-71	Trujillo	Tpu/Tpm	2/25/04	0.16	0.18	0.003	0.11	0.28	12
Picuris Pueblo Water Quality Code (3) General Standards				<i>none</i>	<i>none</i>	<i>none</i>	<i>none</i>	<i>none</i>	<i>none</i>
PS-76	Suncorner Springs		5/5/04	<0.02	1.3	0.34	0.36	1.2	25
PS-77	Dogwater Spring		4/22/04	0.41	0.52	0.17	0.19	0.88	47
PS-81	Aspen Springs		5/5/04	0.03	0.27	0.016	0.31	0.45	21
PS-93	Unknown Spring		12/19/03	0.43	0.11	<0.001	0.25	0.37	20
Picuris Pueblo Water Quality Code (3) Designated Use Standards (A)				10 (e)	0.3 (e)	<i>none</i>	<i>none</i>	<i>none</i>	<i>none</i>
PSW-1	Chamisal Creek		12/11/03	0.27	<0.05	0.007	0.37	0.49	31
PSW-3	Embudo		2/13/04	0.04	0.05	0.014	0.15	0.3	12
Picuris Pueblo Water Quality Code (3) Designated Use Standards (B)				10 (e)	0.3 (e)	<i>none</i>	<i>none</i>	<i>none</i>	<i>none</i>
PSW-2	Rio Chiquito		3/17/04	0.14	0.051	0.018	0.19	0.23	11
PSW-4	Rio Pueblo above WWTP		2/13/04	0.08	<0.05	0.007	0.17	0.41	13
PSW-5	Rio Pueblo above Telephone Canyon		2/13/04	0.04	<0.05	0.017	0.14	0.36	7.3
PSW-6	Rio Pueblo above Embudo		2/13/04	0.06	0.094	0.02	0.16	0.37	12
PSW-7	Rio Pueblo below WWTP		2/13/04	0.09	0.066	0.014	0.19	0.4	13
PSW-8	Santa Barbara above Embudo		2/13/04	0.05	<0.05	0.013	0.21	0.24	11
PSW-9	Santa Barbara above Chiquito		2/13/04	0.04	<0.05	0.004	0.14	0.2	6.6

All units are mg/L (ppm).

(1) US Environmental Protection Agency National Primary and Secondary Drinking Water Standards. (MCL = Maximum Contaminant Level)

*EPA Secondary Drinking Water Standards - non-enforceable guidelines to regulate contaminants that cause cosmetic or asthetic effects.

(2) New Mexico Water Quality Control Commission NMAC 20.6.2.3103 Standards for Groundwater: (2a) Human Health Standards, (2b) Other Standards for Domestic Water Supply.

(3) Water Quality Code for the Picuris Pueblo, adopted May 11, 1995; revised May, 2000.

(A) Most stringent calculated standard for all designated uses (marginal coldwater fishery, warm water fishery, irrigation, livestock watering, wildlife habitat, primary contact, and recharge of domestic water supply) in streams and tributaries below confluence of Rio Pueblo and Rio Santa Barbara, watering, wildlife habitat, municipal & industrial water supply, and primary contact) in streams and tributaries above confluence of Rio Pueblo and Rio Santa Barbara.

(e) Standard for recharge of domestic water supply.

Table C3–Summary of Trace Element Chemistry

Site ID	Site Name	Geologic Formation	Date Sampled	Al	As	Ba	B	Cu	Li	Mo	U	V	Zn
EPA MCL's for Drinking Water (1)				50-200*	10 (as of 1/23/06)	2000	none	1300 (1000*)	none	none	30	none	5000*
NM State Standards (2)				5000 (2c)	100 (2a)	1000 (2a)	750 (2c)	1000 (2b)	none	1000 (2c)	30 (2a)	none	10000 (2b)
PW-04	Tsosies	Tpm/Xu	3/18/04	<1	5	28	340	13	69	14	8	1	2
PW-06	Rael	Tpmc	12/11/03	3	1	100	31	130	9	2	6	3	40
PW-06A	Rael	Tpmc	2/27/04	<1	1	110	20	<1	7	1	5	3	9
PW-08	Mead	Ttd/Tpu	12/11/03	120	3	120	30	20	18	2	8	6	120
PW-15	PicurisPueblo	Qa/Tpm	3/31/04	<1	<1	140	16	<1	4	2	8	2	1
PW-17	Cordova	Ttd/Tpu	5/6/04	12	5	190	71	13	43	1	14	12	120
PW-21	Lopez	Fault	12/19/03	4	3	82	21	22	11	<1	4	3	65
PW-24	Guaule	Tpu	12/11/03	1	<1	140	23	15	4	<1	3	2	150
PW-27	Cordova	Tpu	12/11/03	<1	3	180	40	9	26	<1	30	4	470
PW-28	Sacoman	Tpu	12/11/03	3	2	80	34	92	12	<1	6	8	55
PW-31	Echwaldo	Ttd/Tpu	12/19/03	180	<1	50	10	410	3	<1	<1	<1	59
PW-32	Fresquez	Ttd	3/31/04	<1	1	160	16	8	13	<1	2	2	21
PW-34	Roybal	Tpm	12/19/04	1	<1	260	14	24	6	<1	2	1	970
PW-37	Dominquez	Qa	2/26/04	18	2	310	27	7	10	<1	3	7	15
PW-38	Vasquez	Tpmc/fault	2/27/04	<1	3	220	13	2	17	1	4	11	13
PW-39	Lopez	Tpm	4/27/04	<1	<1	<1	14	2	5	<1	4	2	8
PW-40	Roybal	Tpu	12/11/03	5	<1	150	13	8	5	<1	2	<1	5
PW-45	Fields	Tpu/Tpm	4/1/04	4	<1	110	9	1	2	<1	1	1	35
PW-46	Valdez	Tpu	3/11/04	<1	<1	130	13	4	4	<1	1	4	7
PW-48	Tafoya	Ttd	4/28/04	1	3	110	25	2	20	<1	7	10	24
PW-50	Lovato	Ttd	4/22/04	2	4	250	18	3	12	<1	5	7	17
PW-51	Lovato	Ttd	2/26/04	<1	11	150	27	2	20	<1	12	11	1
PW-54	Wagner	Ttd/Tpu	5/6/04	<1	3	110	38	41	25	2	19	7	4
PW-57	Roybal	Tpu	2/26/04	<1	3	200	19	2	17	<1	7	5	7
PW-60	Romero	Ttd/Tpu	4/29/04	<1	2	150	27	1	17	<1	10	7	13
PW-64	Gonzales	Tpu/Tpm	3/10/04	<1	<1	220	15	3	7	<1	4	4	86
PW-65	Sandoval	Qa	3/18/04	3	<1	140	14	140	2	<1	7	2	71
PW-66	Medina	Tpm	3/11/04	20	8	110	25	12	17	<1	2	15	27
PW-67	Montoya	Qa/Tpu/Tpm	4/1/04	1	<1	200	17	84	6	<1	2	3	9
PW-69	Stanley	Tpm	3/31/04	1	8	6	160	19	26	11	12	1	76
PW-71	Trujillo	Tpu/Tpm	2/25/04	<1	<1	140	7	110	3	<1	2	<1	150
Picuris Pueblo Water Quality Code (3) General Standards				none	none	none	none	none	none	none	none	none	none
PS-76	Suncorner Springs		5/5/04	660	1	320	22	3	19	<1	2	3	4
PS-77	Dogwater Spring		4/22/04	200	1	350	14	<1	8,000	<1	6	6	1
PS-81	Aspen Springs		5/5/04	170	2	280	13	2	15	6	27	1	2
PS-93	Unknown Spring		12/19/03	3	<1	190	15	18	6	<1	1	4	170
Picuris Pueblo Water Quality Code (3) Designated Use Standards (A)				750 (i)	50 (e)	2000 (e)	none	200 (f)	none	none	5000 (e)	100 (f,g)	Calculation (j)
PSW-1	Chamisal Creek		12/11/03	5	1	260	27	<1	10	<1	5	3	<1 (279)
PSW-3	Embudo		2/13/04	42	<1	81	6	<1	3	<1	2	1	<1 (171)
Picuris Pueblo Water Quality Code (3) Designated Use Standards (B)				750 (i)	50 (e)	2000 (e)	none	200 (f)	none	none	5000 (e)	100 (f,g)	Calculation (j)
PSW-2	Rio Chiquito		3/17/04	43	<1	110	5	<1	4	<1	1	1	91 (161)
PSW-4	Rio Pueblo above WWTP		2/13/04	30	<1	69	6	<1	4	<1	2	1	<1 (190)
PSW-5	Rio Pueblo above Telephone Canyon		2/13/04	14	<1	48	4	<1	2	<1	2	<1	2 (173)
PSW-6	Rio Pueblo above Embudo		2/13/04	94	<1	66	6	<1	3	<1	2	1	<1 (175)
PSW-7	Rio Pueblo below WWTP		2/13/04	36	<1	71	7	<1	3	<1	2	1	320 (187)
PSW-8	Santa Barbara above Embudo		2/13/04	22	<1	94	5	<1	3	<1	1	1	<1 (169)
PSW-9	Santa Barbara above Chiquito		2/13/04	2	<1	53	3	<1	1	<1	<1	<1	<1 (148)

All units are ug/L (ppb).

(1) US Environmental Protection Agency National Primary and Secondary Drinking Water Standards. (MCL = Maximum Contaminant Level)

*EPA Secondary Drinking Water Standards - non-enforceable guidelines to regulate contaminants that cause cosmetic or aesthetic effects.

Irrigation Use Standards.

(3) Water Quality Code for the Picuris Pueblo, adopted May 11, 1995; revised May, 2000.

(A) Most stringent calculated standard for all designated uses (marginal coldwater fishery, warm water fishery, irrigation, livestock watering, wildlife habitat, primary contact, and recharge of domestic water supply) in streams and tributaries below confluence of Rio Pueblo and Rio Santa Barbara.

(B) Most stringent standards for designated uses (recharge of domestic water supply, fish culture, high quality coldwater fishery, irrigation, livestock watering, wildlife habitat, municipal & industrial water supply, and primary contact) in streams and tributaries above confluence of Rio Pueblo and Rio Santa Barbara.

(e) Standard for recharge of domestic water supply.

(f) Standard for irrigation.

(g) Standard for livestock watering & wildlife habitat.

(i) Standard for Acute Fishery Criteria

(j) Standard for Zinc calculated under Acute Fishery Criteria = $e (0.8473(\ln(\text{hardness}))+0.8618)$, in parentheses following lab reported value.

Table C4–Summary of Microbiological Results

Site ID	Site Name	Geologic Formation	Date Sampled	Total coliform	Fecal Coliform
EPA MCL's for Drinking Water (1)				5% of sample	<i>none</i>
NM State Standards (2)				<i>none</i>	500col/100ml
PW-04	Tsosies	Tpm/Xu	3/18/04	NA	<1/100 mls
PW-06	Rael	Tpmc	12/11/03	Absent	<1/100 mls
PW-06A	Rael	Tpmc	2/27/04	Absent	<1/100 mls
PW-08	Mead	Ttd/Tpu	12/11/03	Absent	<1/100 mls
PW-15	PicurisPueblo	Qa/Tpm	3/31/04	Absent	<1/100 mls
PW-17	Cordova	Ttd/Tpu	5/6/04	Absent	<1/100 mls
PW-21	Lopez	Fault	12/19/03	Absent	<1/100 mls
PW-24	Guale	Tpu	12/11/03	Absent	<1/100 mls
PW-27	Cordova	Tpu	12/11/03		
PW-28	Sacoman	Tpu	12/11/03		
PW-31	Echwaldo	Ttd/Tpu	12/19/03	Absent	<1/100 mls
PW-32	Fresquez	Ttd	3/31/04	Absent	<1/100 mls
PW-34	Roybal	Tpm	12/19/04	Absent	<1/100 mls
PW-37	Dominguez	Qa	2/26/04	Absent	<1/100 mls
PW-38	Vasquez	Tpmc/fault	2/27/04	Present	<1/100 mls
PW-39	Lopez	Tpm	4/27/04	Absent	<1/100 mls
PW-40	Roybal	Tpu	12/11/03	Absent	<1/100 mls
PW-45	Fields	Tpu/Tpm	4/1/04	Absent	<1/100 mls
PW-46	Valdez	Tpu	3/11/04	Absent	<1/100 mls
PW-48	Tafoya	Ttd	4/28/04	Absent	<1/100 mls
PW-50	Lovato	Ttd	4/22/04	Absent	<1/100 mls
PW-51	Lovato	Ttd	2/26/04	Absent	<1/100 mls
PW-54	Wagner	Ttd/Tpu	5/6/04	Absent	<1/100 mls
PW-57	Roybal	Tpu	2/26/04	Absent	<1/100 mls
PW-60	Romero	Ttd/Tpu	4/29/04	Absent	<1/100 mls
PW-64	Gonzales	Tpu/Tpm	3/10/04	Absent	<1/100 mls
PW-65	Sandoval	Qa	3/18/04	Absent	<1/100 mls
PW-66	Medina	Tpm	3/11/04	NA	<1/100 mls
PW-67	Montoya	Qa/Tpu/Tpm	4/1/04	Absent	<1/100 mls
PW-69	Stanley	Tpm	3/31/04	NA	<1/100 mls
PW-71	Trujillo	Tpu/Tpm	2/25/04		<1/100 mls
Picuris Pueblo Water Quality Code (3) General Standards				<i>none</i>	<i>none</i>
PS-76	Suncorner Springs		5/5/04	Present	<1/100 mls
PS-77	Dogwater Spring		4/22/04	Present	<1/100 mls
PS-81	Aspen Springs		5/5/04	Present	<1/100 mls
PS-93	Unknown Spring		12/19/03		
Picuris Pueblo Water Quality Code (3) Designated Use Standards (A)				<i>none</i>	200col/100ml (c)
PSW-1	Chamisal Creek		12/11/03		
PSW-3	Embudo		2/13/04		
Picuris Pueblo Water Quality Code (3) Designated Use Standards (B)				<i>none</i>	200col/100ml (c)
PSW-2	Rio Chiquito		3/17/04		
PSW-4	Rio Pueblo above WWTP		2/13/04		
PSW-5	Rio Pueblo above Telephone Canyon		2/13/04		
PSW-6	Rio Pueblo above Embudo		2/13/04		
PSW-7	Rio Pueblo below WWTP		2/13/04		
PSW-8	Santa Barbara above Embudo		2/13/04		
PSW-9	Santa Barbara above Chiquito		2/13/04		

(1) US Environmental Protection Agency National Primary and Secondary Drinking Water Standards. (MCL = Maximum Contaminant Level)

(2) New Mexico Water Quality Control Commission NMAC 20.6.2

(3) Water Quality Code for the Picuris Pueblo, adopted May 11, 1995; revised May, 2000.

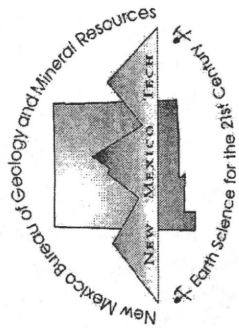
(A) Most stringent standards for all designated uses (marginal coldwater fishery, warm water fishery, irrigation, livestock watering, wildlife habitat, primary contact, and recharge of domestic water supply) in streams and tributaries below confluence of Rio Pueblo and Rio Santa Barbara.

(B) Most stringent standards for designated uses (recharge of domestic water supply, fish culture, high quality coldwater fishery, irrigation, livestock watering, wildlife habitat, municipal & industrial water supply, and primary contact) in streams and tributaries above confluence of Rio Pueblo and Rio Santa Barbara.

(c) Standard for primary contact.

Table C4–Explanation

COLUMN HEADING	EXPLANATION
Site ID	All records are given a Site ID for tracking purpose, including wells, surface water and springs.
Site Name	Last name of well owner, or name of spring or surface water site.
Geologic Formation	Interpreted geologic formation of water bearing zone(s)
Date Sampled	Date water sample was collected by NMBGMR
TDS	Total Dissolved Solids
Ca	Calcium
Mg	Magnesium
Na	Sodium
K	Potassium
HCO3	Bicarbonate ion
SO4	Sulfate
Cl	Chloride
Br	Bromide
NO3(N)	Nitrate as Nitrogen
Fe	Iron
Mn	Manganese
F	Flouride
Sr	Strontium
SiO2	Silica
Al	Aluminum
As	Arsenic
Ba	Barium
B	Boron
Cu	Copper
Li	Lithium
Mo	Molybdenum
U	Uranium
V	Vanadium
Zn	Zinc



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin _____ Township, Range _____
 Collection Date 3/18/04 09:15 County _____ Section _____
 Well Depth _____ Water Depth Newton Lab. number 04-0320
 Sample Description PW-4

ANALYSIS		ppm		e pm		TDS (ppm)		330		Conductivity (uS/cm)		560	
ANALYSIS	ppm	e pm	ANALYSIS	ppm	e pm	ANALYSIS	ppm	e pm	ANALYSIS	ppm	e pm		
Hardness (CaCO ₃)	53		Aluminum (Al ₂ O ₃)	< 0.001	0.00	Mercury (Hg)				< 0.0001			
Carbonate (CO ₃ ²⁻)		0.00	Arsenic (As)	0.005		Molybdenum (Mo)				0.014			
Bicarbonate (HCO ₃ ⁻)	230	3.77	Barium (Ba)	0.028		Nickel (Ni)				< 0.001			
Bromide (Br)	0.14	0.00	Beryllium (Be)	< 0.001		Selenium (Se)				< 0.001			
Chloride (Cl)	5.5	0.16	Boron (B)	0.34		Strontium (Sr)				0.3	0.01		
Fluoride (F)	3.3	0.17	Cadmium (Cd)	< 0.001		Silica (SiO ₂)				16			
Nitrate (NO ₃ ⁻)	< 0.1	0.00	Chromium (Cr)	0.003		Silver (Ag)				< 0.001			
Phosphate (PO ₄ ³⁻)	< 0.5	0.00	Cobalt (Co)	< 0.001		Thorium (Th)				< 0.001			
Sulfate (SO ₄ ²⁻)	68	1.42	Copper (Cu)	0.013		Uranium (U)				0.008			
Sodium (Na)	95	4.13	Iron (Fe)	< 0.05	0.00	Vanadium (V)				0.001			
Potassium (K)	4.5	0.12	Lead (Pb)	< 0.001		Zinc (Zn)				0.002	0.00		
Magnesium (Mg)	1.9	0.16	Lithium (Li)	0.069									
Calcium (Ca)	18	0.90	Manganese (Mn)	0.002	0.00								

Name, Address and Phone: _____
 Peggy Johnson
 New Mexico Bureau of Geology
 Approved by: *Peggy Johnson*
 Total e pm Cations 5.31
 Total e pm Anions 5.52
 % Difference -1.91
 Charges: \$90.00
 Date received: 03/19/04
 Date completed: 03/24/04

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537

Fax: (505) 841-2543

PW-4

SLD Number: 200401846

Date/Time Rec'd: 3/18/04 2:47:00 PM

Submitter: 998

User: 64000

Date Collected: 3/18/04

Time Collected: 9:15:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-TSOSIES

County:

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

See Comments

Comment: Laboratory accident, please resubmit sample.

Date Out: 3/19/04

Analyst: cdg

CDG

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537

Fax: (505) 841-2543

PW-4

SLD Number: 200401841

Date/Time Rec'd: 3/18/04 2:47:00 PM

Submitter: 998

User: 64000

Date Collected: 3/18/04

Time Collected: 9:15:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-4 TSOSIES

County:

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

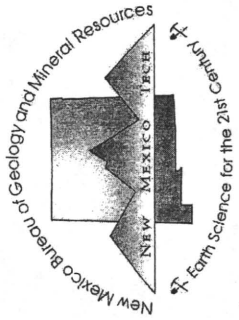
1 /100 mls

Comment: Sample analyzed on 3/18/04 at 4:23pm.

Date Out: 3/19/04

Analyst: cdg

cdg



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin	Township, Range	
Collection Date	Section	
Well Depth	Lab. number	03-1758
Sample Description		

ANALYSIS	pH		TDS (ppm)		Conductivity (uS/cm)		
	ppm	epm	ANALYSIS	ppm	epm	ppm	
Hardness (CaCO ₃)	156		Aluminum (Al ₂ O ₃)	0.003	0.00	Mercury (Hg)	< 0.0001
Carbonate (CO ₃ ²⁻)			Arsenic (As)	0.001		Molybdenum (Mo)	0.002
Bicarbonate (HCO ₃ ⁻)	184	3.02	Barium (Ba)	0.1		Nickel (Ni)	< 0.001
Bromide (Br)	0.1	0.00	Beryllium (Be)	< 0.001		Selenium (Se)	0.001
Chloride (Cl ⁻)	3.4	0.10	Boron (B)	0.031		Strontium (Sr)	0.33
Fluoride (F ⁻)	0.38	0.02	Cadmium (Cd)	< 0.001		Silica (SiO ₂)	49
Nitrate (NO ₃ ⁻)	3.1	0.05	Chromium (Cr)	0.001		Silver (Ag)	< 0.001
Phosphate (PO ₄ ³⁻)	< 0.5	0.00	Cobalt (Co)	< 0.001		Thorium (Th)	< 0.001
Sulfate (SO ₄ ²⁻)	22	0.46	Copper (Cu)	0.13		Uranium (U)	0.006
Sodium (Na)	14	0.61	Iron (Fe)	< 0.05	0.00	Vanadium (V)	0.003
Potassium (K)	4.3	0.11	Lead (Pb)	< 0.001		Zinc (Zn)	0.04
Magnesium (Mg)	5.7	0.47	Lithium (Li)	0.009			
Calcium (Ca)	53	2.64	Manganese (Mn)	< 0.001	0.00		

Name, Address and Phone:
Patty Jackson

Total epm Cations 3.84
Total epm Anions 3.64
% Difference 2.68

Approved by: *Sym Buendwald*

Charges: \$35.00
Date received: 12/11/03
Date completed: 12/24/03

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-6

SLD Number: 200401634

Date/Time Rec'd: 3/10/04 2:55:00 PM

Submitter: 998

User: 64000

Date Collected: 3/10/04

Time Collected: 11:45:00 AM

Disinfected:

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-6 RAEL

County:

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

1 /100 mls

Comment: Sample analyzed on 3/10/04 at 3:53pm.

