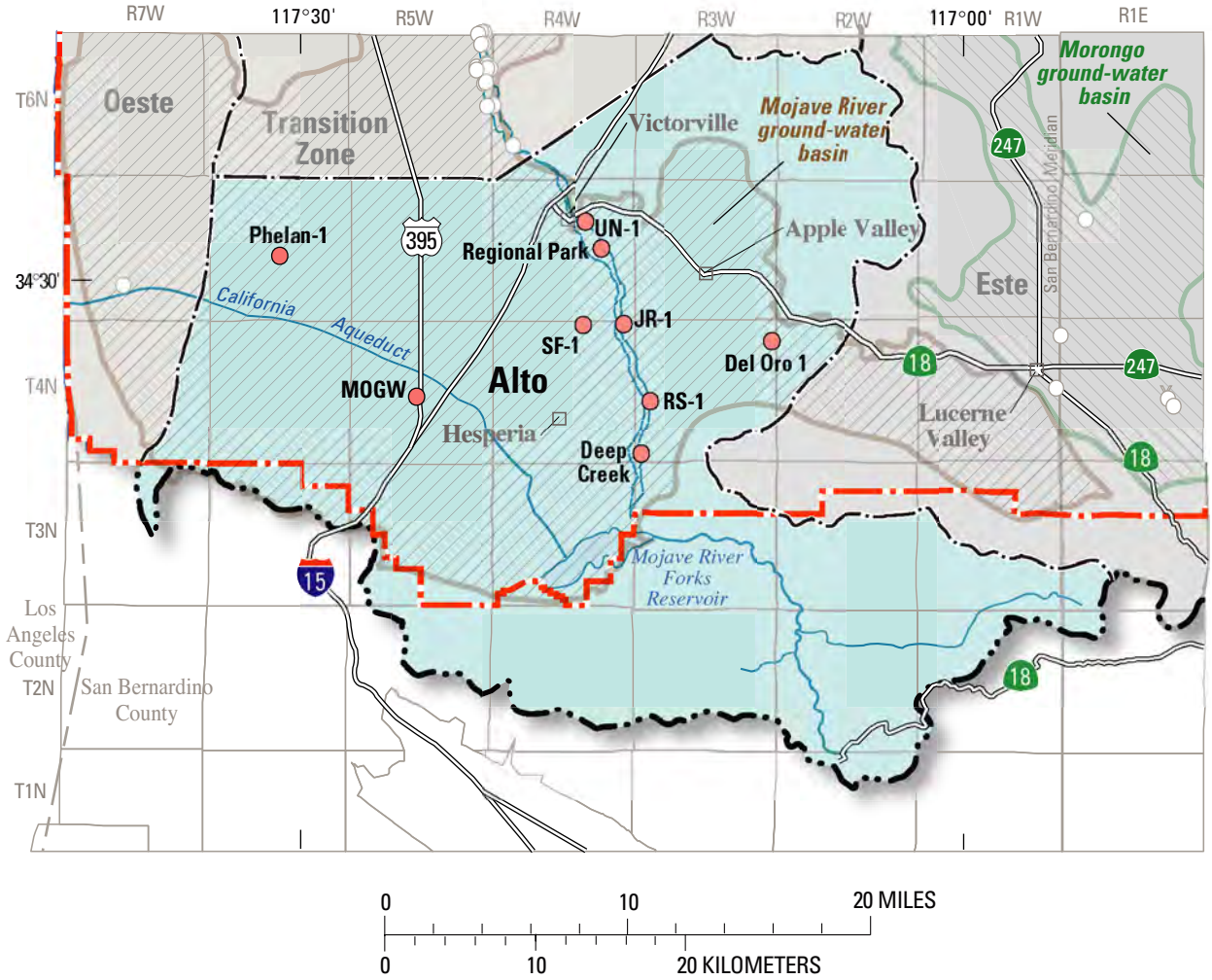
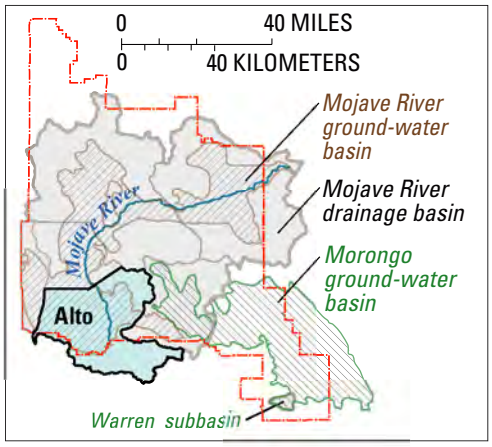
APPENDIX B. LITHOLOGIC DATA AND GROUND-WATER DATA FOR THE MOJAVE RIVER GROUND-WATER BASIN—ALTO SUBAREA





EXPLANATION

- Mojave River drainage basin boundary
- Mojave Water Agency management area boundary
- Alto — Mojave Water Agency subarea boundary and name
- RS-1 — Monitoring site and designation

Figure B1. Location of monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California.

Table B1. Well-construction data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California

[Depth of well, sand-pack interval, seal interval, and perforated interval in feet below land surface. Altitude of land-surface datum in feet above sea level]

Common name	State well No.	Type of well	Depth of well	Sand-pack interval	Seal interval	Type of seal	Perforated interval	Altitude of land-surface datum	Date drilled
Site Del Oro 1									
Del Oro 1					0–50	Cement grout			
Del Oro 1 at 270	4N/3W-12A3	Multiple	270	194–285	50–194	Bentonite	250–270	3,122	02-10-94
Del Oro 1 at 345	4N/3W-12A2	Multiple	345	304–398	285–304	Bentonite	325–345	3,122	02-10-94
Del Oro 1 at 600	4N/3W-12A1	Multiple	600	560–600	398–560	Bentonite	580–600	3,122	02-10-94
Site RS-1									
RS-1 at 55	4N/3W-19G6	Multiple	55	30–60	0–30	Cement grout	45–55	2,881	06-20-93
RS-1 at 95	4N/3W-19G5	Multiple	95	65–102	60–65	Bentonite	75–95	2,881	06-20-93
RS-1 at 195	4N/3W-19G4	Multiple	195	151–200	102–151	Bentonite	175–195	2,881	06-20-93
RS-1 at 375	4N/3W-19G3	Multiple	375	328–393	200–328	Bentonite	355–375	2,881	06-20-93
RS-1 at 600	4N/3W-19G2	Multiple	600	541–620	393–541	Bentonite	580–600	2,881	06-20-93
Site Deep Creek									
Deep Creek					0–50	Cement grout			
Deep Creek at 140	4N/3W-31L9	Multiple	140	100–150	50–100	Bentonite	120–140	2,922	05-27-92
Deep Creek at 260	4N/3W-31L8	Multiple	260	220–270	150–220	Bentonite	240–260	2,922	05-27-92
Deep Creek at 380	4N/3W-31L7	Multiple	380	340–390	270–340	Bentonite	360–380	2,922	05-27-92
Deep Creek at 550	4N/3W-31L6	Multiple	550	510–600	390–510	Bentonite	530–550	2,922	05-27-92
Site JR-1									
JR-1 at 80	4N/4W-1C5	Multiple	80	37–120	0–37	Cement grout	60–80	2,818	06-04-92
JR-1 at 190	4N/4W-1C4	Multiple	190	149–205	120–149	Bentonite	170–190	2,818	06-04-92
JR-1 at 330	4N/4W-1C3	Multiple	330	281–383	205–281	Bentonite	310–330	2,818	06-04-92
JR-1 at 620	4N/4W-1C2	Multiple	620	569–620	383–569	Bentonite	600–620	2,818	06-04-92
Site SF-1									
SF-1					0–45	Cement grout			
SF-1 at 235	4N/4W-3A5	Multiple	235	169–248	45–169	Bentonite	195–235	2,983	01-09-94
SF-1 at 360	4N/4W-3A4	Multiple	360	305–387	248–305	Bentonite	340–360	2,983	01-09-94
SF-1 at 510	4N/4W-3A3	Multiple	510	450–527	387–450	Bentonite	490–510	2,983	01-09-94
SF-1 at 790	4N/4W-3A2	Multiple	790	742–798	527–742	Bentonite	770–790	2,983	01-09-94

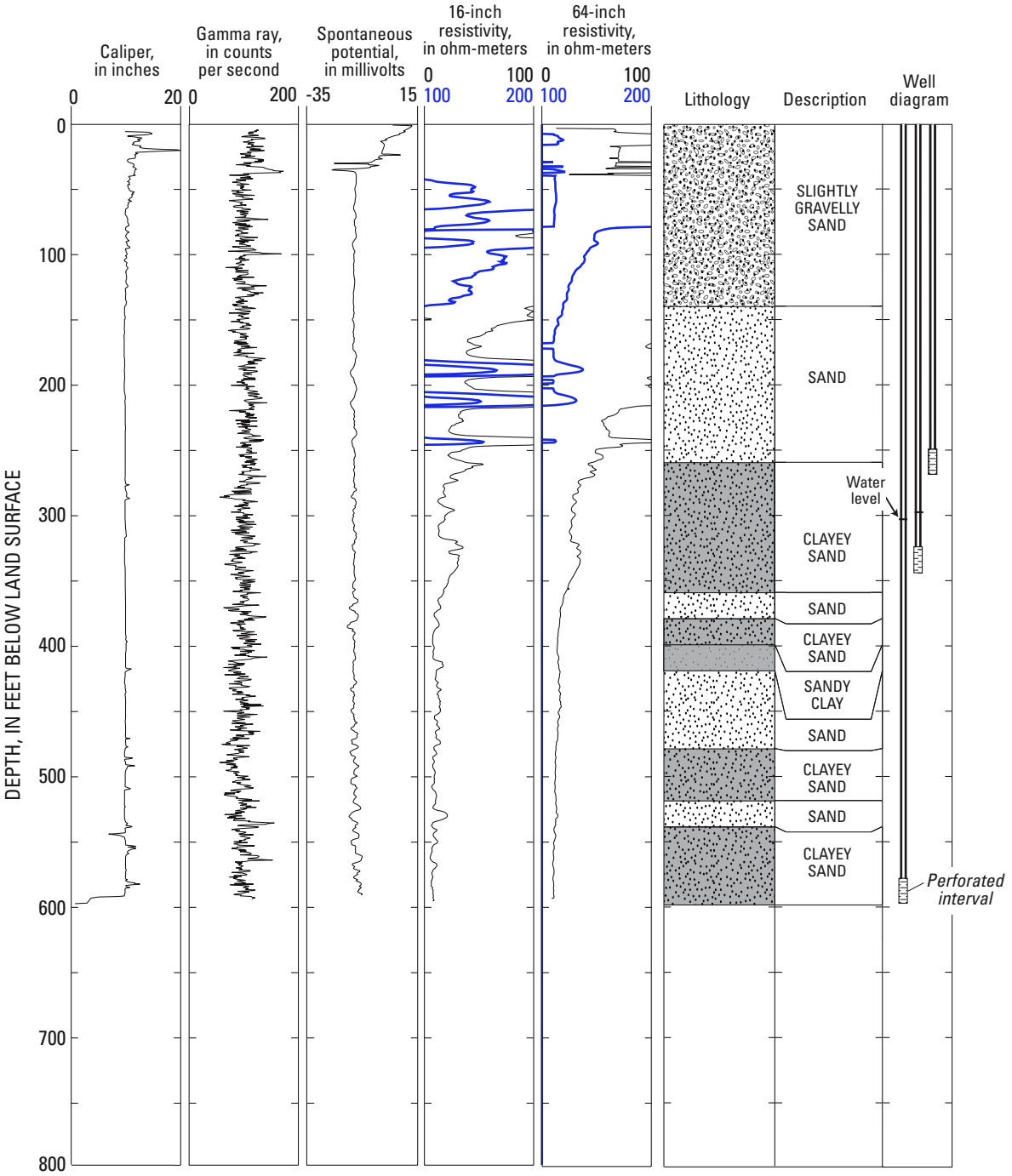
Table B1. Well-construction data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

Common name	State well No.	Type of well	Depth of well	Sand-pack interval	Seal interval	Type of seal	Perforated interval	Altitude of land-surface datum	Date drilled
Site MOGW									
MOGW	4N/5W-21H1	Single	670		0–5	Cement grout	630–670	3,530	01-22-95
Site UN-1									
UN-1					0–8	Cement grout			
UN-1 at 50	5N/4W-14D4	Multiple	50	10–50	8–10	Bentonite	30–50	2,740	07-14-92
UN-1 at 100	5N/4W-14D3	Multiple	100	72–124	50–72	Bentonite	80–100	2,740	07-14-92
UN-1 at 200	5N/4W-14D2	Multiple	200	159–222	124–159	Bentonite	180–200	2,740	07-14-92
UN-1 at 340	5N/4W-14D1	Multiple	340	290–400	222–290	Bentonite	320–340	2,740	07-14-92
Site Regional Park									
Regional Park	5N/4W-23B1	Single	9.5	1–9.5	0–1	Cement grout	0–9.5	2,750	12-04-95
Site Phelan-1									
Phelan-1					0–46	Cement grout			
Phelan-1 NO 3	5N/6W-22E3	Multiple	400	365–443	46–365	Bentonite	380–400	3,260	02-06-94
Phelan-1 NO 2	5N/6W-22E2	Multiple	565	522–584	443–522	Bentonite	545–565	3,260	02-06-94
Phelan-1 NO 1	5N/6W-22E1	Multiple	750	697–783	584–697	Bentonite	730–750	3,260	02-06-94

Table B2. Lithologic log for multiple-well monitoring site Del Oro 1 (wells 4N/3W-12A1–3) in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California

[Altitude of land surface, approximately 3,122 ft. Depth is in feet below land surface. Soil and rock color notation from Munsell Color (1994). Drilled by U.S. Geological Survey using mud rotary, February 1994. Total depth drilled 600 ft. Screened intervals: 580–600, 325–345, and 250–270 ft]

Depth		Description
From	To	
0	20	Slightly gravelly sand, fine to coarse, with some granules; poorly sorted; subangular to subrounded; moderate yellowish brown (10YR 5/4)
20	40	Slightly gravelly sand, fine to coarse, with some granules; poorly sorted; subangular to subrounded; mafic minerals and mica; moderate yellowish brown (10YR 5/4)
40	60	Slightly gravelly sand, fine to coarse, with some granules and pebbles; poorly sorted; subangular to subrounded; mafic minerals and mica; moderate yellowish brown (10YR 5/4)
60	140	Slightly gravelly sand, fine to coarse, with some granules; poorly sorted; subangular to subrounded; mafic minerals and mica; moderate yellowish brown (10YR 5/4)
140	160	Sand, fine to coarse; poorly sorted; subangular to subrounded; moderate yellowish brown (10YR 5/4)
160	180	Sand, fine to medium with some coarse; moderately sorted; subangular to subrounded; some mafic minerals; moderate yellowish brown (10YR 5/4)
180	220	Sand, fine to coarse; poorly sorted; subangular to subrounded; moderate yellowish brown (10YR 5/4)
220	260	Sand, fine to medium; moderately sorted; subangular to subrounded; some mafic minerals; moderate yellowish brown (10YR 5/4)
260	280	Clayey sand, fine to medium; moderately sorted; subangular to subrounded; moderate yellowish brown (10YR 5/4)
280	320	Clay, with sand, fine; moderate yellowish brown (10YR 5/4)
320	360	Clayey sand, fine to medium; moderately sorted; subangular to subrounded; moderate yellowish brown (10YR 5/4)
360	380	Sand, fine to medium, moderately sorted; subangular to subrounded; moderate yellowish brown (10YR 5/4)
380	400	Clayey sand, fine to coarse; poorly sorted; subangular to subrounded; moderate yellowish brown (10YR 5/4)
400	420	Sandy clay, with fine to medium sand; moderate yellowish brown (10YR 5/4)
420	440	Sand, fine to medium; moderately sorted; subrounded; moderate yellowish brown (10YR 5/4)
440	480	Sand, fine to medium; moderately sorted; subrounded; some mafic minerals; moderate yellowish brown (10YR 5/4)
480	520	Clayey sand, fine to medium; moderately sorted; subrounded; moderate yellowish brown (10YR 5/4)
520	540	Sand, fine to medium; moderately sorted; subrounded; moderate yellowish brown (10YR 5/4)
540	600	Clayey sand, fine to medium; moderately sorted; subrounded; moderate yellowish brown (10YR 5/4)



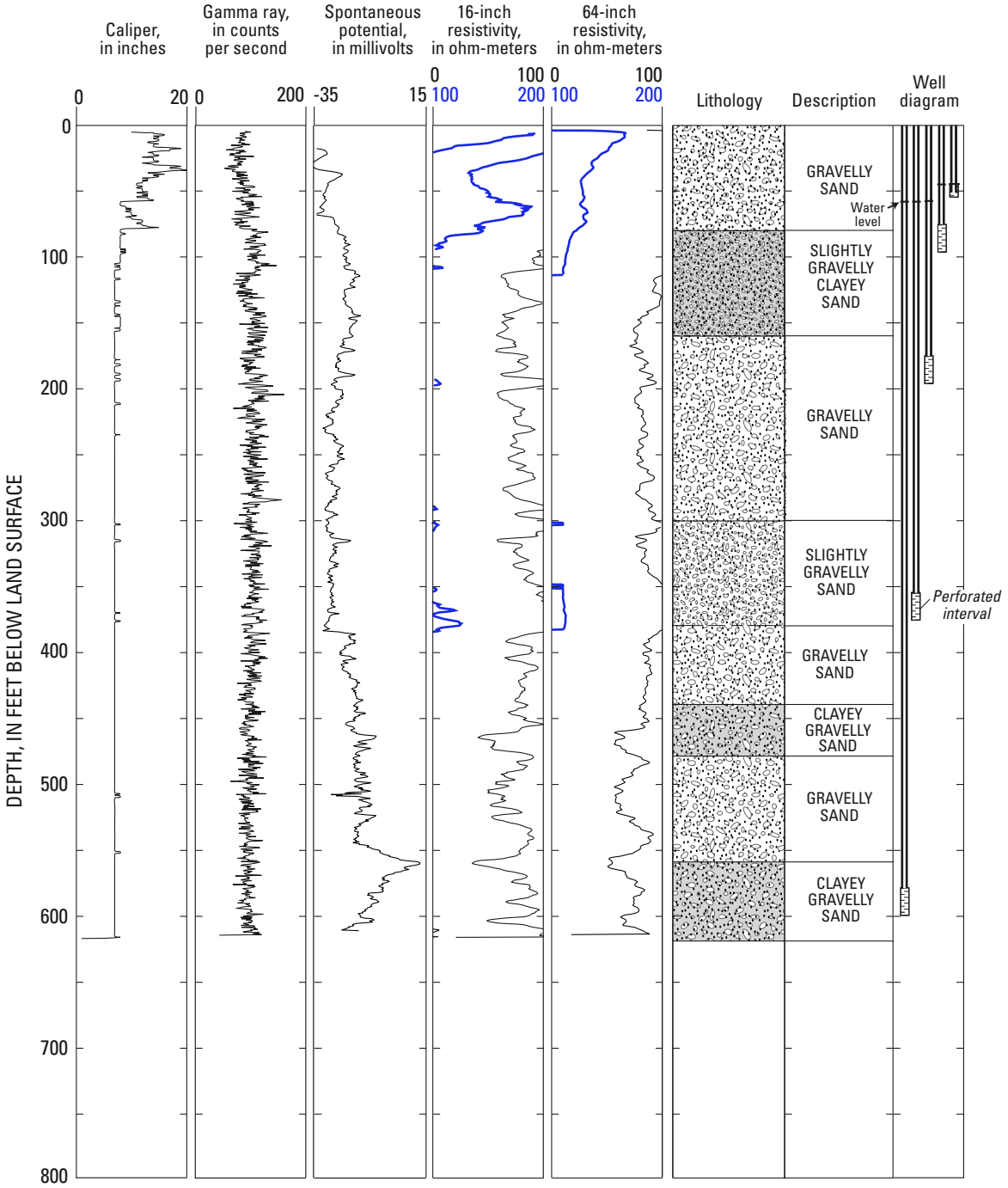
Note: Some lithologic units may have been combined for presentation in this figure and the lithologic description may not correspond exactly to the description in the lithologic log shown in table.

Figure B2. Geophysical logs, lithology, and well diagram for monitoring site Del Oro 1 (wells 4N/3W-12A1–3) in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California.

Table B3. Lithologic log for multiple-well monitoring site RS-1 (wells 4N/3W-19G2–6) in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California

[Altitude of land surface, approximately 2,881 ft. Depth is in feet below land surface. Soil and rock color notation from Munsell Color (1994). Drilled by U.S. Geological Survey using mud rotary, June 1993. Total depth drilled 620 ft. Screened intervals: 580–600, 355–375, 175–195, 75–95, and 45–55 ft]

Depth (ft)		Description
From	To	
0	20	Gravelly sand, fine to coarse, with granules and pebbles; poorly sorted; angular to subrounded; some mica; dark yellowish orange (10YR 6/6) to moderate yellowish brown (10YR 5/4)
20	40	Gravelly sand, medium to coarse, with granules; moderately sorted; subangular to subrounded; mostly quartz and plagioclase; dark yellowish orange (10YR 6/6)
40	60	Gravelly sand, fine to coarse, with granules and pebbles; poorly sorted; subangular to subrounded; dark yellowish orange (10YR 6/6)
60	80	Gravelly sand, fine to coarse, with granules and pebbles; poorly sorted; angular to subrounded; some mafic minerals and mica; dark yellowish orange (10YR 6/6)
80	100	Slightly clayey gravelly sand, fine to coarse; poorly sorted; subangular to subrounded; dark yellowish orange (10YR 6/6)
100	120	Gravelly sand, fine to coarse, with granules and pebbles; poorly sorted; subangular to subrounded; dark yellowish orange (10YR 6/6)
120	140	Slightly gravelly clayey sand, fine to coarse, clay with some granules; poorly sorted; subangular; dark yellowish orange (10YR 6/6)
140	160	Slightly gravelly clayey sand, fine to coarse, clay with granules and pebbles; poorly sorted; subangular to subrounded; dark yellowish orange (10YR 6/6)
160	180	Gravelly sand, medium to coarse, with granules and pebbles; moderately sorted; subangular to subrounded; dark yellowish orange (10YR 6/6)
180	200	Gravelly clayey sand, fine to coarse, clay with granules; poorly sorted; subrounded; dark yellowish orange (10YR 6/6)
200	300	Gravelly sand, fine to coarse, with granules and pebbles; poorly sorted; subangular to subrounded; dark yellowish orange (10YR 6/6)
300	360	Slightly gravelly sand, fine to coarse, with occasional granules; poorly sorted; subangular to subrounded; dark yellowish orange (10YR 6/6)
360	380	Slightly gravelly sand, medium to coarse, with occasional granules; moderately sorted; subangular to subrounded; dark yellowish orange (10YR 6/6)
380	440	Gravelly sand, medium to coarse, with granules; moderately sorted; subangular to subrounded; dark yellowish orange (10YR 6/6)
440	480	Clayey gravelly sand, fine to coarse, with granules and some clay; poorly sorted; angular to subrounded; dark yellowish orange (10YR 6/6)
480	560	Gravelly sand, medium to coarse, with granules; moderately sorted; angular to subrounded; dark yellowish orange (10YR 6/6)
560	620	Clayey gravelly sand, fine to coarse, with granules and pebbles and some clay; poorly sorted; angular to subrounded; dark yellowish orange (10YR 6/6)



Note: Some lithologic units may have been combined for presentation in this figure and the lithologic description may not correspond exactly to the description in the lithologic log shown in table.

