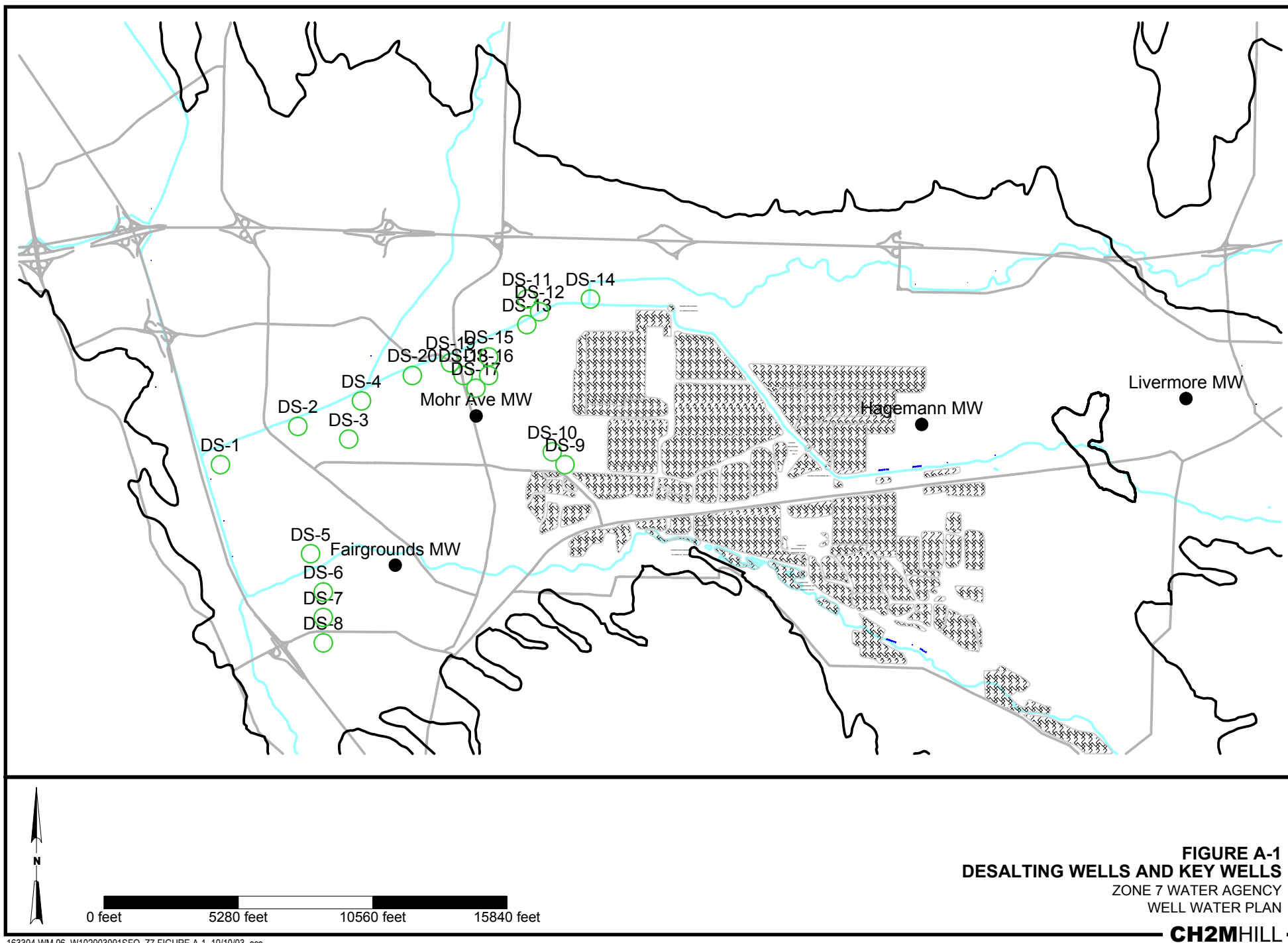


Appendix A
Location of Modeled Shallow Desalting Wells



Appendix B

Hydrographs for Select Scenarios