Date Out: 3/11/04

Analyst: cdg *cdg*

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537

Fax: (505) 841-2543

PW-6

SLD Number: 200401638

Date/Time Rec'd: 3/10/04 2:56:00 PM

Submitter: 998

User: 64000

Date Collected: 3/10/04

Time Collected: 11:45:00 AM

Disinfected: N

Residual: .

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-6 RAEL

County:

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

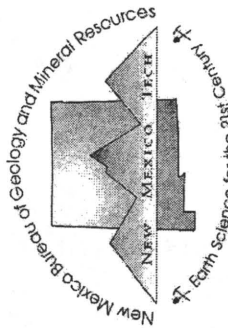
SOCORRO, NM 87801-

Laboratory Results:

Total Coliform - Membrane Filter - ABSENT

Date Out: 3/15/04

Analyst: cdg CD6



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin		Township, Range	
Collection Date	2/27/04 11:45	Section	
Well Depth		Lab. number	04-0197
Sample Description	PW-6A		
	pH 8.32	Conductivity (uS/cm)	344

ANALYSIS		ppm	epm	ANALYSIS		ppm	epm
Hardness (CaCO ₃)		143		Mercury (Hg)		< 0.0001	
Carbonate (CO ₃ ²⁻)			0.00	Molybdenum (Mo)		0.001	
Bicarbonate (HCO ₃ ⁻)		173	2.84	Nickel (Ni)		< 0.001	
Bromide (Br)		< 0.1	0.00	Selenium (Se)		< 0.001	
Chloride (Cl ⁻)		3.3	0.09	Strontium (Sr)		0.29	0.01
Fluoride (F ⁻)		0.4	0.02	Silica (SiO ₂)		49	
Nitrate (NO ₃ ⁻)		3.2	0.05	Silver (Ag)		< 0.001	
Phosphate (PO ₄ ³⁻)		< 0.5	0.00	Thorium (Th)		< 0.001	
Sulfate (SO ₄ ²⁻)		23	0.48	Uranium (U)		0.005	
Sodium (Na)		11	0.48	Vanadium (V)		0.003	
Potassium (K)		3.8	0.10	Zinc (Zn)		0.009	0.00
Magnesium (Mg)		5.5	0.45				
Calcium (Ca)		48	2.40				

Name, Address and Phone:
 Talon Newton
 New Mexico Bureau of Geology

Approved by: *Talon Newton*

Total epm Cations 3.43
 Total epm Anions 3.48
 % Difference -0.72

Charges: \$90.00
 Date received: 02/27/04
 Date completed: 03/17/04

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537

Fax: (505) 841-2543

PW-6A

SLD Number: 200401633

Date/Time Rec'd: 3/10/04 2:55:00 PM

Submitter: 998

User: 64000

Date Collected: 3/10/04

Time Collected: 11:45:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-6A

County:

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

1 /100 mls

Comment: Sample analyzed on 3/10/04 at 3:48pm.

Date Out: 3/11/04

Analyst: cdg

CD6

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-6A

SLD Number: 200401637

Date/Time Rec'd: 3/10/04 2:55:00 PM

Submitter: 998

User: 64000

Date Collected: 3/10/04

Time Collected: 11:45:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-6A RAEL

County:

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

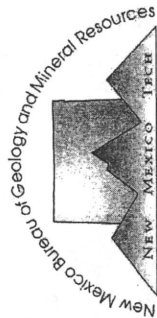
SOCORRO, NM 87801-

Laboratory Results:

Total Coliform - Membrane Filter - ABSENT

Date Out: 3/15/04

Analyst: cdg CDB



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin _____ Township, Range _____
 Collection Date _____ Section _____
 Well Depth _____ Water Depth _____ Lab. number 03-1755
 County _____
 Sample Description PW-8 Conductivity (uS/cm) 394
 pH 7.47 TDS (ppm) 310

ANALYSIS		ppm	epm	ANALYSIS		ppm	epm
Hardness (CaCO ₃)		207		Mercury (Hg)		< 0.0001	
Carbonate (CO ₃ ²⁻)				Molybdenum (Mo)		0.002	
Bicarbonate (HCO ₃ ⁻)		256	4.20	Nickel (Ni)		0.001	
Bromide (Br)		0.15	0.00	Selenium (Se)		0.002	
Chloride (Cl ⁻)		9.3	0.26	Strontium (Sr)		0.6	0.01
Fluoride (F ⁻)		0.67	0.04	Silica (SiO ₂)		46	
Nitrate (NO ₃ ⁻)		3.5	0.06	Silver (Ag)		< 0.001	
Phosphate (PO ₄ ³⁻)		< 0.5	0.00	Thorium (Th)		< 0.001	
Sulfate (SO ₄ ²⁻)		23	0.48	Uranium (U)		0.008	
Sodium (Na)		21	0.91	Vanadium (V)		0.006	
Potassium (K)		3.5	0.09	Zinc (Zn)		0.12	0.00
Magnesium (Mg)		8.5	0.70				
Calcium (Ca)		69	3.44				

Name, Address and Phone: _____
 Patty Jackson _____
 Approved by: *Patty Brandvold*
 Total epm Cations 5.20
 Total epm Anions 5.03
 % Difference 1.64
 Charges: _____
 Date received: 12/11/03
 Date completed: 12/24/03

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

DW-8

SLD Number: 200401639

Date/Time Rec'd: 3/10/04 2:56:00 PM

Submitter: 998

User: 64000

Date Collected: 3/10/04

Time Collected: 12:00:00 PM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-8 MEAD

County:

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Total Coliform - Membrane Filter - ABSENT

Date Out: 3/11/04

Analyst: cdg

CDG

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-8

SLD Number: 200401635

Date/Time Rec'd: 3/10/04 2:55:00 PM

Submitter: 998

User: 64000

Date Collected: 3/10/04

Time Collected: 12:00:00 PM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-8 MEAD

County:

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

1 /100 mls

Comment: Sample analyzed on 3/10/04 at 3:57pm.

Date Out: 3/11/04

Analyst: cdg

CD6

**NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333**

GENERAL CHEMISTRY FORM

Lab. Number 04-0328 County _____ Township, Range _____
 Collection Date 3/31/04 Collected By T. Newton Section _____
 Well Depth _____ Water Depth _____ Basin _____
 Sample Description PW-15 Picoris Pueblo Community Well

Name Peggy Johnson
 Address New Mexico Bureau of Geology
 Address 2 _____
 City, State, Zip code _____
 Phone _____
 FAX _____
 Email _____

Date Received 4/6/04
 Date Completed 4/13/04

CHARGES \$60.00

pH 7.45

Conductivity (uS/cm) 433

TDS (ppm) (calculation) 268

TDS (ppm) (gravimetric) _____

ANALYSIS	Conc. (ppm)	epm
Hardness (CaCO3)	<u>199</u>	

Alkalinity

Carbonate (CO3 ²⁻)	_____	0.0000
Bicarbonate (HCO3 ⁻)	<u>237</u>	3.8844

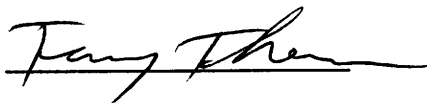
Major Anions

Bromide (Br)	<u>< 0.1</u>	0.0000
Chloride (Cl ⁻)	<u>3.9</u>	0.1100
Fluoride (F ⁻)	<u>0.21</u>	0.0111
Nitrite (NO2 ⁻)	<u>< 0.1</u>	0.0000
Nitrate (NO3 ⁻)	<u>2.9</u>	0.0468
Phosphate (PO4 ³⁻)	<u>< 0.5</u>	0.0000
Sulfate (SO4 ²⁻)	<u>24</u>	0.4997

Major Cations

Sodium (Na)	<u>8.8</u>	0.3828
Potassium (K)	<u>1.8</u>	0.0466
Magnesium (Mg)	<u>8.4</u>	0.6910
Calcium (Ca)	<u>67</u>	3.2830

Total epm Cations	_____	4.41
Total epm Anions	_____	4.55
% Difference	_____	-1.53

Approved By: 

NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333

TRACE METALS FORM


Lab. Number 04-0328 County _____ Township, Range _____
 Collection Date 3/31/04 Collected By T. Newton Section _____
 Well Depth _____ Water Depth _____ Basin _____
 Sample Description PW-15 Picoris Pueblo Community Well

Name Peggy Johnson
 Address New Mexico Bureau of Geology
 Address 2 _____
 City, State, Zip code _____
 Phone _____
 FAX _____
 Email _____

Date Received 4/6/04
 Date Completed 4/13/04

CHARGES \$30.00

ANALYSIS	Conc. (ppm)	epm
Aluminum (Al ₂ O ₃)	< 0.001	0.0000
Antimony (Sb)	< 0.001	
Arsenic (As)	< 0.001	
Barium (Ba)	0.14	
Beryllium (Be)	< 0.001	
Boron (B)	0.016	
Cadmium (Cd)	< 0.001	
Chromium (Cr)	0.004	
Cobalt (Co)	< 0.001	
Copper (Cu)	< 0.001	
Iron (Fe)	< 0.05	0.0000
Lead (Pb)	< 0.001	
Lithium (Li)	0.004	
Manganese (Mn)	< 0.001	0.0000
Mercury (Hg)	< 0.0001	
Molybdenum (Mo)	0.002	
Nickel (Ni)	< 0.001	
Selenium (Se)	< 0.001	
Strontium (Sr)	0.48	0.0110
Silica (SiO ₂)	32	
Silicon (Si)	15	
Silver (Ag)	< 0.001	
Thalium (Tl)	< 0.001	
Thorium (Th)	< 0.001	
Tin (Sn)	< 0.001	
Titanium (Ti)	< 0.001	
Uranium (U)	0.008	
Vanadium (V)	0.002	
Zinc (Zn)	0.001	0.0000

Approved By: 

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-15

SLD Number: 200402009

Date/Time Rec'd: 3/31/04 3:33:00 PM

Submitter: 998

User: 64000

Date Collected: 3/31/04

Time Collected: 9:38:00 AM

Disinfected:

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Community

Collected By: TALON NEWTON

Sample Location: PW-15 PUEBLO

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Total Coliform - Membrane Filter - ABSENT

Date Out: 4/1/04

Analyst: cdg
CDG

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-15

SLD Number: 200402007

Date/Time Rec'd: 3/31/04 3:33:00 PM

Submitter: 998

User: 64000

Date Collected: 3/31/04

Time Collected: 9:30:00 AM

Disinfected:

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Community

Collected By: TALON NEWTON

Sample Location: PW-15 PUEBLO

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

1 /100 mls

Comment: Sample analyzed on 3/31/04 at 4:19pm.

Date Out: 4/1/04

Analyst: cdg

CDG

NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333

GENERAL CHEMISTRY FORM

Lab. Number 04-0588 County _____ Township, Range _____
 Collection Date 5/6/2004 Collected By T. Newton Section _____
 Well Depth _____ Water Depth _____ Basin _____
 Sample Description PW-17 Cordova

Name Peggy Johnson
 Address New Mexico Bureau of Geology
 Address 2 _____
 City, State, Zip code _____
 Phone _____
 FAX _____
 Email _____

Date Received 5/7/2004
 Date Completed 5/20/2004

CHARGES \$60.00

pH 7.23

Conductivity (uS/cm) 844

TDS (ppm) (calculation) 485

TDS (ppm) (gravimetric) _____

ANALYSIS	Conc. (ppm)	epm
Hardness (CaCO3)	<u>365</u>	

Alkalinity

Carbonate (CO3 ²⁻)		0.0000
Bicarbonate (HCO3 ⁻)	<u>450</u>	7.3755

Major Anions

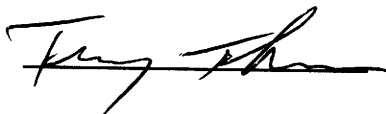
Bromide (Br)	<u>< 0.1</u>	0.0000
Chloride (Cl ⁻)	<u>8.3</u>	0.2341
Fluoride (F ⁻)	<u>0.77</u>	0.0405
Nitrite (NO2 ⁻)	<u>< 0.1</u>	0.0000
Nitrate (NO3 ⁻)	<u>14</u>	0.2258
Phosphate (PO4 ³⁻)	<u>< 0.5</u>	0.0000
Sulfate (SO4 ²⁻)	<u>35</u>	0.7287

Major Cations

Sodium (Na)	<u>28</u>	1.2180
Potassium (K)	<u>1.1</u>	0.0285
Magnesium (Mg)	<u>19</u>	1.5629
Calcium (Ca)	<u>117</u>	5.7330

Total epm Cations	<u>8.65</u>
Total epm Anions	<u>8.60</u>
% Difference	<u>0.24</u>

Approved By:



**NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333**

TRACE METALS FORM

Lab. Number 04-0588 County _____ Township, Range _____
 Collection Date 5/6/2004 Collected By T. Newton Section _____
 Well Depth _____ Water Depth _____ Basin _____
 Sample Description PW-17 Cordova

Name Peggy Johnson
 Address New Mexico Bureau of Geology
 Address 2 _____
 City, State, Zip code _____
 Phone _____
 FAX _____
 Email _____

Date Received 5/7/2004
 Date Completed 5/20/2004

CHARGES \$30.00

ANALYSIS	Conc. (ppm)	epm
Aluminum (Al ₂ O ₃)	0.012	0.0013
Antimony (Sb)	< 0.001	
Arsenic (As)	0.005	
Barium (Ba)	0.19	
Beryllium (Be)	< 0.001	
Boron (B)	0.071	
Cadmium (Cd)	< 0.001	
Chromium (Cr)	0.006	
Cobalt (Co)	< 0.001	
Copper (Cu)	0.013	
Iron (Fe)	< 0.05	0.0000
Lead (Pb)	0.001	
Lithium (Li)	0.043	
Manganese (Mn)	< 0.001	0.0000
Mercury (Hg)	0.0001	
Molybdenum (Mo)	0.001	
Nickel (Ni)	< 0.001	
Selenium (Se)	< 0.001	
Strontium (Sr)	4.3	0.0981
Silica (SiO ₂)	32	
Silicon (Si)	15	
Silver (Ag)	< 0.001	
Thalium (Tl)	< 0.001	
Thorium (Th)	< 0.001	
Tin (Sn)	< 0.001	
Titanium (Ti)	0.008	
Uranium (U)	0.014	
Vanadium (V)	0.012	
Zinc (Zn)	0.12	0.0037

Approved By:



Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-17

SLD Number: 200402867

Date/Time Rec'd: 5/6/04 12:35:00 PM

Submitter: 998

User: 64000

Date Collected: 5/6/04

Time Collected: 9:45:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-17 CORDOVA

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

1 /100 mls

Comment: Sample analyzed on 5/6/04 at 4:39pm.

Date Out: 5/7/04

Analyst: cdg **CDL**

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-17

SLD Number: 200402870

Date/Time Rec'd: 5/6/04 12:35:00 PM

Submitter: 998

User: 64000

Date Collected: 5/6/04

Time Collected: 9:48:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-17 CORDOVA

County: TAOS

WSS Code: 0

Client

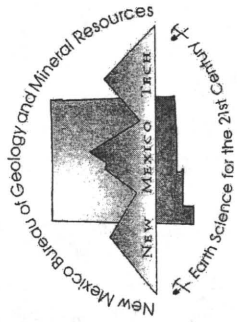
Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE
SOCORRO, NM 87801-

Laboratory Results:

Total Coliform - Membrane Filter - ABSENT

Date Out: 5/7/04

Analyst: cdg
CD6



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin _____ Township, Range _____
 Collection Date _____ Section _____
 Well Depth _____ Water Depth _____ Lab. number 03-1761
 County _____

Sample Description PW-21 Conductivity (uS/cm) 392
 pH 7.77 TDS (ppm) 300

ANALYSIS	ppm	epm	ANALYSIS	ppm	epm	ANALYSIS	ppm	epm
Hardness (CaCO ₃)	231		Aluminum (Al ₂ O ₃)	0.004	0.00	Mercury (Hg)	< 0.0001	
Carbonate (CO ₃ ²⁻)			Arsenic (As)	0.003		Molybdenum (Mo)	< 0.001	
Bicarbonate (HCO ₃ ⁻)	265	4.34	Barium (Ba)	0.082		Nickel (Ni)	< 0.001	
Bromide (Br)	0.04	0.00	Beryllium (Be)	< 0.001		Selenium (Se)	< 0.001	
Chloride (Cl ⁻)	4.8	0.14	Boron (B)	0.021		Strontium (Sr)	0.59	0.01
Fluoride (F ⁻)	0.59	0.03	Cadmium (Cd)	< 0.001		Silica (SiO ₂)	43	
Nitrate (NO ₃ ⁻)	3.8	0.06	Chromium (Cr)	< 0.001		Silver (Ag)	< 0.001	
Phosphate (PO ₄ ³⁻)	< 0.5	0.00	Cobalt (Co)	< 0.001		Thorium (Th)	< 0.001	
Sulfate (SO ₄ ²⁻)	20	0.42	Copper (Cu)	0.022		Uranium (U)	0.004	
Sodium (Na)	8.1	0.35	Iron (Fe)	< 0.05	0.00	Vanadium (V)	0.003	
Potassium (K)	3	0.08	Lead (Pb)	< 0.001		Zinc (Zn)	0.065	0.00
Magnesium (Mg)	16	1.32	Lithium (Li)	0.011				
Calcium (Ca)	66	3.29	Manganese (Mn)	< 0.001	0.00			

Name, Address and Phone: _____ Approved by: Lynn Brandwald
 Patty Jackson _____

Total epm Cations 5.05
 Total epm Anions 4.99
 % Difference 0.66

Charges: \$35.00 Date received: 12/19/03
 _____ Date completed: 12/24/03

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-21

SLD Number: 200401673

Date/Time Rec'd: 3/11/04 2:46:00 PM

Submitter: 998

User: 64000

Date Collected: 3/11/04

Time Collected: 11:50:00 AM

Disinfected:

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-21 LOPEZ

County:

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

1 /100 mls

Comment: Sample analyzed on 3/11/04 at 3:55pm.