Figure B3. Geophysical logs, lithology, and well diagram for monitoring site RS-1 (wells 4N/3W-19G2–6) in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California.

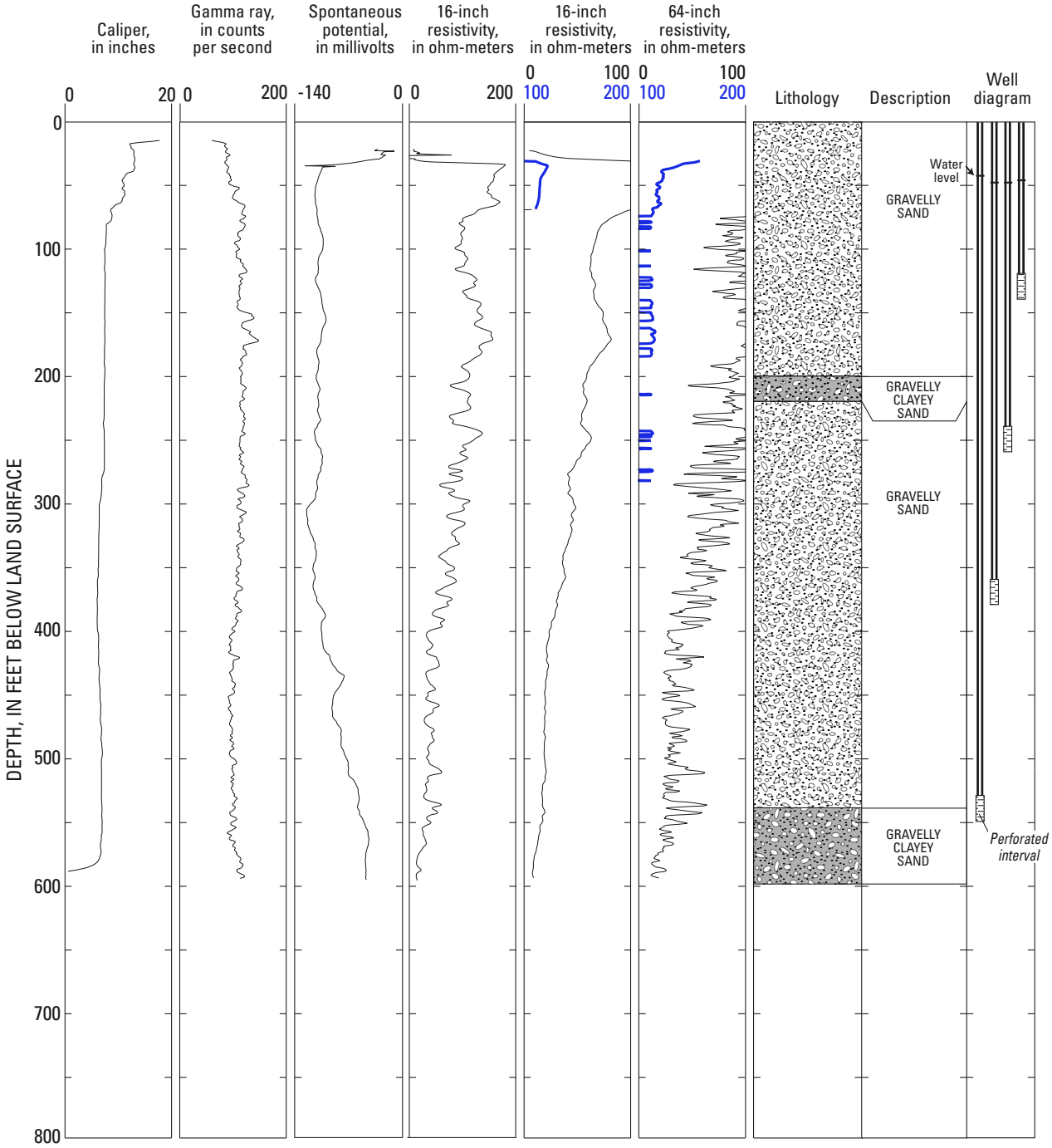
Table B4. Lithologic log for multiple-well monitoring site Deep Creek (wells 4N/3W-31L6–9) in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California

[Altitude of land surface, approximately 2,922 ft. Depth is in feet below land surface. Soil and rock color notation from Munsell Color (1994). Drilled by U.S. Geological Survey using mud rotary, May 1992. Total depth drilled 600 ft. Screened intervals: 530–550, 360–380, 240–260, and 120–140 ft]

Depth (ft)		Description
From	To	
0	20	Sand, fine to very coarse, with some granules to medium pebbles; very poorly sorted; subangular to subrounded; quartz, feldspar, rock fragments, mafic minerals, biotite; dark yellowish brown (10YR 4/2)
20	40	Sand, fine to very coarse, with some granules to medium pebbles; very poorly sorted; subangular to subrounded; quartz, rock fragments, mafic minerals; dark yellowish brown (10YR 4/2)
40	60	Sand, fine to coarse, with occasional very coarse to small pebbles; moderately sorted; subangular to subrounded; quartz, mafic minerals, biotite; dark yellowish brown (10YR 4/2)
60	80	Sand, fine to very coarse, with some granules to medium pebbles; very poorly sorted; subangular to subrounded; quartz, feldspar, biotite; dark yellowish brown (10YR 4/2)
80	100	Sand, fine to very coarse; moderately sorted; subrounded to rounded; quartz, feldspar, biotite; moderate yellowish brown (10YR 5/4)
100	120	Sand, fine to very coarse, with some granules; moderately sorted; subangular to rounded; quartz, feldspar, biotite; moderate yellowish brown (10YR 5/4)
120	140	Sand, fine to very coarse, with some granules to small pebbles; poorly sorted; subangular to subrounded; quartz, feldspar, biotite; moderate yellowish brown (10YR 5/4)
140	160	Sand, fine to very coarse, with some granules to small pebbles; poorly sorted; subangular to subrounded; quartz, feldspar, biotite; moderate yellowish brown (10YR 5/4)
160	180	Sand, fine to very coarse, with some granules to medium pebbles; very poorly sorted; subangular to subrounded; quartz, feldspar, biotite; moderate yellowish brown (10YR 5/4)
180	200	Sand, fine to very coarse, with some granules to small pebbles; poorly sorted; subangular to subrounded; quartz, feldspar, biotite; moderate yellowish brown (10YR 5/4)
200	220	Clayey sand, fine to very coarse, and some granules to medium pebbles; very poorly sorted; subangular to subrounded; quartz, feldspar, biotite; moderate yellowish brown (10YR 5/4)
220	240	Sand, fine to very coarse, with some granules to small pebbles; poorly sorted; subangular to subrounded; quartz, feldspar; moderate yellowish brown (10YR 5/4)
240	260	Sand, fine to very coarse, with some granules to small pebbles; poorly sorted; subangular to subrounded; quartz, feldspar; moderate yellowish brown (10YR 5/4)
260	280	Sand, fine to very coarse, with some granules to small pebbles; poorly sorted; subangular to subrounded; quartz, feldspar, biotite; moderate yellowish brown (10YR 5/4)
280	300	Sand, fine to very coarse, with some granules to medium pebbles and a trace of clay; very poorly sorted; subangular to subrounded; quartz, feldspar, rock fragments; moderate yellowish brown (10YR 5/4)
300	320	Sand, fine to very coarse, with some granules to small pebbles and a trace of clay; very poorly sorted; angular to subrounded; quartz, feldspar; moderate yellowish brown (10YR 5/4)
320	340	Sand, fine to very coarse, with some granules and clay; poorly sorted; subangular to subrounded; quartz, feldspar; moderate yellowish brown (10YR 5/4)
340	360	Sand, fine to very coarse, with some granules to small pebbles, and some clay; very poorly sorted; subangular to subrounded; quartz, feldspar; moderate yellowish brown (10YR 5/4)
360	380	Sand, fine to very coarse, with some granules; poorly sorted; subangular to subrounded; quartz, feldspar, biotite; moderate yellowish brown (10YR 5/4)
380	400	Sand, fine to very coarse, with some granules to small pebbles; very poorly sorted; subangular to subrounded; quartz, feldspar, biotite; moderate yellowish brown (10YR 5/4)
400	420	Sand, fine to very coarse, with some granules to small pebbles; very poorly sorted; subangular to subrounded; quartz, feldspar; moderate yellowish brown (10YR 5/4)

Table B4. Lithologic log for multiple-well monitoring site Deep Creek (wells 4N/3W-31L6–9) in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California

Depth (ft)		Description
From	To	
420	440	Sand, fine to medium, with some coarse to very coarse grains; well-sorted; subangular to subrounded; quartz, feldspar, biotite; dark yellowish brown (10YR 4/2)
440	460	Sand, fine to medium, with some coarse grains to granules; moderately sorted; angular to subrounded; quartz, biotite; dark yellowish brown (10YR 4/2)
460	480	Sand, fine to medium, with some coarse to very coarse grains; well-sorted; subangular to subrounded; quartz, biotite; dark yellowish brown (10YR 4/2)
480	500	Sand, fine to medium, with some coarse grains to granules; moderately sorted; subangular to subrounded; quartz, feldspar; dark yellowish brown (10YR 4/2)
500	520	Sand, fine to medium, with some coarse grains to small pebbles; very poorly sorted; subangular to subrounded; quartz, feldspar; dark yellowish brown (10YR 4/2)
520	540	Sand, fine to medium, with some coarse grains to small pebbles; very poorly sorted; subangular to subrounded; quartz, feldspar, biotite; dark yellowish brown (10YR 4/2)
540	560	Sand, fine to medium, with some clay and coarse grains to granules; very poorly sorted; subangular to subrounded; quartz, feldspar; dark yellowish brown (10YR 4/2)
560	580	Sand, fine, with some clay, granules; very poorly sorted; subangular to subrounded; quartz, feldspar, biotite; dark yellowish brown (10YR 4/2)
580	600	Sand, very fine to fine, with some clay, small pebbles; very poorly sorted; subangular to subrounded; dark yellowish brown (10YR 4/2)



Note: Some lithologic units may have been combined for presentation in this figure and the lithologic description may not correspond exactly to the description in the lithologic log shown in table.

Figure B4. Geophysical logs, lithology, and well diagram for monitoring site Deep Creek (wells 4N/3W-31L6–9) in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California.

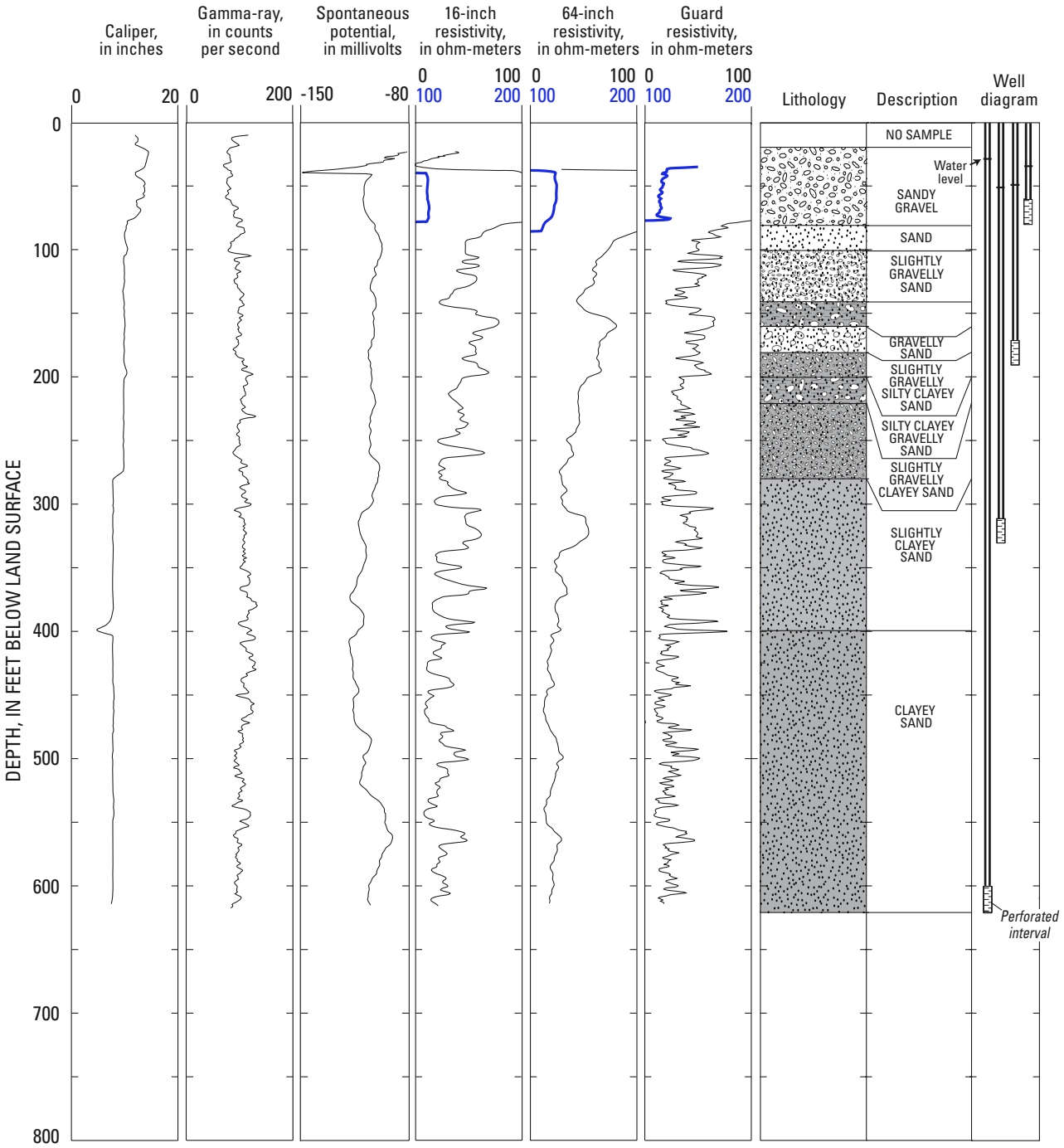
Table B5. Lithologic log for multiple-well monitoring site JR-1 (wells 4N/4W-1C2–5) in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California

[Altitude of land surface, approximately 2,818 ft. Depth is in feet below land surface. Soil and rock color notation from Munsell Color (1994). Drilled by U.S. Geological Survey using mud rotary, June 1992. Total depth drilled 620 ft. Screened intervals: 600–620, 310–330, 170–190, and 60–80 ft]

Depth (ft)		Description
From	To	
0	20	No sample collected
20	40	Sandy gravel, medium to very coarse sand, granules and occasional pebble; moderately sorted; subangular; dominately quartz, feldspar, some pyrite, lithic fragments (volcanic); dark yellowish brown (10YR 4/2)
40	60	Sand, medium to very coarse, occasional granules; well-sorted; subrounded; quartz, feldspar, pyrite, lithic fragments (volcanic); dark yellowish brown (10YR 4/2)
60	80	Sandy gravel, medium to very coarse sand, granules, some pebbles; moderately sorted; subrounded to rounded; quartz, feldspar, granitic fragments, pyrite; dark yellowish brown (10YR 4/2)
80	100	Sand, fine to coarse; well-sorted; subrounded to subangular; occasional granule; quartz, feldspar, pyrite, dark volcanic fragments; moderate yellowish brown (10YR 5/4)
100	120	Sand, fine to coarse, occasional granule with pebble; moderately sorted; subrounded to subangular; quartz, feldspar, dark lithics, pyrite; dark yellowish brown (10YR 4/2)
120	140	Sand, fine to coarse, occasional granule; well-sorted; subrounded to subangular; quartz, feldspar, dark lithics, pyrite; dark yellowish brown (10YR 4/2)
140	160	Gravelly sand, very fine to very coarse, some silt and clay, granules and pebbles; poorly sorted; subrounded; quartz, feldspar, dark lithics, pyrite; dark yellowish brown (10YR 4/2)
160	180	Gravelly sand, fine to coarse, granules and pebbles; poorly sorted; subangular; quartz, feldspar, dark lithics, pyrite; moderate yellowish brown (10YR 5/4)
180	200	Sand, fine to very coarse, occasional granule, some silt/clay; moderately sorted; subrounded; quartz, feldspar, dark lithics, pyrite; moderate yellowish brown (10YR 5/4)
200	220	Gravelly sand, fine to coarse, granules, occasional pebble, some clay; moderately sorted; subrounded; quartz, feldspar, pyrite, dark lithic fragments; moderate yellowish brown (10YR 5/4)
220	240	Sand, fine to coarse, occasional granule, some silt/clay; moderately sorted; subrounded to subangular; quartz, feldspar, pyrite (small granules), dark lithic fragments; moderate yellowish brown (10YR 5/4)
240	260	Sand, fine to coarse, occasionally very coarse, occasional granule, some clay; moderately sorted; subangular; quartz, feldspar, pyrite (small granules), dark lithic fragments; dark yellowish brown (10YR 4/2) to moderate yellowish brown (10YR 5/4)
260	280	Sand, fine to coarse, occasionally very coarse, little clay; moderately sorted; subangular--electric log suggests more gravel; quartz, feldspar, pyrite (small granules), dark lithic fragments; moderate yellowish brown (10YR 5/4) to dark yellowish brown (10YR 4/2)
280	300	Sand, fine to medium, occasional coarse, some clay; moderate to well-sorted; subrounded to subangular; quartz, feldspar, pyrite (small granules) dark lithic fragments; dark yellowish brown (10YR 4/2)
300	320	Sand, very fine to medium, occasional coarse, clay presence; moderately to well-sorted; subangular; quartz, pyrite, feldspar, dark lithic fragments; dark yellowish brown (10YR 4/2)
320	340	Sand, fine to coarse, some clay; moderately sorted; subrounded to subangular; quartz, feldspar, pyrite, dark lithic fragments; moderate yellowish brown (10YR 5/4) to dark yellowish brown (10YR 4/2)
340	360	Sand, fine to very coarse, some clay; poorly sorted; subrounded to subangular; quartz, feldspar, pyrite, dark lithic fragments; dark yellowish brown (10YR 4/2)
360	380	Sand, very fine to coarse, occasional very coarse or granule, some clay; poorly sorted; subrounded; quartz, feldspar, pyrite, dark lithic fragments; moderate yellowish brown (10YR 5/4) to dark yellowish brown (10YR 4/2)
380	400	Clayey sand, very fine to medium, with clay and silt; moderately to well-sorted; subrounded; quartz, feldspar, pyrite, dark lithic fragments; dark yellowish brown (10YR 4/2)

Table B5. Lithologic log for multiple-well monitoring site JR-1 (wells 4N/4W-1C2–5) in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

Depth (ft)		Description
From	To	
400	420	Clayey sand, very fine to very coarse, with clay and silt; poorly sorted; subrounded; quartz, feldspar, pyrite, dark lithic fragments; dark yellowish brown (10YR 4/2)
420	440	Clayey sand, very fine to medium, occasionally coarse; well-sorted; subrounded to subangular; quartz, feldspar, pyrite, dark lithic fragments; dark yellowish brown (10YR 4/2)
440	460	Clayey sand, very fine to medium, occasionally coarse to very coarse silt; well-sorted; subrounded to subangular; dark yellowish brown (10YR 4/2)
460	480	Clayey sand, very fine to fine, silt, occasional granule; well-sorted; subrounded; dark yellowish brown (10YR 4/2)
480	500	Clayey sand, very fine; silt; occasionally very coarse; moderately sorted; subangular; dark yellowish brown (10YR 4/2)
500	520	Clayey sand, silt to medium; subrounded to subangular; well-sorted; quartz, feldspar, dark lithic fragments, pyrite; dark yellowish brown (10YR 4/2)
520	540	Clayey sand, silt to medium, occasional coarse; subrounded; moderately sorted; quartz, feldspar, dark lithic fragments, pyrite; dark yellowish brown (10YR 4/2)
540	560	Clayey sand, silt to coarse, occasional very coarse; moderately poorly sorted; subangular to subrounded; quartz, feldspar, dark lithic fragments, pyrite; dark yellowish brown (10YR 4/2)
560	580	Silty sand, less clay, silt to medium; well-sorted; subangular; quartz, feldspar, pyrite, dark lithic fragments; dark yellowish brown (10YR 4/2)
580	600	Clayey sand, silt to medium, occasional coarse; moderately sorted; subangular; quartz, feldspar, pyrite, dark lithic fragments; dark yellowish brown (10YR 4/2)
600	620	Clayey sand, silt to coarse; moderately sorted; subangular; dark yellowish brown (10YR 4/2)



Note: Some lithologic units may have been combined for presentation in this figure and the lithologic description may not correspond exactly to the description in the lithologic log shown in table.

Figure B5. Geophysical logs, lithology, and well diagram for monitoring site JR-1 (wells 4N/4W-1C2–5) in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California.