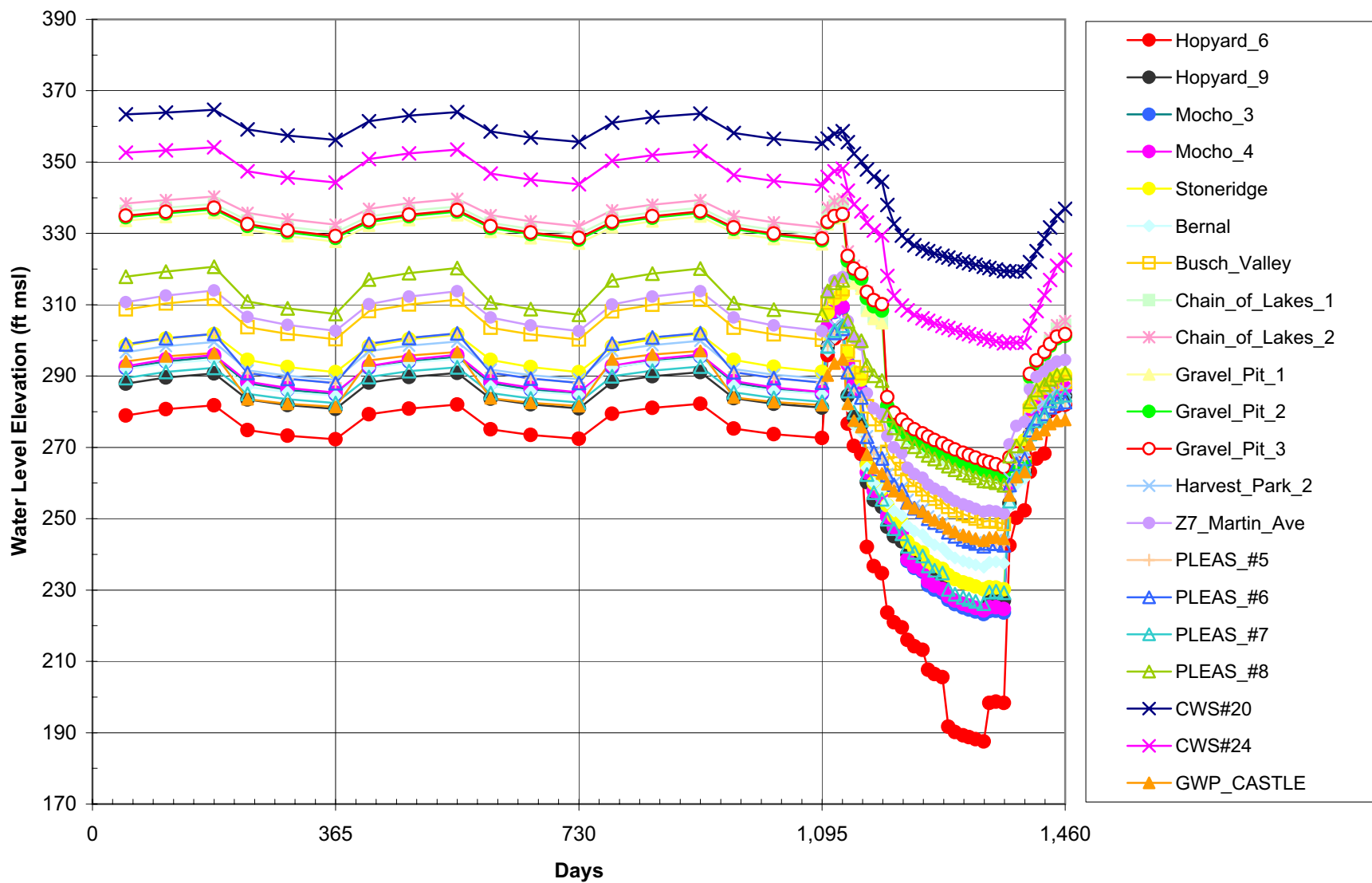


FIGURE B-1
HYDROGRAPHS OF DEEP AQUIFER WELLS
 ZONE 7 WATER AGENCY
 WELL WATER PLAN

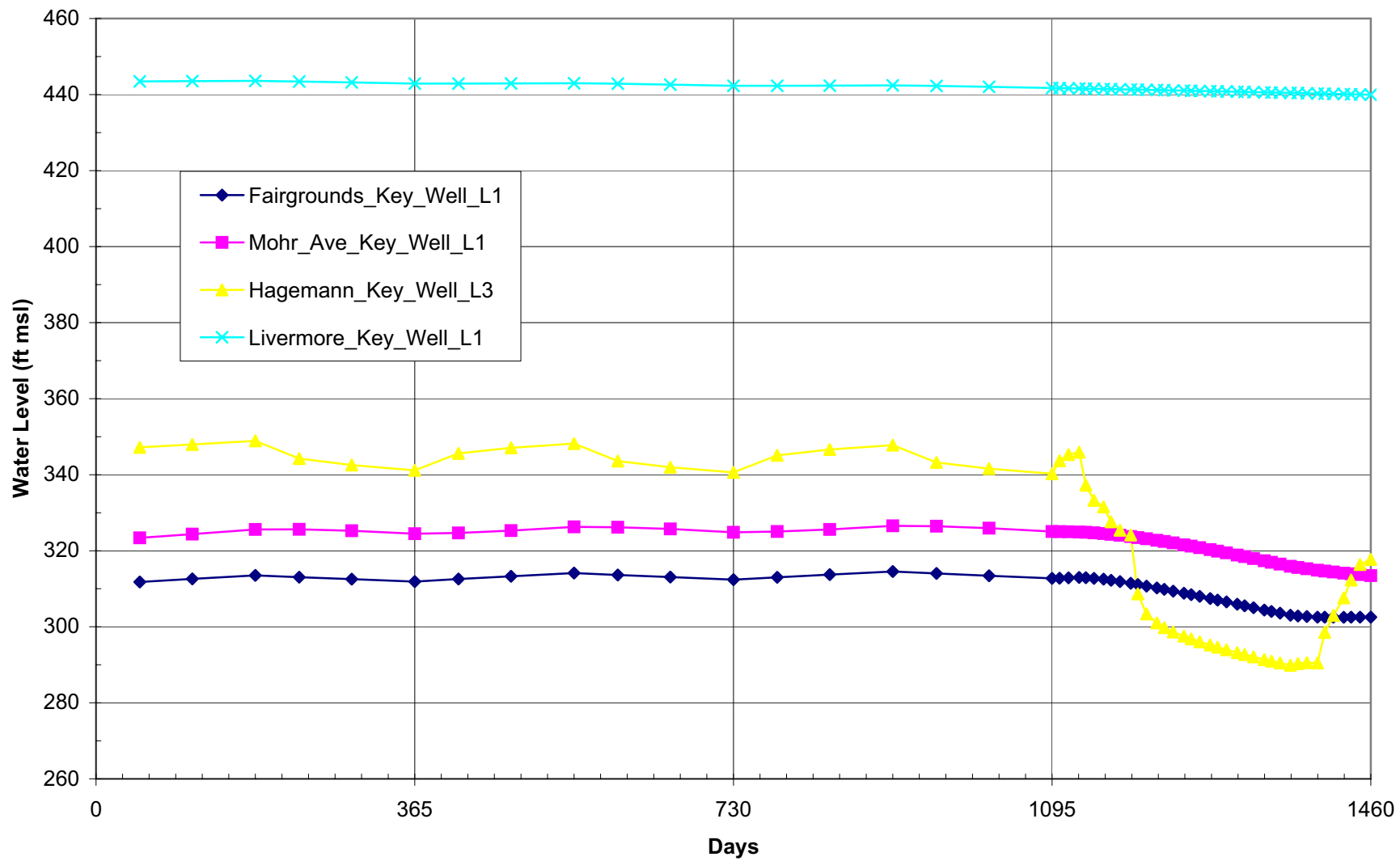


FIGURE B-2