Date Out: 3/12/04

Analyst: cdg *cdg*

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-21

SLD Number: 200401676

Date/Time Rec'd: 3/11/04 2:46:00 PM

Submitter: 998

User: 64000

Date Collected: 3/11/04

Time Collected: 11:50:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-21 LOPEZ

County: SOCORRO

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

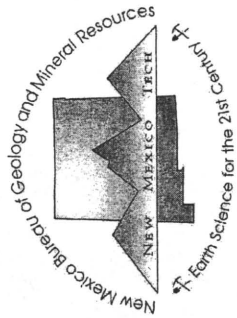
SOCORRO, NM 87801-

Laboratory Results:

Total Coliform - Membrane Filter - ABSENT

Date Out: 3/12/04

Analyst: cdg *cdg*



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin _____ Township, Range _____
 Collection Date _____ County _____ Section _____
 Well Depth _____ Collected By _____ Lab. number 03-1756
 Sample Description PW-24

ANALYSIS	pH		TDS (ppm)		320		Conductivity (uS/cm)	
	ppm	epm	ANALYSIS	ppm	epm	ANALYSIS	ppm	epm
Hardness (CaCO ₃)	261		Aluminum (Al ₂ O ₃)	0.001	0.00	Mercury (Hg)	< 0.0001	
Carbonate (CO ₃ ²⁻)			Arsenic (As)	< 0.001		Molybdenum (Mo)	< 0.001	
Bicarbonate (HCO ₃ ⁻)	285	4.67	Barium (Ba)	0.14		Nickel (Ni)	< 0.001	
Bromide (Br ⁻)	< 0.1	0.00	Beryllium (Be)	< 0.001		Selenium (Se)	< 0.001	
Chloride (Cl ⁻)	5.7	0.16	Boron (B)	0.023		Strontium (Sr)	0.46	0.01
Fluoride (F ⁻)	0.29	0.02	Cadmium (Cd)	< 0.001		Silica (SiO ₂)	41	
Nitrate (NO ₃ ⁻)	2.1	0.03	Chromium (Cr)	< 0.001		Silver (Ag)	< 0.001	
Phosphate (PO ₄ ³⁻)	< 0.5	0.00	Cobalt (Co)	< 0.001		Thorium (Th)	< 0.001	
Sulfate (SO ₄ ²⁻)	29	0.60	Copper (Cu)	0.015		Uranium (U)	0.003	
Sodium (Na)	4.9	0.21	Iron (Fe)	< 0.05	0.00	Vanadium (V)	0.002	
Potassium (K)	3	0.08	Lead (Pb)	0.001		Zinc (Zn)	0.15	0.00
Magnesium (Mg)	13	1.07	Lithium (Li)	0.004				
Calcium (Ca)	83	4.14	Manganese (Mn)	< 0.001	0.00			

Name, Address and Phone:
Patty Jackson

Total ppm Cations 5.52
 Total ppm Anions 5.48
 % Difference 0.28

Approved by: *Synn Brandwood*

Charges: \$35.00
 Date received: 12/11/03
 Date completed: 12/25/03

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-24

SLD Number: 200401844

Date/Time Rec'd: 3/18/04 2:47:00 PM

Submitter: 998

User: 64000

Date Collected: 3/18/04

Time Collected: 11:00:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-24 GUAULE

County:

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Total Coliform - Membrane Filter - ABSENT

Date Out: 3/19/04

Analyst: cdg CDG

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-24

SLD Number: 200401839

Date/Time Rec'd: 3/18/04 2:47:00 PM

Submitter: 998

User: 64000

Date Collected: 3/18/04

Time Collected: 11:00:00 AM

Disinfected: Y

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-24 GUAULE

County:

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

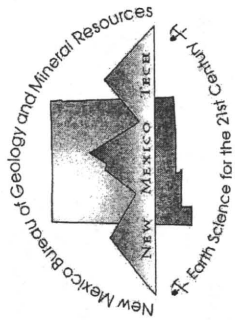
1 /100 mls

Comment: Sample analyzed on 3/18/04 at 4:08pm.

Date Out: 3/19/04

Analyst: cdg

CD6



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
 NEW MEXICO TECH
 801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin _____ Township, Range _____
 Collection Date _____ Section _____
 Well Depth _____ Water Depth _____ Lab. number 03-1757

Sample Description PW-27 Conductivity (uS/cm) 438
 pH 7.58 TDS (ppm) 360

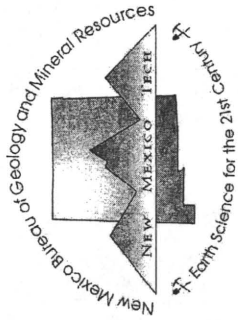
ANALYSIS	ppm	epm	ANALYSIS	ppm	epm	ANALYSIS	ppm	epm
Hardness (CaCO ₃)	219		Aluminum (Al ₂ O ₃)	< 0.001	0.00	Mercury (Hg)	< 0.0001	
Carbonate (CO ₃ ²⁻)		0.00	Arsenic (As)	0.003		Molybdenum (Mo)	< 0.001	
Bicarbonate (HCO ₃ ⁻)	308	5.05	Barium (Ba)	0.18		Nickel (Ni)	< 0.001	
Bromide (Br)	0.11	0.00	Beryllium (Be)	< 0.001		Selenium (Se)	< 0.001	
Chloride (Cl ⁻)	7.1	0.20	Boron (B)	0.04		Strontium (Sr)	1.1	0.03
Fluoride (F ⁻)	0.65	0.03	Cadmium (Cd)	< 0.001		Silica (SiO ₂)	54	
Nitrate (NO ₃ ⁻)	4.8	0.08	Chromium (Cr)	< 0.001		Silver (Ag)	< 0.001	
Phosphate (PO ₄ ³⁻)	< 0.5	0.00	Cobalt (Co)	< 0.001		Thorium (Th)	< 0.001	
Sulfate (SO ₄ ²⁻)	22	0.46	Copper (Cu)	0.009		Uranium (U)	0.03	
Sodium (Na)	27	1.17	Iron (Fe)	< 0.05	0.00	Vanadium (V)	0.004	
Potassium (K)	6.4	0.16	Lead (Pb)	0.004		Zinc (Zn)	0.47	0.01
Magnesium (Mg)	12	0.99	Lithium (Li)	0.026				
Calcium (Ca)	68	3.39	Manganese (Mn)	< 0.001	0.00			

Name, Address and Phone:
 Patty Jackson

Total epm Cations 5.76
 Total epm Anions 5.82
 % Difference -0.53

Approved by: *Synn Brandwald*

Charges: \$35.00
 Date received: 12/11/03
 Date completed: 12/24/03



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin _____ Township, Range _____
 Collection Date _____ Collected By _____ Section _____
 Well Depth _____ Water Depth _____ Lab. number 03-1759
 Sample Description PW-28
 pH 7.79 Conductivity (uS/cm) 257

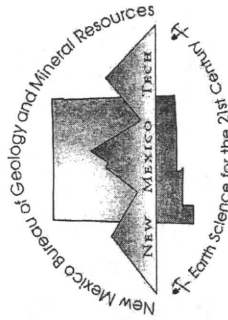
ANALYSIS		ppm	epm	ANALYSIS		ppm	epm
Hardness (CaCO ₃)		131		Aluminum (Al ₂ O ₃)		0.003	0.00
Carbonate (CO ₃ ²⁻)				Arsenic (As)		0.002	
Bicarbonate (HCO ₃ ⁻)		178	2.92	Barium (Ba)		0.08	
Bromide (Br)		0.1	0.00	Beryllium (Be)		< 0.001	
Chloride (Cl)		2.2	0.06	Boron (B)		0.034	
Fluoride (F)		0.14	0.01	Cadmium (Cd)		< 0.001	
Nitrate (NO ₃ ⁻)		0.97	0.02	Chromium (Cr)		0.002	
Phosphate (PO ₄ ³⁻)		< 0.5	0.00	Cobalt (Co)		< 0.001	
Sulfate (SO ₄ ²⁻)		19	0.40	Copper (Cu)		0.092	
Sodium (Na)		15	0.65	Iron (Fe)		0.89	0.05
Potassium (K)		1.8	0.05	Lead (Pb)		0.001	
Magnesium (Mg)		5.8	0.48	Lithium (Li)		0.012	
Calcium (Ca)		43	2.15	Manganese (Mn)		0.003	0.00
				ANALYSIS			
				Mercury (Hg)			< 0.0001
				Molybdenum (Mo)			< 0.001
				Nickel (Ni)			< 0.001
				Selenium (Se)			< 0.001
				Strontium (Sr)		0.63	0.01
				Silica (SiO ₂)		23	
				Silver (Ag)			< 0.001
				Thorium (Th)			< 0.001
				Uranium (U)		0.006	
				Vanadium (V)		0.008	
				Zinc (Zn)		0.055	0.00

Name, Address and Phone:
 Patty Jackson

Total epm Cations 3.39
 Total epm Anions 3.40
 % Difference -0.20

Approved by: *Lynn Brandwald*

Charges: \$35.00
 Date received: 12/11/03
 Date completed: 12/24/03



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
 NEW MEXICO TECH
 801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin _____ Township, Range _____
 Collection Date _____ Section _____
 Well Depth _____ Water Depth _____ Lab. number 03-1762
 County _____

Sample Description PW-31
 pH 7.38 Conductivity (uS/cm) 264

ANALYSIS	ppm		epm		TDS (ppm)		180		ppm		epm		ANALYSIS		ppm		epm																				
	Hardness (CaCO ₃)	Carbonate (CO ₃ ²⁻)	Bicarbonate (HCO ₃ ⁻)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃ ⁻)	Phosphate (PO ₄ ³⁻)	Sulfate (SO ₄ ²⁻)	Sodium (Na)	Potassium (K)	Magnesium (Mg)	Calcium (Ca)	Aluminum (Al ₂ O ₃)	Arsenic (As)	Barium (Ba)	Beryllium (Be)	Boron (B)	Cadmium (Cd)	Chromium (Cr)	Cobalt (Co)	Copper (Cu)	Iron (Fe)	Lead (Pb)	Lithium (Li)	Manganese (Mn)	Mercury (Hg)	Molybdenum (Mo)	Nickel (Ni)	Selenium (Se)	Strontium (Sr)	Silica (SiO ₂)	Silver (Ag)	Thorium (Th)	Uranium (U)	Vanadium (V)	Zinc (Zn)
	134		105	< 0.1	3.1	0.12	0.72	< 0.5	62	6.5	0.74	5.9	44	0.18	< 0.001	0.05	< 0.001	0.01	< 0.001	< 0.001	< 0.001	0.41	0.47	0.002	0.003	< 0.0001	< 0.001	0.001	< 0.001	0.21	6.8	< 0.001	< 0.001	< 0.001	< 0.001	0.059	0.00

Name, Address and Phone:
 Patty Jackson

Total epm Cations 3.03
 Total epm Anions 3.12
 % Difference -1.34

Approved by: Lynn Bandwald

Charges: \$35.00
 Date received: 12/19/03
 Date completed: 12/24/03

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-31

SLD Number: 200401260

Date/Time Rec'd: 2/25/04 12:31:00 PM

Submitter: 998

User: 64000

Date Collected: 2/25/04

Time Collected: 8:00:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-31 ECHWALDO

County: SOCORRO

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Total Coliform - Membrane Filter - ABSENT

Date Out: 3/1/04

Analyst: cdg *cdg*

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-31

SLD Number: 200401263

Date/Time Rec'd: 2/25/04 12:31:00 PM

Submitter: 998

User: 64000

Date Collected: 2/25/04

Time Collected: 8:00:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-31 ECHWALDO

County: SOCORRO

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

1 /100 mls

Comment: Sample analyzed on 2/25/04 at 2:22pm.

Date Out: 2/26/04

Analyst: cdg *cdg*

NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333

GENERAL CHEMISTRY FORM

Lab. Number 04-0331 County Township, Range
Collection Date 3/31/04 Collected By T. Newton Section
Well Depth Water Depth Basin
Sample Description PW-32 Fresquez

Name Peggy Johnson
Address New Mexico Bureau of Geology
Address 2
City, State, Zip code
Phone
FAX
Email

Date Received 4/6/04
Date Completed 4/13/04

CHARGES \$60.00

pH 7.85

Conductivity (uS/cm) 283

TDS (ppm) (calculation) 164

TDS (ppm) (gravimetric)

ANALYSIS	Conc. (ppm)	eprn
Hardness (CaCO3)	<u>131</u>	

Alkalinity

Carbonate (CO3 ²⁻)	<u> </u>	0.0000
Bicarbonate (HCO3 ⁻)	<u>176</u>	2.8846

Major Anions

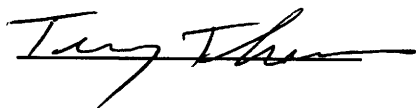
Bromide (Br)	<u>< 0.1</u>	0.0000
Chloride (Cl ⁻)	<u>3.7</u>	0.1044
Fluoride (F ⁻)	<u>0.26</u>	0.0137
Nitrite (NO2 ⁻)	<u>< 0.1</u>	0.0000
Nitrate (NO3 ⁻)	<u>1.2</u>	0.0194
Phosphate (PO4 ³⁻)	<u>< 0.5</u>	0.0000
Sulfate (SO4 ²⁻)	<u>9.2</u>	0.1915

Major Cations

Sodium (Na)	<u>11</u>	0.4785
Potassium (K)	<u>1.1</u>	0.0285
Magnesium (Mg)	<u>6.2</u>	0.5100
Calcium (Ca)	<u>43</u>	2.1070

Total eprn Cations	<u> </u>	3.13
Total eprn Anions	<u> </u>	3.21
% Difference	<u> </u>	-1.24

Approved By:



**NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333**

TRACE METALS FORM

Lab. Number 04-0331 County _____ Township, Range _____
 Collection Date 3/31/2004 Collected By T. Newton Section _____
 Well Depth _____ Water Depth _____ Basin _____
 Sample Description PW-32 Fresquez

Name Peggy Johnson
 Address New Mexico Bureau of Geology
 Address 2 _____
 City, State, Zip code _____
 Phone _____
 FAX _____
 Email _____

Date Received 4/6/2004
 Date Completed 4/13/2004

CHARGES \$30.00

ANALYSIS	Conc. (ppm)	eppm
Aluminum (Al ₂ O ₃)	< 0.001	0.0000
Antimony (Sb)	< 0.001	
Arsenic (As)	0.001	
Barium (Ba)	0.16	
Beryllium (Be)	< 0.001	
Boron (B)	0.016	
Cadmium (Cd)	< 0.001	
Chromium (Cr)	0.002	
Cobalt (Co)	< 0.001	
Copper (Cu)	0.008	
Iron (Fe)	< 0.05	0.0000
Lead (Pb)	< 0.001	
Lithium (Li)	0.013	
Manganese (Mn)	< 0.001	0.0000
Mercury (Hg)	< 0.0001	
Molybdenum (Mo)	< 0.001	
Nickel (Ni)	< 0.001	
Selenium (Se)	< 0.001	
Strontium (Sr)	0.44	0.0100
Silica (SiO ₂)	18	
Silicon (Si)	8.4	
Silver (Ag)	< 0.001	
Thalium (Tl)	< 0.001	
Thorium (Th)	< 0.001	
Tin (Sn)	< 0.001	
Titanium (Ti)	< 0.001	
Uranium (U)	0.002	
Vanadium (V)	0.002	
Zinc (Zn)	0.021	0.0006

Approved By: 

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-32

SLD Number: 200402010

Date/Time Rec'd: 3/31/04 3:33:00 PM

Submitter: 998

User: 64000

Date Collected: 3/31/04

Time Collected: 12:20:00 PM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-32 FRESQUEZ

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Total Coliform - Membrane Filter - ABSENT

Date Out: 4/3/04

Analyst: cdg *CDG*

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-32

SLD Number: 200402008

Date/Time Rec'd: 3/31/04 3:33:00 PM

Submitter: 998

User: 64000

Date Collected: 3/31/04

Time Collected: 12:20:00 PM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-32 FRESQUEZ

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

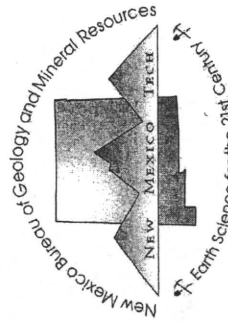
1 /100 mls

Comment: Sample analyzed on 3/31/04 at 4:23pm.

Date Out: 4/1/04

Analyst: cdg

CD6



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin _____ Township, Range _____
 Collection Date _____ Section _____
 Well Depth _____ Water Depth _____ Lab. number 03-1763
 County _____

Sample Description PW-34 Conductivity (uS/cm) 383
 pH 7.56 TDS (ppm) 280

ANALYSIS	ppm	epm	ANALYSIS	ppm	epm	ANALYSIS	ppm	epm
Hardness (CaCO ₃)	229		Aluminum (Al ₂ O ₃)	0.001	0.00	Mercury (Hg)	< 0.0001	
Carbonate (CO ₃ ²⁻)			Arsenic (As)	< 0.001		Molybdenum (Mo)	< 0.001	
Bicarbonate (HCO ₃ ⁻)	252	4.13	Barium (Ba)	0.26		Nickel (Ni)	< 0.001	
Bromide (Br)	< 0.1	0.00	Beryllium (Be)	< 0.001		Selenium (Se)	< 0.001	
Chloride (Cl ⁻)	7.2	0.20	Boron (B)	0.014		Strontium (Sr)	0.31	0.01
Fluoride (F ⁻)	0.18	0.01	Cadmium (Cd)	< 0.001		Silica (SiO ₂)	31	
Nitrate (NO ₃ ⁻)	3.3	0.05	Chromium (Cr)	< 0.001		Silver (Ag)	< 0.001	
Phosphate (PO ₄ ³⁻)	< 0.5	0.00	Cobalt (Co)	< 0.001		Thorium (Th)	< 0.001	
Sulfate (SO ₄ ²⁻)	19	0.40	Copper (Cu)	0.024		Uranium (U)	0.002	
Sodium (Na)	5.3	0.23	Iron (Fe)	< 0.05	0.00	Vanadium (V)	0.001	
Potassium (K)	1.2	0.03	Lead (Pb)	0.005		Zinc (Zn)	0.97	0.03
Magnesium (Mg)	6.5	0.53	Lithium (Li)	0.006				
Calcium (Ca)	81	4.04	Manganese (Mn)	< 0.001	0.00			

Name, Address and Phone:
 Patty Jackson

Total epm Cations 4.87
 Total epm Anions 4.79
 % Difference 0.86

Approved by: *Ann Brantford*

Charges: \$35.00 Date received: 12/19/03
 _____ Date completed: 12/24/03

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-34

SLD Number: 200401261

Date/Time Rec'd: 2/25/04 12:32:00 PM

Submitter: 998

User: 64000

Date Collected: 2/25/04

Time Collected: 9:30:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-34 ROYBAL

County: SOCORRO

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Total Coliform - Membrane Filter - ABSENT

Date Out: 2/26/04

Analyst: cdg

CDG

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-34

SLD Number: 200401264

Date/Time Rec'd: 2/25/04 12:31:00 PM

Submitter: 998

User: 64000

Date Collected: 2/25/04

Time Collected: 9:30:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-34 ROYBAL

County: SOCORRO

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

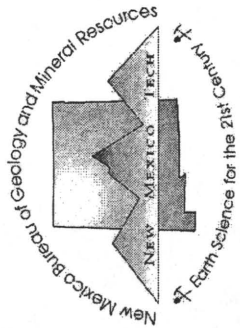
1 /100 mls

Comment: Sample analyzed on 2/25/04 at 2:27pm.

Date Out: 2/26/04

Analyst: cdg

CD6



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin _____ Township, Range _____
 Collection Date 2/26/04 10:55 County _____ Section _____
 Well Depth _____ Water Depth _____ Lab. number 04-0198
 Sample Description PW-37 Conductivity (uS/cm) 534

ANALYSIS		ppm	epm	TDS (ppm)		320	Conductivity (uS/cm)		534
ANALYSIS	ppm	epm	ANALYSIS	ppm	epm	ANALYSIS	ppm	epm	ppm
Hardness (CaCO ₃)	245		Aluminum (Al ₂ O ₃)	0.018	0.00	Mercury (Hg)	< 0.0001		
Carbonate (CO ₃ ²⁻)		0.00	Arsenic (As)	0.002		Molybdenum (Mo)	< 0.001		
Bicarbonate (HCO ₃ ⁻)	305	5.00	Barium (Ba)	0.31		Nickel (Ni)	< 0.001		
Bromide (Br)	< 0.1	0.00	Beryllium (Be)	< 0.001		Selenium (Se)	< 0.001		
Chloride (Cl)	5	0.14	Boron (B)	0.027		Strontium (Sr)	0.39	0.01	
Fluoride (F)	0.23	0.01	Cadmium (Cd)	< 0.001		Silica (SiO ₂)	34		
Nitrate (NO ₃ ⁻)	2.8	0.05	Chromium (Cr)	0.002		Silver (Ag)	< 0.001		
Phosphate (PO ₄ ³⁻)	< 0.5	0.00	Cobalt (Co)	< 0.001		Thorium (Th)	< 0.001		
Sulfate (SO ₄ ²⁻)	21	0.44	Copper (Cu)	0.007		Uranium (U)	0.003		
Sodium (Na)	11	0.48	Iron (Fe)	0.084	0.00	Vanadium (V)	0.007		
Potassium (K)	1.4	0.04	Lead (Pb)	< 0.001		Zinc (Zn)	0.015	0.00	
Magnesium (Mg)	9.1	0.75	Lithium (Li)	0.01					
Calcium (Ca)	83	4.14	Manganese (Mn)	0.002	0.00				

Name, Address and Phone:
 Talon Newton
 New Mexico Bureau of Geology

Total epm Cations 5.42
 Total epm Anions 5.63
 % Difference -1.93

Approved by: *Talon Newton*

Charges: \$90.00 Date received: 02/27/04
 _____ Date completed: 03/17/04

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-37

SLD Number: 200401308

Date/Time Rec'd: 2/26/04 2:26:00 PM

Submitter: 998

User: 64000

Date Collected: 2/26/04

Time Collected: 10:55:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-37 DOMINGUEZ

County:

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

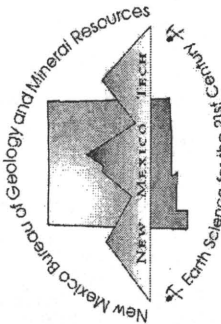
Laboratory Results:

Total Coliform - Membrane Filter - ABSENT

Date Out: 2/27/04

Analyst: cdg

06



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin	County	Township, Range
Collection Date	Collected By	Section
Well Depth	Water Depth	Lab. number
Sample Description		

pH		TDS (ppm)		330		Conductivity (uS/cm)		524	
ANALYSIS	ppm	ANALYSIS	ppm	ANALYSIS	ppm	ANALYSIS	ppm	ANALYSIS	ppm
Hardness (CaCO ₃)	213	Aluminum (Al ₂ O ₃)	< 0.001	Mercury (Hg)	< 0.0001	Molybdenum (Mo)	0.001	Nickel (Ni)	< 0.001
Carbonate (CO ₃ ²⁻)	0.00	Arsenic (As)	0.003	Barium (Ba)	0.22	Beryllium (Be)	< 0.001	Selenium (Se)	< 0.001
Bicarbonate (HCO ₃ ⁻)	4.34	Barium (Ba)	0.00	Boron (B)	0.013	Cadmium (Cd)	< 0.001	Strontium (Sr)	0.53
Bromide (Br)	0.13	Beryllium (Be)	0.68	Cadmium (Cd)	< 0.001	Chromium (Cr)	0.002	Silica (SiO ₂)	55
Chloride (Cl ⁻)	24	Boron (B)	0.02	Chromium (Cr)	< 0.001	Cobalt (Co)	< 0.001	Silver (Ag)	< 0.001
Fluoride (F ⁻)	0.45	Cadmium (Cd)	0.04	Cobalt (Co)	0.002	Copper (Cu)	< 0.05	Thorium (Th)	< 0.001
Nitrate (NO ₃ ⁻)	2.3	Chromium (Cr)	0.00	Copper (Cu)	0.002	Iron (Fe)	< 0.001	Uranium (U)	0.004
Phosphate (PO ₄ ³⁻)	< 0.5	Cobalt (Co)	0.35	Iron (Fe)	0.83	Lead (Pb)	0.017	Vanadium (V)	0.011
Sulfate (SO ₄ ²⁻)	17	Copper (Cu)	0.09	Lead (Pb)	0.82	Lithium (Li)	< 0.001	Zinc (Zn)	0.013
Sodium (Na)	19	Iron (Fe)	3.44	Manganese (Mn)	< 0.001				
Potassium (K)	3.5	Lead (Pb)							
Magnesium (Mg)	10	Lithium (Li)							
Calcium (Ca)	69	Manganese (Mn)							

Name, Address and Phone:	Total epm Cations	5.19
Talon Newton	Total epm Anions	5.44
New Mexico Bureau of Geology	% Difference	-2.28
	Charges:	\$90.00
	Date received:	02/27/04
	Date completed:	03/17/04

Approved by: *Tony*

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-38

SLD Number: 200401842

Date/Time Rec'd: 3/18/04 2:47:00 PM

Submitter: 998

User: 64000

Date Collected: 3/18/04

Time Collected: 11:45:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-38 VASQUEZ

County:

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Total Coliform - Membrane Filter + **PRESENT**

Fecal Coliforms - **ABSENT**

Comment: TNTC of noncoliforms.