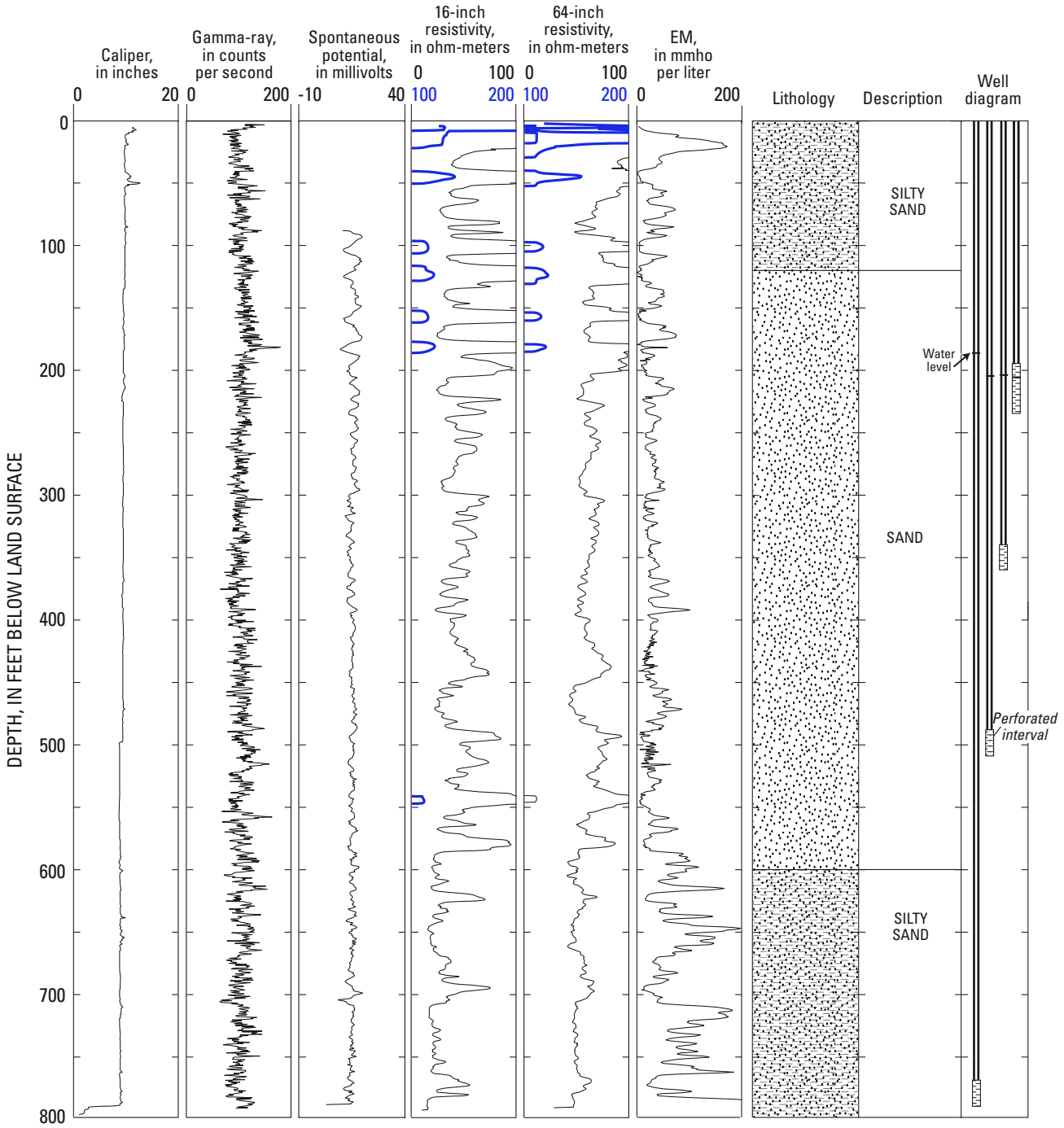
Table B6. Lithologic log for multiple-well monitoring site SF-1 (wells 4N/4W-3A2–5) in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California

[Altitude of land surface, approximately 2,983 ft. Depth is in feet below land surface. Soil and rock color notation from Munsell Color (1994). Drilled by U.S. Geological Survey using mud rotary, January 1994. Total depth drilled 798 ft. Screened intervals: 770–790, 490–510, 340–360, and 195–235 ft]

Depth (ft)		Description
From	To	
0	20	Clayey sand, fine-grained; no recovery
20	40	Silty sand, very fine to fine, minor clay; well-sorted; subangular; dark yellowish brown (10YR 4/2)
40	60	Silty sand, very fine to fine, trace clay, trace granules; well-sorted; subangular; dark yellowish brown (10YR 4/2)
60	80	Silty sand, very fine to fine, some clay; well-sorted; subangular; dark yellowish brown (10YR 4/2)
80	100	Silty sand, very fine to very coarse, skewed toward fine, trace clay; poorly sorted; angular biotite to subrounded; quartz; moderate yellowish brown (10YR 5/4)
100	120	Silty sand, very fine to coarse, skewed toward fine, trace clay; poorly sorted; angular to subrounded; moderate yellowish brown (10YR 5/4)
120	140	Sand, very fine to very coarse, minor silt; poorly sorted, well-graded; angular to subrounded; moderate yellowish brown (10YR 5/4)
140	160	Sand, fine to medium; well-sorted; angular to subrounded; moderate yellowish brown (10YR 5/4)
160	180	Sand, very fine to medium; well-sorted; angular to subrounded; moderate yellowish brown (10YR 5/4)
180	220	Sand, fine to medium, minor granules; well-sorted; angular to subrounded; moderate yellowish brown (10YR 5/4)
220	240	Sand, very fine to very coarse; poorly sorted; well-graded; angular to rounded; moderate yellowish brown (10YR 5/4)
240	260	Sand, fine to medium; well-sorted; angular to subangular; moderate yellowish brown (10YR 5/4)
260	300	Sand, very fine to very coarse, skewed toward fine; poorly sorted; angular to subrounded; moderate yellowish brown (10YR 5/4)
300	320	Sand, very fine to very coarse, skewed toward fine; poorly sorted; angular to subrounded; moderate yellowish brown (10YR 5/4)
320	340	Sand, very fine to very coarse, minor gravel; poorly sorted; angular to subrounded; moderate yellowish brown (10YR 5/4)
340	360	Sand, fine to very coarse, minor granules; poorly sorted; angular to subrounded; moderate yellowish brown (10YR 5/4)
360	380	Sand, fine to coarse; poorly sorted; well-graded; angular to subrounded; grayish orange (10YR 7/4)
380	400	Sand, fine to coarse; poorly sorted; well-graded; angular to subrounded; moderate yellowish brown (10YR 5/4)
400	440	Sand, very fine to very coarse; poorly sorted; well-graded; angular to subrounded; moderate yellowish brown (10YR 5/4)
440	460	Sand, fine to very coarse; poorly sorted; well-graded; angular to subrounded; moderate yellowish brown (10YR 5/4)
460	480	Sand, fine to coarse; poorly sorted; well-graded; angular to subrounded; moderate yellowish brown (10YR 5/4)
480	500	Sand, fine to very coarse, skewed toward fine; poorly sorted; angular biotite to subrounded quartz; moderate yellowish brown (10YR 5/4)
500	520	Sand, very fine to very coarse, skewed toward fine; poorly sorted; angular to subrounded; moderate yellowish brown (10YR 5/4)
520	540	Sand, very fine to coarse, skewed toward fine; poorly sorted; angular to subrounded; moderate yellowish brown (10YR 5/4)

Table B6. Lithologic log for multiple-well monitoring site SF-1 (wells 4N/4W-3A2–5) in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

Depth (ft)		Description
From	To	
540	560	Sand, very fine to coarse; poorly sorted; angular to subrounded; moderate yellowish brown (10YR 5/4)
560	580	Sand, very fine to coarse, skewed toward fine; poorly sorted; angular to subrounded; moderate yellowish brown (10YR 5/4)
580	600	Sand, very fine to coarse; poorly sorted; skewed toward fine; angular to subrounded; moderate yellowish brown (10YR 5/4)
600	640	Sand, very fine to medium; well-sorted; angular to subrounded; moderate yellowish brown (10YR 5/4)
640	700	Sand, very fine to medium, minor silt; trace clay; well-sorted; angular to subrounded; moderate yellowish brown (10YR 5/4)
700	760	Sand, very fine to medium, trace silt; well-sorted; angular to subrounded; moderate yellowish brown (10YR 5/4)
760	798	Sand, very fine to medium; well-sorted; angular to subrounded; dark yellowish brown (10YR 4/2)



Note: Some lithologic units may have been combined for presentation in this figure and the lithologic description may not correspond exactly to the description in the lithologic log shown in table.

Figure B6. Geophysical logs, lithology, and well diagram for monitoring site SF-1 (wells 4N/4W-3A2–5) in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California.

Table B7. Lithologic log for monitoring site MOGW (well 4N/5W-21H1) in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California

[Altitude of land surface, approximately 3,530 ft. Depth is in feet below land surface. Soil and rock color notation (on dry cuttings) from Munsell Color (1994). Drilled by U.S. Geological Survey using air rotary, January 1995. Total depth drilled 700 ft. Screened interval: 630–670 ft]

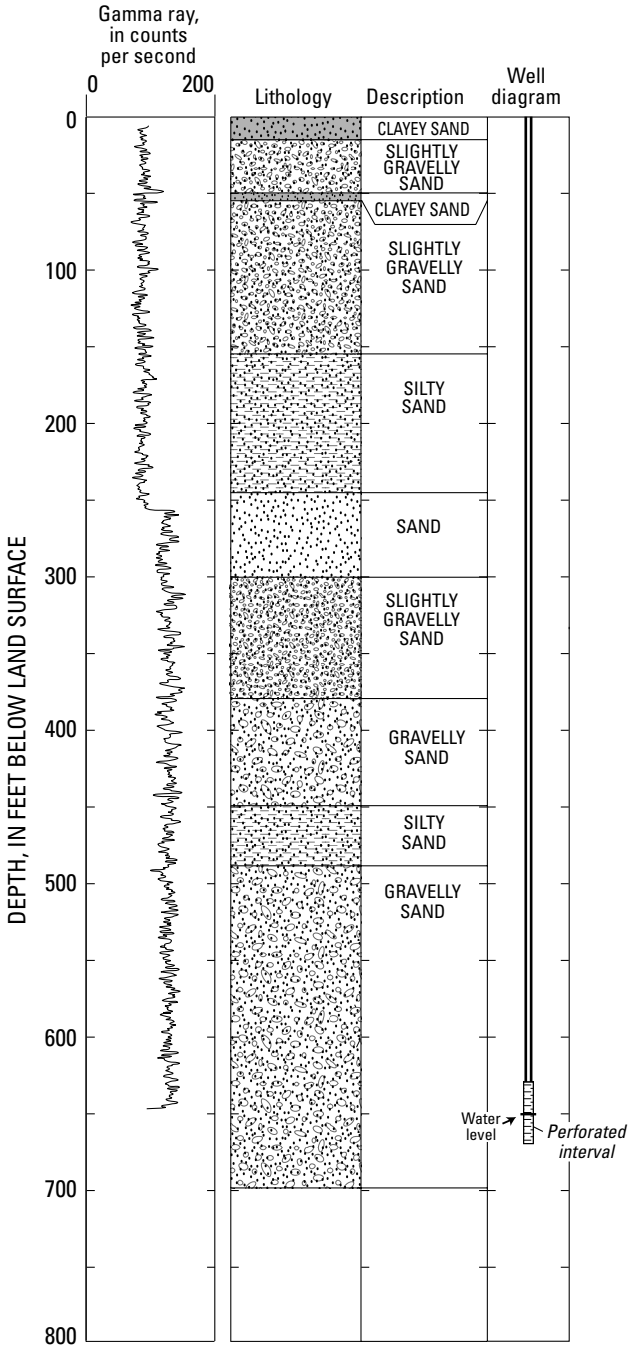
Depth (ft)		Description
From	To	
0	6	Clayey sand, fine to medium, with some coarse to very coarse sand; poorly sorted; angular to subrounded; reddish brown (5YR 4/4)
6	9	Clayey sand, very fine to fine, with some clay and medium to coarse sand; poorly sorted; subangular to subrounded; yellowish brown (10YR 5/4)
9	12	Sand, very fine to fine, with some medium to very coarse sand and silt; poorly sorted; subangular to subrounded; yellowish brown (10YR 5/4)
12	15.5	Sand, fine, with some very fine to very coarse sand and silt; poorly sorted; subangular to subrounded; yellowish brown (10YR 5/4)
15.5	17.5	Slightly gravelly sand, medium to very coarse, with some fine sand and some granule- to small pebble-sized gravel; very poorly sorted; angular to subrounded; yellowish brown (10YR 5/4)
17.5	21	Slightly gravelly sand, fine to medium, with some very fine to very coarse sand and granule- to small pebble-sized gravel; very poorly sorted; angular to subrounded; yellowish brown (10YR 5/4)
21	22	Slightly gravelly sand, fine to medium, with some clay, very fine and coarse to very coarse sand, and granule-sized gravel; very poorly sorted; subangular to rounded; yellowish brown (10YR 5/4)
22	23	Slightly clayey sand, fine to medium, very fine and coarse to very coarse sand and occasional granule-sized gravel; poorly sorted; subangular to subrounded; yellowish brown (10YR 5/4)
23	24	Gravelly sand, fine to medium, with some silt, very fine and coarse to very coarse sand, and granule-to medium pebble-sized gravel; poorly sorted; angular to subrounded; yellowish brown (10YR 5/4)
24	25	Slightly gravelly sand, fine to medium, with some silt, very fine and coarse to very coarse sand, and granule- to medium pebble-sized gravel; very poorly sorted; angular to subrounded; yellowish brown (10YR 5/4)
25	27	Sand, fine to medium, some very fine and coarse to very coarse sand, occasional granule-sized gravel; poorly sorted; subangular to subrounded; yellowish brown (10YR 5/4)
27	29.5	Slightly gravelly sand, fine to coarse, with some silt, very fine and very coarse sand, and granule- to small pebble-sized gravel, occasional medium to large pebble; very poorly sorted; subangular to rounded; yellowish brown (10YR 5/4)
29.5	32.5	Sand, coarse to very coarse, with some fine to medium sand; poorly sorted; subangular to subrounded; yellowish brown (10YR 5/4)
32.5	37.5	Sand, coarse to very coarse, with some fine to medium sand; poorly sorted; subangular to subrounded; yellowish brown (10YR 5/4)
37.5	43	Sand, coarse, with some medium to very coarse sand and occasional granule-sized gravel; poorly sorted; subangular to subrounded; yellowish brown (10YR 5/4)
43	49.5	Gravelly sand, medium to coarse, with some fine and very coarse sand and granule- to large pebble-sized gravel; poorly sorted; subangular to subrounded; yellowish brown (10YR 5/4)
49.5	52.5	Clayey sand, fine to medium, with some coarse to very coarse sand; poorly sorted; subangular to subrounded; yellowish brown (10YR 5/4)
52.5	54.5	Clayey sand, medium to coarse, with some very coarse and granule-sized gravel; poorly sorted; subangular to subrounded; yellowish brown (10YR 5/4)
54.5	57.5	Slightly gravelly sand, medium with some clay, fine and coarse to very coarse sand, and granule- to large pebble-sized gravel; very poorly sorted; subangular to rounded; yellowish brown (10YR 5/4)

Table B7. Lithologic log for monitoring site MOGW (well 4N/5W-21H1) in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

Depth (ft)		Description
From	To	
57.5	59.5	Sand, medium to coarse, with some fine and very coarse sand and granule- to small pebble-sized gravel; poorly sorted, subangular to subrounded; yellowish brown (10YR 5/4)
59.5	61.5	Gravelly sand, medium to coarse, with some fine and very coarse sand and granule- to small pebble-sized gravel; poorly sorted; subangular to subrounded; yellowish brown (10YR 5/4)
61.5	67.5	Clayey sand, fine to medium, with some occasional coarse to very coarse sand; moderately sorted; subangular to subrounded; yellowish brown (10YR 5/4)
67.5	72.5	Gravelly sand, fine to medium, with some clay, coarse to very coarse sand, and granule- to medium pebble-sized gravel; poorly sorted; angular to subrounded; yellowish brown (10YR 5/4)
72.5	75.5	Slightly gravelly sand, medium, with some fine and coarse to very coarse sand, occasional granule- to small pebble-sized gravel; poorly sorted; subangular to subrounded; yellowish brown (10YR 5/4)
75.5	78.5	Sand, fine to medium, with some very fine and coarse to very coarse sand, occasional granule- to small pebble-sized gravel; poorly sorted; subangular to subrounded; yellowish brown (10YR 5/4)
78.5	90	Gravelly sand, fine to medium, with some coarse to very coarse sand and granule- to large pebble-sized gravel; poorly sorted; subangular to rounded; dark grayish brown (10YR 4/2)
90	100	Clayey sand, very fine to fine, with occasional medium to very coarse sand; moderately sorted; subangular to subrounded; yellowish brown (10YR 5/4)
100	105	Clayey sand, fine, with very fine to coarse sand; moderately sorted; subangular to subrounded; yellowish red (5YR 5/6)
105	115	Gravelly sand, fine to coarse, with some very coarse sand and granule- to medium pebble-sized gravel; poorly sorted; subangular to subrounded; yellowish brown (10YR 5/4)
115	125	Sand, fine to medium, with some very fine and coarse to very coarse sand and occasional granule- to small pebble-sized gravel; poorly sorted; subangular to subrounded; dark grayish brown (10YR 4/2)
125	155	Slightly gravelly sand, fine to coarse, with some very coarse sand and granule-sized gravel; poorly sorted; subangular to subrounded; schist; dark grayish brown (10YR 4/2)
155	160	Sand, fine to medium, with some very fine sand and silt; well-sorted; angular to subrounded; grayish brown (10YR 5/2)
160	183.5	Sand, fine to medium, with some silt, very fine and very coarse sand, and occasional granule- to small pebble-sized gravel; poorly sorted; subangular to rounded; very pale brown (10YR 7/4)
183.5	198.5	Sand, fine to medium, with some silt, very fine and coarse sand; moderately sorted; angular to subrounded; very pale brown (10YR 7/4)
198.5	219.5	Sand, very fine to fine, with some silt and medium to very coarse sand; poorly sorted; subangular to rounded; light brownish gray (10YR 6/2)
219.5	245	Silty sand, very fine to fine, with some medium to very coarse sand and occasional granule- to small pebble-sized gravel; poorly sorted; subangular to subrounded; yellowish brown (10YR 5/4)
245	265	Sand, fine, with some very fine and medium to very coarse sand and some slight clay and granule-sized pebbles; very poorly sorted; subangular to rounded; yellowish brown (10YR 5/4)
265	285	Slightly gravelly sand, fine to medium, with some silt, very fine and coarse to very coarse sand, and granule- to medium pebble-sized gravel; very poorly sorted; angular to subrounded; yellowish brown (10YR 5/4)
285	290	Sand, fine, with some medium, occasional very fine, and coarse to very coarse sand; moderately sorted; subangular to subrounded; yellowish brown (10YR 5/4)

Table B7. Lithologic log for monitoring site MOGW (well 4N/5W-21H1) in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

Depth (ft)		Description
From	To	
290	295	Sand, very fine to fine, with some silt and medium to very coarse sand; poorly sorted; angular to subrounded; pale brown (10YR 6/3)
295	300	Sand, very fine to fine, with some silt and occasional medium sand; well-sorted; angular to subrounded; pale brown (10YR 6/3)
300	310	Slightly gravelly sand, fine, with some silt, very fine and medium to very coarse sand, and granule- to small pebble-sized gravel; very poorly sorted; angular to subrounded; pale brown (10YR 6/3)
310	340	Sand, very fine to fine, with some silt and medium sand; moderately sorted; angular to subrounded; yellowish brown (10YR 5/4)
340	350	Slightly gravelly sand, very fine to fine, with some silt, medium to very coarse sand, and granule-sized gravel; poorly sorted; subangular to subrounded; pale brown (10YR 6/3)
350	370	Sand, coarse, with some fine to medium and very coarse sand, occasional granule- to medium pebble-sized gravel; poorly sorted; angular to subrounded; light yellowish brown (10YR 6/4)
370	380	Silty sand, very fine to fine, with silt and some medium to very coarse sand, occasional granule- to medium pebble-sized gravel; poorly sorted; angular to subrounded; pale brown (10YR 6/3)
380	390	Gravelly sand, coarse to very coarse, with some fine to medium sand and granule- to medium pebble-sized gravel; poorly sorted; angular to subrounded; pale brown (10YR 6/3)
390	400	Gravelly sand, fine, with some silt, very fine and medium to very coarse sand, and granule- to large pebble-sized gravel; poorly sorted; subangular to subrounded; light brownish gray (10YR 6/2)
400	410	Gravelly sand, coarse, with some fine to medium and very coarse sand, granule- to medium pebble-sized gravel; poorly sorted; subangular to rounded; yellowish brown (10YR 5/4)
410	430	Sandy gravel, granules to large pebbles, with some fine to very coarse sand; poorly sorted; subangular to subrounded; yellowish brown (10YR 5/4)
430	450	Gravelly sand, fine to medium, with some silt, very fine and coarse to very coarse sand, and granule- to medium pebble-sized gravel; poorly sorted; subangular to subrounded; grayish brown (10YR 5/2)
450	470	Silty sand, very fine to fine, with some occasional medium to very coarse sand; poorly sorted; subangular to rounded; pale brown (10YR 6/3)
470	480	Silty sand, very fine to fine, with some occasional medium to very coarse sand and granule- to small pebble-sized gravel; poorly sorted; subangular to subrounded; pale brown (10YR 6/3)
480	490	Sand, coarse to very coarse, with some silt to medium sand and occasional granule- to small pebble-sized gravel; poorly sorted; angular to subrounded; yellowish brown (10YR 5/6)
490	540	Gravelly sand, very fine to fine, with some silt, medium to very coarse sand, and granule- to medium pebble-sized gravel; poorly sorted; subangular to subrounded; light brownish gray (2.5Y 6/2)
540	560	Gravelly sand, medium to coarse, with some very fine to fine sand and granule- to small pebble-sized gravel; poorly sorted; subangular to subrounded; olive gray (5Y 5/2)
560	590	Gravelly sand, fine to medium, with some silt, very fine and coarse to very coarse sand, and granule- to small pebble-sized gravel; poorly sorted; subangular to subrounded; light brownish gray (10YR 6/2)
590	660	Gravelly sand, fine to coarse, with some silt, very fine and very coarse sand, and granule- to large pebble-sized gravel; poorly sorted; subangular to rounded; light brownish gray (10YR 6/2)
660	670	Sand, very fine to fine, with some silt and occasional medium to very coarse sand; moderately sorted; subangular to subrounded; light brownish gray (10YR 6/2)
670	690	Slightly gravelly sand, medium to coarse, with some fine and very coarse sand, and granule- to medium pebble- sized gravel; poorly sorted; subangular to subrounded; light brownish gray (10YR 6/2)
690	700	Gravelly sand, medium to coarse, with granule to large pebble-sized gravel and some fine sand; poorly sorted; angular to subrounded; light brownish gray (10YR 6/2)



Note: Some lithologic units may have been combined for presentation in this figure and the lithologic description may not correspond exactly to the description in the lithologic log shown in table.

Note: Refer/ John A. Izbicki and others (Open-File Report 00-262) for more detailed information on well instrumentation.