KEY WELL HYDROGRAPHS
 ZONE 7 WATER AGENCY
 WELL WATER PLAN
CH2MHILL

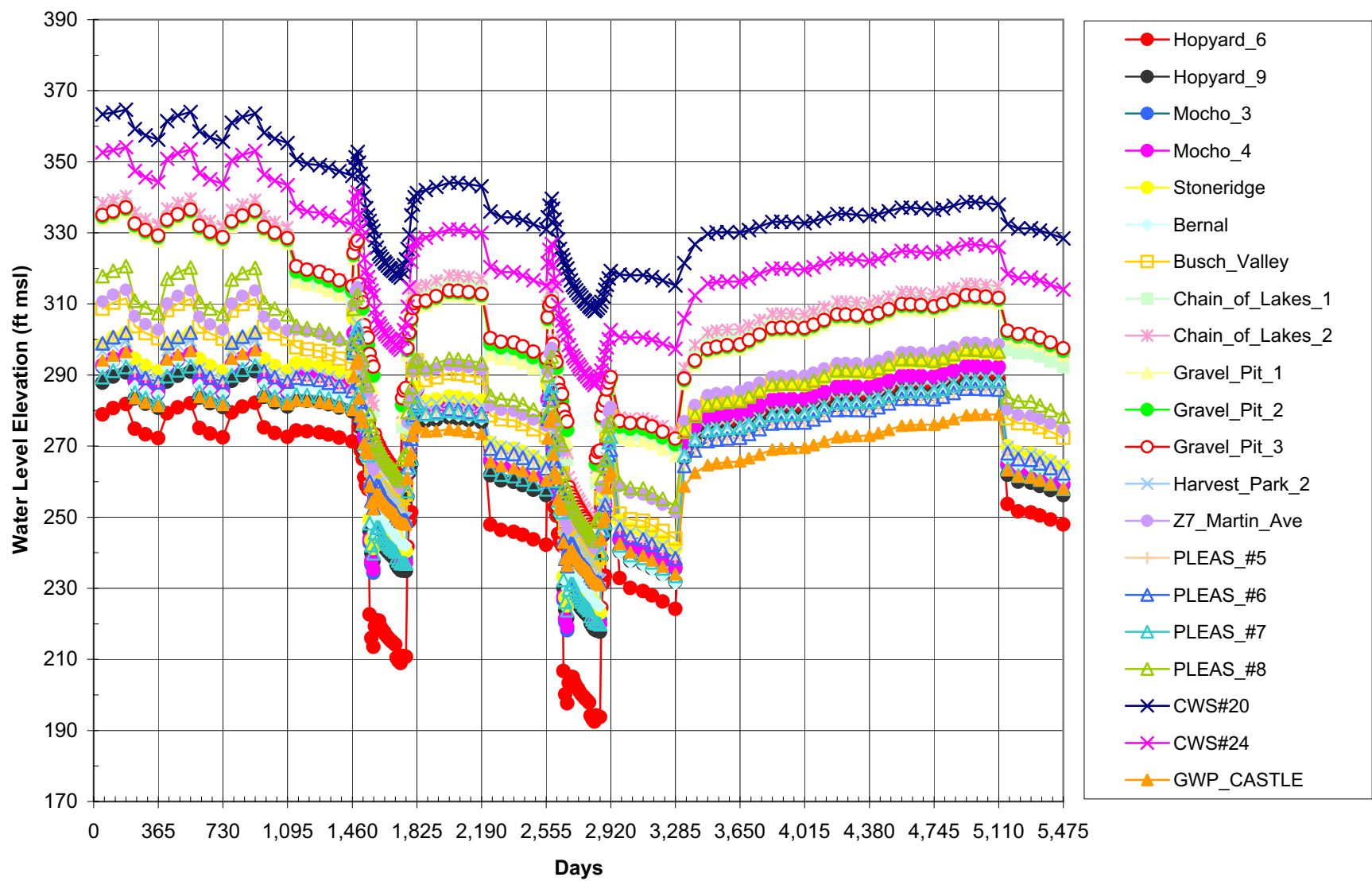


FIGURE B-3
HYDROGRAPHS OF DEEP AQUIFER WELLS