Date Out: 3/22/04

Analyst: cdg *cdg*

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-38

SLD Number: 200401837

Date/Time Rec'd: 3/18/04 2:47:00 PM

Submitter: 998

User: 64000

Date Collected: 3/18/04

Time Collected: 11:45:00 AM

Disinfected:

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-38 VASQUEZ

County:

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter < 1 /100 mls

Comment: Sample analyzed on 3/18/04 at 3:59pm.

Date Out: 3/19/04

Analyst: cdg *CDG*

**NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333**

GENERAL CHEMISTRY FORM

Lab. Number 04-0584 County _____ Township, Range _____
 Collection Date 4/27/2004 Collected By T. Newton Section _____
 Well Depth _____ Water Depth _____ Basin _____
 Sample Description PW-39 Lopez

Name Peggy Johnson
 Address New Mexico Bureau of Geology
 Address 2 _____
 City, State, Zip code _____
 Phone _____
 FAX _____
 Email _____

Date Received 5/3/2004
 Date Completed 5/19/2004

CHARGES \$60.00

pH 7.57

Conductivity (uS/cm) 513

TDS (ppm) (calculation) 301

TDS (ppm) (gravimetric) _____

ANALYSIS	Conc. (ppm)	epm
Hardness (CaCO3)	<u>242</u>	

Alkalinity

Carbonate (CO3 ²⁻)	_____	0.0000
Bicarbonate (HCO3 ⁻)	<u>271</u>	4.4417

Major Anions

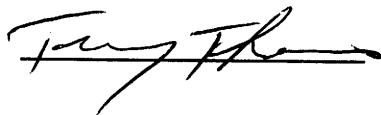
Bromide (Br)	<u>< 0.1</u>	0.0000
Chloride (Cl ⁻)	<u>8</u>	0.2257
Fluoride (F ⁻)	<u>0.13</u>	0.0068
Nitrite (NO2 ⁻)	<u>< 0.1</u>	0.0000
Nitrate (NO3 ⁻)	<u>1.2</u>	0.0194
Phosphate (PO4 ³⁻)	<u>< 0.5</u>	0.0000
Sulfate (SO4 ²⁻)	<u>20</u>	0.4164

Major Cations

Sodium (Na)	<u>4.9</u>	0.2132
Potassium (K)	<u>1.9</u>	0.0492
Magnesium (Mg)	<u>9.4</u>	0.7732
Calcium (Ca)	<u>83</u>	4.0670

Total epm Cations	_____	5.12
Total epm Anions	_____	5.11
% Difference	_____	0.07

Approved By:



**NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333**

TRACE METALS FORM

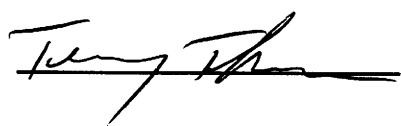
Lab. Number 04-0584 County _____ Township, Range _____
 Collection Date 4/27/2004 Collected By T. Newton Section _____
 Well Depth _____ Water Depth _____ Basin _____
 Sample Description PW-39 Lopez

Name Peggy Johnson
 Address New Mexico Bureau of Geology
 Address 2 _____
 City, State, Zip code _____
 Phone _____
 FAX _____
 Email _____

Date Received 5/3/2004
 Date Completed 5/19/2004

CHARGES \$30.00

ANALYSIS	Conc. (ppm)	epm
Aluminum (Al ₂ O ₃)	< 0.001	0.0000
Antimony (Sb)	< 0.001	
Arsenic (As)	< 0.001	
Barium (Ba)	0.23	
Beryllium (Be)	< 0.001	
Boron (B)	0.014	
Cadmium (Cd)	< 0.001	
Chromium (Cr)	0.003	
Cobalt (Co)	< 0.001	
Copper (Cu)	0.002	
Iron (Fe)	< 0.05	0.0000
Lead (Pb)	< 0.001	
Lithium (Li)	0.005	
Manganese (Mn)	< 0.001	0.0000
Mercury (Hg)	< 0.0001	
Molybdenum (Mo)	< 0.001	
Nickel (Ni)	< 0.001	
Selenium (Se)	< 0.001	
Strontium (Sr)	0.62	0.0141
Silica (SiO ₂)	36	
Silicon (Si)	17	
Silver (Ag)	< 0.001	
Thalium (Tl)	< 0.001	
Thorium (Th)	< 0.001	
Tin (Sn)	< 0.001	
Titanium (Ti)	0.001	
Uranium (U)	0.004	
Vanadium (V)	0.002	
Zinc (Zn)	0.008	0.0002

Approved By: 

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-39

SLD Number: 200402694

Date/Time Rec'd: 4/29/04 3:02:00 PM

Submitter: 998

User: 64000

Date Collected: 4/29/04

Time Collected: 9:30:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-39 LOPEZ

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

1 /100 mls

Comment: Sample analyzed on 4/29/04 at 3:45pm.

Date Out: 4/30/04

Analyst: cdg **cd6**

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537

Fax: (505) 841-2543

PW-39

SLD Number: 200402696

Date/Time Rec'd: 4/29/04 3:02:00 PM

Submitter: 998

User: 64000

Date Collected: 4/29/04

Time Collected: 9:30:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-39 LOPEZ

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

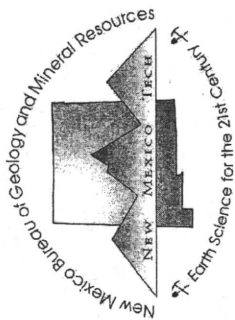
Laboratory Results:

Total Coliform - Membrane Filter - ABSENT

Date Out: 4/30/04

Analyst: cdg

CDB



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin _____ Township, Range _____
 Collection Date _____ Section _____
 Well Depth _____ Water Depth _____ Lab. number 03-1753
 Sample Description PW-40

pH		TDS (ppm)		260		364	
ANALYSIS	ppm	ANALYSIS	ppm	ANALYSIS	ppm	ANALYSIS	ppm
Hardness (CaCO ₃)	211	Aluminum (Al ₂ O ₃)	0.005	Mercury (Hg)	< 0.0001		
Carbonate (CO ₃ ²⁻)	0.00	Arsenic (As)	< 0.001	Molybdenum (Mo)	< 0.001		
Bicarbonate (HCO ₃ ⁻)	4.05	Barium (Ba)	0.15	Nickel (Ni)	< 0.001		
Bromide (Br)	0.1	Beryllium (Be)	< 0.001	Selenium (Se)	< 0.001		
Chloride (Cl ⁻)	5.5	Boron (B)	0.013	Strontium (Sr)	0.34	0.01	
Fluoride (F ⁻)	0.13	Cadmium (Cd)	< 0.001	Silica (SiO ₂)	20		
Nitrate (NO ₃ ⁻)	2.1	Chromium (Cr)	< 0.001	Silver (Ag)	< 0.001		
Phosphate (PO ₄ ³⁻)	< 0.5	Cobalt (Co)	< 0.001	Thorium (Th)	< 0.001		
Sulfate (SO ₄ ²⁻)	24	Copper (Cu)	0.008	Uranium (U)	0.002		
Sodium (Na)	6.9	Iron (Fe)	< 0.05	Vanadium (V)	< 0.001		
Potassium (K)	1.3	Lead (Pb)	< 0.001	Zinc (Zn)	0.005	0.00	
Magnesium (Mg)	6.9	Lithium (Li)	0.005				
Calcium (Ca)	73	Manganese (Mn)	< 0.001				

Name, Address and Phone: _____
 Patty Jackson _____
 Approved by: *Sym Brundwald*
 Date received: 12/11/03
 Date completed: 12/24/03
 Charges: \$35.00
 Total epm Cations: 4.55
 Total epm Anions: 4.75
 % Difference: -2.08

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-40

SLD Number: 200401843

Date/Time Rec'd: 3/18/04 2:47:00 PM

Submitter: 998

User: 64000

Date Collected: 3/18/04

Time Collected: 11:25:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-40 ROYBAL

County:

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Total Coliform - Membrane Filter - ABSENT

Date Out: 3/19/04

Analyst: cdg

CDG

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-40

SLD Number: 200401838

Date/Time Rec'd: 3/18/04 2:47:00 PM

Submitter: 998

User: 64000

Date Collected: 3/18/04

Time Collected: 11:25:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-40 ROYBAL

County:

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter < 1 /100 mls

Comment: Sample analyzed on 3/18/04 at 4:04pm.

Date Out: 3/19/04

Analyst: cdg

CDL

NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333

GENERAL CHEMISTRY FORM

Lab. Number 04-0327 County Township, Range
Collection Date 4/1/04 Collected By T. Newton Section
Well Depth Water Depth Basin
Sample Description PW-45A Rodriguez

Name Peggy Johnson
Address New Mexico Bureau of Geology
Address 2
City, State, Zip code
Phone
FAX
Email

Date Received 4/6/04
Date Completed 4/13/04

CHARGES \$60.00

pH 7.16

Conductivity (uS/cm) 433

TDS (ppm) (calculation) 248

TDS (ppm) (gravimetric)

ANALYSIS	Conc. (ppm)	epm
Hardness (CaCO3)	<u>192</u>	

Alkalinity

Carbonate (CO3 ²⁻)	<u> </u>	0.0000
Bicarbonate (HCO3 ⁻)	<u>176</u>	2.8846

Major Anions

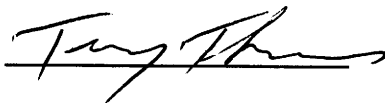
Bromide (Br)	<u>0.1</u>	0.0013
Chloride (Cl ⁻)	<u>4.8</u>	0.1354
Fluoride (F ⁻)	<u>0.13</u>	0.0068
Nitrite (NO2 ⁻)	<u>< 0.1</u>	0.0000
Nitrate (NO3 ⁻)	<u>< 0.1</u>	0.0000
Phosphate (PO4 ³⁻)	<u>< 0.5</u>	0.0000
Sulfate (SO4 ²⁻)	<u>62</u>	1.2908

Major Cations

Sodium (Na)	<u>6.2</u>	0.2697
Potassium (K)	<u>0.56</u>	0.0145
Magnesium (Mg)	<u>7.4</u>	0.6087
Calcium (Ca)	<u>66</u>	3.2340

Total epm Cations	<u> </u>	4.14
Total epm Anions	<u> </u>	4.32
% Difference	<u> </u>	-2.08

Approved By:



**NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333**

TRACE METALS FORM

Lab. Number 04-0327 County _____ Township, Range _____
 Collection Date 4/1/04 Collected By T. Newton Section _____
 Well Depth _____ Water Depth _____ Basin _____
 Sample Description PW-45A Rodriguez

Name Peggy Johnson
 Address New Mexico Bureau of Geology
 Address 2 _____
 City, State, Zip code _____
 Phone _____
 FAX _____
 Email _____

Date Received 4/6/04
 Date Completed 4/13/04

CHARGES \$30.00

ANALYSIS	Conc. (ppm)	epm
Aluminum (Al ₂ O ₃)	0.004	0.0004
Antimony (Sb)	< 0.001	
Arsenic (As)	< 0.001	
Barium (Ba)	0.11	
Beryllium (Be)	< 0.001	
Boron (B)	0.009	
Cadmium (Cd)	< 0.001	
Chromium (Cr)	0.004	
Cobalt (Co)	< 0.001	
Copper (Cu)	0.001	
Iron (Fe)	0.13	0.0070
Lead (Pb)	< 0.001	
Lithium (Li)	0.002	
Manganese (Mn)	0.002	0.0001
Mercury (Hg)	< 0.0001	
Molybdenum (Mo)	< 0.001	
Nickel (Ni)	< 0.001	
Selenium (Se)	< 0.001	
Strontium (Sr)	0.34	0.0078
Silica (SiO ₂)	13	
Silicon (Si)	5.9	
Silver (Ag)	< 0.001	
Thalium (Tl)	< 0.001	
Thorium (Th)	< 0.001	
Tin (Sn)	< 0.001	
Titanium (Ti)	< 0.001	
Uranium (U)	0.001	
Vanadium (V)	0.001	
Zinc (Zn)	0.035	0.0011

Approved By: 

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-45A

SLD Number: 200402040

Date/Time Rec'd: 4/1/04 3:35:00 PM

Submitter: 998

User: 64000

Date Collected: 4/1/04

Time Collected: 12:25:00 PM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-45A RODRIGUEZ

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Total Coliform - Membrane Filter - ABSENT

Date Out: 4/2/04

Analyst: cdg CD6

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537

Fax: (505) 841-2543

PW-45A

SLD Number: 200402037

Date/Time Rec'd: 4/1/04 3:35:00 PM

Submitter: 998

User: 64000

Date Collected: 4/1/04

Time Collected: 12:25:00 PM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-45A RODRIGUEZ

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

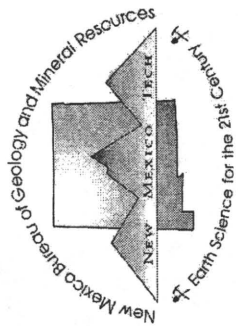
Fecal Coliform - Membrane Filter <

1 /100 mls

Comment: Sample analyzed on 4/1/04 at 4:07pm.

Date Out: 4/2/04

Analyst: cdg CDG



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin _____ Township, Range _____
 Collection Date 3/11/04 11:00 _____ Section _____
 Well Depth _____ Water Depth _____ Lab. number 04-0300
 Sample Description PW-46
 pH 7.48 Conductivity (uS/cm) 427

ANALYSIS	TDS (ppm)		250		427	
	ppm	epm	ppm	epm	ppm	epm
Hardness (CaCO ₃)	193		< 0.001	0.00	Mercury (Hg)	< 0.0001
Carbonate (CO ₃ ²⁻)		0.00	< 0.001		Molybdenum (Mo)	< 0.001
Bicarbonate (HCO ₃ ⁻)	205	3.36	0.13		Nickel (Ni)	< 0.001
Bromide (Br)	< 0.1	0.00	< 0.001		Selenium (Se)	< 0.001
Chloride (Cl)	6.7	0.19	0.013		Strontium (Sr)	0.32
Fluoride (F)	0.2	0.01	< 0.001		Silica (SiO ₂)	23
Nitrate (NO ₃ ⁻)	8.5	0.14	0.003		Silver (Ag)	< 0.001
Phosphate (PO ₄ ³⁻)	< 0.5	0.00	< 0.001		Thorium (Th)	< 0.001
Sulfate (SO ₄ ²⁻)	25	0.52	0.004	0.00	Uranium (U)	0.001
Sodium (Na)	4.7	0.20	< 0.05	0.00	Vanadium (V)	0.004
Potassium (K)	1.2	0.03	< 0.001		Zinc (Zn)	0.007
Magnesium (Mg)	6.3	0.52	0.004			
Calcium (Ca)	67	3.34	< 0.001	0.00		

Name, Address and Phone:
 Peggy Johnson
 New Mexico Bureau of Geology

Total epm Cations 4.10
 Total epm Anions 4.22
 % Difference -1.36

Approved by: *Peggy Johnson*

Charges: \$90.00

Date received: 03/12/04
 Date completed: 03/22/04

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-46

SLD Number: 200401677

Date/Time Rec'd: 3/11/04 2:46:00 PM

Submitter: 998

User: 64000

Date Collected: 3/11/04

Time Collected: 11:00:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-46 VALDEZ

County: SOCORRO

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Total Coliform - Membrane Filter - ABSENT

Date Out: 3/12/04

Analyst: cdg *cdg*

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-46

SLD Number: 200401674

Date/Time Rec'd: 3/11/04 2:46:00 PM

Submitter: 998

User: 64000

Date Collected: 3/11/04

Time Collected: 11:00:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-46 VALDEZ

County: SOCORRO

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

1 /100 mls

Comment: Sample analyzed on 3/11/04 at 4:00pm.

Date Out: 3/12/04

Analyst: cdg CDG

**NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333**

GENERAL CHEMISTRY FORM

Lab. Number 04-0586 County _____ Township, Range _____
 Collection Date 4/28/2004 Collected By T. Newton Section _____
 Well Depth _____ Water Depth _____ Basin _____
 Sample Description PW-48 Tafoya

Name Peggy Johnson
 Address New Mexico Bureau of Geology
 Address 2 _____
 City, State, Zip code _____
 Phone _____
 FAX _____
 Email _____

Date Received 5/3/2004
 Date Completed 5/19/2004

CHARGES \$60.00

pH 7.59

Conductivity (uS/cm) 493

TDS (ppm) (calculation) 306

TDS (ppm) (gravimetric) _____

ANALYSIS	Conc. (ppm)	epm
Hardness (CaCO3)	<u>227</u>	

Alkalinity

Carbonate (CO3 ²⁻)	_____	0.0000
Bicarbonate (HCO3 ⁻)	<u>278</u>	4.5564

Major Anions

Bromide (Br)	<u>< 0.1</u>	0.0000
Chloride (Cl ⁻)	<u>3.1</u>	0.0875
Fluoride (F ⁻)	<u>0.98</u>	0.0516
Nitrite (NO2 ⁻)	<u>< 0.1</u>	0.0000
Nitrate (NO3 ⁻)	<u>2.6</u>	0.0419
Phosphate (PO4 ³⁻)	<u>< 0.5</u>	0.0000
Sulfate (SO4 ²⁻)	<u>19</u>	0.3956

Major Cations

Sodium (Na)	<u>16</u>	0.6960
Potassium (K)	<u>1</u>	0.0259
Magnesium (Mg)	<u>11</u>	0.9049
Calcium (Ca)	<u>74</u>	3.6260

Total epm Cations 5.27

Total epm Anions 5.13

% Difference 1.34

Approved By:



**NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333**

TRACE METALS FORM

Lab. Number 04-0586 County _____ Township, Range _____
 Collection Date 4/28/2004 Collected By T. Newton Section _____
 Well Depth _____ Water Depth _____ Basin _____
 Sample Description PW-48 Tafoya

Name Peggy Johnson
 Address New Mexico Bureau of Geology
 Address 2 _____
 City, State, Zip code _____
 Phone _____
 FAX _____
 Email _____

Date Received 5/3/2004
 Date Completed 5/19/2004

CHARGES \$30.00

ANALYSIS	Conc. (ppm)	epm
Aluminum (Al ₂ O ₃)	0.001	0.0001
Antimony (Sb)	< 0.001	
Arsenic (As)	0.003	
Barium (Ba)	0.11	
Beryllium (Be)	< 0.001	
Boron (B)	0.025	
Cadmium (Cd)	< 0.001	
Chromium (Cr)	0.003	
Cobalt (Co)	< 0.001	
Copper (Cu)	0.002	
Iron (Fe)	< 0.05	0.0000
Lead (Pb)	< 0.001	
Lithium (Li)	0.02	
Manganese (Mn)	0.001	0.0001
Mercury (Hg)	< 0.0001	
Molybdenum (Mo)	< 0.001	
Nickel (Ni)	< 0.001	
Selenium (Se)	< 0.001	
Strontium (Sr)	0.81	0.0185
Silica (SiO ₂)	39	
Silicon (Si)	18	
Silver (Ag)	< 0.001	
Thalium (Tl)	< 0.001	
Thorium (Th)	< 0.001	
Tin (Sn)	< 0.001	
Titanium (Ti)	< 0.001	
Uranium (U)	0.007	
Vanadium (V)	0.01	
Zinc (Zn)	0.024	0.0007

Approved By:



Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

7W-48

SLD Number: 200402651

Date/Time Rec'd: 4/28/04 2:06:00 PM

Submitter: 998

User: 64000

Date Collected: 4/28/04

Time Collected: 11:55:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-48 TAFOYA

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Total Coliform - Membrane Filter - ABSENT

Date Out: 4/30/04

Analyst: cdg **cd6**

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-48

SLD Number: 200402652

Date/Time Rec'd: 4/28/04 2:07:00 PM

Submitter: 998

User: 64000

Date Collected: 4/28/04

Time Collected: 10:00:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-48 TAFOYA

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

1 /100 mls

Comment: Sample analyzed on 4/28/04 at 4:34pm.