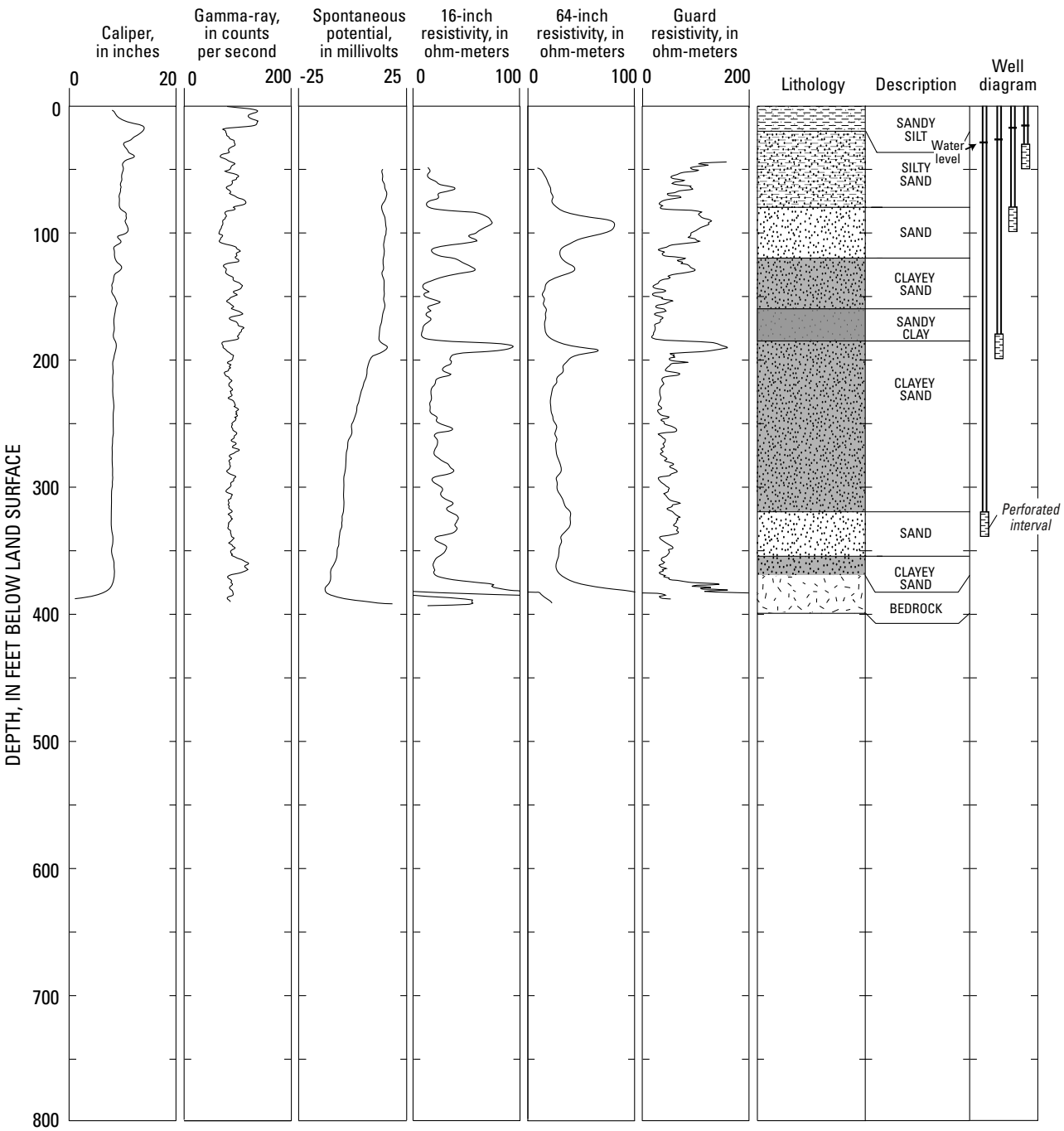
Note: Shift in gamma log at end of Odex pipe (260 feet below lsd).

Figure B7. Geophysical log, lithology, and well diagram for monitoring site MOGW (well 4N/5W-21H1) in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California.

Table B8. Lithologic log for multiple-well monitoring site UN-1 (wells 5N/4W-14D1–4) in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California

[Altitude of land surface, approximately 2,750 ft. Depth is in feet below land surface. Soil and rock color notation from Munsell Color (1994). Drilled by U.S. Geological Survey using mud rotary, July 1992. Total depth drilled 400 ft. Screened intervals: 320–340, 180–200, 80–100, and 30–50 ft]

Depth (ft)		Description
From	To	
0	20	Sandy silt, clay to small pebble; very poorly sorted; subangular to subrounded; light olive gray (5Y 5/2)
20	40	Silty sand, very fine, clay to large pebbles; very poorly sorted; angular to subrounded; rock fragments; moderate yellowish brown (10YR 5/4)
40	60	Silty sand, fine; well-sorted; subangular to subrounded; quartz; pale olive (10Y 6/2) to light olive gray (5Y 5/2)
60	80	Silty sand, fine to coarse; moderately sorted; subangular to subrounded; pale olive (10Y 6/2) to light olive gray (5Y 5/2)
80	100	Sand, coarse, with small to medium pebbles; very poorly sorted; subangular to rounded; dusky yellow (5Y 6/4)
100	120	Sand, coarse, some medium sand to granules; moderately sorted; subrounded to rounded; quartz; dusky yellow (5Y 6/4)
120	140	Silty sand, very coarse; poorly sorted; subangular to rounded; quartz, biotite; dusky yellow (5Y 6/4)
140	160	Clayey sand, coarse to very coarse; poorly sorted; subrounded to rounded; quartz; dusky yellow (5Y 6/4)
160	180	Sandy clay, very fine; well-sorted; light olive gray (5Y 5/2)
180	220	Clayey sand, coarse to very coarse; very poorly sorted; subangular to rounded; quartz; dusky yellow (5Y 6/4)
220	240	Clayey sand, coarse to very coarse; very poorly sorted; subrounded to rounded; quartz; dusky yellow (5Y 6/4)
240	260	Clayey sand, coarse to very coarse; very poorly sorted; subangular to rounded; quartz; dusky yellow (5Y 6/4)
260	300	Clayey sand, coarse, with small pebbles; very poorly sorted; subrounded to rounded; quartz; dusky yellow (5Y 6/4)
300	320	Clayey sand, coarse, with small pebbles; very poorly sorted; subangular to rounded; quartz; dusky yellow (5Y 6/4)
320	340	Sand, medium to very coarse; well-sorted; subrounded to rounded; quartz; dusky yellow (5Y 6/4)
340	360	Sand, medium to very coarse; well-sorted; angular to rounded; quartz; dusky yellow (5Y 6/4)
360	380	Clayey sand, coarse; poorly sorted; subrounded to rounded; quartz; dusky yellow (5Y 6/4)
380	400	Bedrock, quartz monzonite, coarse to very coarse; well-sorted; quartz, biotite



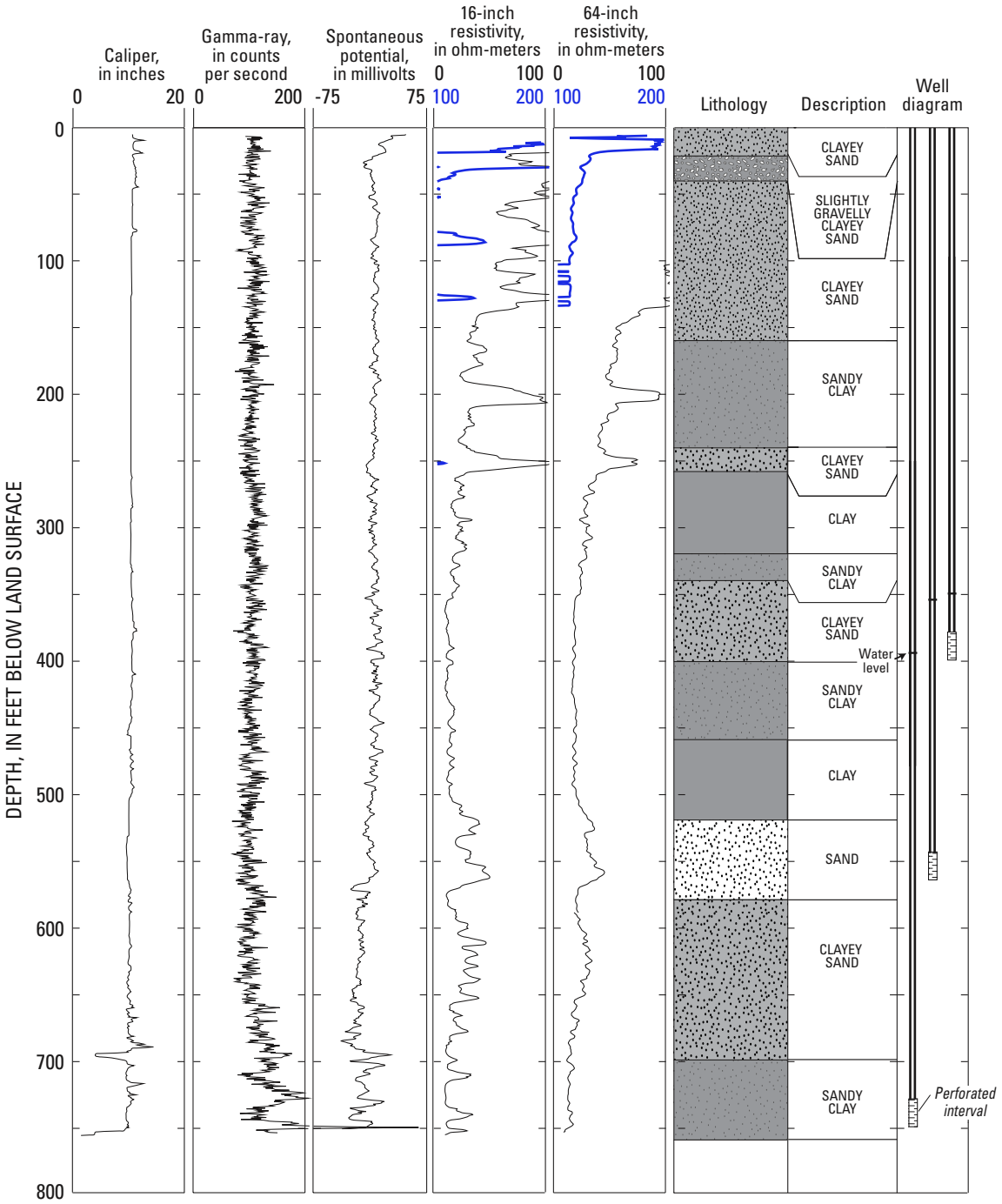
Note: Some lithologic units may have been combined for presentation in this figure and the lithologic description may not correspond exactly to the description in the lithologic log shown in table.

Figure B8. Geophysical logs, lithology, and well diagram for multiple-well monitoring site UN-1 (wells 5N/4W-14D1–4) in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California.

Table B9. Lithologic log for multiple-well monitoring site Phelan-1 (wells 5N/6W-22E1–3) in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California

[Altitude of land surface, approximately 3,260 ft. Depth is in feet below land surface. Soil and rock color notation from Munsell Color (1994). Drilled by U.S. Geological Survey using mud rotary, February 1994. Total depth drilled 758 ft. Screened intervals: 730–750, 545–565, and 380–400 ft]

Depth		Description
From	**To**	
0	20	Sand, fine to medium, with some coarse and some clay; moderately sorted; subrounded; some mafic minerals; moderate yellowish brown (10YR 5/4)
20	40	Sandy clay, with fine to medium sand; occasional granules; light olive gray (5Y 5/2)
40	60	Clayey sand, fine to medium; moderately sorted; subangular to subrounded; light olive gray (5Y 5/2)
60	80	Clayey sand, fine; well-sorted; subrounded; dark yellowish brown (10YR 4/2)
80	120	Clayey sand, fine to coarse; poorly sorted; subrounded; dark yellowish brown (10YR 4/2)
120	160	Clayey sand, fine to medium; moderately sorted; subangular to subrounded; dark yellowish brown (10YR 4/2)
160	240	Sandy clay, fine to medium sand; moderate yellowish brown (10YR 5/4)
240	260	Clayey sand, fine to medium; moderately sorted; subangular to subrounded; moderate yellowish brown (10YR 5/4)
260	320	Clay, moderate yellowish brown (10YR 5/4)
320	340	Sandy clay, with fine to medium sand; moderate yellowish brown (10YR 5/4)
340	400	Clayey sand, fine to medium; moderately sorted; subrounded; moderate yellowish brown (10YR 5/4)
400	460	Clay, with fine-grained sand; moderate yellowish brown (10YR 5/4)
460	520	Clay; moderate yellowish brown (10YR 5/4)
520	540	Sand, fine to medium, moderately sorted; subangular to subrounded; mafic minerals, moderate yellowish brown (10YR 5/4)
540	580	Sand, fine to medium; moderately sorted; subangular to subrounded; moderate yellowish brown (10YR 5/4)
580	700	Clayey sand, fine; well-sorted; subrounded; mafic minerals; moderate yellowish brown (10YR 5/4)
700	758	Sandy clay, with fine-grained sand; moderate yellowish brown (10YR 5/4)



Note: Some lithologic units may have been combined for presentation in this figure and the lithologic description may not correspond exactly to the description in the lithologic log shown in table.

Figure B9. Geophysical logs, lithology, and well diagram for multiple-well monitoring site Phelan-1 (wells 5N/6W-22E1–3) in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California.

Table B10. Water-level data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California

[Measurement method (column M): A, airline; R, reported; S, steel tape; V, calibrated electric tape. Site status (column S): D, dry; F, flowing; S, nearby pumping; T, nearby recently pumped]

State well number 004N003W12A001S
Site identification number 342726117082401
Common name DEL ORO 1 AT 600
In Apple Valley. Drilled observation well. Diameter 2 inches, depth 600 feet, perforated 580–600 feet. Altitude of land-surface datum 3,122 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1994.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Apr 19, 1994	303.22	S	Jun 27, 1995	299.95	V	Aug 22, 1996	300.70	R	Nov 07, 1997	302.67	R
Jun 02	303.17	V	Jul 25	299.91	V	Sep 27	301.12	R	Nov 26	302.37	R
Jun 08	303.41	V	Aug 29	300.00	V	Oct 22	300.97	R	Jan 05, 1998	302.45	R
Jul 26	303.65	V	Sep 25	299.92	V	Nov 27	300.66	R	Jan 30	302.61	R
Aug 23	303.70	V	Oct 30	299.67	V	Jan 03, 1997	300.59	R	Mar 02	302.43	R
Sep 26	303.37	V	Nov 27	299.46	V	Jan 31	300.76	R	Mar 10	299.69	S
Oct 25	302.93	V	Dec 18	299.18	V	Feb 28	300.64	R	Mar 27	302.11	R
Nov 29	302.34	V	Jan 31, 1996	298.93	V	Mar 28	301.18	R	Apr 23	302.20	R
Dec 20	302.03	V	Feb 29	299.21	V	Apr 30	301.52	R	May 26	301.76	R
Jan 24, 1995	301.33	V	Mar 29	299.32	V	May 29	301.82	R	Jun 25	301.65	R
Feb 27	300.92	V	Apr 29	299.82	R	Jul 01	302.35	R	Jul 28	301.45	R
Mar 28	300.35	V	May 29	299.85	R	Jul 31	302.52	R	Aug 24	301.39	R
Apr 25	300.28	V	Jul 03	300.22	R	Sep 02	302.90	R	Sep 26	301.21	R
May 25	300.08	V	Jul 31	300.57	R	Sep 25	302.92	R			

HIGHEST	298.93	Jan 31, 1996
LOWEST	303.70	Aug 23, 1994

State well number 004N003W12A002S
Site identification number 342726117082402
Common name DEL ORO 1 AT 345
In Apple Valley. Drilled observation well. Diameter 2 inches, depth 345 feet, perforated 325–345 feet. Altitude of land-surface datum 3,122 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1994.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Jul 26, 1994	298.29	V	Aug 29, 1995	298.46	V	Sep 27, 1996	298.32	R	Nov 07, 1997	298.04	R
Aug 23	298.55	V	Sep 25	298.23	V	Oct 22	298.28	R	Nov 26	297.71	R
Sep 26	298.54	V	Oct 30	298.27	V	Nov 27	298.32	R	Jan 05, 1998	298.18	R
Oct 25	298.60	V	Nov 27	298.27	V	Jan 03, 1997	298.02	R	Jan 30	298.29	R
Nov 29	298.76	V	Dec 18	298.20	V	Jan 31	298.12	R	Mar 02	298.28	R
Dec 20	298.64	V	Jan 31, 1996	297.97	V	Feb 28	297.85	R	Mar 10	302.12	S
Jan 24, 1995	298.45	V	Feb 29	298.51	V	Mar 28	298.08	R	Mar 27	298.21	R
Feb 27	298.56	V	Mar 29	298.31	V	Apr 30	298.15	R	Apr 23	298.23	R
Mar 28	298.48	V	Apr 29	298.43	R	May 29	298.01	R	May 26	298.15	R
Apr 25	298.37	V	May 29	298.43	R	Jul 01	298.28	R	Jun 25	298.32	R
May 25	298.42	V	Jul 03	298.01	R	Jul 31	298.16	R	Aug 24	298.30	R
Jun 27	298.43	V	Jul 31	298.04	R	Sep 02	298.33	R	Sep 26	298.47	R
Jul 25	298.33	V	Aug 22	298.07	R	Sep 25	300.25	R			

HIGHEST	297.71	Nov 26, 1997
LOWEST	302.12	Mar 10, 1998

Table B10. Water-level data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

State well number 004N003W12A003S
Site identification number 342726117082403
Common name DEL ORO 1 AT 270
In Apple Valley. Drilled observation well. Diameter 2 inches, depth 270 feet, perforated 250–270 feet. Altitude of land-surface datum 3,122 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1994.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Jul 26, 1994		VD	Apr 25, 1995		VD	Jan 31, 1996		VD	Oct 22, 1996		RD
Aug 23		VD	May 25		VD	Feb 29		VD	Nov 27		RD
Sep 26		VD	Jun 27		VD	Mar 29		VD	Jan 03, 1997		RD
Oct 25		VD	Jul 25		VD	Apr 29		RD	Jan 31		RD
Nov 29		VD	Aug 29		VD	May 27		RD	Feb 28		RD
Dec 20		VD	Sep 25		VD	Jul 03		RD	Mar 28		RD
Jan 24, 1995		VD	Oct 30		VD	Jul 31		RD	Apr 30		RD
Feb 28		VD	Nov 27		VD	Aug 22		RD	Mar 10, 1998		VD
Mar 28		VD	Dec 18		VD	Sep 27		RD			

HIGHEST —
LOWEST —

Table B10. Water-level data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

State well number 004N003W19G002S
Site identification number 342514117134801
Common name RS-1 AT 600
In Hesperia. Drilled observation well. Diameter 2 inches, depth 600 feet, perforated 580–600 feet. Altitude of land-surface datum 2,881 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1993.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Jul 28, 1993	59.20	V	Oct 25, 1994	63.81	RS	Nov 27, 1995	58.68	RS	Sep 02, 1997	68.35	S
Aug 27	61.07	V	Oct 31	63.32	VS	Dec 18	58.92	R	Sep 25	68.70	S
Sep 24	62.85	V	Nov 07	62.94	VS	Jan 31, 1996	60.28	R	Oct 10	69.23	S
Oct 20	63.55	V	Nov 08	63.20	S	Feb 29	59.90	R	Oct 14	69.24	S
Nov 16	64.19	V	Nov 17	62.68	VS	Mar 29	57.24	R	Oct 28	69.41	S
Dec 21	69.47	V	Nov 22	62.76	V	Apr 29	58.85	R	Nov 07	69.59	S
Jan 26, 1994	65.00	V	Nov 29	62.69	R	May 29	59.87	R	Nov 18	69.57	S
Mar 08	63.56	V	Nov 30	62.69	V	Jul 03	60.91	R	Nov 25	69.21	S
Apr 11	62.69	V	Dec 06	62.63	V	Jul 31	62.62	R	Dec 02	68.84	S
Jun 08	64.27	V	Dec 12	62.52	V	Aug 22	63.50	R	Dec 22	68.28	S
Jul 13	65.71	RS	Dec 20	62.68	R	Sep 27	65.07	RS	Dec 31	68.58	S
Jul 18	66.36	RS	Dec 28	62.14	V	Oct 16	65.58	S	Jan 08, 1998	68.77	S
Jul 26	66.19	RS	Jan 05, 1995	61.83	V	Nov 25	66.32	S	Jan 16	69.01	S
Aug 02	66.62	VS	Jan 24	59.98	R	May 07, 1997	64.67	S	Jan 20	69.10	S
Aug 08	66.47	VS	Jan 31	59.28	V	May 13	64.78	S	Jan 27	69.32	S
Aug 16	66.06	VS	Feb 09	58.30	V	May 20	65.19	S	Feb 17	67.58	S
Aug 23	65.96	RS	Feb 16	57.49	V	May 30	65.53	S	Mar 02	65.50	S
Aug 30	65.47	VS	Feb 28	56.30	R	Jun 25	66.41	S	Mar 11	64.38	S
Sep 07	65.25	VS	Mar 30	53.25	R	Jul 03	66.73	S	Mar 25	62.08	S
Sep 13	65.20	VS	Apr 25	52.21	R	Jul 10	66.84	S	Apr 10	59.70	S
Sep 20	64.63	VS	May 30	50.88	R	Jul 22	67.52	S	Apr 29	58.12	S
Sep 26	64.74	RS	Jun 27	51.68	RS	Jul 28	67.43	S	May 19	55.86	S
Sep 28	64.74	VS	Jul 25	52.74	RS	Aug 08	67.74	S	Jun 04	54.66	S
Oct 03	64.62	VS	Aug 28	54.59	RS	Aug 12	67.68	S	Jul 27	54.94	S
Oct 10	64.02	VS	Sep 25	55.88	RS	Aug 19	67.80	S	Sep 30	58.39	S
Oct 17	64.07	VS	Oct 30	57.24	R	Aug 26	68.08	S			

HIGHEST	50.88	May 30, 1995
LOWEST	69.59	Nov 07, 1997

Table B10. Water-level data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

State well number 004N003W19G003S
Site identification number 342514117134802
Common name RS-1 AT 375
In Hesperia. Drilled observation well. Diameter 2 inches, depth measured 374 feet in 1996, perforated 355–375 feet. Altitude of land-surface datum 2,881 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1993.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Jul 28, 1993	59.55	V	Oct 17, 1994	64.18	VS	Oct 30, 1995	57.75	R	Sep 02, 1997	68.76	S
Aug 27	61.52	V	Oct 25	63.89	RS	Nov 27	58.98	RS	Sep 25	69.12	S
Sep 24	63.37	V	Oct 31	63.77	VS	Dec 18	59.28	R	Oct 10	69.68	S
Oct 20	63.95	V	Nov 07	63.03	VS	Jan 31, 1996	60.57	R	Oct 14	69.65	S
Nov 16	64.57	V	Nov 08	63.15	S	Feb 29	60.14	R	Oct 28	69.82	S
Dec 21	65.07	V	Nov 17	62.73	VS	Mar 29	58.51	R	Nov 07	70.00	S
Jan 26, 1994	65.48	V	Nov 22	62.84	V	Apr 29	59.21	R	Nov 18	69.98	S
Jan 28	65.56	V	Nov 29	62.72	R	May 29	60.23	R	Nov 25	69.57	S
Mar 08	64.02	V	Nov 30	62.72	V	Jul 03	61.26	R	Dec 02	69.18	S
Apr 11	63.14	V	Dec 06	62.73	V	Jul 31	63.03	R	Dec 22	68.54	S
Jun 08	64.80	V	Dec 12	62.58	V	Aug 22	63.88	R	Dec 31	68.83	S
Jul 13	66.29	RS	Dec 20	62.49	R	Sep 27	65.45	R	Jan 08, 1998	69.08	S
Jul 18	66.94	RS	Dec 28	62.03	V	Oct 16	65.94	S	Jan 16	69.34	S
Jul 26	66.75	RS	Jan 05, 1995	61.82	V	Nov 25	66.78	S	Jan 20	69.43	S
Aug 02	67.20	VS	Jan 24	59.96	R	May 07, 1997	65.20	S	Jan 27	69.69	S
Aug 08	66.93	VS	Jan 31	59.28	V	May 13	65.28	S	Feb 17	67.87	S
Aug 16	66.42	VS	Feb 09	58.36	V	May 20	65.69	S	Mar 02	65.71	S
Aug 23	66.30	RT	Feb 16	57.53	V	May 30	66.02	S	Mar 11	64.58	S
Aug 26	64.89	VS	Feb 28	56.35	R	Jun 25	66.92	S	Mar 25	62.21	S
Aug 30	65.73	VS	Mar 30	53.27	R	Jul 03	67.21	S	Apr 10	59.81	S
Sep 07	65.44	VS	Apr 24	52.29	V	Jul 10	67.33	S	Apr 29	58.20	S
Sep 13	65.49	VS	Apr 25	52.29	R	Jul 22	67.98	S	May 19	55.99	S
Sep 20	64.82	VS	May 30	50.97	R	Jul 28	67.91	S	Jun 04	54.77	S
Sep 26	64.89	RS	Jun 27	51.82	RS	Aug 08	68.22	S	Jul 27	55.21	S
Sep 28	64.89	VS	Jul 25	53.01	RS	Aug 12	68.10	S	Sep 30	58.80	S
Oct 03	64.76	VS	Aug 28	54.87	R	Aug 19	68.20	S			
Oct 10	64.17	VS	Sep 25	56.18	RS	Aug 26	68.49	S			