 ZONE 7 WATER AGENCY
 WELL WATER PLAN

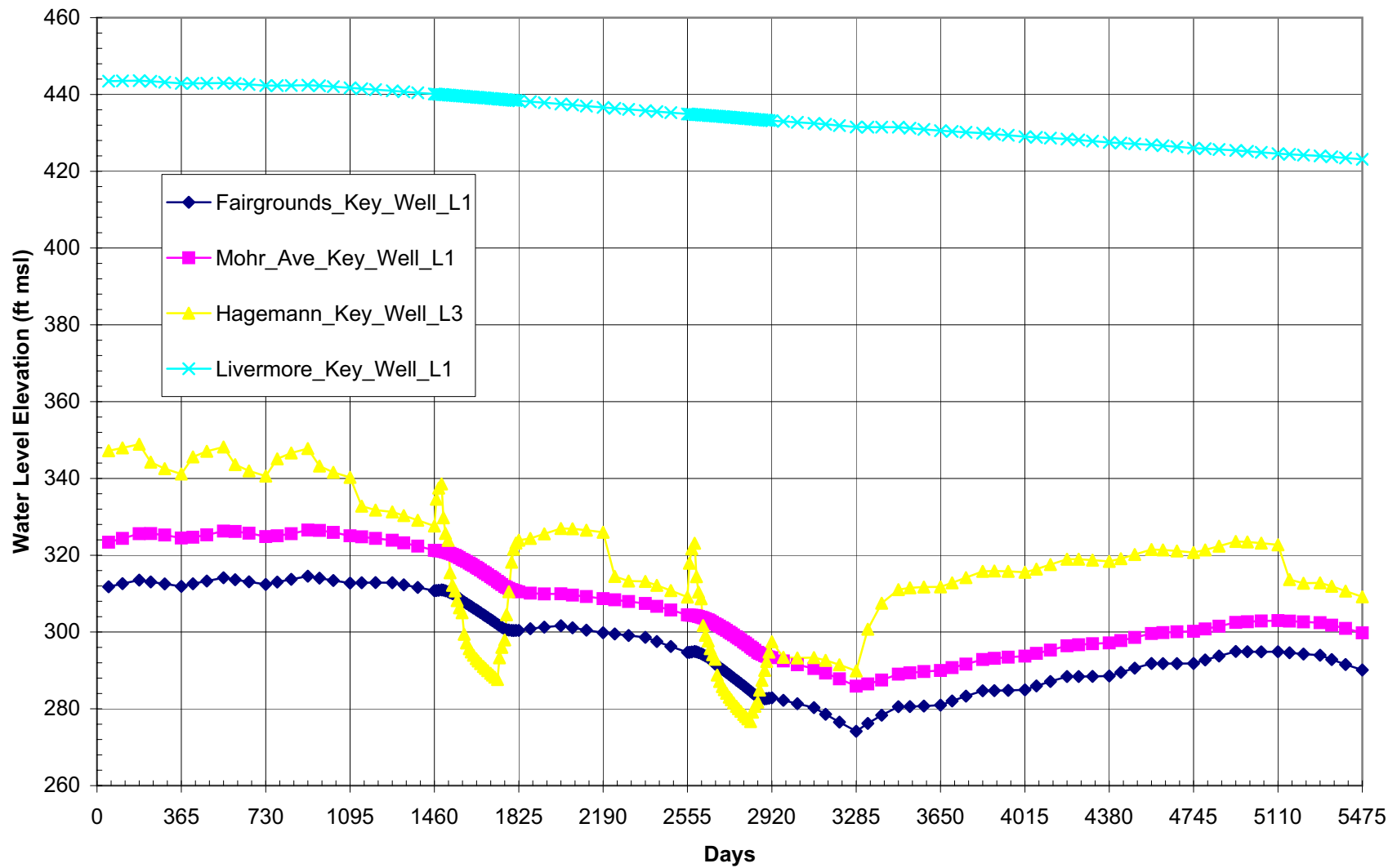


FIGURE B-4
KEY WELL HYDROGRAPHS
 ZONE 7 WATER AGENCY
 WELL WATER PLAN
CH2MHILL

Appendix C