Date Out: 4/30/04

Analyst: cdg

CD6

NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333

GENERAL CHEMISTRY FORM

Lab. Number 04-0569 County _____ Township, Range _____
 Collection Date 4/22/2004 Collected By T. Newton Section _____
 Well Depth _____ Water Depth _____ Basin _____
 Sample Description PW-50 Lovato

Name Peggy Johnson
 Address New Mexico Bureau of Geology
 Address 2 _____
 City, State, Zip code _____
 Phone _____
 FAX _____
 Email _____

Date Received 4/23/2004
 Date Completed 5/10/2004

CHARGES \$60.00

pH 7.53

Conductivity (uS/cm) 500

TDS (ppm) (calculation) 298

TDS (ppm) (gravimetric) _____

ANALYSIS	Conc. (ppm)	epm
Hardness (CaCO3)	<u>244</u>	

Alkalinity

Carbonate (CO3 ²⁻)	_____	0.0000
Bicarbonate (HCO3 ⁻)	<u>279</u>	4.5728

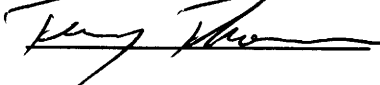
Major Anions

Bromide (Br)	<u>< 0.1</u>	0.0000
Chloride (Cl ⁻)	<u>1.9</u>	0.0536
Fluoride (F ⁻)	<u>0.31</u>	0.0163
Nitrite (NO2 ⁻)	<u>< 0.1</u>	0.0000
Nitrate (NO3 ⁻)	<u>2.1</u>	0.0339
Phosphate (PO4 ³⁻)	<u>< 0.5</u>	0.0000
Sulfate (SO4 ²⁻)	<u>24</u>	0.4997

Major Cations

Sodium (Na)	<u>6.3</u>	0.2741
Potassium (K)	<u>0.44</u>	0.0114
Magnesium (Mg)	<u>11</u>	0.9049
Calcium (Ca)	<u>81</u>	3.9690

Total epm Cations	_____	<u>5.19</u>
Total epm Anions	_____	<u>5.18</u>
% Difference	_____	<u>0.11</u>

Approved By: 

**NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333**

TRACE METALS FORM

Lab. Number 04-0569 County _____ Township, Range _____
 Collection Date 4/22/2004 Collected By T. Newton Section _____
 Well Depth _____ Water Depth _____ Basin _____
 Sample Description PW-50 Lovato

Name Peggy Johnson
 Address New Mexico Bureau of Geology
 Address 2 _____
 City, State, Zip code _____
 Phone _____
 FAX _____
 Email _____

Date Received 4/23/2004
 Date Completed 5/10/2004

CHARGES \$30.00

ANALYSIS	Conc. (ppm)	epm
Aluminum (Al ₂ O ₃)	<u>0.002</u>	0.0002
Antimony (Sb)	<u>< 0.001</u>	
Arsenic (As)	<u>0.004</u>	
Barium (Ba)	<u>0.25</u>	
Beryllium (Be)	<u>< 0.001</u>	
Boron (B)	<u>0.018</u>	
Cadmium (Cd)	<u>< 0.001</u>	
Chromium (Cr)	<u>0.003</u>	
Cobalt (Co)	<u>< 0.001</u>	
Copper (Cu)	<u>0.003</u>	
Iron (Fe)	<u>< 0.05</u>	0.0000
Lead (Pb)	<u>< 0.001</u>	
Lithium (Li)	<u>0.012</u>	
Manganese (Mn)	<u>< 0.001</u>	0.0000
Mercury (Hg)	<u>0.0003</u>	
Molybdenum (Mo)	<u>< 0.001</u>	
Nickel (Ni)	<u>< 0.001</u>	
Selenium (Se)	<u>< 0.001</u>	
Strontium (Sr)	<u>1.2</u>	0.0274
Silica (SiO ₂)	<u>30</u>	
Silicon (Si)	<u>14</u>	
Silver (Ag)	<u>< 0.001</u>	
Thalium (Tl)	<u>< 0.001</u>	
Thorium (Th)	<u>< 0.001</u>	
Tin (Sn)	<u>< 0.001</u>	
Titanium (Ti)	<u>0.002</u>	
Uranium (U)	<u>0.005</u>	
Vanadium (V)	<u>0.007</u>	
Zinc (Zn)	<u>0.017</u>	0.0005

Approved By:



Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537

Fax: (505) 841-2543

PW-50

SLD Number: 200402550

Date/Time Rec'd: 4/22/04 2:56:00 PM

Submitter: 998

User: 64000

Date Collected: 4/22/04

Time Collected: 11:55:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-50 LOVATO

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

1 /100 mls

Comment: Sample analyzed on 4/22/04 at 3:48pm.

Date Out: 4/23/04

Analyst: cdg **CD6**

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-50

SLD Number: 200402553

Date/Time Rec'd: 4/22/04 2:56:00 PM

Submitter: 998

User: 64000

Date Collected: 4/22/04

Time Collected: 11:55:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-50 LOVATO

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

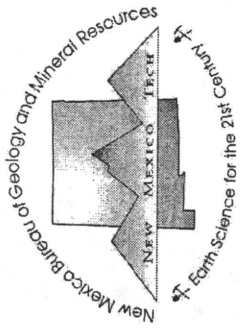
SOCORRO, NM 87801-

Laboratory Results:

Total Coliform - Membrane Filter - ABSENT

Date Out: 4/23/04

Analyst: cdg **CDG**



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin		Township, Range	
Collection Date	<u>2/26/04 9:55</u>	Section	<u>04-0200</u>
Well Depth	<u>Newton</u>	Lab. number	<u>04-0200</u>
Sample Description	<u>PW-51</u>		

ANALYSIS	pH		TDS (ppm)		360		580	
	ppm	epm	ANALYSIS	ppm	epm	ANALYSIS	ppm	epm
Hardness (CaCO ₃)	244		Aluminum (Al ₂ O ₃)	< 0.001	0.00	Mercury (Hg)	< 0.0001	
Carbonate (CO ₃ ²⁻)		0.00	Arsenic (As)	0.011		Molybdenum (Mo)	< 0.001	
Bicarbonate (HCO ₃ ⁻)	311	5.10	Barium (Ba)	0.15		Nickel (Ni)	< 0.001	
Bromide (Br)	< 0.1	0.00	Beryllium (Be)	< 0.001		Selenium (Se)	< 0.001	
Chloride (Cl ⁻)	8.6	0.24	Boron (B)	0.027		Strontium (Sr)	0.82	0.02
Fluoride (F ⁻)	0.59	0.03	Cadmium (Cd)	< 0.001		Silica (SiO ₂)	45	
Nitrate (NO ₃ ⁻)	11	0.18	Chromium (Cr)	0.007		Silver (Ag)	< 0.001	
Phosphate (PO ₄ ³⁻)	< 0.5	0.00	Cobalt (Co)	< 0.001		Thorium (Th)	< 0.001	
Sulfate (SO ₄ ²⁻)	29	0.60	Copper (Cu)	0.002		Uranium (U)	0.012	
Sodium (Na)	20	0.87	Iron (Fe)	< 0.05	0.00	Vanadium (V)	0.011	
Potassium (K)	3.2	0.08	Lead (Pb)	< 0.001		Zinc (Zn)	0.001	0.00
Magnesium (Mg)	12	0.99	Lithium (Li)	0.02				
Calcium (Ca)	78	3.89	Manganese (Mn)	< 0.001	0.00			

Name, Address and Phone:	
Talon Newton	
New Mexico Bureau of Geology	
Total epm Cations	<u>5.85</u>
Total epm Anions	<u>6.15</u>
% Difference	<u>-2.52</u>
Charges:	<u>\$90.00</u>
Approved by: <u>Troy Thorne</u>	
Date received: <u>02/27/04</u>	
Date completed: <u>03/17/04</u>	

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-51

SLD Number: 200401309

Date/Time Rec'd: 2/26/04 2:26:00 PM

Submitter: 998

User: 64000

Date Collected: 2/26/04

Time Collected: 9:55:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-51 LOVATO

County:

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Total Coliform - Membrane Filter - ABSENT

Date Out: 2/27/04

Analyst: cdg

096

Microbiological Water Report

PW-51

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

SLD Number: 200401306

Date/Time Rec'd: 2/26/04 2:25:00 PM

Submitter: 998

User: 64000

Date Collected: 2/26/04

Time Collected: 9:55:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-51 LOVATO

County:

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE
SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

1 /100 mls

Comment: Sample analyzed on 2/26/04 at 3:50pm.

Date Out: 2/27/04

Analyst: cdg
CD 6

**NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333**

GENERAL CHEMISTRY FORM

Lab. Number 04-0590 County _____ Township, Range _____
 Collection Date 5/6/2004 Collected By T. Newton Section _____
 Well Depth _____ Water Depth _____ Basin _____
 Sample Description PW-54 Wagner

Name Peggy Johnson
 Address New Mexico Bureau of Geology
 Address 2 _____
 City, State, Zip code _____
 Phone _____
 FAX _____
 Email _____

Date Received 5/7/2004
 Date Completed 5/20/2004

CHARGES \$60.00

pH 7.49

Conductivity (uS/cm) 642

TDS (ppm) (calculation) 381


TDS (ppm) (gravimetric) _____

ANALYSIS	Conc. (ppm)	epm
Hardness (CaCO3)	<u>249</u>	
Alkalinity		
Carbonate (CO3 ²⁻)		0.0000
Bicarbonate (HCO3 ⁻)	<u>330</u>	5.4087

Major Anions		
Bromide (Br)	<u>0.15</u>	0.0019
Chloride (Cl ⁻)	<u>9.1</u>	0.2567
Fluoride (F ⁻)	<u>0.74</u>	0.0390
Nitrite (NO2 ⁻)	<u>< 0.1</u>	0.0000
Nitrate (NO3 ⁻)	<u>4.6</u>	0.0742
Phosphate (PO4 ³⁻)	<u>< 0.5</u>	0.0000
Sulfate (SO4 ²⁻)	<u>29</u>	0.6038

Major Cations		
Sodium (Na)	<u>33</u>	1.4355
Potassium (K)	<u>2.7</u>	0.0698
Magnesium (Mg)	<u>14</u>	1.1516
Calcium (Ca)	<u>78</u>	3.8220

Total epm Cations 6.53
 Total epm Anions 6.38
% Difference 1.12

Approved By: 

**NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333**

TRACE METALS FORM


Lab. Number 04-0590 County _____ Township, Range _____
 Collection Date 5/6/2004 Collected By T. Newton Section _____
 Well Depth _____ Water Depth _____ Basin _____
 Sample Description PW-54 Wagner

Name Peggy Johnson
 Address New Mexico Bureau of Geology
 Address 2 _____
 City, State, Zip code _____
 Phone _____
 FAX _____
 Email _____

Date Received 5/7/2004
 Date Completed 5/20/2004

CHARGES \$30.00

ANALYSIS	Conc. (ppm)	epm
Aluminum (Al ₂ O ₃)	< 0.001	0.0000
Antimony (Sb)	< 0.001	
Arsenic (As)	0.003	
Barium (Ba)	0.11	
Beryllium (Be)	< 0.001	
Boron (B)	0.038	
Cadmium (Cd)	< 0.001	
Chromium (Cr)	0.004	
Cobalt (Co)	< 0.001	
Copper (Cu)	0.041	
Iron (Fe)	< 0.05	0.0000
Lead (Pb)	< 0.001	
Lithium (Li)	0.025	
Manganese (Mn)	< 0.001	0.0000
Mercury (Hg)	< 0.0001	
Molybdenum (Mo)	0.002	
Nickel (Ni)	< 0.001	
Selenium (Se)	0.001	
Strontium (Sr)	2.2	0.0502
Silica (SiO ₂)	43	
Silicon (Si)	20	
Silver (Ag)	< 0.001	
Thalium (Tl)	< 0.001	
Thorium (Th)	< 0.001	
Tin (Sn)	< 0.001	
Titanium (Ti)	0.006	
Uranium (U)	0.019	
Vanadium (V)	0.007	
Zinc (Zn)	0.004	0.0001

Approved By: 

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-54

SLD Number: 200402868

Date/Time Rec'd: 5/6/04 12:35:00 PM

Submitter: 998

User: 64000

Date Collected: 5/6/04

Time Collected: 8:10:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-54 WAGNER

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

1 /100 mls

Comment: Sample analyzed on 5/6/04 at 4:43pm.

Date Out: 5/7/04

Analyst: cdg **CD6**

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-54

SLD Number: 200402869

Date/Time Rec'd: 5/6/04 12:35:00 PM

Submitter: 998

User: 64000

Date Collected: 5/6/04

Time Collected: 8:15:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-54 WAGNER

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

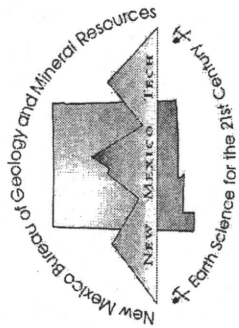
Laboratory Results:

Total Coliform - Membrane Filter - ABSENT

Date Out: 5/10/04

Analyst: cdg

CJG



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin _____ Township, Range _____
 Collection Date 2/26/04 09:30 County _____ Section _____
 Well Depth _____ Collected By Newton Lab. number 04-0201
 Sample Description PW-57 Water Depth _____

pH		TDS (ppm)		320		510	
ANALYSIS	ppm	ANALYSIS	ppm	ANALYSIS	ppm	ANALYSIS	ppm
Hardness (CaCO ₃)	206	Aluminum (Al ₂ O ₃)	< 0.001	Mercury (Hg)	< 0.0001		
Carbonate (CO ₃ ²⁻)	0.00	Arsenic (As)	0.003	Molybdenum (Mo)	< 0.001		
Bicarbonate (HCO ₃ ⁻)	4.75	Barium (Ba)	0.2	Nickel (Ni)	< 0.001		
Bromide (Br)	< 0.1	Beryllium (Be)	< 0.001	Selenium (Se)	< 0.001		
Chloride (Cl ⁻)	3.2	Boron (B)	0.019	Strontium (Sr)	1.1	0.03	
Fluoride (F ⁻)	0.63	Cadmium (Cd)	< 0.001	Silica (SiO ₂)	55		
Nitrate (NO ₃ ⁻)	0.97	Chromium (Cr)	0.001	Silver (Ag)	< 0.001		
Phosphate (PO ₄ ³⁻)	< 0.5	Cobalt (Co)	< 0.001	Thorium (Th)	< 0.001		
Sulfate (SO ₄ ²⁻)	18	Copper (Cu)	0.002	Uranium (U)	0.007		
Sodium (Na)	17	Iron (Fe)	< 0.05	Vanadium (V)	0.005		
Potassium (K)	5.7	Lead (Pb)	< 0.001	Zinc (Zn)	0.007	0.00	
Magnesium (Mg)	13	Lithium (Li)	0.017				
Calcium (Ca)	61	Manganese (Mn)	< 0.001				

Name, Address and Phone:
Talon Newton
New Mexico Bureau of Geology

Total epm Cations 5.02
 Total epm Anions 5.27
 % Difference -2.36

Charges: \$90.00

Approved by: *Tony*

Date received: 02/27/04
 Date completed: 03/17/04

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-57

SLD Number: 200401310

Date/Time Rec'd: 2/26/04 2:26:00 PM

Submitter: 998

User: 64000

Date Collected: 2/26/04

Time Collected: 9:25:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-57 ROYBAL

County:

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Total Coliform - Membrane Filter - ABSENT

Date Out: 2/27/04

Analyst: cdg

CD6

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-57

SLD Number: 200401307

Date/Time Rec'd: 2/26/04 2:25:00 PM

Submitter: 998

User: 64000

Date Collected: 2/26/04

Time Collected: 9:25:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-57 ROYBAL

County:

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE
SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

1 /100 mls

Comment: Sample analyzed on 2/26/04 at 3:54pm.

Date Out: 2/27/04

Analyst: cdg

cdg

NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333

GENERAL CHEMISTRY FORM

Lab. Number 04-0585 County _____ Township, Range _____
 Collection Date 4/29/2004 Collected By T. Newton Section _____
 Well Depth _____ Water Depth _____ Basin _____
 Sample Description PW-60 Romero

Name Peggy Johnson
 Address New Mexico Bureau of Geology
 Address 2 _____
 City, State, Zip code _____
 Phone _____
 FAX _____
 Email _____

Date Received 5/3/2004
 Date Completed 5/19/2004

CHARGES \$60.00

pH 7.5

Conductivity (uS/cm) 550

TDS (ppm) (calculation) 344

TDS (ppm) (gravimetric) _____

ANALYSIS	Conc. (ppm)	epm
Hardness (CaCO3)	<u>244</u>	

Alkalinity

Carbonate (CO3 ²⁻)		0.0000
Bicarbonate (HCO3 ⁻)	<u>306</u>	5.0153

Major Anions

Bromide (Br)	<u>< 0.1</u>	0.0000
Chloride (Cl ⁻)	<u>4.7</u>	0.1326
Fluoride (F ⁻)	<u>0.45</u>	0.0237
Nitrite (NO2 ⁻)	<u>< 0.1</u>	0.0000
Nitrate (NO3 ⁻)	<u>5.2</u>	0.0839
Phosphate (PO4 ³⁻)	<u>< 0.5</u>	0.0000
Sulfate (SO4 ²⁻)	<u>25</u>	0.5205

Major Cations

Sodium (Na)	<u>24</u>	1.0440
Potassium (K)	<u>1.9</u>	0.0492
Magnesium (Mg)	<u>14</u>	1.1516
Calcium (Ca)	<u>76</u>	3.7240

Total epm Cations		<u>6.00</u>
Total epm Anions		<u>5.78</u>
% Difference		<u>1.93</u>

Approved By:



**NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333**

TRACE METALS FORM

Lab. Number 04-0585 County _____ Township, Range _____
 Collection Date 4/29/2004 Collected By T. Newton Section _____
 Well Depth _____ Water Depth _____ Basin _____
 Sample Description PW-60 Romero

Name Peggy Johnson
 Address New Mexico Bureau of Geology
 Address 2 _____
 City, State, Zip code _____
 Phone _____
 FAX _____
 Email _____

Date Received 5/3/2004
 Date Completed 5/19/2004

CHARGES \$30.00

ANALYSIS	Conc. (ppm)	epm
Aluminum (Al ₂ O ₃)	< 0.001	0.0000
Antimony (Sb)	< 0.001	
Arsenic (As)	0.002	
Barium (Ba)	0.15	
Beryllium (Be)	< 0.001	
Boron (B)	0.027	
Cadmium (Cd)	< 0.001	
Chromium (Cr)	0.003	
Cobalt (Co)	< 0.001	
Copper (Cu)	0.001	
Iron (Fe)	< 0.05	0.0000
Lead (Pb)	< 0.001	
Lithium (Li)	0.017	
Manganese (Mn)	< 0.001	0.0000
Mercury (Hg)	< 0.0001	
Molybdenum (Mo)	< 0.001	
Nickel (Ni)	< 0.001	
Selenium (Se)	< 0.001	
Strontium (Sr)	1.5	0.0342
Silica (SiO ₂)	39	
Silicon (Si)	18	
Silver (Ag)	< 0.001	
Thalium (Tl)	< 0.001	
Thorium (Th)	< 0.001	
Tin (Sn)	< 0.001	
Titanium (Ti)	0.002	
Uranium (U)	0.01	
Vanadium (V)	0.007	
Zinc (Zn)	0.013	0.0004

Approved By: 

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537

Fax: (505) 841-2543

PW-60

SLD Number: 200402695

Date/Time Rec'd: 4/29/04 3:02:00 PM

Submitter: 998

User: 64000

Date Collected: 4/29/04

Time Collected: 10:40:00 AM

Disinfected:

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-60 ROMERO

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

1 /100 mls

Comment: Sample analyzed on 4/29/04 at 3:50pm.