HIGHEST	50.97	May 30, 1995
LOWEST	70.00	Nov 07, 1997

Table B10. Water-level data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

State well number 004N003W19G004S
Site identification number 342514117134803
Common name RS-1 AT 195
In Hesperia. Drilled observation well. Diameter 2 inches, depth measured 189.8 feet in 1996, perforated 175–195 feet. Altitude of land-surface datum 2,881 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1993.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Jul 28, 1993	57.32	V	Oct 17, 1994	60.67	VS	Oct 30, 1995	56.36	R	Sep 02, 1997	67.74	S
Aug 27	60.05	V	Oct 25	60.13	RS	Nov 27	58.21	RS	Sep 25	68.25	S
Sep 24	62.85	V	Oct 31	58.95	VS	Dec 18	58.62	R	Oct 10	69.05	S
Oct 20	63.25	V	Nov 07	59.18	VS	Jan 31, 1996	60.04	R	Oct 14	68.92	S
Nov 16	64.07	V	Nov 08	58.25	S	Feb 29	58.18	R	Oct 28	69.12	S
Dec 21	65.02	V	Nov 17	58.71	VS	Mar 29	56.48	R	Nov 07	69.34	S
Jan 26, 1994	65.59	V	Nov 22	59.75	V	Apr 29	57.96	R	Nov 18	69.06	S
Jan 28	65.69	V	Nov 29	58.88	R	May 29	59.70	R	Nov 25	68.19	S
Mar 08	63.31	V	Nov 30	59.15	V	Jul 03	60.89	R	Dec 02	67.46	S
Apr 11	62.18	V	Dec 06	59.09	V	Jul 31	62.67	R	Dec 22	66.24	S
Jun 08	64.76	V	Dec 12	58.73	V	Aug 22	63.45	R	Dec 31	66.86	S
Jul 13	66.33	RS	Dec 20	58.23	R	Sep 27	65.22	RS	Jan 08, 1998	67.47	S
Jul 18	66.97	RS	Dec 28	57.72	V	Nov 25	66.67	S	Jan 16	68.03	S
Jul 26	66.54	RS	Jan 05, 1995	57.81	V	May 07, 1997	64.78	S	Jan 20	68.24	S
Aug 02	67.08	VS	Jan 24	55.46	R	May 13	64.76	S	Jan 27	68.80	S
Aug 08	66.67	VS	Jan 31	54.42	V	May 20	65.22	S	Feb 17	65.58	S
Aug 16	64.98	VS	Feb 09	53.48	V	May 30	65.56	S	Mar 02	62.16	S
Aug 23	64.30	RS	Feb 16	52.61	V	Jun 25	66.41	S	Mar 11	60.58	S
Aug 30	63.15	VS	Feb 28	51.31	R	Jul 03	66.68	S	Mar 25	57.68	S
Sep 07	62.46	VS	Mar 30	48.01	R	Jul 10	66.81	S	Apr 10	54.88	S
Sep 13	62.55	VS	Apr 25	47.12	R	Jul 22	67.44	S	Apr 29	53.23	S
Sep 20	61.82	VS	May 30	41.12	R	Jul 28	67.47	S	May 19	50.77	S
Sep 26	61.72	RS	Jun 27	48.35	RS	Aug 08	67.47	S	Jun 04	49.38	S
Sep 28	61.72	VS	Jul 25	50.44	RS	Aug 12	67.01	S	Jul 27	52.45	S
Oct 03	61.31	VS	Aug 28	52.80	R	Aug 19	67.35	S	Jul 27	52.46	S
Oct 10	60.67	VS	Sep 25	54.32	RS	Aug 26	67.51	S	Sep 30	57.69	S

HIGHEST	41.12	May 30, 1995
LOWEST	69.34	Nov 07, 1997

Table B10. Water-level data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

State well number 004N003W19G005S
Site identification number 342514117134804
Common name RS-1 AT 95
In Hesperia. Drilled observation well. Diameter 2 inches, depth measured 88.8 feet in 1996, perforated 75–95 feet. Altitude of land-surface datum 2,881 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1993.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Jul 28, 1993	45.00	V	Nov 07, 1994	35.88	VS	Feb 29, 1996	44.20	R	Sep 25, 1997	61.84	S
Aug 27	50.70	V	Nov 08	36.19	S	Mar 29	43.00	R	Oct 10	65.08	S
Sep 24	54.75	V	Nov 17	36.04	VS	Apr 29	50.22	R	Oct 14	65.22	S
Oct 20	57.67	V	Nov 22	35.91	V	May 29	51.73	R	Oct 28	65.65	S
Nov 16	59.85	V	Nov 29	38.06	R	Jul 03	56.53	R	Nov 07	65.94	S
Dec 21	62.40	V	Nov 30	38.06	V	Jul 31	58.63	R	Nov 18	65.36	S
Jan 26, 1994	64.02	V	Dec 06	39.60	V	Aug 22	59.92	R	Nov 25	61.17	S
Mar 08	56.73	V	Dec 12	37.92	V	Sep 27	62.02	R	Dec 02	57.84	S
Apr 11	54.23	V	Dec 20	36.58	R	Oct 16	63.07	S	Dec 22	52.80	S
Jun 08	61.77	V	Dec 28	35.79	V	Oct 17	63.11	S	Dec 31	55.77	S
Jul 13	63.89	RS	Jan 05, 1995	36.12	V	Nov 25	65.16	S	Jan 08, 1998	58.81	S
Jul 18	64.15	RS	Jan 24	33.60	R	Feb 21, 1997	46.02	S	Jan 16	60.99	S
Jul 26	63.56	RS	Jan 31	30.38	V	Apr 10	58.74	S	Jan 20	61.90	S
Aug 02	63.52	VS	Feb 09	29.62	V	May 07	60.94	S	Jan 27	63.20	S
Aug 08	63.71	VS	Feb 16	28.53	V	May 13	61.47	S	Feb 17	50.29	S
Aug 16	52.89	VS	Feb 28	27.07	R	May 20	62.03	S	Mar 02	40.40	S
Aug 23	46.63	RT	Mar 30	22.14	R	May 30	62.52	S	Mar 11	38.01	S
Aug 30	42.70	VS	Apr 25	21.63	R	Jun 25	63.46	S	Mar 19	35.25	S
Sep 07	41.92	VS	May 30	22.76	R	Jul 03	63.56	S	Mar 25	33.38	S
Sep 13	41.73	VS	Jun 27	31.12	RS	Jul 10	63.67	S	Apr 10	29.37	S
Sep 20	40.97	VS	Jul 25	36.97	RS	Jul 22	64.04	S	Apr 21	27.54	S
Sep 26	42.73	RS	Aug 28	41.21	R	Jul 28	64.22	S	Apr 29	26.50	S
Sep 28	42.73	VS	Sep 25	44.23	RS	Aug 08	63.11	S	May 19	23.95	S
Oct 03	38.59	VS	Oct 30	49.23	R	Aug 12	61.51	S	Jun 04	22.68	S
Oct 10	37.98	VS	Nov 27	52.96	RS	Aug 19	60.88	S	Jul 27	37.95	S
Oct 17	38.57	VS	Dec 18	54.18	R	Aug 26	61.16	S	Jul 27	37.96	S
Oct 25	37.13	RS	Jan 31, 1996	56.20	R	Sep 02	61.96	S	Sep 30	51.13	S
Oct 31	37.06	VS									

HIGHEST	21.63	Apr 25, 1995
LOWEST	65.94	Nov 07, 1997

Table B10. Water-level data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

State well number 004N003W19G006S
Site identification number 342514117134805
Common name RS-1 AT 55
In Hesperia. Drilled observation well. Diameter 2 inches, depth measured 55.4 feet in 1996, perforated 45–55 feet. Altitude of land-surface datum 2,881 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1993.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Jul 28, 1993	43.96	V	Oct 25, 1994	33.94	RS	Nov 27, 1995	52.39	RS	Sep 02, 1997		SD
Aug 27	49.96	V	Oct 31	33.83	VS	Dec 18	53.60	R	Sep 25		SD
Sep 24	54.22	V	Nov 07	32.64	VS	Jan 31, 1996	55.20	R	Oct 10		D
Oct 20		VD	Nov 08	33.24	S	Feb 29	41.06	R	Oct 14		D
Nov 16		VD	Nov 17	33.35	VS	Mar 29	40.94	R	Oct 28		D
Dec 21		VD	Nov 22	33.20	V	Apr 29	49.17	R	Nov 07		D
Jan 26, 1994	54.99	V	Nov 29	35.55	R	May 29	49.96	R	Nov 18		SD
Mar 08		VD	Nov 30	35.55	V	Jul 03	55.19	R	Nov 25		SD
Apr 11	52.34	V	Dec 06	37.25	V	Jul 31	55.23	R	Dec 02	53.92	S
Jun 08	55.03	V	Dec 12	35.40	V	Aug 22	55.26	R	Dec 22	48.61	S
Jul 13	54.98	RS	Dec 20	33.90	R	Sep 27	55.28	RS	Dec 31	58.38	S
Jul 18	54.99	RS	Dec 28	33.10	V	Oct 16		SD	Jan 08, 1998		SD
Jul 26	55.02	RS	Jan 05, 1995	33.39	V	May 07, 1997		SD	Jan 16		SD
Aug 02	55.03	VS	Jan 25	30.98	R	May 13		SD	Jan 20		SD
Aug 08	55.03	VS	Jan 31	27.28	V	May 20		SD	Jan 27		SD
Aug 16	49.35	VS	Feb 09	26.67	V	May 30		SD	Feb 17	46.01	S
Aug 23	46.63	RT	Feb 16	25.68	V	Jun 25		SD	Mar 02	34.78	S
Aug 30	38.02	VS	Feb 28	24.07	R	Jul 03		SD	Mar 11	32.87	S
Sep 07	37.49	VS	Mar 30	19.46	R	Jul 10		SD	Mar 25	28.63	S
Sep 13	37.87	VS	Apr 25	18.98	R	Jul 22		SD	Apr 10	24.74	S
Sep 20	37.28	VS	May 30	20.59	R	Jul 28		SD	Apr 29	22.16	S
Sep 26	35.93	RS	Jun 27	29.76	RS	Aug 08		SD	May 19	19.83	S
Sep 28	35.93	VS	Jul 25	35.85	RS	Aug 12		SD	Jun 04	18.85	S
Oct 03	34.86	VS	Aug 28	40.12	R	Aug 19		SD	Jul 27	36.44	S
Oct 10	34.36	VS	Sep 25	43.25	RS	Aug 26		SD	Sep 30	50.45	S
Oct 17	35.22	VS	Oct 30	48.54	R						

HIGHEST	18.85	Jun 04, 1998
LOWEST	55.26	Aug 22, 1996

Table B10. Water-level data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

State well number 004N003W31L006S
Site identification number 342318117141101
Common name DEEP CR AT 550
In Hesperia. Drilled observation well. Diameter 2 inches, depth 550 feet, perforated 530–550 feet. Altitude of land-surface datum 2,922 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1992.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Jun 09, 1992	41.96	V	Sep 26, 1994	42.15	R	Feb 29, 1996	37.76	R	Jul 01, 1997	41.35	R
Jun 17	42.04	V	Oct 25	44.33	R	Mar 29	34.00	R	Jul 31	43.82	R
Oct 06	50.96	V	Nov 29	46.59	R	Apr 29	32.53	R	Sep 02	45.94	R
Dec 30	50.04	V	Dec 20	47.68	R	May 17	32.85	V	Sep 25	47.63	R
Jan 12, 1993	45.89	V	Jan 24, 1995	39.88	R	May 29	33.53	R	Nov 07	50.08	R
Jul 27	33.87	V	Feb 27	34.11	R	Jul 03	36.44	R	Nov 26	51.26	R
Aug 27	36.41	V	Mar 28	31.53	R	Jul 31	39.06	R	Jan 05, 1998	51.25	R
Sep 24	38.72	V	Apr 25	30.47	R	Aug 22	40.90	R	Jan 30	47.83	R
Oct 20	37.93	V	May 25	29.68	R	Sep 27	44.81	R	Mar 02	40.81	R
Nov 16	35.95	V	Jun 27	29.12	R	Oct 22	45.64	R	Mar 27	37.71	R
Dec 21	33.35	V	Jul 25	30.25	R	Nov 27	47.30	R	Apr 23	35.53	R
Jan 25, 1994	34.66	V	Aug 29	33.15	R	Jan 03, 1997	43.01	R	May 26	33.70	R
Mar 11	31.71	V	Sep 25	35.26	R	Jan 31	37.95	R	Jun 25	32.69	R
Apr 11	30.93	V	Oct 30	37.94	R	Feb 27	35.35	R	Jul 27	32.53	R
Jun 08	31.88	V	Nov 27	39.97	R	Mar 28	35.23	R	Aug 24	34.21	R
Jul 26	36.72	R	Dec 18	40.97	R	Apr 30	36.52	R	Sep 26	36.65	R
Aug 23	39.38	R	Jan 31, 1996	43.06	R	May 29	38.53	R			

HIGHEST	29.12	Jun 27, 1995
LOWEST	51.26	Nov 26, 1997

Table B10. Water-level data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

State well number 004N003W31L007S
Site identification number 342318117141102
Common name DEEP CR AT 380
In Hesperia. Drilled observation well. Diameter 2 inches, depth measured 381.2 feet in 1996, perforated 360–380 feet. Altitude of land-surface datum 2,922 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1992.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Jun 09, 1992	47.96	V	Sep 26, 1994	52.72	R	Feb 29, 1996	47.57	R	Jul 01, 1997	54.40	R
Jun 17	48.55	V	Oct 25	54.93	R	Mar 29	41.20	R	Jul 31	54.93	R
Oct 06	60.74	V	Nov 29	57.09	R	Apr 29	40.00	R	Sep 02	60.01	R
Dec 30	60.80	V	Dec 20	58.23	R	May 17	41.08	V	Sep 25	61.76	R
Jan 12, 1993	53.39	V	Jan 24, 1995	47.31	R	May 29	42.44	R	Nov 07	64.17	R
Jul 27	41.18	V	Feb 27	40.49	R	Jul 03	46.26	R	Nov 26	62.55	R
Aug 27	44.78	V	Mar 28	37.72	R	Jul 31	49.28	R	Jan 05, 1998	63.01	R
Sep 24	47.19	V	Apr 25	36.63	R	Aug 22	51.31	R	Jan 30	59.98	R
Oct 20	48.11	V	May 25	35.85	R	Sep 27	54.58	R	Mar 02	48.79	R
Nov 16	45.20	V	Jun 27	35.52	R	Oct 22	56.38	R	Mar 27	43.30	R
Dec 21	40.95	V	Jul 25	37.88	R	Nov 27	58.17	R	Apr 23	41.03	R
Jan 25, 1994	43.92	V	Aug 29	41.85	R	Jan 03, 1997	53.52	R	May 26	40.29	R
Mar 11	39.11	V	Sep 25	44.42	R	Jan 31	45.92	R	Jun 25	39.27	R
Apr 11	38.12	V	Oct 30	47.57	R	Feb 27	44.00	R	Jul 28	39.87	R
Jun 08	40.68	V	Nov 27	49.82	R	Mar 28	43.77	R	Aug 24	42.56	R
Jul 26, 1994	46.72	R	Dec 18, 1995	51.10	R	Apr 30, 1997	46.43	R	Sep 26, 1998	45.90	R
Aug 23	49.74	R	Jan 31, 1996	52.08	R	May 29	49.10	R			

HIGHEST	35.52	Jun 27, 1995
LOWEST	64.17	Nov 07, 1997

Table B10. Water-level data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

State well number 004N003W31L008S
Site identification number 342318117141103
Common name DEEP CR AT 260
In Hesperia. Drilled observation well. Diameter 2 inches, depth measured 260.3 feet in 1996, perforated 240–260 feet. Altitude of land-surface datum 2,922 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1992.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Jun 09, 1992	47.80	V	Sep 26, 1994	54.81	R	Feb 29, 1996	48.68	R	Jul 01, 1997	54.51	R
Jun 17	48.74	V	Oct 25	57.03	R	Mar 29	41.74	R	Jul 31	57.29	R
Oct 06	62.35	V	Nov 29	59.27	R	Apr 29	40.82	R	Sep 02	59.90	R
Dec 30	63.07	V	Dec 20	60.44	R	May 17	42.29	V	Sep 25	61.62	R
Jan 12, 1993	53.77	V	Jan 24, 1995	47.66	R	May 29	43.96	R	Nov 07	64.00	R
Jul 27	41.99	V	Feb 27	40.62	R	Jul 03	48.12	R	Nov 26	65.06	R
Aug 27	46.02	V	Mar 28	37.91	R	Jul 31	51.29	R	Jan 05, 1998	65.66	R
Sep 24	49.40	V	Apr 25	36.92	R	Aug 22	53.45	R	Jan 30	62.83	R
Oct 20	49.91	V	May 25	36.24	R	Sep 27	56.83	R	Mar 02	49.25	R
Nov 16	46.81	V	Jun 27	34.76	R	Oct 22	58.60	R	Mar 27	45.13	R
Dec 21	41.86	V	Jul 25	39.01	R	Nov 27	60.52	R	Apr 23	42.75	R
Jan 25, 1994	45.34	V	Aug 29	41.38	R	Jan 03, 1997	55.61	R	May 26	40.75	R
Mar 11	39.64	V	Sep 25	46.13	R	Jan 31	46.56	R	Jun 25	38.41	R
Apr 11	38.58	V	Oct 30	49.46	R	Feb 27	43.74	R	Jul 28	40.87	R
Jun 08	42.02	V	Nov 27	51.82	R	Mar 28	45.12	R	Aug 24	43.93	R
Jul 26	48.58	R	Dec 18	53.23	R	Apr 30	48.31	R	Sep 26	47.70	R
Aug 23	51.74	R	Jan 31, 1996	55.92	R	May 29	51.17	R			

HIGHEST	34.76	Jun 27, 1995
LOWEST	65.66	Jan 05, 1998

Table B10. Water-level data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

State well number 004N003W31L009S
Site identification number 342318117141104
Common name DEEP CR AT 140
In Hesperia. Drilled observation well. Diameter 2 inches, depth measured 141.1 feet in 1996, perforated 120–140 feet. Altitude of land-surface datum 2,922 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1992.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Jun 09, 1992	45.72	V	Jul 26, 1994	48.20	R	Oct 30, 1995	49.31	R	Jan 03, 1997	55.23	R
Jun 17	47.00	V	Aug 23	51.51	R	Nov 27	51.82	R	Jan 31	44.92	R
Oct 06	61.91	V	Sep 26	54.71	R	Dec 18	53.21	R	Feb 27	42.25	R
Dec 30	62.94	V	Oct 25	56.98	R	Jan 31, 1996	56.08	R	Mar 28	44.20	R
Jan 12, 1993	51.64	V	Nov 29	60.30	R	Feb 29	47.59	R	Apr 30	47.81	R
Jul 27	40.95	V	Dec 20	60.50	R	Mar 29	40.23	R	May 29	50.90	R
Aug 27	45.31	V	Jan 24, 1995	45.86	R	Apr 29	39.55	R	Jan 30, 1998	63.98	R
Sep 24	48.88	V	Feb 27	38.73	R	May 17	41.40	V	Mar 02	47.32	R
Oct 20	49.72	V	Mar 28	36.22	R	May 29	42.45	R	Mar 27	43.30	R
Nov 16	46.18	V	Apr 25	35.36	R	Jul 03	47.81	R	Apr 23	41.03	R
Dec 21	40.30	V	May 25	34.80	R	Jul 31	51.10	R	May 26	39.23	R
Jan 25, 1994	44.53	V	Jun 27	36.06	R	Aug 22	53.37	R	Jun 25	39.80	R
Mar 11	38.04	V	Jul 25	38.24	R	Sep 27	56.85	R	Jul 28	39.82	R
Apr 11	36.99	V	Aug 29	42.57	R	Oct 22	58.67	R	Aug 24	43.26	R
Jun 08	41.18	V	Sep 25	45.83	R	Nov 27	60.65	R	Sep 26	47.31	R

HIGHEST	34.80	May 25, 1995
LOWEST	63.98	Jan 30, 1998

Table B10. Water-level data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

State well number 004N004W01C002S
Site identification number 342814117150501
Common name JR-1 AT 620
In Hesperia. Drilled observation well. Diameter 2 inches, depth 620 feet, perforated 600–620 feet. Altitude of land-surface datum 2,818 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1992.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Jun 10, 1992	28.59	V	Jun 08, 1994	20.13	V	Nov 27, 1995	14.65	R	May 29, 1997	19.11	R
Jul 02	26.90	V	Jul 26	21.38	R	Dec 18	14.81	R	Jul 01	20.11	R
Oct 06	29.75	V	Aug 23	22.03	R	Jan 31, 1996	14.76	R	Jul 31	21.43	R
Nov 19	29.95	V	Sep 26	21.87	R	Feb 29	15.07	R	Sep 02	22.36	R
Dec 11	28.80	V	Oct 25	21.51	R	Mar 28	14.61	R	Sep 25	22.63	R
Jan 13, 1993	27.75	V	Nov 08	21.14	S	Apr 29	14.67	R	Nov 07	22.75	R
Jan 20	27.63	V	Nov 29	20.38	R	May 29	15.19	R	Nov 26	22.62	R
Feb 19	25.85	V	Dec 20	19.83	R	Jul 03	16.17	R	Dec 06	22.37	R
Mar 21	21.53	V	Jan 11, 1995	18.11	V	Jul 31	17.16	R	Jan 05, 1998	22.10	R
May 19	17.88	V	Jan 24	18.18	R	Aug 22	17.84	R	Jan 30	22.00	R
Jul 28	17.87	V	Feb 27	15.93	R	Sep 27	18.77	R	Mar 02	20.47	R
Aug 27	18.61	V	Mar 30	15.89	R	Oct 22	19.34	R	Mar 27	18.94	R
Sep 24	19.40	V	Apr 25	12.57	R	Nov 27	19.28	R	Apr 23	16.94	R
Oct 20	19.70	V	May 25	11.78	R	Dec 03	19.26	S	May 26	14.96	R
Nov 16	19.86	V	Jun 27	11.46	R	Jan 03, 1997	19.31	R	Jun 25	14.03	R
Dec 21	20.02	V	Jul 25	12.08	R	Jan 31	19.05	R	Jul 28	14.20	R
Jan 25, 1994	19.55	V	Aug 29	13.10	R	Feb 27	18.27	R	Aug 24	14.68	R
Mar 11	18.98	V	Sep 25	13.62	R	Mar 28	18.10	R	Sep 26	14.90	R
Apr 11	18.84	V	Oct 30	14.08	R	Apr 30	18.29	R			