Water Level Maps for Select Scenarios

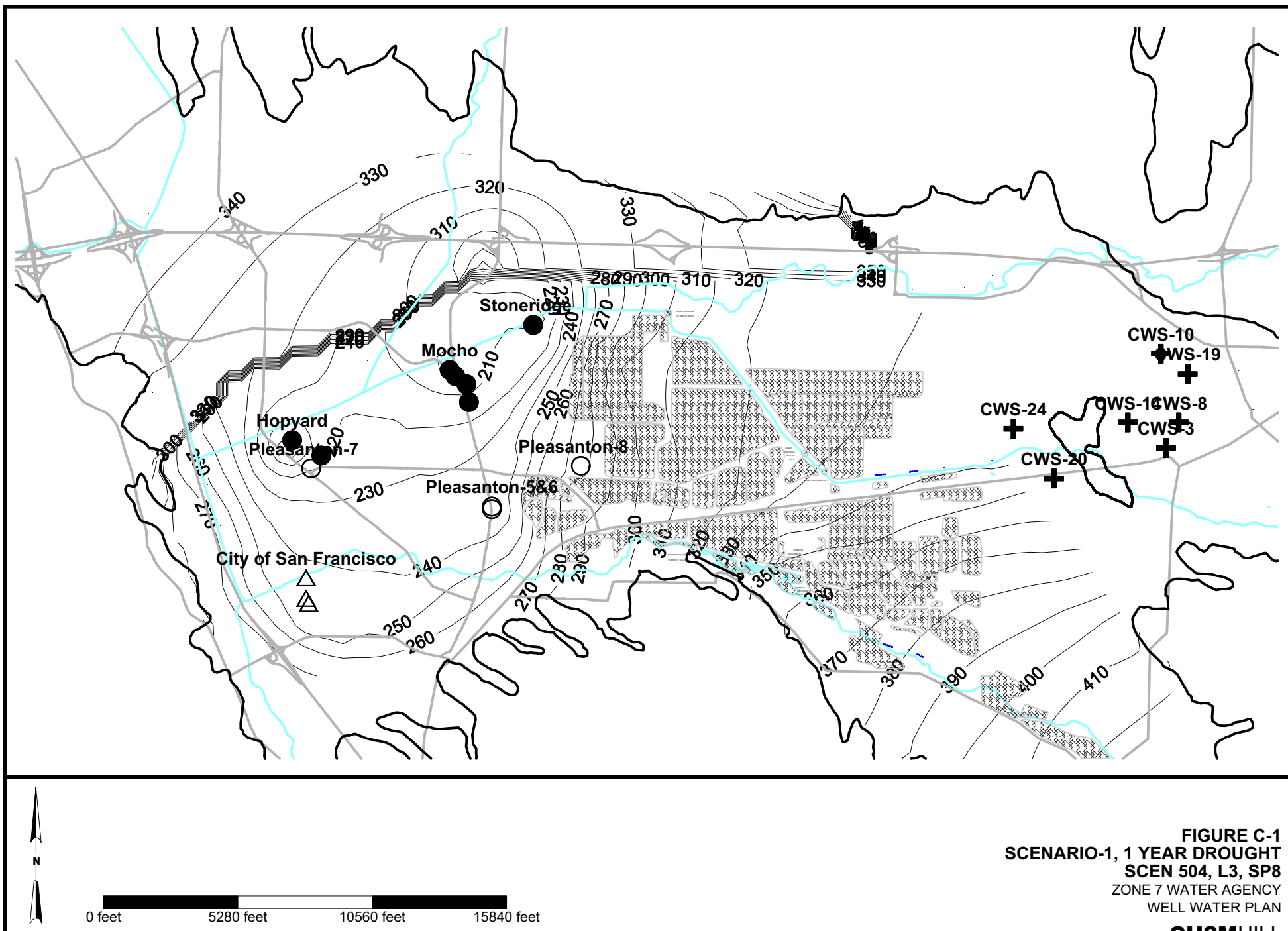
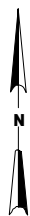
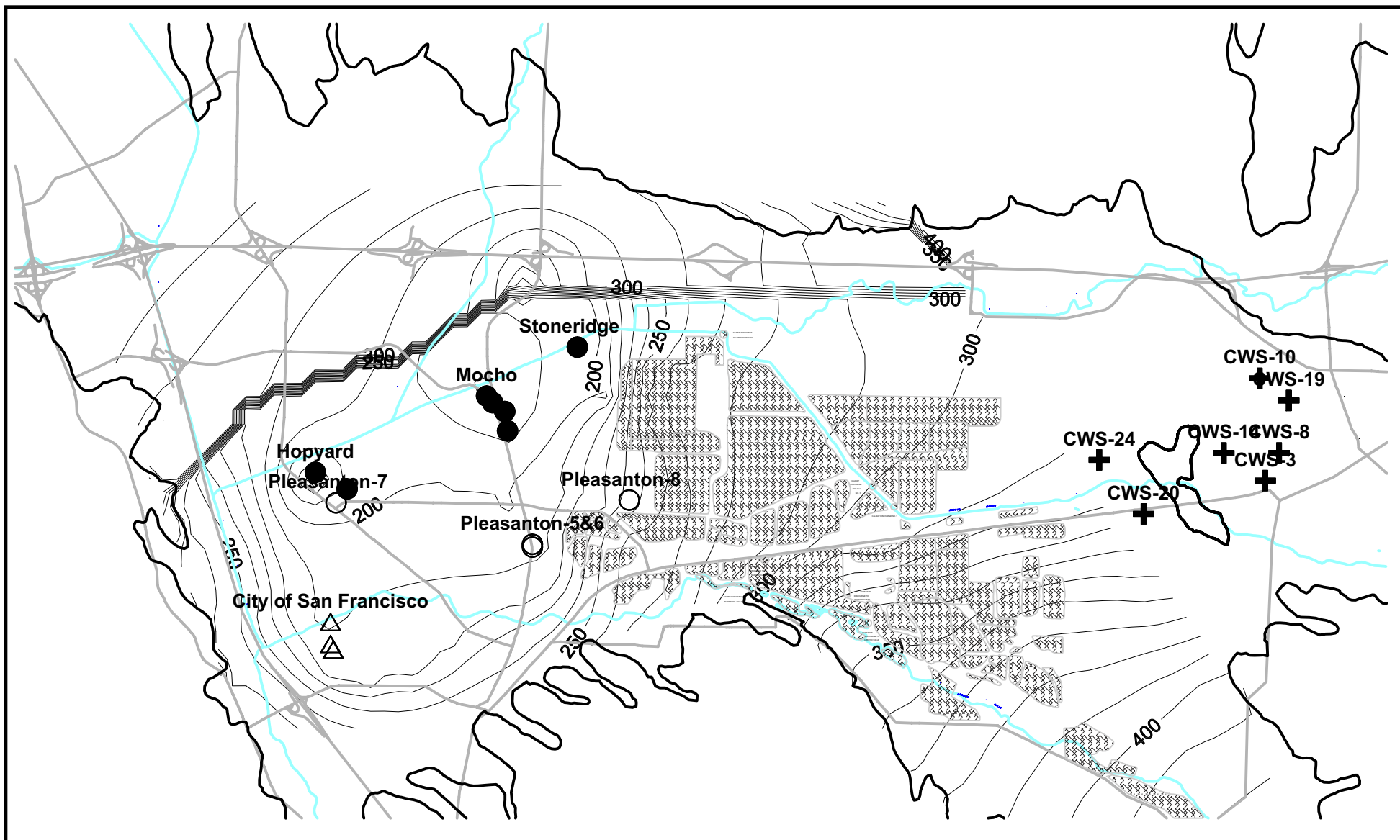