Date Out: 4/30/04

Analyst: cdg

cdg

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-60

SLD Number: 200402697

Date/Time Rec'd: 4/29/04 3:02:00 PM

Submitter: 998

User: 64000

Date Collected: 4/29/04

Time Collected: 10:40:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-60 ROMERO

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

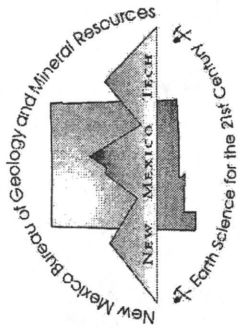
Laboratory Results:

Total Coliform - Membrane Filter - ABSENT

Date Out: 4/30/04

Analyst: cdg

26



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin _____ Township, Range _____
 Collection Date 3/10/04 10:25 County _____ Section _____
 Well Depth _____ Water Depth _____ Lab. number 04-0302
 Sample Description PW-66-64 Conductivity (uS/cm) 462
 pH 7.54

ANALYSIS		ppm	epm	ANALYSIS		ppm	epm
Hardness (CaCO ₃)		195		Aluminum (Al ₂ O ₃)		< 0.001	0.00
Carbonate (CO ₃ ²⁻)			0.00	Arsenic (As)		< 0.001	
Bicarbonate (HCO ₃ ⁻)		255	4.18	Barium (Ba)		0.22	
Bromide (Br)		< 0.1	0.00	Beryllium (Be)		< 0.001	
Chloride (Cl ⁻)		4.9	0.14	Boron (B)		0.015	
Fluoride (F ⁻)		0.21	0.01	Cadmium (Cd)		< 0.001	
Nitrate (NO ₃ ⁻)		3.7	0.06	Chromium (Cr)		0.004	
Phosphate (PO ₄ ³⁻)		< 0.5	0.00	Cobalt (Co)		< 0.001	
Sulfate (SO ₄ ²⁻)		16	0.33	Copper (Cu)		0.003	0.00
Sodium (Na)		9.6	0.42	Iron (Fe)		< 0.05	0.00
Potassium (K)		3.3	0.08	Lead (Pb)		< 0.001	
Magnesium (Mg)		6.2	0.51	Lithium (Li)		0.007	
Calcium (Ca)		68	3.39	Manganese (Mn)		< 0.001	0.00
				ANALYSIS			
				Mercury (Hg)		< 0.0001	
				Molybdenum (Mo)		< 0.001	
				Nickel (Ni)		< 0.001	
				Selenium (Se)		< 0.001	
				Strontium (Sr)		0.37	0.01
				Silica (SiO ₂)		47	
				Silver (Ag)		< 0.001	
				Thorium (Th)		< 0.001	
				Uranium (U)		0.004	
				Vanadium (V)		0.004	
				Zinc (Zn)		0.086	0.00

Name, Address and Phone:
 Peggy Johnson
 New Mexico Bureau of Geology

Total epm Cations 4.42
 Total epm Anions 4.72
 % Difference -3.34

Approved by: *Peggy Johnson*

Charges: _____

\$90.00

Date received: 03/12/04

Date completed: 03/22/04

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-64

SLD Number: 200401640

Date/Time Rec'd: 3/10/04 2:56:00 PM

Submitter: 998

User: 64000

Date Collected: 3/10/04

Time Collected: 10:25:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-64 GONZALES

County:

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Total Coliform - Membrane Filter - ABSENT

Date Out: 3/11/04

Analyst: cdg

CDG

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-64

SLD Number: 200401636

Date/Time Rec'd: 3/10/04 2:55:00 PM

Submitter: 998

User: 64000

Date Collected: 3/10/04

Time Collected: 10:25:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-64 GONZALES

County:

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

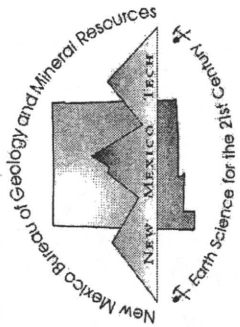
Fecal Coliform - Membrane Filter <

1 /100 mls

Comment: Sample analyzed on 3/10/04 at 4:01pm.

Date Out: 3/11/04

Analyst: cdg CDB



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin _____ Township, Range _____
 Collection Date 3/18/04 10:00 County Newton Section _____
 Well Depth _____ Water Depth _____ Lab. number 04-0319

ANALYSIS	pH		TDS (ppm)		Conductivity (uS/cm)			
	ppm	epm	ANALYSIS	ppm	epm	ANALYSIS	ppm	epm
Hardness (CaCO ₃)	289		Aluminum (Al ₂ O ₃)	0.003	0.00	Mercury (Hg)	< 0.0001	
Carbonate (CO ₃ ²⁻)		0.00	Arsenic (As)	< 0.001		Molybdenum (Mo)	< 0.001	
Bicarbonate (HCO ₃ ⁻)	365	5.98	Barium (Ba)	0.14		Nickel (Ni)	0.001	
Bromide (Br)	< 0.1	0.00	Beryllium (Be)	< 0.001		Selenium (Se)	< 0.001	
Chloride (Cl)	6.1	0.17	Boron (B)	0.014		Strontium (Sr)	0.5	0.01
Fluoride (F)	0.14	0.01	Cadmium (Cd)	< 0.001		Silica (SiO ₂)	29	
Nitrate (NO ₃ ⁻)	0.36	0.01	Chromium (Cr)	0.005		Silver (Ag)	< 0.001	
Phosphate (PO ₄ ³⁻)	< 0.5	0.00	Cobalt (Co)	< 0.001		Thorium (Th)	< 0.001	
Sulfate (SO ₄ ²⁻)	24	0.50	Copper (Cu)	0.14		Uranium (U)	0.007	
Sodium (Na)	8.3	0.36	Iron (Fe)	0.43	0.02	Vanadium (V)	0.002	
Potassium (K)	2.7	0.07	Lead (Pb)	0.006		Zinc (Zn)	0.071	0.00
Magnesium (Mg)	12	0.99	Lithium (Li)	0.002				
Calcium (Ca)	96	4.79	Manganese (Mn)	0.49	0.04			

Name, Address and Phone:
 Peggy Johnson
 New Mexico Bureau of Geology

Total epm Cations 6.28
 Total epm Anions 6.67
 % Difference -2.99

Approved by: 

Charges: \$90.00
 Date received: 03/19/04
 Date completed: 03/24/04

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-65

SLD Number: 200401845

Date/Time Rec'd: 3/18/04 2:47:00 PM

Submitter: 998

User: 64000

Date Collected: 3/18/04

Time Collected: 10:00:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-65 SANDOVAL

County:

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Total Coliform - Membrane Filter - ABSENT

Date Out: 3/22/04

Analyst: cdg

06

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-65

SLD Number: 200401840

Date/Time Rec'd: 3/18/04 2:47:00 PM

Submitter: 998

User: 64000

Date Collected: 3/18/04

Time Collected: 10:00:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-65 SANDOVAL

County:

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

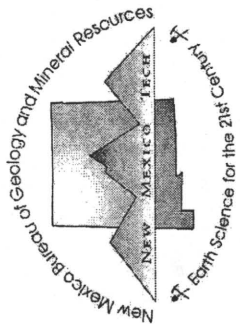
Fecal Coliform - Membrane Filter <

1 /100 mls

Comment: Sample analyzed on 3/18/04 at 4:12pm.

Date Out: 3/19/04

Analyst: cdg *CDG*



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin _____ Township, Range _____
 Collection Date 3/11/04 09:36 _____ Section _____
 Well Depth _____ Water Depth _____ Lab. number 04-0301
 Sample Description PW-66 _____

ANALYSIS		ppm	epm	TDS (ppm)		340	Conductivity (uS/cm)		573
ANALYSIS	ppm	epm	ANALYSIS	ppm	epm	ANALYSIS	ppm	epm	
Hardness (CaCO ₃)	266		Aluminum (Al ₂ O ₃)	0.02	0.00	Mercury (Hg)	< 0.0001		
Carbonate (CO ₃ ²⁻)		0.00	Arsenic (As)	0.008		Molybdenum (Mo)	< 0.001		
Bicarbonate (HCO ₃ ⁻)	325	5.33	Barium (Ba)	0.11		Nickel (Ni)	< 0.001		
Bromide (Br)	< 0.1	0.00	Beryllium (Be)	< 0.001		Selenium (Se)	< 0.001		
Chloride (Cl)	4.8	0.14	Boron (B)	0.025		Strontium (Sr)	0.57	0.01	
Fluoride (F)	0.34	0.02	Cadmium (Cd)	< 0.001		Silica (SiO ₂)	39		
Nitrate (NO ₃ ⁻)	2	0.03	Chromium (Cr)	0.005		Silver (Ag)	< 0.001		
Phosphate (PO ₄ ³⁻)	< 0.5	0.00	Cobalt (Co)	< 0.001		Thorium (Th)	< 0.001		
Sulfate (SO ₄ ²⁻)	25	0.52	Copper (Cu)	0.012	0.00	Uranium (U)	0.002		
Sodium (Na)	6	0.26	Iron (Fe)	< 0.05	0.00	Vanadium (V)	0.015		
Potassium (K)	1.8	0.05	Lead (Pb)	0.003		Zinc (Zn)	0.027	0.00	
Magnesium (Mg)	9.5	0.78	Lithium (Li)	0.017					
Calcium (Ca)	91	4.54	Manganese (Mn)	0.002	0.00				

Name, Address and Phone:
 Peggy Johnson
 New Mexico Bureau of Geology

Total epm Cations 5.65
 Total epm Anions 6.03
 % Difference -3.32

Approved by: *Peggy Johnson*

Charges: \$90.00

Date received: 03/12/04
 Date completed: 03/22/04

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-66

SLD Number: 200401675

Date/Time Rec'd: 3/11/04 2:46:00 PM

Submitter: 998

User: 64000

Date Collected: 3/11/04

Time Collected: 9:36:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-66 MEDINA

County: SOCORRO

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

1 /100 mls

Comment: Sample analyzed on 3/11/04 at 4:06pm.

Date Out: 3/12/04

Analyst: cdg **cdg**

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-66

SLD Number: 200401678

Date/Time Rec'd: 3/11/04 2:46:00 PM

Submitter: 998

User: 64000

Date Collected: 3/11/04

Time Collected: 9:36:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-66 MEDINA

County: SOCORRO

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

TNTC Noncoliforms-Resample & Request MMO-MUG Test

Date Out: 3/15/04

Analyst: cdg *cdg*

NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
 NEW MEXICO TECH
 801 LEROY PLACE, SOCORRO, NM 87801
 PH: 505-835-5416 FAX: 505-835-6333

GENERAL CHEMISTRY FORM

Lab. Number 04-0330 County _____ Township, Range _____
 Collection Date 4/1/04 Collected By T. Newton Section _____
 Well Depth _____ Water Depth _____ Basin _____
 Sample Description PW-67 Montoya

Name Peggy Johnson
 Address New Mexico Bureau of Geology
 Address 2 _____
 City, State, Zip code _____
 Phone _____
 FAX _____
 Email _____

Date Received 4/6/04
 Date Completed 4/13/04

CHARGES \$60.00

pH 7.35

Conductivity (uS/cm) 497

TDS (ppm) (calculation) 259

TDS (ppm) (gravimetric) _____

ANALYSIS	Conc. (ppm)	epm
Hardness (CaCO3)	<u>223</u>	

Alkalinity

Carbonate (CO3 ²⁻)	_____	0.0000
Bicarbonate (HCO3 ⁻)	<u>247</u>	4.0483

Major Anions

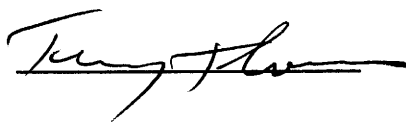
Bromide (Br)	<u>< 0.1</u>	0.0000
Chloride (Cl ⁻)	<u>7.7</u>	0.2172
Fluoride (F ⁻)	<u>0.19</u>	0.0100
Nitrite (NO2 ⁻)	<u>< 0.1</u>	0.0000
Nitrate (NO3 ⁻)	<u>6.5</u>	0.1048
Phosphate (PO4 ³⁻)	<u>< 0.5</u>	0.0000
Sulfate (SO4 ²⁻)	<u>28</u>	0.5830

Major Cations

Sodium (Na)	<u>7.1</u>	0.3089
Potassium (K)	<u>0.34</u>	0.0088
Magnesium (Mg)	<u>7.6</u>	0.6252
Calcium (Ca)	<u>78</u>	3.8220

Total epm Cations	_____	<u>4.77</u>
Total epm Anions	_____	<u>4.96</u>
% Difference	_____	<u>-1.96</u>

Approved By:



**NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333**

TRACE METALS FORM

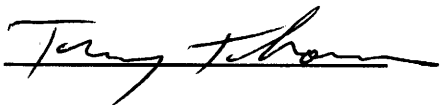
Lab. Number 04-0330 County _____ Township, Range _____
 Collection Date 4/1/2004 Collected By T. Newton Section _____
 Well Depth _____ Water Depth _____ Basin _____
 Sample Description PW-67 Montoya

Name Peggy Johnson
 Address New Mexico Bureau of Geology
 Address 2 _____
 City, State, Zip code _____
 Phone _____
 FAX _____
 Email _____

Date Received 4/6/2004
 Date Completed 4/13/2004

CHARGES \$30.00

ANALYSIS	Conc. (ppm)	epm
Aluminum (Al ₂ O ₃)	0.001	0.0001
Antimony (Sb)	< 0.001	
Arsenic (As)	< 0.001	
Barium (Ba)	0.2	
Beryllium (Be)	< 0.001	
Boron (B)	0.017	
Cadmium (Cd)	< 0.001	
Chromium (Cr)	0.003	
Cobalt (Co)	< 0.001	
Copper (Cu)	0.084	
Iron (Fe)	< 0.05	0.0000
Lead (Pb)	< 0.001	
Lithium (Li)	0.006	
Manganese (Mn)	< 0.001	0.0000
Mercury (Hg)	< 0.0001	
Molybdenum (Mo)	< 0.001	
Nickel (Ni)	< 0.001	
Selenium (Se)	< 0.001	
Strontium (Sr)	0.33	0.0075
Silica (SiO ₂)	21	
Silicon (Si)	9.8	
Silver (Ag)	< 0.001	
Thalium (Tl)	< 0.001	
Thorium (Th)	< 0.001	
Tin (Sn)	< 0.001	
Titanium (Ti)	< 0.001	
Uranium (U)	0.002	
Vanadium (V)	0.003	
Zinc (Zn)	0.009	0.0003

Approved By: 

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-67

SLD Number: 200402038

Date/Time Rec'd: 4/1/04 3:35:00 PM

Submitter: 998

User: 64000

Date Collected: 4/1/04

Time Collected: 9:30:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-67 MONTOYA

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Total Coliform - Membrane Filter - ABSENT

Date Out: 4/2/04

Analyst: cdg *cdg*

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-67

SLD Number: 200402035

Date/Time Rec'd: 4/1/04 3:35:00 PM

Submitter: 998

User: 64000

Date Collected: 4/1/04

Time Collected: 9:30:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-67 MONTOYA

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

1 /100 mls

Comment: Sample analyzed on 4/1/04 at 3:58pm.

Date Out: 4/2/04

Analyst: cdg CDG

**NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333**

GENERAL CHEMISTRY FORM

Lab. Number 04-0329 County _____ Township, Range _____
 Collection Date 3/31/04 Collected By T. Newton Section _____
 Well Depth _____ Water Depth _____ Basin _____
 Sample Description PW-69 Stanley

Name Peggy Johnson
 Address New Mexico Bureau of Geology
 Address 2 _____
 City, State, Zip code _____
 Phone _____
 FAX _____
 Email _____

Date Received 4/6/04
 Date Completed 4/13/04

CHARGES \$60.00

pH 7.84

Conductivity (uS/cm) 410

TDS (ppm) (calculation) 231

TDS (ppm) (gravimetric) _____

ANALYSIS	Conc. (ppm)	epm
Hardness (CaCO3)	<u>81</u>	

Alkalinity

Carbonate (CO3 ²⁻)	_____	0.0000
Bicarbonate (HCO3 ⁻)	<u>156</u>	2.5568

Major Anions

Bromide (Br)	<u>0.13</u>	0.0016
Chloride (Cl ⁻)	<u>9.8</u>	0.2765
Fluoride (F ⁻)	<u>10</u>	0.5264
Nitrite (NO2 ⁻)	<u>< 0.1</u>	0.0000
Nitrate (NO3 ⁻)	<u>2.3</u>	0.0371
Phosphate (PO4 ³⁻)	<u>< 0.5</u>	0.0000
Sulfate (SO4 ²⁻)	<u>39</u>	0.8120

Major Cations

Sodium (Na)	<u>58</u>	2.5230
Potassium (K)	<u>2.9</u>	0.0750
Magnesium (Mg)	<u>4.1</u>	0.3373
Calcium (Ca)	<u>26</u>	1.2740

Total epm Cations	_____	4.22
Total epm Anions	_____	4.21
% Difference	_____	0.16

Approved By: _____

Tony Th...

**NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333**

TRACE METALS FORM

Lab. Number 04-0329 County _____ Township, Range _____
 Collection Date 3/31/2004 Collected By T. Newton Section _____
 Well Depth _____ Water Depth _____ Basin _____
 Sample Description PW-69 Stanley

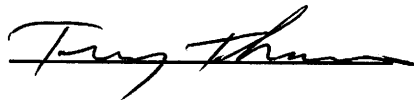
Name Peggy Johnson
 Address New Mexico Bureau of Geology
 Address 2 _____
 City, State, Zip code _____
 Phone _____
 FAX _____
 Email _____

Date Received 4/6/2004
 Date Completed 4/13/2004

CHARGES \$30.00

ANALYSIS	Conc. (ppm)	eppm
Aluminum (Al ₂ O ₃)	0.001	0.0001
Antimony (Sb)	< 0.001	
Arsenic (As)	0.008	
Barium (Ba)	0.006	
Beryllium (Be)	< 0.001	
Boron (B)	0.16	
Cadmium (Cd)	< 0.001	
Chromium (Cr)	0.002	
Cobalt (Co)	< 0.001	
Copper (Cu)	0.019	
Iron (Fe)	< 0.05	0.0000
Lead (Pb)	0.002	
Lithium (Li)	0.026	
Manganese (Mn)	< 0.001	0.0000
Mercury (Hg)	0.0001	
Molybdenum (Mo)	0.011	
Nickel (Ni)	< 0.001	
Selenium (Se)	< 0.001	
Strontium (Sr)	0.54	0.0123
Silica (SiO ₂)	21	
Silicon (Si)	9.7	
Silver (Ag)	< 0.001	
Thalium (Tl)	< 0.001	
Thorium (Th)	< 0.001	
Tin (Sn)	< 0.001	
Titanium (Ti)	< 0.001	
Uranium (U)	0.012	
Vanadium (V)	0.001	
Zinc (Zn)	0.076	0.0023

Approved By:



Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-69

SLD Number: 200402036

Date/Time Rec'd: 4/1/04 3:35:00 PM

Submitter: 998

User: 64000

Date Collected: 4/1/04

Time Collected: 10:05:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-69 STANLEY

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

1 /100 mls

Comment: Sample analyzed on 4/1/04 at 4:03pm.

Date Out: 4/2/04

Analyst: cdg CDG

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537

Fax: (505) 841-2543

PW-69

SLD Number: 200402039

Date/Time Rec'd: 4/1/04 3:35:00 PM

Submitter: 998

User: 64000

Date Collected: 4/1/04

Time Collected: 10:05:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-69 STANLEY

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

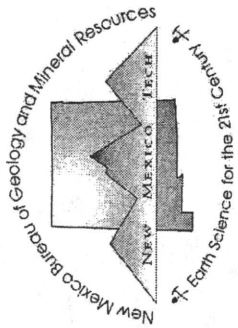
SOCORRO, NM 87801-

Laboratory Results:

Confluent Growth Noncoliforms-Resample/Request MMO

Date Out: 4/5/04

Analyst: mlm



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin _____ Township, Range _____
 Collection Date 2/25/04 09:00 County _____ Section _____
 Well Depth _____ Water Depth _____ Lab. number 04-0202
 Sample Description PW-71

ANALYSIS	pH		TDS (ppm)		230		400	
	ppm	epm	ANALYSIS	ppm	epm	ANALYSIS	ppm	epm
Hardness (CaCO ₃)	181		Aluminum (Al ₂ O ₃)	< 0.001	0.00	Mercury (Hg)	< 0.0001	
Carbonate (CO ₃ ²⁻)		0.00	Arsenic (As)	< 0.001		Molybdenum (Mo)	< 0.001	
Bicarbonate (HCO ₃ ⁻)	203	3.33	Barium (Ba)	0.14		Nickel (Ni)	< 0.001	
Bromide (Br)	< 0.1	0.00	Beryllium (Be)	< 0.001		Selenium (Se)	< 0.001	
Chloride (Cl)	4.7	0.13	Boron (B)	0.007		Strontium (Sr)	0.28	0.01
Fluoride (F)	0.11	0.01	Cadmium (Cd)	< 0.001		Silica (SiO ₂)	12	
Nitrate (NO ₃ ⁻)	0.71	0.01	Chromium (Cr)	< 0.001		Silver (Ag)	< 0.001	
Phosphate (PO ₄ ³⁻)	< 0.5	0.00	Cobalt (Co)	< 0.001		Thorium (Th)	< 0.001	
Sulfate (SO ₄ ²⁻)	33	0.69	Copper (Cu)	0.11	0.01	Uranium (U)	0.002	
Sodium (Na)	7.9	0.34	Iron (Fe)	0.18	0.01	Vanadium (V)	< 0.001	0.00
Potassium (K)	0.62	0.02	Lead (Pb)	0.005		Zinc (Zn)	0.15	
Magnesium (Mg)	6.4	0.53	Lithium (Li)	0.003				
Calcium (Ca)	62	3.09	Manganese (Mn)	0.003	0.00			

Name, Address and Phone:
Talon Newton
New Mexico Bureau of Geology

Total epm Cations 4.00
 Total epm Anions 4.16
 % Difference -2.00

Approved by: Tony Thomas

Charges: \$90.00

Date received: 02/27/04
 Date completed: 03/17/04

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-71

SLD Number: 200401262

Date/Time Rec'd: 2/25/04 12:31:00 PM

Submitter: 998

User: 64000

Date Collected: 2/25/04

Time Collected: 9:00:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-71 TRUJILLO

County: SOCORRO

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Total Coliform - Membrane Filter - ABSENT

Date Out: 2/26/04

Analyst: cdg CD6

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537

Fax: (505) 841-2543

PW-71

SLD Number: 200401265

Date/Time Rec'd: 2/25/04 12:31:00 PM

Submitter: 998

User: 64000

Date Collected: 2/25/04

Time Collected: 9:00:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Private Well

Collected By: TALON NEWTON

Sample Location: PW-71 TRUJILLO

County: SOCORRO

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

1 /100 mls

Comment: Sample analyzed on 2/25/04 at 2:39pm.