HIGHEST	11.46	Jun 27, 1995
LOWEST	29.95	Nov 19, 1992

Table B10. Water-level data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

State well number 004N004W01C003S
Site identification number 342814117150502
Common name JR-1 AT 330
In Hesperia. Drilled observation well. Diameter 2 inches, depth measured 328.5 feet in 1996, perforated 310–330 feet. Altitude of land-surface datum 2,818 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1992.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Jun 10, 1992	53.38	V	Jul 26, 1994	47.68	R	Dec 18, 1995	36.65	R	May 29, 1997	45.83	R
Jul 02	50.13	V	Aug 23	51.43	R	Jan 31, 1996	36.54	R	Jul 01	46.29	R
Oct 06	51.76	V	Sep 26	47.79	R	Feb 29	37.91	R	Jul 31	46.91	R
Nov 19	53.40	V	Oct 25	48.02	R	Mar 28	37.63	R	Sep 02	48.63	R
Dec 11	50.94	V	Nov 08	46.85	S	Apr 29	37.85	R	Sep 25	45.89	R
Jan 13, 1993	49.85	V	Nov 29	45.33	R	May 29	38.73	R	Nov 07	44.41	R
Jan 20	47.50	V	Dec 20	44.39	R	Jul 03	42.02	R	Nov 26	43.15	R
Feb 12	43.38	V	Jan 24, 1995	41.27	R	Jul 31	43.70	R	Dec 06	41.99	R
Mar 21	39.38	V	Feb 27	37.97	R	Aug 22	42.60	R	Jan 05, 1998	41.31	R
May 19	43.01	V	Mar 30	36.24	R	Sep 27	43.77	R	Jan 30	41.32	R
Jul 28	47.37	V	Apr 25	37.26	R	Oct 22	43.86	R	Mar 02	38.50	R
Aug 27	48.08	V	May 25	35.03	R	Nov 27	39.69	R	Mar 27	36.80	R
Sep 24	47.20	V	Jun 27	37.56	R	Dec 03	40.69	S	Apr 23	36.73	R
Oct 20	47.98	V	Jul 25	40.73	R	Jan 03, 1997	40.00	R	May 26	36.13	R
Nov 16	46.86	V	Aug 29	40.46	R	Jan 31	41.41	R	Jun 25	39.67	R
Jan 25, 1994	40.58	V	Sep 25	39.95	R	Feb 27	41.97	R	Jul 28	41.90	R
Mar 11	44.50	V	Oct 30	38.08	R	Mar 28	41.55	R	Aug 24	43.35	R
Apr 11	42.34	V	Nov 27	39.80	R	Apr 30	43.21	R	Sep 26	39.30	R
Jun 08	47.60	V									

HIGHEST	35.03	May 25, 1995
LOWEST	53.40	Nov 19, 1992

Table B10. Water-level data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

State well number 004N004W01C004S
Site identification number 342814117150503
Common name JR-1 AT 190
In Hesperia. Drilled observation well. Diameter 2 inches, depth measured 192.7 feet in 1996, perforated 170–190 feet. Altitude of land-surface datum 2,818 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1992.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Jun 10, 1992	50.20	V	Jun 08, 1994	45.07	V	Dec 18, 1995	36.03	R	May 29, 1997	43.62	R
Jul 02	54.20	V	Jul 26	45.52	R	Jan 31, 1996	34.34	R	Jul 01	44.38	R
Oct 06	55.13	V	Aug 23	48.67	R	Feb 29	35.41	R	Jul 31	45.50	R
Nov 19	55.90	V	Sep 26	45.95	R	Mar 28	35.95	R	Sep 02	47.00	R
Dec 11	53.60	V	Oct 25	46.17	R	Apr 29	36.65	R	Sep 25	44.87	R
Jan 13, 1993	45.94	V	Nov 29	45.88	R	May 29	37.68	R	Nov 07	44.15	R
Jan 20	44.29	V	Dec 20	42.93	R	Jul 03	40.39	R	Nov 26	42.66	R
Feb 12	40.55	V	Jan 24, 1995	39.37	R	Jul 31	41.73	R	Dec 06	44.87	R
Mar 21	36.42	V	Feb 27	35.56	R	Aug 22	41.21	R	Jan 05, 1998	41.21	R
May 19	39.33	V	Mar 30	33.52	R	Sep 27	42.33	R	Jan 30	41.28	R
Jul 28	43.57	V	Apr 25	34.12	R	Oct 22	42.19	R	Mar 02	37.50	R
Aug 27	44.49	V	May 25	33.05	R	Nov 27	39.40	R	Mar 27	35.12	R
Sep 24	44.15	V	Jun 27	35.42	R	Dec 03	40.01	S	Apr 23	35.04	R
Oct 20	44.75	V	Jul 25	38.11	R	Jan 03, 1997	39.43	R	May 26	33.66	R
Nov 16	43.93	V	Aug 29	38.47	R	Jan 31	39.63	R	Jun 25	37.23	R
Dec 21	44.53	V	Sep 25	38.28	R	Feb 27	40.10	R	Jul 27	39.44	R
Jan 25, 1994	39.22	V	Oct 30	37.15	R	Mar 28	40.23	R	Aug 24	41.08	R
Mar 11	41.84	V	Nov 27	38.34	R	Apr 30	41.61	R	Sep 26	38.11	R
Apr 11	40.68	V									

HIGHEST	33.05	May 25, 1995
LOWEST	55.90	Nov 19, 1992

Table B10. Water-level data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

State well number 004N004W01C005S
Site identification number 342814117150504
Common name JR-1 AT 80
In Hesperia. Drilled observation well. Diameter 2 inches, depth measured 81.8 feet in 1996, perforated 60–80 feet. Altitude of land-surface datum 2,818 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1992.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Jun 10, 1992	33.59	V	Jun 08, 1994	36.44	V	Dec 18, 1995	32.31	R	Jul 01, 1997	37.22	R
Jul 02	35.15	V	Jul 26	37.74	R	Jan 31, 1996	32.83	R	Jul 31	37.97	R
Oct 06	38.47	V	Aug 23	38.65	R	Feb 29	27.00	R	Sep 02	38.87	R
Nov 19	39.25	V	Sep 26	39.36	R	Mar 28	28.24	R	Sep 25	39.28	R
Dec 11	39.85	V	Oct 25	39.65	R	Apr 29	30.07	R	Nov 07	39.45	R
Jan 18, 1993	22.12	V	Nov 08	38.60	S	May 29	31.42	R	Nov 26	39.46	R
Jan 20	18.02	V	Nov 29	39.04	R	Jul 03	32.74	R	Dec 06	38.85	R
Feb 12	16.21	V	Dec 20	38.45	R	Jul 31	33.78	R	Jan 05, 1998	38.90	R
Mar 21	16.10	V	Jan 24, 1995	28.17	R	Aug 22	34.53	R	Jan 30	38.66	R
May 19	22.44	V	Feb 27	17.56	R	Sep 27	35.51	R	Mar 02	19.85	R
Jul 28	29.32	V	Mar 30	16.09	R	Oct 22	36.11	R	Mar 27	17.48	R
Aug 27	31.42	V	Apr 25	16.24	R	Nov 27	36.54	R	Apr 23	16.35	R
Sep 24	32.67	V	May 25	23.29	R	Dec 03	36.54	S	May 26	15.99	R
Oct 20	33.30	V	Jun 27	26.25	R	Jan 03, 1997	36.49	R	Jun 25	22.04	R
Nov 16	33.15	V	Jul 25	28.10	R	Jan 31	29.47	R	Jul 27	26.21	R
Dec 21	32.90	V	Aug 29	28.89	R	Feb 27	33.49	R	Aug 24	28.25	R
Jan 25, 1994	33.55	V	Sep 25	30.95	R	Mar 28	34.43	R	Sep 26	29.84	R
Mar 11	34.35	V	Oct 30	31.95	R	Apr 30	35.35	R			
Apr 11	35.26	V	Nov 27	32.53	R	May 29	36.31	R			

HIGHEST	15.99	May 26, 1998
LOWEST	39.85	Dec 11, 1992

Table B10. Water-level data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

State well number 004N004W03A002S
Site identification number 342805117164501
Common name SF-1 AT 790
In Hesperia. Drilled observation well. Diameter 2 inches, depth 790 feet, perforated 770–790 feet. Altitude of land-surface datum 2,983 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1994.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Jan 26, 1994	186.82	V	May 25, 1995	176.95	V	Jul 03, 1996	180.21	R	Sep 02, 1997	185.72	R
Mar 09	183.01	V	Jun 07	176.90	V	Jul 31	181.12	R	Sep 25	185.88	R
Apr 11	182.29	V	Jun 27	176.81	V	Aug 22	181.54	R	Nov 07	185.98	R
Jun 08	183.73	V	Jul 25	177.25	V	Sep 27	182.40	R	Nov 26	185.79	R
Jul 26	184.50	V	Aug 29	178.19	V	Oct 22	182.76	R	Jan 05, 1998	185.32	R
Aug 23	185.21	V	Sep 25	178.41	V	Nov 27	182.50	R	Jan 30	185.22	R
Sep 26	185.27	V	Oct 30	178.53	V	Jan 03, 1997	182.52	R	Mar 02	184.12	R
Oct 25	185.03	V	Nov 27	178.91	V	Jan 31	182.45	R	Mar 27	182.85	R
Nov 29	184.19	V	Dec 18	178.92	V	Feb 27	181.62	R	Apr 23	181.29	R
Dec 20	183.77	V	Jan 31, 1996	178.73	V	Mar 28	181.61	R	May 26	179.84	R
Jan 24, 1995	182.36	V	Feb 29	179.02	V	Apr 30	181.87	R	Jun 25	179.06	R
Feb 27	180.62	V	Mar 28	178.66	V	May 29	182.68	R	Jul 28	179.46	R
Mar 30	178.75	V	Apr 29	178.58	R	Jul 01	183.59	R	Aug 24	179.84	R
Apr 25	177.84	V	May 29	178.94	R	Jul 31	184.67	R	Sep 26	179.84	R

HIGHEST	176.81	Jun 27, 1995
LOWEST	186.82	Jan 26, 1994

State well number 004N004W03A003S
Site identification number 342805117164502
Common name SF-1 AT 510
In Hesperia. Drilled observation well. Diameter 2 inches, depth 510 feet, perforated 490–510 feet. Altitude of land-surface datum 2,983 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1994.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Jan 26, 1994	205.62	V	May 25, 1995	203.08	V	Jul 03, 1996	208.48	R	Sep 02, 1997	213.64	R
Mar 09	205.50	V	Jun 07	203.62	V	Jul 31	209.36	R	Sep 25	211.80	R
Apr 11	206.23	V	Jun 27	204.32	V	Aug 22	209.69	R	Nov 07	210.62	R
Jun 08	210.36	V	Jul 25	207.46	V	Sep 27	209.13	R	Nov 26	208.97	R
Jul 26	212.07	V	Aug 29	207.43	V	Oct 22	208.92	R	Jan 05, 1998	208.05	R
Aug 23	214.25	V	Sep 25	206.64	V	Nov 27	205.53	R	Jan 30	208.08	R
Sep 26	212.48	V	Oct 30	205.26	V	Jan 03, 1997	204.72	R	Mar 02	206.25	R
Oct 25	212.14	V	Nov 27	205.06	V	Jan 31	205.32	R	Mar 27	207.02	R
Nov 29	209.06	V	Dec 18	201.17	V	Feb 27	204.73	R	Apr 23	204.61	R
Dec 20	208.42	V	Jan 31, 1996	202.77	V	Mar 28	206.51	R	May 26	204.18	R
Jan 24, 1995	205.91	V	Feb 29	202.32	V	Apr 30	207.90	R	Jun 25	207.13	R
Feb 27	203.89	V	Mar 29	204.02	V	May 29	209.57	R	Jul 28	208.52	R
Mar 30	202.55	V	Apr 29	205.07	R	Jul 01	211.28	R	Aug 24	209.55	R
Apr 25	203.30	V	May 29	205.85	R	Jul 31	212.13	R	Sep 26	207.02	R

HIGHEST	201.17	Dec 18, 1995
LOWEST	214.25	Aug 23, 1994

Table B10. Water-level data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

State well number 004N004W03A004S
Site identification number 342805117164503
Common name SF-1 AT 360
In Hesperia. Drilled observation well. Diameter 2 inches, depth 360 feet, perforated 340–360 feet. Altitude of land-surface datum 2,983 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1994.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Mar 09, 1994	205.29	V	May 25, 1995	203.42	V	Jul 31, 1996	209.08	R	Nov 07, 1997	210.77	R
Mar 10	205.91	V	Jun 07	203.74	V	Aug 22	209.49	R	Nov 26	209.57	R
Mar 11	207.10	V	Jun 27	204.56	V	Sep 27	209.38	R	Jan 05, 1998	208.69	R
Apr 11	206.79	V	Jul 25	206.85	V	Oct 22	209.21	R	Jan 30	208.86	R
Jun 08	209.97	V	Aug 29	207.30	V	Nov 27	206.26	R	Mar 02	207.11	R
Jul 26	211.79	V	Sep 25	206.68	V	Jan 03, 1997	205.44	R	Mar 27	205.68	R
Aug 23	213.62	V	Oct 30	205.57	V	Jan 31	205.82	R	Apr 23	204.05	R
Sep 26	212.48	V	Nov 27	205.63	V	Feb 27	205.01	R	May 26	204.41	R
Oct 25	211.96	V	Dec 18	204.15	V	Mar 28	206.65	R	Jun 25	206.64	R
Nov 29	209.70	V	Jan 31, 1996	203.37	V	Apr 30	207.80	R	Jul 28	207.84	R
Dec 20	208.93	V	Feb 29	203.03	V	May 29	209.58	R	Aug 24	208.92	R
Jan 24, 1995	206.57	V	Mar 29	204.17	V	Jul 01	210.76	R	Sep 26	207.18	R
Feb 27	204.57	V	Apr 29	205.19	R	Jul 31	211.79	R			
Mar 30	203.07	V	May 29	205.91	R	Sep 02	213.40	R			
Apr 25	203.36	V	Jul 03	208.16	R	Sep 25	211.97	R			

HIGHEST	203.03	Feb 29, 1996
LOWEST	213.62	Aug 23, 1994

State well number 004N004W03A005S
Site identification number 342805117164504
Common name SF-1 AT 235
In Hesperia. Drilled observation well. Diameter 2 inches, depth 235 feet, perforated 195–235 feet. Altitude of land-surface datum 2,983 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1994.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Mar 09, 1994	207.23	V	Jun 22, 1995	204.08	V	Aug 22, 1996	207.87	R	Nov 07, 1997	209.95	R
Apr 11	207.00	V	Jun 27	204.33	V	Sep 27	208.35	R	Nov 26	209.73	R
Jul 25	211.45	V	Jul 25	205.52	V	Oct 22	208.51	R	Jan 05, 1998	208.85	R
Jul 26	211.45	V	Aug 29	206.72	V	Nov 27	206.83	R	Jan 30	208.68	R
Aug 23	212.08	V	Sep 25	206.75	V	Jan 03, 1997	206.12	R	Mar 02	207.08	R
Sep 26	211.74	V	Oct 30	205.89	V	Jan 07	206.08	V	Mar 27	205.84	R
Oct 25	211.24	V	Nov 27	205.87	V	Jan 31	205.73	R	Apr 23	204.89	R
Nov 29	210.04	V	Dec 18	205.42	V	Feb 27	204.94	R	May 26	204.24	R
Dec 20	209.12	V	Jan 31, 1996	204.33	V	Mar 28	206.45	R	Jun 25	206.23	R
Jan 23, 1995	208.59	V	Feb 29	204.19	V	Apr 30	207.66	R	Jul 28	207.55	R
Feb 27	206.99	V	Mar 29	204.12	V	May 29	209.07	R	Aug 24	208.55	R
Mar 30	203.50	V	Apr 29	204.48	R	Jul 01	210.54	R	Sep 26	207.16	R
Apr 25	203.43	V	May 29	207.26	R	Jul 31	211.57	R			
May 25	203.27	V	Jul 03	206.65	R	Sep 02	212.86	R			
Jun 07	204.09	V	Jul 31	207.51	R	Sep 25	211.92	R			

HIGHEST	203.27	May 25, 1995
LOWEST	212.86	Sep 02, 1997

Table B10. Water-level data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

State well number 004N005W21H001S
Site identification number 342519117240701
Common name MOGW
Near Hesperia. Drilled observation well. Diameter 2 inches, depth 670 feet, perforated 630–670 feet. Altitude of land-surface datum 3,530 feet. Water-level records available since 1995.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Apr 12, 1995	647.84	V	Jan 17, 1996	647.44	V	Oct 23, 1996	647.87	V	Nov 20, 1997	648.37	V
Apr 21	647.69	V	Feb 20	647.55	V	Nov 13	648.13	V	Dec 17	648.31	V
May 03	647.51	V	Mar 13	647.45	V	Jan 09, 1997	647.81	V	Jan 07, 1998	648.33	V
May 26	647.50	V	Apr 02	647.72	V	Feb 20	648.06	V	Jan 28	648.31	V
Jun 08	647.44	V	May 14	647.79	V	Feb 26	647.73	V	Apr 23	648.45	V
Aug 24	647.70	V	May 29	647.75	V	Apr 09	647.99	V	Jul 29	648.46	V
Sep 12	647.80	V	Jun 12	647.81	V	May 14	648.19	V	Sep 11	648.41	V
Oct 12	647.75	V	Aug 19	647.91	V	Jun 11	648.17	V			
Oct 25	647.74	V	Sep 18	648.15	V	Jul 15	648.37	V			
Nov 30	647.73	V	Oct 04	648.08	V	Aug 12	648.22	V			

HIGHEST	647.44	Jun 08, 1995, Jan 17, 1996
LOWEST	648.46	Jul 29, 1998

State well number 005N004W14D001S
Site identification number 343145117163501
Common name UN-1 AT 340
In Apple Valley. Drilled observation well. Diameter 2 inches, depth measured 339.7 feet in 1996, perforated 320–340 feet. Altitude of land-surface datum 2,750 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1992.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Aug 12, 1992	30.14	S	Jun 08, 1994	17.53	V	Nov 27, 1995	11.25	R	Jul 01, 1997	21.42	R
Oct 06	46.35	VS	Jul 26	22.65	R	Dec 18	9.62	R	Jul 31	22.85	R
Nov 19	50.32	V	Aug 23	23.84	RS	Jan 31, 1996	6.59	R	Aug 29	22.67	R
Jan 13, 1993	11.43	V	Sep 26	20.01	RS	Feb 29	5.66	R	Sep 25	20.73	R
Feb 12	8.88	V	Oct 25	12.14	RS	Mar 28	7.94	R	Nov 7	12.84	R
Mar 02	6.23	V	Nov 29	11.41	RS	Apr 29	15.27	R	Nov 27	10.38	R
Mar 21	11.35	V	Dec 20	9.75	RS	May 29	17.03	R	Dec 30	7.47	R
May 19	15.25	V	Jan 24, 1995	7.49	R	Jul 03	22.18	R	Jan 29, 1998	8.10	R
Jul 28	20.84	V	Feb 27	8.08	R	Jul 31	21.51	R	Mar 02	5.87	R
Aug 27	21.45	V	Mar 27	8.13	R	Aug 22	21.47	R	Mar 27	7.61	R
Sep 24	19.62	V	Apr 25	10.09	R	Nov 27	13.43	R	Apr 23	7.11	R
Oct 20	15.38	V	May 25	18.18	R	Jan 03, 1997	8.63	R	May 26	11.44	R
Nov 16	14.39	V	Jun 27	18.48	R	Jan 30	11.18	R	Jun 25	15.50	R
Dec 21	10.10	V	Jul 24	20.40	R	Feb 27	8.08	R	Jul 28	20.72	R
Jan 26, 1994	10.55	V	Aug 28	21.78	R	Mar 28	11.65	R	Aug 24	22.95	R
Mar 12	9.73	V	Sep 25	20.78	R	Apr 30	16.73	R	Sep 26	21.79	R
Apr 11	11.64	V	Oct 30	13.16	R	May 29	18.43	R			

HIGHEST	5.66	Feb 29, 1996
LOWEST	50.32	Nov 19, 1992

Table B10. Water-level data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

State well number 005N004W14D002S
Site identification number 343145117163502
Common name UN-1 AT 200
In Apple Valley. Drilled observation well. Diameter 2 inches, depth measured 203.1 feet in 1996, perforated 180–200 feet. Altitude of land-surface datum 2,750 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1992.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM (READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Aug 12, 1992	25.92	S	Jul 26, 1994	21.76	R	Jan 31, 1996	+3.25	R	Jul 31, 1997	19.65	R
Oct 06	30.43	VS	Aug 23	22.92	RS	Feb 29	+6.49	R	Aug 29	20.59	R
Nov 19	30.97	V	Sep 26	22.40	RS	Mar 28	.74	R	Sep 25	14.74	R
Jan 13, 1993	.56	V	Oct 25	19.24	RS	Apr 29	7.47	R	Nov 7	5.45	R
Feb 12		F	Nov 29	2.59	RS	May 29	11.21	R	Nov 27	.87	R
Mar 02	+4.45	V	Dec 20	.17	R	Jul 03	19.16	R	Dec 30	+1.85	R
Mar 21	3.95	V	Jan 24, 1995	+2.78	R	Jul 31	19.58	R	Jan 29, 1998	+1.33	R
May 19	10.78	V	Feb 27	+2.72	R	Aug 22	18.86	R	Mar 02	+4.41	R
Jul 28	18.44	V	Mar 30	+2.34	R	Sep 27	16.49	R	Mar 27		RF
Aug 27	19.18	V	Apr 25	2.24	R	Oct 22	8.14	R	Apr 23	2.73	R
Sep 24	16.09	V	May 25	7.97	R	Nov 27	10.63	R	May 26	7.39	R
Oct 20	10.42	V	Jun 27	14.04	R	Jan 03, 1997	+2.42	R	Jun 25	15.17	R
Nov 16	4.98	V	Jul 24	17.38	R	Jan 30	+2.93	R	Jul 28	20.38	R
Dec 21	+3.23	V	Aug 29	19.01	R	Feb 27	+2.43	R	Aug 24	18.57	R
Jan 26, 1994	.22	V	Sep 25	15.05	R	Mar 28	5.41	R	Sep 26	15.94	R
Mar 12	+.63	V	Oct 30	7.44	R	Apr 30	10.13	R			
Apr 11	3.83	V	Nov 27	4.09	R	May 29	13.52	R			
Jun 08	15.52	R	Dec 18	9.45	R	Jul 01	18.38	R			