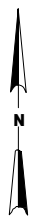
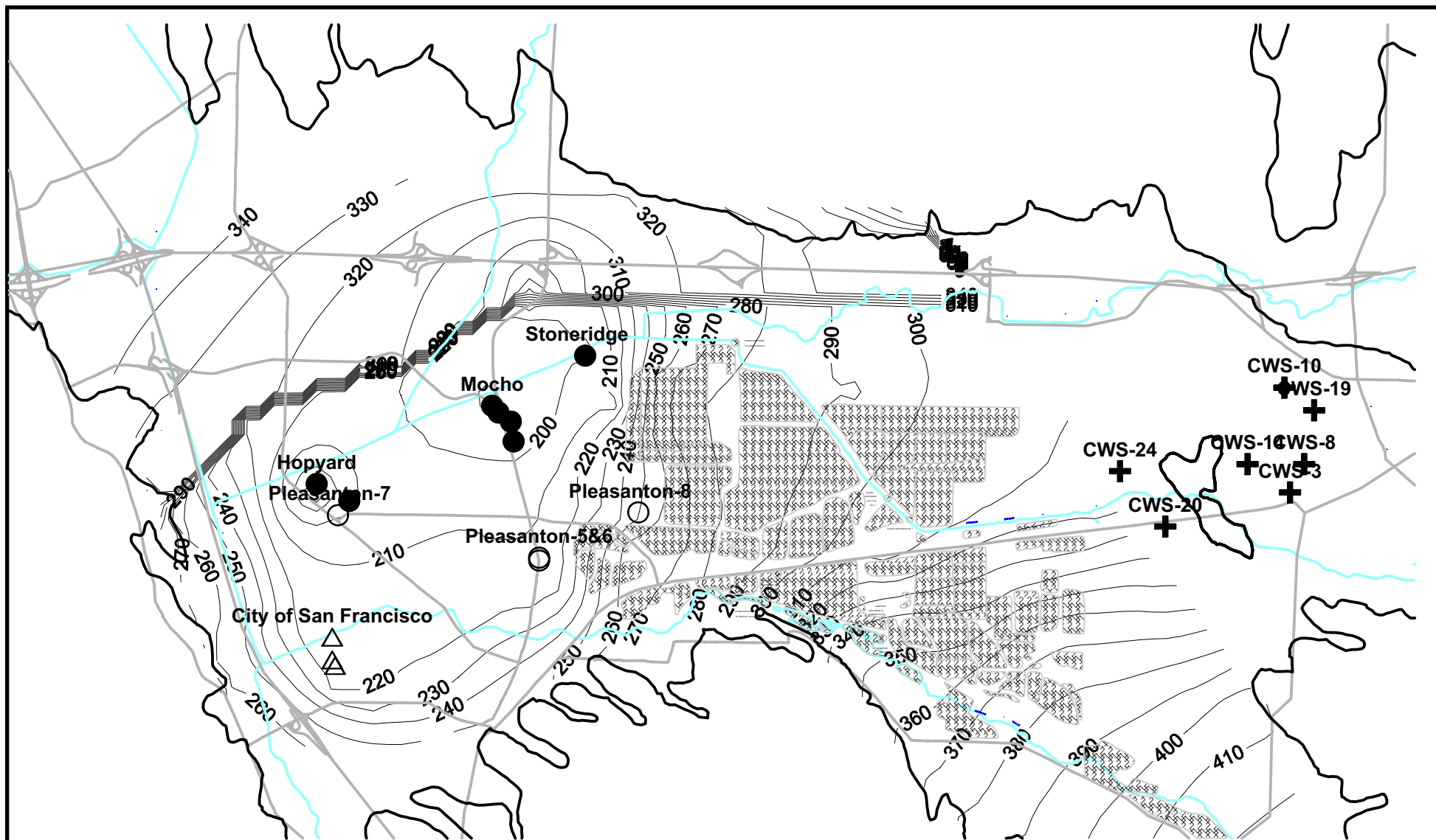
FIGURE C-1
SCENARIO-1, 1 YEAR DROUGHT
SCEN 504, L3, SP8
 ZONE 7 WATER AGENCY
 WELL WATER PLAN
CH2MHILL