Date Out: 2/26/04

Analyst: cdg CD6

NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333

PS-76

GENERAL CHEMISTRY FORM

Lab. Number 04-0587 County _____ Township, Range _____
 Collection Date 5/5/2004 Collected By T. Newton Section _____
 Well Depth _____ Water Depth _____ Basin _____
 Sample Description PW-76 Suncomer

Name Peggy Johnson
 Address New Mexico Bureau of Geology
 Address 2 _____
 City, State, Zip code _____
 Phone _____
 FAX _____
 Email _____

Date Received 5/7/2004
 Date Completed 5/20/2004

CHARGES \$60.00

pH 7.99

Conductivity (uS/cm) 526

TDS (ppm) (calculation) 292

TDS (ppm) (gravimetric) _____

ANALYSIS	Conc. (ppm)	epm
Hardness (CaCO3)	<u>220</u>	

Alkalinity

Carbonate (CO3 ²⁻)	_____	0.0000
Bicarbonate (HCO3 ⁻)	<u>281</u>	4.6056

Major Anions

Bromide (Br)	<u>< 0.1</u>	0.0000
Chloride (Cl ⁻)	<u>12</u>	0.3385
Fluoride (F ⁻)	<u>0.36</u>	0.0190
Nitrite (NO2 ⁻)	<u>< 0.1</u>	0.0000
Nitrate (NO3 ⁻)	<u>< 0.1</u>	0.0000
Phosphate (PO4 ³⁻)	<u>< 0.5</u>	0.0000
Sulfate (SO4 ²⁻)	<u>9.1</u>	0.1895

Major Cations

Sodium (Na)	<u>17</u>	0.7395
Potassium (K)	<u>1.4</u>	0.0362
Magnesium (Mg)	<u>8.8</u>	0.7239
Calcium (Ca)	<u>75</u>	3.6750

Total epm Cations	_____	<u>5.37</u>
Total epm Anions	_____	<u>5.15</u>
% Difference	_____	<u>2.07</u>

Approved By:



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333

TRACE METALS FORM

Lab. Number 04-0587 County _____ Township, Range _____
Collection Date 5/5/2004 Collected By T. Newton Section _____
Well Depth _____ Water Depth _____ Basin _____
Sample Description PW-76 Suncorner

Name Peggy Johnson
Address New Mexico Bureau of Geology
Address 2 _____
City, State, Zip code _____
Phone _____
FAX _____
Email _____

Date Received 5/7/2004
Date Completed 5/20/2204

CHARGES \$30.00

ANALYSIS	Conc. (ppm)	epm
Aluminum (Al ₂ O ₃)	<u>0.66</u>	0.0734
Antimony (Sb)	<u>< 0.001</u>	
Arsenic (As)	<u>0.001</u>	
Barium (Ba)	<u>0.32</u>	
Beryllium (Be)	<u>< 0.001</u>	
Boron (B)	<u>0.022</u>	
Cadmium (Cd)	<u>< 0.001</u>	
Chromium (Cr)	<u>0.004</u>	
Cobalt (Co)	<u>< 0.001</u>	
Copper (Cu)	<u>0.003</u>	
Iron (Fe)	<u>1.3</u>	0.0698
Lead (Pb)	<u>0.001</u>	
Lithium (Li)	<u>0.019</u>	
Manganese (Mn)	<u>0.34</u>	0.0248
Mercury (Hg)	<u>0.0002</u>	
Molybdenum (Mo)	<u>< 0.001</u>	
Nickel (Ni)	<u>0.002</u>	
Selenium (Se)	<u>< 0.001</u>	
Strontium (Sr)	<u>1.2</u>	0.0274
Silica (SiO ₂)	<u>25</u>	
Silicon (Si)	<u>11.6</u>	
Silver (Ag)	<u>< 0.001</u>	
Thalium (Tl)	<u>< 0.001</u>	
Thorium (Th)	<u>< 0.001</u>	
Tin (Sn)	<u>< 0.001</u>	
Titanium (Ti)	<u>0.077</u>	
Uranium (U)	<u>0.002</u>	
Vanadium (V)	<u>0.003</u>	
Zinc (Zn)	<u>0.004</u>	0.0001

Approved By: 

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-76

SLD Number: 200402846

Date/Time Rec'd: 5/5/04 3:04:00 PM

Submitter: 998

User: 64000

Date Collected: 5/5/04

Time Collected: 11:30:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Other: SPRING

Collected By: TALON NEWTON

Sample Location: PW-76 SUNCORNER SPRINGS

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

1 /100 mls

Comment: Sample analyzed on 5/5/04 at 4:28pm.

Date Out: 5/7/04

Analyst: cdg

CDG

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537

Fax: (505) 841-2543

SLD Number: 200402848

Date/Time Rec'd: 5/5/04 3:05:00 PM

Submitter: 998

User: 64000

Date Collected: 5/5/04

Time Collected: 11:30:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Other: SPRING

Collected By: TALON NEWTON

Sample Location: PW-76 SUNCORNER SPRINGS

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Total Coliform - Membrane Filter + PRESENT

Fecal Coliforms - ABSENT

Comment: Confluent growth

Date Out: 5/7/04

Analyst: cdg **CD6**

PS-77

NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333

GENERAL CHEMISTRY FORM

Lab. Number 04-0570 County _____ Township, Range _____
 Collection Date 4/22/2004 Collected By T. Newton Section _____
 Well Depth _____ Water Depth _____ Basin _____
 Sample Description PW-77 Spring

Name Peggy Johnson
 Address New Mexico Bureau of Geology
 Address 2 _____
 City, State, Zip code _____
 Phone _____
 FAX _____
 Email _____

Date Received 4/23/2004
 Date Completed 5/10/2004

CHARGES \$60.00

pH 8.2

Conductivity (uS/cm) 517

TDS (ppm) (calculation) 329

TDS (ppm) (gravimetric) _____

ANALYSIS	Conc. (ppm)	epm
Hardness (CaCO3)	<u>247</u>	

Alkalinity

Carbonate (CO3 ²⁻)		0.0000
Bicarbonate (HCO3 ⁻)	<u>303</u>	4.9662

Major Anions

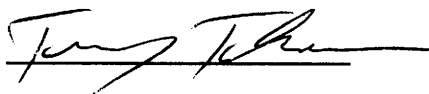
Bromide (Br)	<u>< 0.1</u>	0.0000
Chloride (Cl ⁻)	<u>2.7</u>	0.0762
Fluoride (F ⁻)	<u>0.19</u>	0.0100
Nitrite (NO2 ⁻)	<u>< 0.1</u>	0.0000
Nitrate (NO3 ⁻)	<u>1.8</u>	0.0290
Phosphate (PO4 ³⁻)	<u>< 0.5</u>	0.0000
Sulfate (SO4 ²⁻)	<u>15</u>	0.3123

Major Cations

Sodium (Na)	<u>11</u>	0.4785
Potassium (K)	<u>2.8</u>	0.0724
Magnesium (Mg)	<u>7.5</u>	0.6170
Calcium (Ca)	<u>88</u>	4.3120

Total epm Cations	<u>5.56</u>
Total epm Anions	<u>5.39</u>
% Difference	<u>1.54</u>

Approved By: _____



**NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333**

TRACE METALS FORM

Lab. Number 04-0570 County _____ Township, Range _____
 Collection Date 4/22/2004 Collected By T. Newton Section _____
 Well Depth _____ Water Depth _____ Basin _____
 Sample Description PW-77 Spring

Name Peggy Johnson
 Address New Mexico Bureau of Geology
 Address 2 _____
 City, State, Zip code _____
 Phone _____
 FAX _____
 Email _____

Date Received 4/23/2004
 Date Completed 5/10/2004

CHARGES \$30.00

ANALYSIS	Conc. (ppm)	epm
Aluminum (Al ₂ O ₃)	0.2	0.0222
Antimony (Sb)	< 0.001	
Arsenic (As)	0.001	
Barium (Ba)	0.35	
Beryllium (Be)	< 0.001	
Boron (B)	0.014	
Cadmium (Cd)	< 0.001	
Chromium (Cr)	0.003	
Cobalt (Co)	< 0.001	
Copper (Cu)	< 0.001	
Iron (Fe)	0.52	0.0279
Lead (Pb)	0.001	
Lithium (Li)	0.008	
Manganese (Mn)	0.17	0.0124
Mercury (Hg)	0.0001	
Molybdenum (Mo)	< 0.001	
Nickel (Ni)	< 0.001	
Selenium (Se)	< 0.001	
Strontium (Sr)	0.88	0.0201
Silica (SiO ₂)	47	
Silicon (Si)	22	
Silver (Ag)	< 0.001	
Thalium (Tl)	< 0.001	
Thorium (Th)	< 0.001	
Tin (Sn)	< 0.001	
Titanium (Ti)	0.041	
Uranium (U)	0.006	
Vanadium (V)	0.006	
Zinc (Zn)	0.001	0.0000

Approved By:



Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537

Fax: (505) 841-2543

PW-77

SLD Number: 200402551

Date/Time Rec'd: 4/22/04 2:56:00 PM

Submitter: 998

User: 64000

Date Collected: 4/22/04

Time Collected: 10:10:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Other: SPRING

Collected By: TALON NEWTON

Sample Location: PW-77 SPRING

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

1 /100 mls

Comment: Sample analyzed on 4/22/04 at 3:54pm.

Date Out: 4/22/04

Analyst: cdg **CD6**

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-77

SLD Number: 200402552

Date/Time Rec'd: 4/22/04 2:56:00 PM

Submitter: 998

User: 64000

Date Collected: 4/22/04

Time Collected: 10:10:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Other: SPRING

Collected By: TALON NEWTON

Sample Location: PW-77 SPRING

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Total Coliform - Membrane Filter + **PRESENT**

Fecal Coliforms - **ABSENT**

Date Out: 4/26/04

Analyst: cdg

CD6

NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333

PS-81

GENERAL CHEMISTRY FORM

Lab. Number 04-0589 County Township, Range
Collection Date 5/5/2004 Collected By T. Newton Section
Well Depth Water Depth Basin
Sample Description PW-81 Aspen Springs

Name Peggy Johnson
Address New Mexico Bureau of Geology
Address 2
City, State, Zip code
Phone
FAX
Email

Date Received 5/7/2004
Date Completed 5/20/2004

CHARGES \$60.00

pH 8.08

Conductivity (uS/cm) 355

TDS (ppm) (calculation) 202

TDS (ppm) (gravimetric)

ANALYSIS	Conc. (ppm)	e pm
Hardness (CaCO3)	<u>117</u>	
Alkalinity		
Carbonate (CO32-)	<u> </u>	0.0000
Bicarbonate (HCO3-)	<u>182</u>	2.9830

Major Anions		
Bromide (Br)	<u>0.11</u>	0.0014
Chloride (Cl-)	<u>7.4</u>	0.2088
Fluoride (F-)	<u>0.31</u>	0.0163
Nitrite (NO2-)	<u>< 0.1</u>	0.0000
Nitrate (NO3-)	<u>0.14</u>	0.0023
Phosphate (PO43-)	<u>< 0.5</u>	0.0000
Sulfate (SO42-)	<u>10</u>	0.2082

Major Cations		
Sodium (Na)	<u>27</u>	1.1745
Potassium (K)	<u>1.3</u>	0.0336
Magnesium (Mg)	<u>5.7</u>	0.4689
Calcium (Ca)	<u>38</u>	1.8620

Total e pm Cations 3.58
Total e pm Anions 3.42
% Difference 2.34

Approved By: 

**NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 LEROY PLACE, SOCORRO, NM 87801
PH: 505-835-5416 FAX: 505-835-6333**

TRACE METALS FORM

Lab. Number 04-0589 County _____ Township, Range _____
 Collection Date 5/5/2004 Collected By T. Newton Section _____
 Well Depth _____ Water Depth _____ Basin _____
 Sample Description PW-81 Aspen Springs

Name Peggy Johnson
 Address New Mexico Bureau of Geology
 Address 2 _____
 City, State, Zip code _____
 Phone _____
 FAX _____
 Email _____

Date Received 5/7/2004
 Date Completed 5/20/2004

CHARGES \$30.00

ANALYSIS	Conc. (ppm)	epm
Aluminum (Al ₂ O ₃)	0.17	0.0189
Antimony (Sb)	< 0.001	
Arsenic (As)	0.002	
Barium (Ba)	0.28	
Beryllium (Be)	< 0.001	
Boron (B)	0.013	
Cadmium (Cd)	< 0.001	
Chromium (Cr)	0.002	
Cobalt (Co)	< 0.001	
Copper (Cu)	0.002	
Iron (Fe)	0.27	0.0145
Lead (Pb)	< 0.001	
Lithium (Li)	0.015	
Manganese (Mn)	0.016	0.0012
Mercury (Hg)	< 0.0001	
Molybdenum (Mo)	0.006	
Nickel (Ni)	< 0.001	
Selenium (Se)	< 0.001	
Strontium (Sr)	0.45	0.0103
Silica (SiO ₂)	21	
Silicon (Si)	9.7	
Silver (Ag)	< 0.001	
Thalium (Tl)	< 0.001	
Thorium (Th)	< 0.001	
Tin (Sn)	< 0.001	
Titanium (Ti)	0.058	
Uranium (U)	0.027	
Vanadium (V)	0.001	
Zinc (Zn)	0.002	0.0001

Approved By: 

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-81

SLD Number: 200402849

Date/Time Rec'd: 5/5/04 3:05:00 PM

Submitter: 998

User: 64000

Date Collected: 5/5/04

Time Collected: 9:40:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Total Coliform - Membrane Filter

Other Analysis:

Type of System: Other: SPRING

Collected By: TALON NEWTON

Sample Location: PW-81 ASPEN SPRINGS

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Total Coliform - Membrane Filter + PRESENT

Fecal Coliforms - ABSENT

Comment: Confluent growth

Date Out: 5/7/04

Analyst: cdg **CD6**

Microbiological Water Report

DEPARTMENT OF HEALTH
STATE OF NEW MEXICO
Scientific Laboratory Division
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Section: (505) 841-2537
Fax: (505) 841-2543

PW-81

SLD Number: 200402847

Date/Time Rec'd: 5/5/04 3:05:00 PM

Submitter: 998

User: 64000

Date Collected: 5/5/04

Time Collected: 9:40:00 AM

Disinfected: N

Residual:

Reason for Sampling: Special Sample

Analysis Requested: Fecal Coliform - Membrane Filter

Other Analysis:

Type of System: Other: SPRING

Collected By: TALON NEWTON

Sample Location: PW-81 ASPEN SPRING

County: TAOS

WSS Code: 0

Client

Attention: PEGGY JOHNSON
NEW MEXICO BUREAU OF GEOLOGY
801 LEROY PLACE

SOCORRO, NM 87801-

Laboratory Results:

Fecal Coliform - Membrane Filter <

1 /100 mls

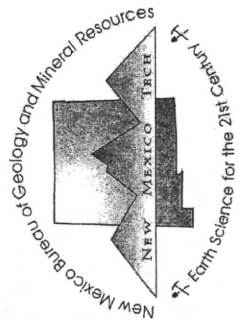
Comment: Sample analyzed on 5/5/04 at 4:33pm.

Date Out: 5/7/04

Analyst: cdg

CDG

PS-93



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
 NEW MEXICO TECH
 801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin _____ Township, Range _____
 Collection Date _____ Section _____
 Well Depth _____ Water Depth _____ Lab. number 03-1764
 County _____

Sample Description PW-93
 pH 7.47 Conductivity (uS/cm) 388

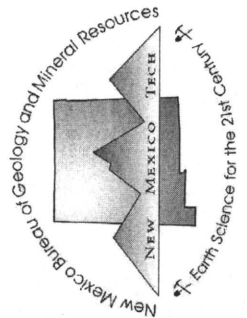
ANALYSIS	ppm	epm	TDS (ppm)	ppm	epm	ANALYSIS	ppm	epm
Hardness (CaCO ₃)	230		Aluminum (Al ₂ O ₃)	0.003	0.00	Mercury (Hg)	< 0.0001	
Carbonate (CO ₃ ²⁻)			Arsenic (As)	< 0.001		Molybdenum (Mo)	< 0.001	
Bicarbonate (HCO ₃ ⁻)	247	4.05	Barium (Ba)	0.19		Nickel (Ni)	< 0.001	
Bromide (Br)	< 0.1	0.00	Beryllium (Be)	< 0.001		Selenium (Se)	< 0.001	
Chloride (Cl)	4.4	0.12	Boron (B)	0.015		Strontium (Sr)	0.37	0.01
Fluoride (F)	0.25	0.01	Cadmium (Cd)	< 0.001		Silica (SiO ₂)	20	
Nitrate (NO ₃ ⁻)	1.9	0.03	Chromium (Cr)	< 0.001		Silver (Ag)	< 0.001	
Phosphate (PO ₄ ³⁻)	< 0.5	0.00	Cobalt (Co)	< 0.001		Thorium (Th)	< 0.001	
Sulfate (SO ₄ ²⁻)	31	0.65	Copper (Cu)	0.018	0.01	Uranium (U)	0.001	
Sodium (Na)	6.5	0.28	Iron (Fe)	0.11	0.01	Vanadium (V)	0.004	
Potassium (K)	1.7	0.04	Lead (Pb)	< 0.001		Zinc (Zn)	0.17	0.01
Magnesium (Mg)	6.7	0.55	Lithium (Li)	0.006				
Calcium (Ca)	81	4.04	Manganese (Mn)	< 0.001	0.00			

Name, Address and Phone: _____
 Patty Jackson _____
 Approved by: *Synn Brandwood*

Total epm Cations 4.94
 Total epm Anions 4.86
 % Difference 0.79

Charges: \$35.00
 Date received: 12/19/03
 Date completed: 12/24/03

psw-1



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
 NEW MEXICO TECH
 801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin _____ Township, Range _____
 Collection Date _____ Section _____
 Well Depth _____ Lab. number 03-1754
 Sample Description Chamisal Crak
 pH 7.71 Conductivity (uS/cm) 461

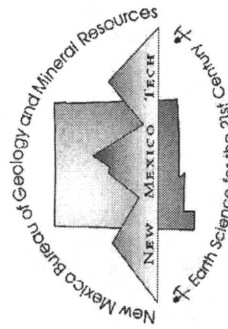
ANALYSIS		ppm	epm	TDS (ppm)		340	Conductivity (uS/cm)		461
ANALYSIS		ppm	epm	ANALYSIS		ppm	ANALYSIS		ppm
Hardness (CaCO ₃)		278		Aluminum (Al ₂ O ₃)		0.005	Mercury (Hg)		< 0.0001
Carbonate (CO ₃ ²⁻)				Arsenic (As)		0.001	Molybdenum (Mo)		< 0.001
Bicarbonate (HCO ₃ ⁻)		326	5.34	Barium (Ba)		0.26	Nickel (Ni)		< 0.001
Bromide (Br)		< 0.1	0.00	Beryllium (Be)		< 0.001	Selenium (Se)		< 0.001
Chloride (Cl)		5.8	0.16	Boron (B)		0.027	Strontium (Sr)		0.49
Fluoride (F)		0.37	0.02	Cadmium (Cd)		< 0.001	Silica (SiO ₂)		31
Nitrate (NO ₃ ⁻)		1.2	0.02	Chromium (Cr)		< 0.001	Silver (Ag)		< 0.001
Phosphate (PO ₄ ³⁻)		< 0.5	0.00	Cobalt (Co)		< 0.001	Thorium (Th)		< 0.001
Sulfate (SO ₄ ²⁻)		23	0.48	Copper (Cu)		< 0.001	Uranium (U)		0.005
Sodium (Na)		12	0.52	Iron (Fe)		< 0.05	Vanadium (V)		0.003
Potassium (K)		1.4	0.04	Lead (Pb)		< 0.001	Zinc (Zn)		< 0.001
Magnesium (Mg)		10	0.82	Lithium (Li)		0.01			
Calcium (Ca)		95	4.74	Manganese (Mn)		0.007			