HIGHEST	+6.49	Feb 29, 1996
LOWEST	30.97	Nov 19, 1992

Table B10. Water-level data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

State well number 005N004W14D003S
Site identification number 343145117163503
Common name UN-1 AT 100
In Apple Valley. Drilled observation well. Diameter 2 inches, depth measured 94.8 feet in 1996, perforated 80–100 feet. Altitude of land-surface datum 2,750 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1992.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Aug 12, 1992	17.63	S	Jul 26, 1994	16.89	R	Jan 31, 1996	11.21	R	Jul 31, 1997	17.95	R
Oct 06	17.01	VS	Aug 23	17.42	RS	Feb 29	11.04	R	Aug 29	16.19	R
Nov 19	19.02	V	Sep 26	16.53	RS	Mar 28	12.44	R	Sep 25	15.08	R
Jan 13, 1993	11.07	V	Oct 25	15.50	RS	Apr 29	14.10	R	Nov 07	13.44	R
Feb 12	10.69	V	Nov 29	13.16	RS	May 29	14.60	R	Nov 27	12.21	R
Mar 02	10.19	V	Dec 20	12.73	R	Jul 03	16.43	R	Dec 30	11.49	R
Mar 21	12.39	V	Jan 24, 1995	11.76	R	Jul 31	16.29	R	Jan 29, 1998	11.45	R
May 19	14.23	V	Feb 27	12.22	R	Aug 22	16.33	R	Mar 02	11.00	R
Jul 28	15.73	V	Mar 27	12.24	R	Sep 27	16.33	R	Mar 27	11.78	R
Aug 27	15.70	V	Apr 25	13.68	R	Oct 22	14.48	R	Apr 23	12.51	R
Sep 24	15.77	V	May 25	14.63	R	Nov 27	12.83	R	May 26	13.62	R
Oct 20	14.14	V	Jun 27	15.23	R	Jan 03, 1997	12.31	R	Jun 25	15.20	R
Nov 16	13.33	V	Jul 24	15.75	R	Jan 30	11.86	R	Jul 28	16.13	R
Dec 21	12.00	V	Aug 29	16.48	R	Feb 27	12.34	R	Aug 24	15.90	R
Jan 26, 1994	14.41	V	Sep 25	14.69	R	Mar 28	13.91	R	Sep 26	15.37	R
Mar 12	12.58	V	Oct 30	13.78	R	Apr 30	14.87	R			
Apr 11	13.41	V	Nov 27	12.92	R	May 29	15.10	R			
Jun 08	15.54	R	Dec 18	12.52	R	Jul 01	16.50	R			

HIGHEST	10.19	Mar 02, 1993
LOWEST	19.02	Nov 19, 1992

Table B10. Water-level data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

State well number 005N004W14D004S
Site identification number 343145117163504
Common name UN-1 AT 50
In Apple Valley. Drilled observation well. Diameter 2 inches, depth measured 41.5 feet in 1996, perforated 30–50 feet. Altitude of land-surface datum 2,750 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1992.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Aug 12, 1992	16.26	S	Jul 26, 1994	15.36	R	Jan 31, 1996	14.38	R	Jul 31, 1997	17.50	R
Oct 06	15.95	VS	Aug 23	15.42	RS	Feb 29	14.25	R	Aug 29	15.44	R
Nov 19	18.37	V	Sep 26	15.35	RS	Mar 28	14.42	R	Sep 25	15.10	R
Jan 13, 1993	14.08	V	Oct 25	15.16	RS	Apr 29	14.75	R	Nov 07	14.61	R
Feb 12	12.92	V	Nov 29	14.92	RS	May 29	14.97	R	Nov 27	14.42	R
Mar 02	13.02	V	Dec 20	14.81	R	Jul 03	15.22	R	Dec 30	14.24	R
Mar 21	13.31	V	Jan 24, 1995	14.53	R	Jul 31	15.36	R	Jan 29, 1998	14.22	R
May 19	14.38	V	Feb 27	14.30	R	Aug 22	15.38	R	Mar 02	13.52	R
Jul 28	14.79	V	Mar 27	13.52	R	Sep 27	15.29	R	Mar 27	14.07	R
Aug 27	14.90	V	Apr 25	14.22	R	Oct 22	15.05	R	Apr 23	14.01	R
Sep 24	14.93	V	May 25	14.46	R	Nov 27	14.65	R	May 26	14.09	R
Oct 20	14.72	V	Jun 27	14.86	R	Jan 03	14.52	R	Jun 25	14.79	R
Nov 16	14.60	V	Jul 24	15.02	R	Jan 30	14.34	R	Jul 28	15.23	R
Dec 21	14.68	V	Aug 29	15.12	R	Feb 27	14.59	R	Aug 24	15.36	R
Jan 26, 1994	14.38	V	Sep 25	14.11	R	Mar 28	14.74	R	Sep 26	15.17	R
Mar 12	14.39	V	Oct 30	14.86	R	Apr 30	15.02	R			
Apr 11	14.54	V	Nov 27	14.67	R	May 29	15.30	R			
Jun 08	15.07	R	Dec 18	14.58	R	Jul 01	15.51	R			

HIGHEST	12.92	Feb 12, 1993
LOWEST	18.37	Nov 19, 1992

Table B10. Water-level data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

State well number 005N004W23B001S
Site identification number 343046117155801
Common name REGIONAL PARK
In Victorville at County Regional Park on Mojave River flood plain. Drilled observation well. Diameter 2 inches, depth 9.5 feet, perforated 0–9.5 feet. Altitude of land-surface datum 2,750 feet. Water-level records available since 1996.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Jan 16, 1996	2.07	S	Jan 14, 1997	2.34	S	Aug 19, 1997	3.93	S	Apr 20, 1998	2.06	V
Feb 15	1.83	S	Feb 11	2.42	S	Sep 08	4.07	V	May 06	2.06	V
Mar 18	2.24	S	Feb 14	2.39	V	Sep 25	3.92	S	Jun 04	2.46	V
Apr 16	2.62	S	Mar 13	2.42	S	Oct 08	3.51	V	Jun 09	2.51	V
May 08	3.05	S	Apr 02	2.43	S	Oct 20	3.50	S	Jun 22	2.90	V
Jun 13	3.82	S	Apr 28	2.83	S	Nov 04	3.10	V	Jul 07	3.15	V
Jul 17	4.44	S	May 13	2.90	S	Nov 17	2.33	V	Jul 22	3.48	V
Aug 21	4.49	S	May 28	3.12	S	Dec 08	1.65	V	Aug 06	3.51	V
Sep 16	4.62	S	Jun 09	2.97	S	Jan 06, 1998	2.31	A	Aug 18	3.16	V
Oct 16	4.19	S	Jun 23	3.42	S	Feb 04	2.09	V	Sep 02	3.18	V
Nov 14	2.90	S	Jul 08	3.60	S	Mar 09	1.69	V	Sep 15	2.95	V
Dec 16	2.33	S	Jul 28	3.99	S	Mar 23	2.11	V	Sep 29	2.97	V

HIGHEST	1.65	Dec 08, 1997
LOWEST	4.62	Sep 16, 1996

State well number 005N006W22E001S
Site identification number 343030117300901
Common name PHELAN-1 NO 1
About 6 miles west of Highway 395 on Highway 18, near Phelan. Drilled observation well. Diameter 2 inches, depth 750 feet, perforated 730–750 feet. Altitude of land-surface datum 3,260 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1994.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Apr 11, 1994	349.11	V	Jun 27, 1995	348.86	V	Sep 27, 1996	356.05	R	Nov 26, 1997	356.75	R
Jun 01	351.11	V	Jul 25	350.30	V	Oct 22	356.21	R	Jan 05, 1998	353.50	R
Jun 08	355.24	V	Aug 29	352.34	V	Nov 27	355.79	R	Jan 30	352.75	R
Jul 26	352.79	V	Sep 25	353.57	V	Jan 03, 1997	354.55	R	Mar 02	351.46	R
Aug 23	353.36	V	Oct 30	354.58	V	Jan 14	353.69	V	Mar 13	350.63	S
Sep 26	354.39	V	Nov 27	354.84	V	Jan 31	353.56	R	Mar 27	350.68	R
Oct 25	354.13	V	Dec 18	354.50	V	Feb 27	352.62	R	Apr 23	350.42	R
Nov 29	352.81	V	Jan 31, 1996	353.38	V	Mar 28	352.02	R	May 26	350.00	R
Dec 20	351.97	V	Feb 29	352.85	V	Apr 30	352.04	R	Jun 25	350.29	R
Jan 24, 1995	350.26	V	Mar 28	352.16	V	May 29	352.84	R	Jul 28	351.11	R
Feb 27	349.08	V	Apr 29	351.88	R	Jul 01	354.68	R	Aug 24	351.98	R
Mar 30	348.20	V	May 29	352.00	R	Jul 31	355.44	R	Sep 26	351.72	R
Apr 25	348.00	V	Jul 03	352.81	R	Aug 29	356.05	R			
May 25	348.15	V	Jul 31	353.78	R	Sep 25	356.11	R			
Jun 23	348.90	V	Aug 22	354.67	R	Nov 07	355.33	R			

HIGHEST	348.00	Apr 25, 1995
LOWEST	356.75	Nov 26, 1997

Table B10. Water-level data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

State well number 005N006W22E002S
Site identification number 343030117300902
Common name PHELAN-1 NO 2
About 6 miles west of Highway 395 on Highway 18, near Phelan. Drilled observation well. Diameter 2 inches, depth 565 feet, perforated 545–565 feet. Altitude of land-surface datum 3,260 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1994.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Apr 11, 1994	353.97	V	Jun 23, 1995	358.81	V	Aug 22, 1996	363.44	R	Nov 07, 1997	365.85	R
May 19	357.25	V	Jun 27	358.83	V	Sep 27	364.63	R	Nov 26	364.36	R
Jun 01	358.06	V	Jul 25	361.05	V	Oct 22	364.63	R	Jan 05, 1998	361.26	R
Jun 08	358.75	V	Aug 29	362.68	V	Nov 27	362.44	R	Jan 30	360.17	R
Jul 26	361.03	V	Sep 25	362.83	V	Jan 03, 1997	360.48	R	Mar 02	358.85	R
Aug 23	361.83	V	Oct 30	362.31	V	Jan 14	359.80	V	Mar 13	358.01	S
Sep 26	362.41	V	Nov 27	361.4	V	Jan 31	359.08	R	Mar 27	358.32	R
Oct 25	361.61	V	Dec 18	360.48	V	Feb 27	357.69	R	Apr 23	358.34	R
Nov 29	360.51	V	Jan 31, 1996	359.06	V	Mar 28	357.50	R	May 26	359.11	R
Dec 20	359.34	V	Feb 29	358.63	V	Apr 30	358.16	R	Jun 25	361.27	R
Jan 24, 1995	355.86	V	Mar 28	357.99	V	May 29	360.21	R	Jul 28	364.32	R
Feb 27	354.41	V	Apr 29	357.93	R	Jul 01	362.41	R	Aug 24	365.80	R
Mar 30	354.38	V	May 29	358.60	R	Jul 31	364.04	R	Sep 26	365.32	R
Apr 25	354.28	V	Jul 03	360.54	R	Aug 29	365.97	R			
May 25	356.67	V	Jul 31	362.20	R	Sep 25	366.73	R			

HIGHEST	353.97	Apr 11, 1994
LOWEST	366.73	Sep 25, 1997

State well number 005N006W22E003S
Site identification number 343030117300903
Common name PHELAN-1 NO 3
About 6 miles west of Highway 395 on Highway 18, near Phelan. Drilled observation well. Diameter 2 inches, depth 400 feet, perforated 380–400 feet. Altitude of land-surface datum 3,260 feet. Reported measurements provided by Mojave Water Agency. Water-level records available since 1994.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS	DATE	WATER LEVEL	MS
Apr 11, 1994	348.95	V	Jun 23, 1995	348.81	V	Aug 22, 1996	353.36	R	Nov 07, 1997	351.16	R
May 19	348.97	V	Jun 27	354.87	V	Sep 27	353.06	R	Nov 26	350.90	R
Jun 08	349.29	V	Jul 25	354.64	V	Oct 22	352.83	R	Jan 05, 1998	350.48	R
Jul 26	345.57	V	Aug 29	354.35	V	Nov 27	352.92	R	Jan 30	350.51	R
Aug 23	346.44	V	Sep 25	354.22	V	Jan 03, 1997	352.94	R	Mar 02	350.24	R
Sep 26	347.49	V	Oct 30	354.15	V	Jan 14	352.79	V	Mar 13	349.64	S
Oct 25	347.14	V	Nov 27	354.18	V	Jan 31	350.04	R	Mar 27	349.86	R
Nov 29	347.28	V	Dec 18	354.04	V	Feb 27	349.67	R	Apr 23	350.11	R
Dec 20	347.33	V	Jan 31, 1996	353.80	V	Mar 28	349.73	R	May 26	349.93	R
Jan 24, 1995	347.40	V	Feb 29	353.72	V	Apr 30	349.81	R	Jun 25	350.30	R
Feb 27	347.46	V	Mar 28	353.61	V	May 29	350.06	R	Jul 28	350.71	R
Mar 30	347.48	V	Apr 29	353.43	R	Jul 01	350.49	R	Aug 24	351.23	R
Apr 25	347.53	V	May 29	353.25	R	Jul 31	350.69	R	Sep 26	351.30	R
May 25	347.56	V	Jul 03	353.28	R	Aug 29	351.12	R			
			Jul 31	353.37	R	Sep 25	351.07	R			

HIGHEST	345.57	Jul 26, 1994
LOWEST	354.87	Jun 27, 1995

Table B11. Water-quality data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California

[All data were analyzed at U.S. Geological Survey laboratories. Location of sites shown in figure B1. Numbering systems for sites are explained in text; µS/cm, microsiemens per centimeter; °C, degrees Celsius; mg/L, milligrams per liter; µg/L, micrograms per liter. —, no data; <, actual value is less than value shown]

Common name	State well No.	Site identification No.	Date	Time	Temperature water (°C)	Temperature air (°C)
Del Oro 1 at 600	004N003W12A001S	342726117082401	06-02-94	1330	26.1	30.0
RS-1 at 600	004N003W19G002S	342514117134801	06-29-93	2030	14.1	—
			01-28-94	1147	13.8	9.0
RS-1 at 375	004N003W19G003S	342514117134802	06-30-93	1300	15.4	—
			01-28-94	1044	12.7	8.8
RS-1 at 195	004N003W19G004S	342514117134803	06-30-93	1655	15.5	—
			01-28-94	1257	12.7	7.2
RS-1 at 95	004N003W19G005S	342514117134804	07-01-93	1040	14.0	—
			03-08-94	1200	15.0	19.0
			11-08-94	1145	18.5	22.0
RS-1 at 55	004N003W19G006S	342514117134805	07-01-93	1230	16.0	—
			11-08-94	1220	19.0	23.0
Deep Creek at 550	004N003W31L006S	342318117141101	06-18-92	1000	15.0	22.5
			01-12-93	1240	13.5	10.0
Deep Creek at 380	004N003W31L007S	342318117141102	06-18-92	1300	14.0	30.5
			01-12-93	1820	12.5	8.5
Deep Creek at 260	004N003W31L008S	342318117141103	06-17-92	1800	12.5	27.5
			01-12-93	1745	11.0	5.3
Deep Creek at 140	004N003W31L009S	342318117141104	06-18-92	1600	13.5	29.0
			01-12-93	1555	11.5	10.0
JR-1 at 620	004N004W01C002S	342814117150501	06-24-92	1245	20.0	—
			01-13-93	1330	17.5	12.0
			01-11-95	1830	16.0	7.0
JR-1 at 330	004N004W01C003S	342814117150502	06-24-92	1415	16.5	—
			01-20-93	1250	16.5	—
JR-1 at 190	004N004W01C004S	342814117150503	06-24-92	1540	17.0	—
			01-13-93	1620	14.0	9.0
			11-08-94	1430	15.0	19.0
JR-1 at 80	004N004W01C005S	342814117150504	06-24-92	1800	14.0	—
			01-13-93	1520	14.0	11.0
			11-08-94	1350	14.5	19.0
SF-1 at 790	004N004W03A002S	342805117164501	03-09-94	1515	21.5	20.0
SF-1 at 510	004N004W03A003S	342805117164502	03-09-94	2015	19.0	11.1
SF-1 at 360	004N004W03A004S	342805117164503	03-11-94	1051	17.0	15.1
SF-1 at 235	004N004W03A005S	342805117164504	01-10-97	1030	16.6	—
MOGW	004N005W21H001S	342519117240701	03-20-95	1700	21.3	—
			06-09-95	1400	23.7	35.0
UN-1 at 340	005N004W14D001S	343145117163501	08-19-92	1940	23.0	26.0
			03-02-93	1340	22.0	19.0
UN-1 at 200	005N004W14D002S	343145117163502	08-20-92	0940	21.5	29.0
			03-02-93	1450	20.0	18.0
UN-1 at 100	005N004W14D003S	343145117163503	08-20-92	1115	31.0	33.0
			03-02-93	1635	20.0	18.0
UN-1 at 50	005N004W14D004S	343145117163504	08-20-92	1250	21.0	35.0
			03-02-93	1530	20.5	21.5
Regional Park	005N004W23B001S	343046117155801	02-14-97	1300	14.6	17.5
Phelan-1 NO 1	005N006W22E001S	343030117300901	06-01-94	1330	26.2	26.2
Phelan-1 NO 2	005N006W22E002S	343030117300902	06-01-94	1730	26.4	33.0
Phelan 1 NO 3	005N006W22E003S	343030117300903	01-17-97	1200	19.7	12.5

Table B11. Water-quality data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

Common name	Date	Time	Depth below land surface (water level) (feet)	Specific conductance (µS/cm)	Oxygen, dissolved (mg/L)	pH water whole field (standard units)	ANC water unfltrd fet field mg/L as $CaCO_3$	Alkalinity wat dis fix end field $CaCO_3$ (mg/L)
Del Oro 1 at 600	06-02-94	1330	303.17	3,120	—	7.8	—	38
RS-1 at 600	06-29-93	2030	57.64	182	—	8.6	—	79
	01-28-94	1147	65.12	172	7.1	7.9	—	81
RS-1 at 375	06-30-93	1300	58.00	156	—	8.0	—	66
	01-28-94	1044	65.56	152	11.1	7.0	—	63
RS-1 at 195	06-30-93	1655	51.18	226	—	7.6	—	64
	01-28-94	1257	65.69	210	10.6	7.0	—	65
RS-1 at 95	07-01-93	1040	36.94	300	—	7.4	—	83
	03-08-94	1200	56.73	262	4.6	7.1	—	81
	11-08-94	1145	36.19	575	—	—	—	—
RS-1 at 55	07-01-93	1230	36.43	250	—	7.5	—	77
	11-08-94	1220	33.24	641	—	—	—	—
Deep Creek at 550	06-18-92	1000	—	221	—	8.2	—	88
	01-12-93	1240	45.89	213	—	8.3	—	92
Deep Creek at 380	06-18-92	1300	—	222	—	7.1	—	70
	01-12-93	1820	53.39	225	—	7.7	—	75
Deep Creek at 260	06-17-92	1800	48.74	241	—	7.1	—	74
	01-12-93	1745	53.77	247	—	7.1	—	71
Deep Creek at 140	06-18-92	1600	—	276	—	7.0	—	56
	01-12-93	1555	51.64	283	—	7.2	—	63
JR-1 at 620	06-24-92	1245	—	327	—	9.6	—	140
	01-13-93	1330	27.75	320	—	9.6	—	140
	01-11-95	1830	18.11	321	.8	9.7	—	130
JR-1 at 330	06-24-92	1415	—	220	—	7.4	—	72
	01-20-93	1250	47.50	165	—	8.8	—	70
JR-1 at 190	06-24-92	1540	—	170	—	9.1	—	76
	01-13-93	1620	45.94	214	—	7.1	—	73
	11-08-94	1430	45.36	218	—	—	—	—
JR-1 at 80	06-24-92	1800	35.79	274	—	7.3	—	59
	01-13-93	1520	22.12	142	—	7.1	—	44
	11-08-94	1350	38.60	245	—	—	—	—
SF-1 at 790	03-09-94	1515	183.01	281	3.7	9.6	—	140
SF-1 at 510	03-09-94	2015	205.50	154	5.8	8.9	—	93
SF-1 at 360	03-11-94	1051	207.10	197	—	7.8	—	81
SF-1 at 235	01-10-97	1030	—	181	8.4	7.0	—	73
MOGW	03-20-95	1700	646.56	233	6.2	9.4	—	81
	06-09-95	1400	646.49	114	—	9.7	56	56
UN-1 at 340	08-19-92	1940	24.19	203	—	8.8	—	75
	03-02-93	1340	6.23	194	—	8.8	—	80
UN-1 at 200	08-20-92	0940	24.03	191	—	9.2	—	80
	03-02-93	1450	+4.45	187	—	9.3	—	80
UN-1 at 100	08-20-92	1115	17.74	217	—	8.5	—	83
	03-02-93	1635	10.19	211	—	8.4	—	93
UN-1 at 50	08-20-92	1250	16.23	979	—	7.6	—	220
	03-02-93	1530	13.02	937	—	7.5	—	220
Regional Park	02-14-97	1300	2.39	437	<.2	6.9	—	—
Phelan-1 NO 1	06-01-94	1330	351.11	332	.6	9.4	—	130
Phelan-1 NO 2	06-01-94	1730	358.06	361	1.1	8.2	—	69
Phelan 1 NO 3	01-17-97	1200	—	657	—	7.6	—	—

Table B11. Water-quality data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