0 feet 5280 feet 10560 feet 15840 feet

FIGURE C-2
SCENARIO-2, 1 YEAR DROUGHT
SCEN 503, L3, SP8
 ZONE 7 WATER AGENCY
 WELL WATER PLAN

CH2MHILL



0 feet 5280 feet 10560 feet 15840 feet

FIGURE C-3
SCENARIO-3, 1 YEAR DROUGHT
SCEN 502, L3, SP8
 ZONE 7 WATER AGENCY
 WELL WATER PLAN

CH2MHILL

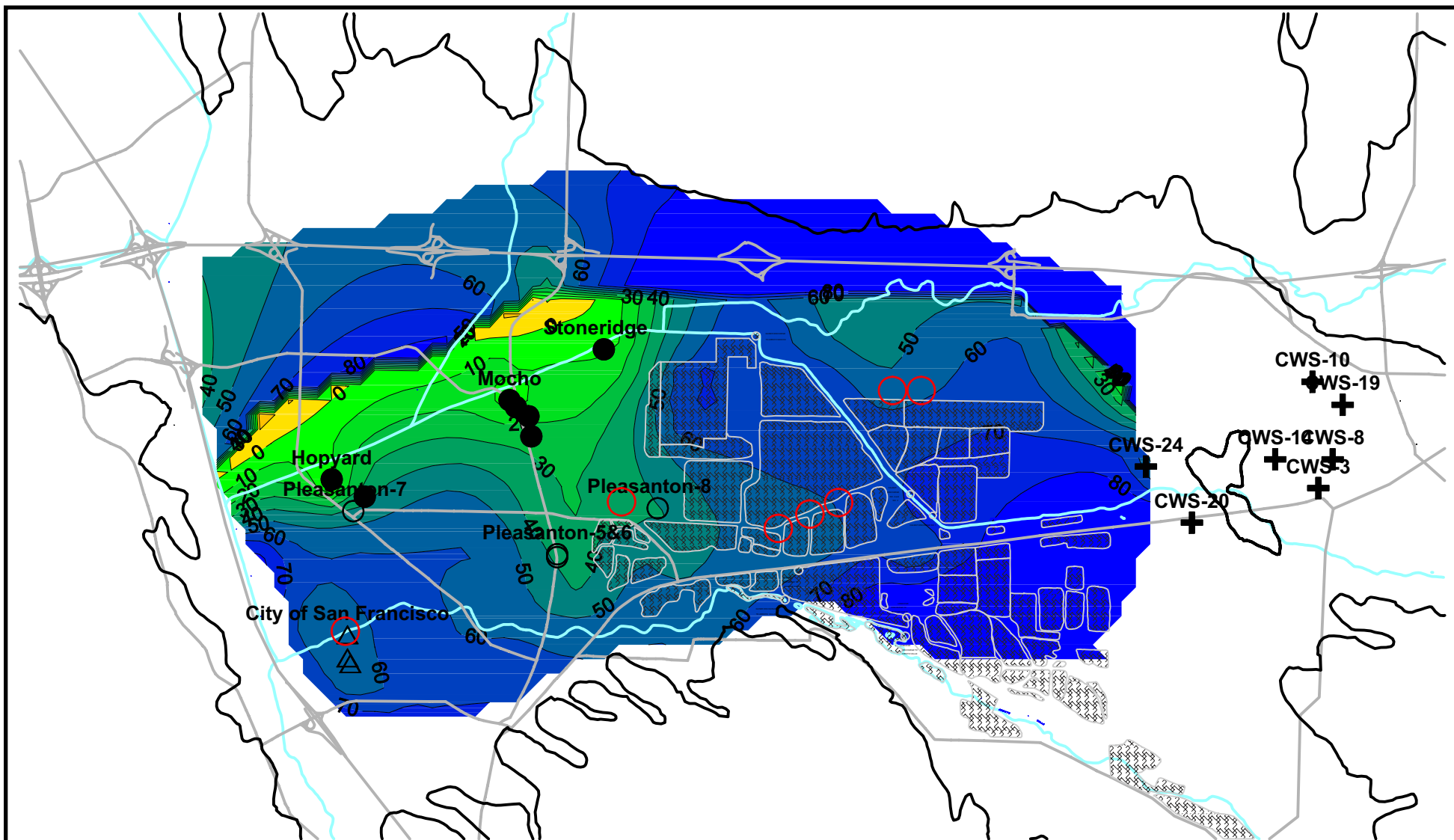
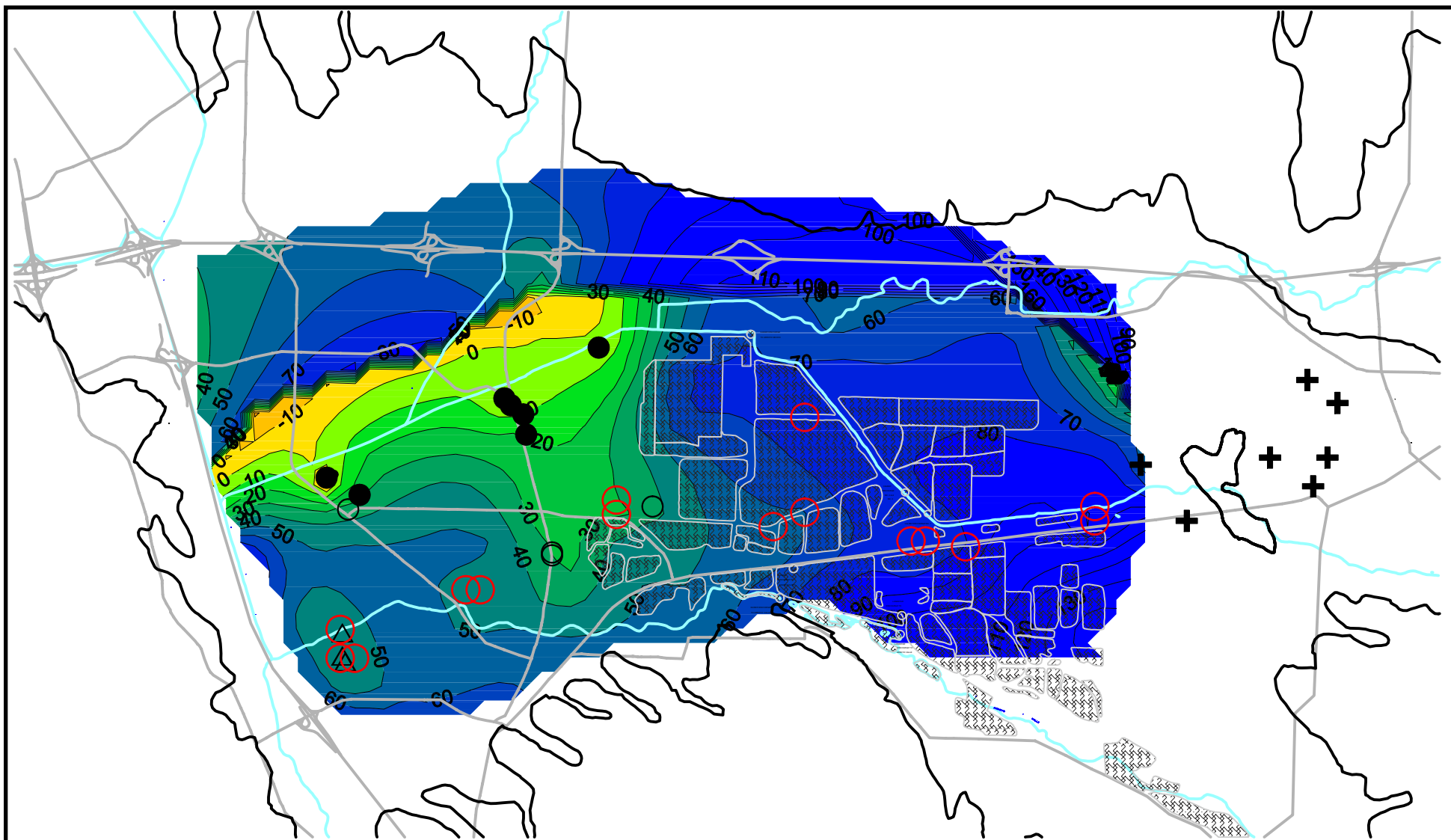