Name, Address and Phone:
 Patty Jackson

Total epm Cations 6.13
 Total epm Anions 6.02
 % Difference 0.89

Charges: \$35.00

Approved by: *Sym Brundwald*
 Date received: 12/11/03
 Date completed: 12/24/03



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH

PSW2

801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin	County	Township, Range
Collection Date	Collected By	Section
Well Depth	Water Depth	Lab. number
Sample Description	Chiquito	04-0067

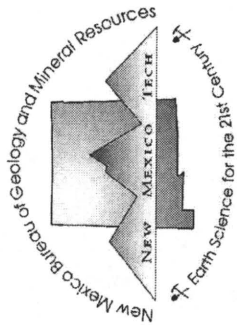
ANALYSIS	pH		TDS (ppm)		190		262	
	ppm	epm	ANALYSIS	ppm	epm	ANALYSIS	ppm	epm
Hardness (CaCO ₃)	146		Aluminum (Al ₂ O ₃)	0.043	0.00	Mercury (Hg)	< 0.0001	
Carbonate (CO ₃ ²⁻)		0.00	Arsenic (As)	< 0.001		Molybdenum (Mo)	< 0.001	
Bicarbonate (HCO ₃ ⁻)	166	2.72	Barium (Ba)	0.11		Nickel (Ni)	< 0.001	
Bromide (Br)	< 0.1	0.00	Beryllium (Be)	< 0.001		Selenium (Se)	< 0.001	
Chloride (Cl)	3.3	0.09	Boron (B)	0.005		Strontium (Sr)	0.23	0.01
Fluoride (F)	0.19	0.01	Cadmium (Cd)	< 0.001		Silica (SiO ₂)	11	
Nitrate (NO ₃ ⁻)	0.6	0.01	Chromium (Cr)	0.002		Silver (Ag)	< 0.001	
Phosphate (PO ₄ ³⁻)	< 0.5	0.00	Cobalt (Co)	< 0.001		Thorium (Th)	< 0.001	
Sulfate (SO ₄ ²⁻)	27	0.56	Copper (Cu)	< 0.001		Uranium (U)	0.001	
Sodium (Na)	6.3	0.27	Iron (Fe)	0.051	0.00	Vanadium (V)	0.001	
Potassium (K)	0.78	0.02	Lead (Pb)	< 0.001		Zinc (Zn)	0.091	0.00
Magnesium (Mg)	5.8	0.48	Lithium (Li)	0.004		Titanium (Ti)	0.002	
Calcium (Ca)	49	2.45	Manganese (Mn)	0.018	0.00			

Name, Address and Phone:
Peggy Johnson
New Mexico Bureau of Geology

Total epm Cations 3.23
Total epm Anions 3.40
% Difference -2.45

Approved by: *Peggy Johnson*

Charges: \$90.00
Date received: 02/13/04
Date completed: 03/17/04



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 Leroy Place, Socorro, NM 87801

PSW-3

REPORT OF WATER ANALYSES

Basin _____ Township, Range _____
 Collection Date _____ Section _____
 Well Depth _____ Water Depth _____ Lab. number 04-0062
 Sample Description Embuda

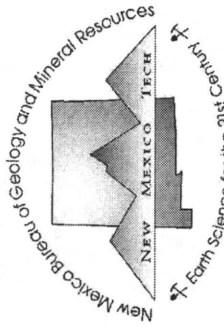
pH		7.78		TDS (ppm)		200		Conductivity (uS/cm)		269	
ANALYSIS		ppm	epm	ANALYSIS		ppm	epm	ANALYSIS		ppm	epm
Hardness (CaCO ₃)		156		Aluminum (Al ₂ O ₃)		0.042	0.00	Mercury (Hg)		< 0.0001	
Carbonate (CO ₃ ²⁻)			0.00	Arsenic (As)		< 0.001		Molybdenum (Mo)		< 0.001	
Bicarbonate (HCO ₃ ⁻)		167	2.74	Barium (Ba)		0.081		Nickel (Ni)		< 0.001	
Bromide (Br)		< 0.1	0.00	Beryllium (Be)		< 0.001		Selenium (Se)		< 0.001	
Chloride (Cl ⁻)		4.4	0.12	Boron (B)		0.006		Strontium (Sr)		0.3	0.01
Fluoride (F ⁻)		0.15	0.01	Cadmium (Cd)		< 0.001		Silica (SiO ₂)		12	
Nitrate (NO ₃ ⁻)		0.17	0.00	Chromium (Cr)		0.002		Silver (Ag)		< 0.001	
Phosphate (PO ₄ ³⁻)		< 0.5	0.00	Cobalt (Co)		< 0.001		Thorium (Th)		< 0.001	
Sulfate (SO ₄ ²⁻)		30	0.62	Copper (Cu)		< 0.001		Uranium (U)		0.002	
Sodium (Na)		5.8	0.25	Iron (Fe)		0.05	0.00	Vanadium (V)		0.001	
Potassium (K)		0.93	0.02	Lead (Pb)		< 0.001		Zinc (Zn)		< 0.001	0.00
Magnesium (Mg)		6.4	0.53	Lithium (Li)		0.003		Titanium (Ti)		0.002	
Calcium (Ca)		52	2.59	Manganese (Mn)		0.014	0.00				

Name, Address and Phone:
 Peggy Johnson
 New Mexico Bureau of Geology

Total epm Cations 3.41
 Total epm Anions 3.50
 % Difference -1.21

Approved by: *Peggy Johnson*

Charges: \$90.00
 Date received: 02/13/04
 Date completed: 03/17/04



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH

P SW-4

801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin _____ Township, Range _____
 Collection Date _____ Section _____
 Well Depth _____ Lab. number 04-0060
 Sample Description _____
 RPasp _____

pH		TDS (ppm)		Conductivity (uS/cm)	
ANALYSIS	ppm	ANALYSIS	ppm	ANALYSIS	ppm
Hardness (CaCO ₃)	177	Aluminum (Al ₂ O ₃)	0.03	Mercury (Hg)	< 0.0001
Carbonate (CO ₃ ²⁻)	0.00	Arsenic (As)	< 0.001	Molybdenum (Mo)	< 0.001
Bicarbonate (HCO ₃ ⁻)	3.23	Barium (Ba)	0.069	Nickel (Ni)	< 0.001
Bromide (Br)	< 0.1	Beryllium (Be)	< 0.001	Selenium (Se)	< 0.001
Chloride (Cl ⁻)	5.2	Boron (B)	0.006	Strontium (Sr)	0.41
Fluoride (F ⁻)	0.17	Cadmium (Cd)	< 0.001	Silica (SiO ₂)	13
Nitrate (NO ₃ ⁻)	0.36	Chromium (Cr)	0.002	Silver (Ag)	< 0.001
Phosphate (PO ₄ ³⁻)	< 0.5	Cobalt (Co)	< 0.001	Thorium (Th)	< 0.001
Sulfate (SO ₄ ²⁻)	34	Copper (Cu)	< 0.001	Uranium (U)	0.002
Sodium (Na)	6	Iron (Fe)	< 0.05	Vanadium (V)	0.001
Potassium (K)	0.86	Lead (Pb)	< 0.001	Zinc (Zn)	< 0.001
Magnesium (Mg)	7.7	Lithium (Li)	0.004	Titanium (Ti)	0.002
Calcium (Ca)	58	Manganese (Mn)	0.007		

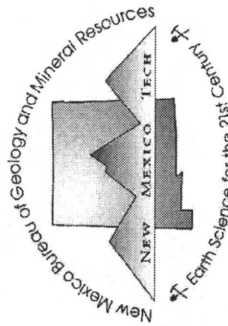
Name, Address and Phone: _____
 Peggy Johnson _____
 New Mexico Bureau of Geology _____

Total epm Cations 3.82
 Total epm Anions 4.10
 % Difference -3.46

Charges: \$90.00

Approved by: *T. Johnson*

Date received: 02/13/04
 Date completed: 03/17/04



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 Leroy Place, Socorro, NM 87801

PSW-5

REPORT OF WATER ANALYSES

Basin _____ County _____ Township, Range _____
 Collection Date _____ Collected By _____ Section _____
 Well Depth _____ Water Depth _____ Lab. number 04-0066
 Sample Description Rio Pueblo above Telephone cyn
 pH 7.59 TDS (ppm) 190 Conductivity (uS/cm) 278

ANALYSIS	ppm	epm	ANALYSIS	ppm	epm	ANALYSIS	ppm	epm
Hardness (CaCO ₃)	158		Aluminum (Al ₂ O ₃)	0.014	0.00	Mercury (Hg)	< 0.0001	
Carbonate (CO ₃ ²⁻)		0.00	Arsenic (As)	< 0.001		Molybdenum (Mo)	< 0.001	
Bicarbonate (HCO ₃ ⁻)	163	2.67	Barium (Ba)	0.048		Nickel (Ni)	< 0.001	
Bromide (Br)	< 0.1	0.00	Beryllium (Be)	< 0.001		Selenium (Se)	< 0.001	
Chloride (Cl)	4.8	0.14	Boron (B)	0.004		Strontium (Sr)	0.36	0.01
Fluoride (F)	0.14	0.01	Cadmium (Cd)	< 0.001		Silica (SiO ₂)	7.3	
Nitrate (NO ₃ ⁻)	0.19	0.00	Chromium (Cr)	0.001		Silver (Ag)	< 0.001	
Phosphate (PO ₄ ³⁻)	< 0.5	0.00	Cobalt (Co)	< 0.001		Thorium (Th)	< 0.001	
Sulfate (SO ₄ ²⁻)	35	0.73	Copper (Cu)	< 0.001		Uranium (U)	0.002	
Sodium (Na)	4.8	0.21	Iron (Fe)	< 0.05	0.00	Vanadium (V)	< 0.001	
Potassium (K)	0.59	0.02	Lead (Pb)	< 0.001		Zinc (Zn)	0.002	0.00
Magnesium (Mg)	6.8	0.56	Lithium (Li)	0.002		Titanium (Ti)	< 0.001	
Calcium (Ca)	52	2.59	Manganese (Mn)	0.017	0.00			

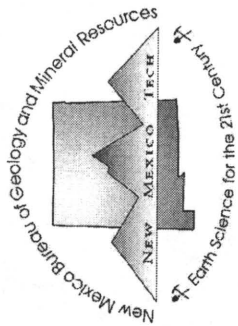
Name, Address and Phone:
 Peggy Johnson
 New Mexico Bureau of Geology

Total epm Cations 3.39
 Total epm Anions 3.55
 % Difference -2.26

Approved by: *Peggy Johnson*

Charges: \$90.00
 Date received: 02/13/04
 Date completed: 03/17/04

PSW-6



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
 NEW MEXICO TECH
 801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin _____ Township, Range _____
 Collection Date _____ Section _____
 Well Depth _____ Lab. number 04-0063
 Sample Description RPaE
 pH 7.37

ANALYSIS		TDS (ppm)		Conductivity (uS/cm)	
ppm	epm	ANALYSIS	ppm	epm	ANALYSIS
Hardness (CaCO ₃)	161	Aluminum (Al ₂ O ₃)	0.094	0.01	Mercury (Hg)
Carbonate (CO ₃ ²⁻)	0.00	Arsenic (As)	< 0.001		Molybdenum (Mo)
Bicarbonate (HCO ₃ ⁻)	2.75	Barium (Ba)	0.066		Nickel (Ni)
Bromide (Br)	< 0.1	Beryllium (Be)	< 0.001		Selenium (Se)
Chloride (Cl)	5.5	Boron (B)	0.006		Strontium (Sr)
Fluoride (F)	0.16	Cadmium (Cd)	< 0.001		Silica (SiO ₂)
Nitrate (NO ₃ ⁻)	0.25	Chromium (Cr)	0.002		Silver (Ag)
Phosphate (PO ₄ ³⁻)	< 0.5	Cobalt (Co)	< 0.001		Thorium (Th)
Sulfate (SO ₄ ²⁻)	31	Copper (Cu)	< 0.001		Uranium (U)
Sodium (Na)	5.8	Iron (Fe)	0.094	0.01	Vanadium (V)
Potassium (K)	0.86	Lead (Pb)	< 0.001		Zinc (Zn)
Magnesium (Mg)	7	Lithium (Li)	0.003		Titanium (Ti)
Calcium (Ca)	53	Manganese (Mn)	0.02	0.00	

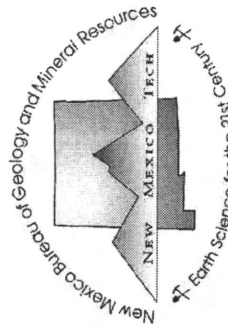
Name, Address and Phone:
 Peggy Johnson
 New Mexico Bureau of Geology

Total epm Cations 3.52
 Total epm Anions 3.57
 % Difference -0.65

Approved by: *[Signature]*

Charges: \$90.00
 Date received: 02/13/04
 Date completed: 03/17/04

psw-7



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
 NEW MEXICO TECH
 801 Leroy Place, Socorro, NM 87801

REPORT OF WATER ANALYSES

Basin _____ Township, Range _____
 Collection Date _____ Section _____
 Well Depth _____ Water Depth _____ Lab. number 04-0061
 Sample Description RPbsp

pH		TDS (ppm)		220		296	
ANALYSIS	ppm	ANALYSIS	ppm	ANALYSIS	ppm	ANALYSIS	ppm
Hardness (CaCO ₃)	174	Aluminum (Al ₂ O ₃)	0.036	Mercury (Hg)	< 0.0001	Molybdenum (Mo)	< 0.001
Carbonate (CO ₃ ²⁻)	0.00	Arsenic (As)	< 0.001	Barium (Ba)	0.071	Nickel (Ni)	< 0.001
Bicarbonate (HCO ₃ ⁻)	3.16	Beryllium (Be)	< 0.001	Boron (B)	0.007	Selenium (Se)	< 0.001
Bromide (Br)	< 0.1	Cadmium (Cd)	< 0.001	Cobalt (Co)	< 0.001	Strontium (Sr)	0.4
Chloride (Cl ⁻)	5.3	Chromium (Cr)	0.002	Copper (Cu)	< 0.001	Silica (SiO ₂)	13
Fluoride (F ⁻)	0.19	Cobalt (Co)	< 0.001	Iron (Fe)	0.066	Silver (Ag)	< 0.001
Nitrate (NO ₃ ⁻)	0.4	Copper (Cu)	< 0.001	Lead (Pb)	< 0.001	Thorium (Th)	< 0.001
Phosphate (PO ₄ ³⁻)	< 0.5	Iron (Fe)	0.066	Lithium (Li)	0.003	Uranium (U)	0.002
Sulfate (SO ₄ ²⁻)	33	Lead (Pb)	< 0.001	Manganese (Mn)	0.014	Vanadium (V)	0.001
Sodium (Na)	6	Lithium (Li)	0.003			Zinc (Zn)	0.32
Potassium (K)	0.97	Manganese (Mn)	0.014			Titanium (Ti)	0.002
Magnesium (Mg)	7.6						
Calcium (Ca)	57						

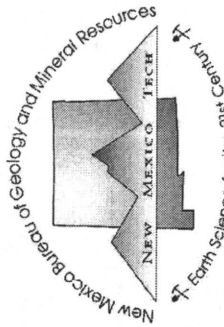
Name, Address and Phone:
 Peggy Johnson
 New Mexico Bureau of Geology

Total epm Cations 3.78
 Total epm Anions 4.02
 % Difference -2.99

Charges: \$90.00

Approved by: *Tony Johnson*

Date received: 02/13/04
 Date completed: 03/17/04



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH

801 Leroy Place, Socorro, NM 87801

pswb

REPORT OF WATER ANALYSES

Basin		Township, Range	
Collection Date		Section	
Well Depth		Lab. number	04-0064
Sample Description	SBaE		

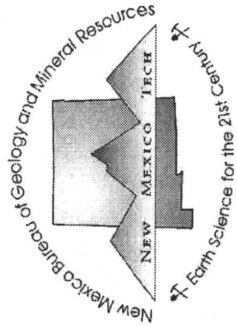
ANALYSIS	pH		TDS (ppm)		190		260	
	ppm	epm	ANALYSIS	ppm	epm	ANALYSIS	ppm	epm
Hardness (CaCO ₃)	154		Aluminum (Al ₂ O ₃)	0.022	0.00	Mercury (Hg)	< 0.0001	
Carbonate (CO ₃ ²⁻)		0.00	Arsenic (As)	< 0.001		Molybdenum (Mo)	< 0.001	
Bicarbonate (HCO ₃ ⁻)	166	2.72	Barium (Ba)	0.094		Nickel (Ni)	< 0.001	
Bromide (Br)	< 0.1	0.00	Beryllium (Be)	< 0.001		Selenium (Se)	< 0.001	
Chloride (Cl ⁻)	4.2	0.12	Boron (B)	0.005		Strontium (Sr)	0.24	0.01
Fluoride (F ⁻)	0.21	0.01	Cadmium (Cd)	< 0.001		Silica (SiO ₂)	11	
Nitrate (NO ₃ ⁻)	0.2	0.00	Chromium (Cr)	0.002		Silver (Ag)	< 0.001	
Phosphate (PO ₄ ³⁻)	< 0.5	0.00	Cobalt (Co)	< 0.001		Thorium (Th)	< 0.001	
Sulfate (SO ₄ ²⁻)	30	0.62	Copper (Cu)	< 0.001		Uranium (U)	0.001	
Sodium (Na)	5.5	0.24	Iron (Fe)	< 0.05	0.00	Vanadium (V)	0.001	
Potassium (K)	0.95	0.02	Lead (Pb)	< 0.001		Zinc (Zn)	< 0.001	0.00
Magnesium (Mg)	5.8	0.48	Lithium (Li)	0.003		Titanium (Ti)	0.001	
Calcium (Ca)	52	2.59	Manganese (Mn)	0.013	0.00			

Name, Address and Phone:
Peggy Johnson
New Mexico Bureau of Geology

Total epm Cations 3.34
Total epm Anions 3.48
% Difference -1.96

Approved by: *Peggy Johnson*

Charges: \$90.00 Date received: 02/13/04
Date completed: 03/17/04



NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES
NEW MEXICO TECH
801 Leroy Place, Socorro, NM 87801

PSW-9

REPORT OF WATER ANALYSES

Basin _____ Township, Range _____
 Collection Date _____ Section _____
 Well Depth _____ Water Depth _____
 Sample Description SBaC _____ Lab. number 04-0065
 pH 7.54 TDS (ppm) 170 Conductivity (uS/cm) 237

ANALYSIS		ppm	epm	ANALYSIS		ppm	epm	
Hardness (CaCO ₃)		132		Aluminum (Al ₂ O ₃)	0.002	0.00	Mercury (Hg)	< 0.0001
Carbonate (CO ₃ ²⁻)			0.00	Arsenic (As)	< 0.001		Molybdenum (Mo)	< 0.001
Bicarbonate (HCO ₃ ⁻)		127	2.08	Barium (Ba)	0.053		Nickel (Ni)	< 0.001
Bromide (Br)		< 0.1	0.00	Beryllium (Be)	< 0.001		Selenium (Se)	< 0.001
Chloride (Cl)		3.9	0.11	Boron (B)	0.003		Strontium (Sr)	0.2
Fluoride (F)		0.14	0.01	Cadmium (Cd)	< 0.001		Silica (SiO ₂)	6.6
Nitrate (NO ₃ ⁻)		0.16	0.00	Chromium (Cr)	0.001		Silver (Ag)	< 0.001
Phosphate (PO ₄ ³⁻)		< 0.5	0.00	Cobalt (Co)	< 0.001		Thorium (Th)	< 0.001
Sulfate (SO ₄ ²⁻)		37	0.77	Copper (Cu)	< 0.001		Uranium (U)	< 0.001
Sodium (Na)		3.7	0.16	Iron (Fe)	< 0.05	0.00	Vanadium (V)	< 0.001
Potassium (K)		0.79	0.02	Lead (Pb)	< 0.001		Zinc (Zn)	< 0.001
Magnesium (Mg)		4.8	0.39	Lithium (Li)	0.001		Titanium (Ti)	< 0.001
Calcium (Ca)		45	2.25	Manganese (Mn)	0.004	0.00		

Name, Address and Phone:
 Peggy Johnson
 New Mexico Bureau of Geology

Total epm Cations 2.83
 Total epm Anions 2.97
 % Difference -2.51

Approved by: *Peggy Johnson*

Charges: \$90.00
 Date received: 02/13/04
 Date completed: 03/17/04