Common name	Date	Time	Alkalinity wat dis tot it field mg/L as $CaCO_3$	Carbonate water dis it field mg/L as CO_3	Carbonate wat.dis fet field CO_3 (mg/L)	Nitrogen, ammonia dissolved (mg/L as N)	Nitrogen, nitrite dissolved (mg/L as N)	Nitrogen, ammonia + organic dissolved (mg/L as N)
Del Oro 1 at 600	06-02-94	1330	38	—	—	0.020	<0.010	<0.20
RS-1 at 600	06-29-93	2030	80	—	—	—	—	—
	01-28-94	1147	78	—	—	.020	.030	<.20
RS-1 at 375	06-30-93	1300	67	—	—	—	—	—
	01-28-94	1044	66	—	—	.030	.050	<.20
RS-1 at 195	06-30-93	1655	61	—	—	—	—	—
	01-28-94	1257	64	—	—	.010	.020	<.20
RS-1 at 95	07-01-93	1040	84	—	—	—	—	—
	03-08-94	1200	81	—	—	.030	<.010	<.20
	11-08-94	1145	—	—	—	—	—	—
RS-1 at 55	07-01-93	1230	77	—	—	.010	<.010	<.20
	11-08-94	1220	—	—	—	—	—	—
Deep Creek at 550	06-18-92	1000	84	—	—	.020	<.010	<.20
	01-12-93	1240	92	—	—	.010	.020	<.20
Deep Creek at 380	06-18-92	1300	70	—	—	.040	.020	<.20
	01-12-93	1820	76	—	—	<.010	.010	<.20
Deep Creek at 260	06-17-92	1800	71	—	—	.040	.020	<.20
	01-12-93	1745	70	—	—	—	—	—
Deep Creek at 140	06-18-92	1600	56	—	—	.040	.020	<.20
	01-12-93	1555	63	—	—	<.010	.010	<.20
JR-1 at 620	06-24-92	1245	141	—	—	.010	.020	<.20
	01-13-93	1330	135	25	25	.010	.010	<.20
	01-11-95	1830	130	29	28	.020	<.010	<.20
JR-1 at 330	06-24-92	1415	71	—	—	.030	<.010	<.20
	01-20-93	1250	71	3	E4.0	.010	.020	<.20
JR-1 at 190	06-24-92	1540	77	—	—	.030	.010	<.20
	01-13-93	1620	73	—	—	.010	.010	<.20
	11-08-94	1430	—	—	—	—	—	—
JR-1 at 80	06-24-92	1800	58	—	—	.030	<.010	<.20
	01-13-93	1520	40	—	—	.010	.010	<.20
	11-08-94	1350	—	—	—	—	—	—
SF-1 at 790	03-09-94	1515	140	—	—	.030	<.010	<.20
SF-1 at 510	03-09-94	2015	93	2	—	.040	.010	1.0
SF-1 at 360	03-11-94	1051	80	—	—	.030	<.010	<.20
SF-1 at 235	01-10-97	1030	73	—	—	<.015	<.010	<.20
MOGW	03-20-95	1700	—	21	20	.580	.060	1.0
	06-09-95	1400	56	—	—	.310	.010	.70
UN-1 at 340	08-19-92	1940	77	6	3.6	.030	<.010	<.20
	03-02-93	1340	79	<1	<1.0	<.010	.010	<.20
UN-1 at 200	08-20-92	0940	80	10	9.6	.020	<.010	<.20
	03-02-93	1450	79	7	7.0	<.010	<.010	<.20
UN-1 at 100	08-20-92	1115	84	6	1.2	.020	<.010	<.20
	03-02-93	1635	93	<1	<1.0	<.010	.010	<.20
UN-1 at 50	08-20-92	1250	219	—	—	.020	<.010	<.20
	03-02-93	1530	225	—	—	<.010	.010	<.20
Regional Park	02-14-97	1300	—	—	—	—	—	—
Phelan-1 NO 1	06-01-94	1330	132	—	—	.220	.050	<.20
Phelan-1 NO 2	06-01-94	1730	68	—	—	.090	.020	<.20
Phelan 1 NO 3	01-17-97	1200	—	—	—	<.015	.010	<.20

Table B11. Water-quality data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

Common name	Date	Time	Nitrogen, NO_2+NO_3 dissolved (mg/L as N)	Phosphorus dissolved (mg/L as P)	Phosphorus ortho, dissolved (mg/L as P)	Calcium dissolved (mg/L as CA)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)
Del Oro 1 at 600	06-02-94	1330	0.810	0.040	0.030	200	39	400
RS-1 at 600	06-29-93	2030	—	—	—	15	3.0	21
	01-28-94	1147	.250	.040	.030	19	3.2	12
RS-1 at 375	06-30-93	1300	—	—	—	11	2.5	24
	01-28-94	1044	.700	.270	.290	16	2.6	11
RS-1 at 195	06-30-93	1655	—	—	—	16	3.8	28
	01-28-94	1257	.710	.130	.130	22	4.3	12
RS-1 at 95	07-01-93	1040	—	—	—	5.3	1.8	65
	03-08-94	1200	.210	1.70	.690	17	3.9	31
	11-08-94	1145	.310	—	—	—	—	—
RS-1 at 55	07-01-93	1230	.220	2.20	.550	6.3	1.9	50
	11-08-94	1220	.330	—	—	—	—	—
Deep Creek at 550	06-18-92	1000	.330	<.010	.020	17	2.4	29
	01-12-93	1240	.340	<.010	<.010	15	2.3	28
Deep Creek at 380	06-18-92	1300	.390	.440	.160	24	3.8	18
	01-12-93	1820	.900	.040	.030	22	3.8	17
Deep Creek at 260	06-17-92	1800	.230	.260	.130	27	4.9	15
	01-12-93	1745	—	—	—	27	5.1	14
Deep Creek at 140	06-18-92	1600	.980	.120	.090	26	4.9	22
	01-12-93	1555	.640	.030	.030	25	5.1	21
JR-1 at 620	06-24-92	1245	<.050	.070	.070	1.0	.10	74
	01-13-93	1330	<.050	.030	.040	.89	.060	72
	01-11-95	1830	<.050	.040	.020	.90	.040	71
JR-1 at 330	06-24-92	1415	.810	.040	.040	25	4.6	13
	01-20-93	1250	.160	.030	.030	5.5	.33	31
JR-1 at 190	06-24-92	1540	.130	.200	.070	3.6	.24	35
	01-13-93	1620	.240	.060	.050	24	4.5	13
	11-08-94	1430	.920	—	—	—	—	—
JR-1 at 80	06-24-92	1800	.850	.610	.420	23	4.4	26
	01-13-93	1520	.650	.190	.190	11	2.1	15
	11-08-94	1350	.800	—	—	—	—	—
SF-1 at 790	03-09-94	1515	<.050	.070	.040	.90	.090	68
SF-1 at 510	03-09-94	2015	.550	1.80	.580	2.5	.47	37
SF-1 at 360	03-11-94	1051	.190	1.60	.620	14	2.1	27
SF-1 at 235	01-10-97	1030	1.20	1.50	1.40	15	3.4	15
MOGW	03-20-95	1700	.360	<.010	.010	11	3.2	35
	06-09-95	1400	.070	.060	.050	4.4	1.7	34
UN-1 at 340	08-19-92	1940	.210	.020	.040	4.1	.35	41
	03-02-93	1340	.210	.040	.030	4.4	.29	40
UN-1 at 200	08-20-92	0940	.390	.050	.060	2.0	.18	41
	03-02-93	1450	.390	.010	.010	2.4	.19	41
UN-1 at 100	08-20-92	1115	.740	.070	.070	14	1.7	29
	03-02-93	1635	.840	.020	.010	16	1.7	29
UN-1 at 50	08-20-92	1250	9.40	.040	.050	91	22	77
	03-02-93	1530	9.00	.020	.020	92	23	78
Regional Park	02-14-97	1300	—	—	—	—	—	—
Phelan-1 NO 1	06-01-94	1330	<.050	.090	.130	1.2	.43	73
Phelan-1 NO 2	06-01-94	1730	.570	1.00	1.00	9.2	1.6	62
Phelan 1 NO 3	01-17-97	1200	.540	7.00	6.60	22	5.4	110

Table B11. Water-quality data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

Common name	Date	Time	Potassium, dissolved (mg/L as K)	Chloride, dissolved (mg/L as Cl)	Sulfate dissolved (mg/L as SO_4)	Fluoride, dissolved (mg/L as F)	Silica, dissolved (mg/L as SiO_2)	Solids, residue at 180 °C dissolved (mg/L)
Del Oro 1 at 600	06-02-94	1330	6.1	700	410	0.40	25	2,020
RS-1 at 600	06-29-93	2030	1.7	4.6	8.6	.40	26	126
	01-28-94	1147	1.3	3.6	6.4	.50	29	124
RS-1 at 375	06-30-93	1300	1.5	4.3	8.5	.30	26	126
	01-28-94	1044	1.3	3.9	7.3	.40	27	99
RS-1 at 195	06-30-93	1655	1.6	21	11	.30	24	157
	01-28-94	1257	1.5	20	10	.30	24	128
RS-1 at 95	07-01-93	1040	1.8	15	41	.40	18	227
	03-08-94	1200	1.7	19	19	.20	19	161
	11-08-94	1145	—	97	63	—	—	—
RS-1 at 55	07-01-93	1230	.10	9.7	31	.30	19	168
	11-08-94	1220	—	110	72	—	—	—
Deep Creek at 550	06-18-92	1000	1.4	5.9	13	.30	20	136
	01-12-93	1240	1.2	5.6	13	.30	22	132
Deep Creek at 380	06-18-92	1300	1.4	15	15	.60	24	145
	01-12-93	1820	1.4	15	15	.60	25	148
Deep Creek at 260	06-17-92	1800	1.4	20	17	.40	22	146
	01-12-93	1745	1.6	24	16	.40	23	153
Deep Creek at 140	06-18-92	1600	1.6	30	23	.30	19	164
	01-12-93	1555	1.8	35	20	.30	19	160
JR-1 at 620	06-24-92	1245	.50	6.6	14	2.9	17	195
	01-13-93	1330	.30	5.1	11	2.7	16	189
	01-11-95	1830	.20	5.4	10	2.8	16	198
JR-1 at 330	06-24-92	1415	1.6	15	11	.20	28	138
	01-20-93	1250	.60	3.7	6.8	.30	19	101
JR-1 at 190	06-24-92	1540	.60	4.5	7.1	.20	20	114
	01-13-93	1620	1.5	14	12	.20	27	140
	11-08-94	1430	—	15	11	—	—	—
JR-1 at 80	06-24-92	1800	2.0	27	26	.30	38	162
	01-13-93	1520	1.3	8.2	7.3	.40	20	87
	11-08-94	1350	—	18	23	—	—	—
SF-1 at 790	03-09-94	1515	.50	1.9	2.3	2.0	19	174
SF-1 at 510	03-09-94	2015	1.0	7.5	7.7	.20	17	114
SF-1 at 360	03-11-94	1051	1.4	4.4	12	.30	24	133
SF-1 at 235	01-10-97	1030	1.3	6.9	7.2	.30	30	124
MOGW	03-20-95	1700	3.2	9.3	13	.30	5.1	172
	06-09-95	1400	2.4	13	9.3	.30	5.9	128
UN-1 at 340	08-19-92	1940	1.0	5.8	14	1.1	17	124
	03-02-93	1340	.90	4.7	13	1.1	18	126
UN-1 at 200	08-20-92	0940	.70	5.4	5.8	.50	16	109
	03-02-93	1450	.70	4.6	6.3	.40	16	124
UN-1 at 100	08-20-92	1115	1.3	6.5	11	.20	18	139
	03-02-93	1635	1.3	5.7	12	.20	18	145
UN-1 at 50	08-20-92	1250	3.3	77	130	.50	29	609
	03-02-93	1530	3.6	76	140	.40	30	598
Regional Park	02-14-97	1300	—	—	—	—	—	—
Phelan-1 NO 1	06-01-94	1330	.70	2.0	20	2.9	21	219
Phelan-1 NO 2	06-01-94	1730	2.8	3.0	86	.30	15	226
Phelan 1 NO 3	01-17-97	1200	4.4	5.9	190	.20	30	455

Table B11. Water-quality data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

Common name	Date	Time	Iodide, dissolved (mg/L as I)	Bromide dissolved (mg/L as Br)	Arsenic dissolved (µg/L as As)	Barium, dissolved (µg/L as Ba)	Boron, dissolved (µg/L as B)	Iron, dissolved (µg/L as Fe)
Del Oro 1 at 600	06-02-94	1330	0.044	0.29	<1	<100	1,000	20
RS-1 at 600	06-29-93	2030	.001	.020	1	11	20	62
	01-28-94	1147	.001	.020	<1	14	20	<3.0
RS-1 at 375	06-30-93	1300	<.001	.020	2	9.0	10	470
	01-28-94	1044	.001	.030	<1	17	20	24
RS-1 at 195	06-30-93	1655	.001	.070	1	12	10	400
	01-28-94	1257	.001	.080	<1	29	10	5.0
RS-1 at 95	07-01-93	1040	.005	.050	2	5.0	70	520
	03-08-94	1200	.004	.080	<1	15	90	120
	11-08-94	1145	—	—	—	—	—	—
RS-1 at 55	07-01-93	1230	.004	.030	2	7.0	60	210
	11-08-94	1220	—	—	—	—	—	—
Deep Creek at 550	06-18-92	1000	<.001	.030	—	16	60	<3.0
	01-12-93	1240	<.001	.020	2	22	60	<3.0
Deep Creek at 380	06-18-92	1300	<.001	.050	—	17	20	14
	01-12-93	1820	.054	<.010	<1	27	30	<3.0
Deep Creek at 260	06-17-92	1800	<.001	.060	—	20	20	<3.0
	01-12-93	1745	.001	.080	<1	32	20	<3.0
Deep Creek at 140	06-18-92	1600	.002	.070	—	19	50	<3.0
	01-12-93	1555	.002	.13	<1	29	50	<3.0
JR-1 at 620	06-24-92	1245	.020	.010	—	<2.0	360	24
	01-13-93	1330	.018	<.010	50	<2.0	330	5.0
	01-11-95	1830	.018	.020	45	<2.0	370	4.0
JR-1 at 330	06-24-92	1415	<.001	.060	—	22	150	6.0
	01-20-93	1250	<.001	.020	2	5.0	20	5.0
JR-1 at 190	06-24-92	1540	<.001	.020	—	2.0	20	54
	01-13-93	1620	<.001	.050	<1	26	20	<3.0
	11-08-94	1430	—	—	—	—	—	—
JR-1 at 80	06-24-92	1800	.003	.070	—	14	50	51
	01-13-93	1520	.002	<.010	1	13	30	<3.0
	11-08-94	1350	—	—	—	—	—	—
SF-1 at 790	03-09-94	1515	.013	<.010	41	<2.0	190	8.0
SF-1 at 510	03-09-94	2015	.001	.020	3	2.0	50	76
SF-1 at 360	03-11-94	1051	.002	.020	2	12	40	36
SF-1 at 235	01-10-97	1030	.001	.040	3	13	20	<3.0
MOGW	03-20-95	1700	.004	<.010	—	23	20	10
	06-09-95	1400	.004	.050	2	13	10	36
UN-1 at 340	08-19-92	1940	.002	.020	8	2.0	230	10
	03-02-93	1340	.001	.020	9	3.0	230	<3.0
UN-1 at 200	08-20-92	0940	<.001	.020	9	<2.0	60	5.0
	03-02-93	1450	.021	<.010	9	2.0	50	<3.0
UN-1 at 100	08-20-92	1115	.001	.020	3	9.0	30	3.0
	03-02-93	1635	<.001	.020	2	16	30	<3.0
UN-1 at 50	08-20-92	1250	.007	.28	1	55	350	3.0
	03-02-93	1530	.006	.27	<1	67	390	<3.0
Regional Park	02-14-97	1300	—	—	—	—	—	—
Phelan-1 NO 1	06-01-94	1330	.053	.040	53	.0	170	620
Phelan-1 NO 2	06-01-94	1730	.004	.020	11	20	20	190
Phelan 1 NO 3	01-17-97	1200	.010	.030	15	4.0	37	<3.0

Table B11. Water-quality data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

Common name	Date	Time	Manganese, dissolved (µg/L as Mn)	Strontium, dissolved (µg/L as Sr)	Lithium, dissolved (µg/L as Li)	Methylene blue active substance (mg/L	$^2H/^1H$ stable isotope (ratio per mil)
Del Oro 1 at 600	06-02-94	1330	30	4,800	40	—	-84.2
RS-1 at 600	06-29-93	2030	11	130	—	—	-61.9
	01-28-94	1147	<1.0	160	7	—	-62.8
RS-1 at 375	06-30-93	1300	36	210	—	—	-63.5
	01-28-94	1044	4.0	160	4	—	-62.5
RS-1 at 195	06-30-93	1655	37	270	—	—	-66.2
	01-28-94	1257	2.0	180	<4	—	-66.4
RS-1 at 95	07-01-93	1040	42	110	—	—	-65.8
	03-08-94	1200	34	260	9	—	-63.0
	11-08-94	1145	—	—	—	—	-67.6
RS-1 at 55	07-01-93	1230	21	85	—	—	-66.6
	11-08-94	1220	—	—	—	—	-71.1
Deep Creek at 550	06-18-92	1000	<1.0	—	—	—	-62.0
	01-12-93	1240	<1.0	290	—	—	-63.1
Deep Creek at 380	06-18-92	1300	6.0	—	—	—	-63.5
	01-12-93	1820	<1.0	210	—	—	-64.6
Deep Creek at 260	06-17-92	1800	7.0	—	—	—	-65.5
	01-12-93	1745	<1.0	230	—	—	-66.7
Deep Creek at 140	06-18-92	1600	4.0	—	—	—	-74.5
	01-12-93	1555	<1.0	220	—	—	-74.0
JR-1 at 620	06-24-92	1245	1.0	19	—	—	-79.0
	01-13-93	1330	1.0	17	—	—	-79.6
	01-11-95	1830	1.0	18	13	—	-78.4
JR-1 at 330	06-24-92	1415	3.0	210	—	—	-63.5
	01-20-93	1250	<1.0	82	—	—	-63.1
JR-1 at 190	06-24-92	1540	3.0	69	—	—	-66.0
	01-13-93	1620	<1.0	210	—	—	-62.0
	11-08-94	1430	—	—	—	—	-63.7
JR-1 at 80	06-24-92	1800	8.0	220	—	—	-67.5
	01-13-93	1520	<1.0	96	—	—	-73.5
	11-08-94	1350	—	—	—	—	-64.9
SF-1 at 790	03-09-94	1515	2.0	14	<4	—	-85.6
SF-1 at 510	03-09-94	2015	17	47	<4	—	-60.0
SF-1 at 360	03-11-94	1051	13	210	<4	—	-62.9
SF-1 at 235	01-10-97	1030	2.0	240	4	—	-60.6
MOGW	03-20-95	1700	1.0	140	<4	0.06	-68.7
	06-09-95	1400	<1.0	92	5	—	-75.1
UN-1 at 340	08-19-92	1940	<1.0	61	—	—	-63.0
	03-02-93	1340	<1.0	72	—	—	-65.8
UN-1 at 200	08-20-92	0940	<1.0	36	—	—	-64.5
	03-02-93	1450	<1.0	43	—	—	-64.0
UN-1 at 100	08-20-92	1115	2.0	240	—	—	-63.5
	03-02-93	1635	<1.0	280	—	—	-62.1
UN-1 at 50	08-20-92	1250	4.0	1,200	—	—	-63.0
	03-02-93	1530	<1.0	1,200	—	—	-62.6
Regional Park	02-14-97	1300	—	—	—	—	—
Phelan-1 NO 1	06-01-94	1330	16	28	<4	—	-96.4
Phelan-1 NO 2	06-01-94	1730	14	300	5	—	-85.2
Phelan 1 NO 3	01-17-97	1200	69	530	14	—	-81.8

Table B11. Water-quality data for monitoring sites in the Alto subarea of the Mojave River ground-water basin, San Bernardino County, California—Continued

Common name	Date	Time	$^{18}O/^{16}O$ stable isotope (ratio per mil)	Tritium in water molecules (TU)	Tritium water molecules count error (TU)	$^{13}C/^{12}C$ stable isotope (ratio per mil)	Carbon 14 (percent modern)
Del Oro 1 at 600	06-02-94	1330	-11.62	<0.1	0.1	-14.30	—
RS-1 at 600	06-29-93	2030	-9.53	.5	.1	-11.70	90.1
	01-28-94	1147	-9.31	—	—	—	—
RS-1 at 375	06-30-93	1300	-9.41	5.3	.3	-10.30	90.1
	01-28-94	1044	-9.33	—	—	—	—
RS-1 at 195	06-30-93	1655	-9.77	6.6	.4	—	—
	01-28-94	1257	-9.51	—	—	—	—
RS-1 at 95	07-01-93	1040	-9.67	5.0	.3	—	—
	03-08-94	1200	-9.16	—	—	—	—
	11-08-94	1145	-8.57	—	—	—	—
RS-1 at 55	07-01-93	1230	-9.82	5.0	.3	—	—
	11-08-94	1220	-8.79	—	—	—	—
Deep Creek at 550	06-18-92	1000	-9.25	.2	.1	—	—
	01-12-93	1240	-9.30	.1	.1	-12.10	65.9
Deep Creek at 380	06-18-92	1300	-9.40	10.5	.3	—	—
	01-12-93	1820	-9.47	8.6	.2	-10.00	117
Deep Creek at 260	06-17-92	1800	-9.65	6.6	.4	—	—
	01-12-93	1745	-9.74	—	—	—	—
Deep Creek at 140	06-18-92	1600	-10.65	5.9	.4	—	—
	01-12-93	1555	-10.68	—	—	—	—
JR-1 at 620	06-24-92	1245	-11.10	.1	.1	—	—
	01-13-93	1330	-11.09	.1	.1	-9.30	.50
	01-11-95	1830	-10.95	.0	—	—	—
JR-1 at 330	06-24-92	1415	-9.20	.1	.1	—	—
	01-20-93	1250	-9.55	.0	.1	-10.00	83.4
JR-1 at 190	06-24-92	1540	-9.60	12.9	.1	—	—
	01-13-93	1620	-9.25	12.2	.4	—	—
	11-08-94	1430	-9.12	—	—	—	—
JR-1 at 80	06-24-92	1800	-9.55	5.1	.3	—	—
	01-13-93	1520	-10.43	—	—	—	—
	11-08-94	1350	-9.24	—	—	—	—
SF-1 at 790	03-09-94	1515	-11.90	<.1	.1	-9.60	4.0
SF-1 at 510	03-09-94	2015	-8.81	<.1	.1	-11.00	41.4
SF-1 at 360	03-11-94	1051	-9.36	<.1	.1	-19.20	95.3
SF-1 at 235	01-10-97	1030	-9.33	<.1	.1	—	—
MOGW	03-20-95	1700	-9.67	.6	.1	—	—
	06-09-95	1400	-10.46	.2	.1	-14.60	32.8
UN-1 at 340	08-19-92	1940	-8.90	.2	.1	—	—
	03-02-93	1340	-9.62	.3	.1	-12.30	51.6
UN-1 at 200	08-20-92	0940	-9.50	—	—	—	—
	03-02-93	1450	-9.53	.0	.1	—	—
UN-1 at 100	08-20-92	1115	-9.40	.7	.3	—	—
	03-02-93	1635	-9.41	—	—	—	—
UN-1 at 50	08-20-92	1250	-9.15	1.5	.3	—	—
	03-02-93	1530	-9.20	—	—	—	—
Regional Park	02-14-97	1300	—	—	—	—	—
Phelan-1 NO 1	06-01-94	1330	-13.12	<.1	.1	-10.80	1.2
Phelan-1 NO 2	06-01-94	1730	-11.83	<.1	.1	-10.00	10.7
Phelan 1 NO 3	01-17-97	1200	-11.61	<.1	.1	—	—