FIGURE C-4
SCENARIO-2e: DISPERSED WELLS
45 mgd PUMPING CAPACITY
WATER LEVEL DIFFERENCE MAP FOR THE DEEP AQUIFER
 ZONE 7 WATER AGENCY
 WELL WATER PLAN



LEGEND

- Zone 7 wells
- City of Pleasanton wells
- △ City of San Francisco wells
- ⊕ Cal-Water wells
- New wellfields

0 feet 5280 feet 10560 feet 15840 feet

FIGURE C-5
SCENARIO-2f: MORE DISPERSED WELLS, NO CHAIN OF LAKES WELLFIELDS
MAX 45 mgd PUMPING CAPACITY
WATER LEVEL DIFFERENCE MAP FOR THE DEEP AQUIFER
 ZONE 7 WATER AGENCY
 WELL WATER PLAN

(S2-WL diff-Scen508-L3-SP14)

Appendix D

Cell Size and Well Efficiency Data

	Q	T	well dia	cell length	Adjust head by:	Re	
	(gpm)	(gpd/ft)	(inches)	(feet)	(feet)	(feet)	
Hop-6	3,600	175,000	18	500	20	104	
Hop-9	1,300	325,000	18	500	4	104	
Mocho-1	2,400	300,000	18	500	8	104	
Mocho-2	2,300	275,000	18	500	8	104	
Mocho-3	4,100	250,000	18	500	16	104	
Mocho-4	3,700	225,000	18	500	16	104	
Stoneridge-1	4,700	200,000	18	500	23	104	
Bernal	4,515	175,000	18	500	25	104	
Busch-Valley	4,515	150,000	18	500	29	104	
Chain of Lakes	4,515	125,000	18	500	35	104	
Gravel Pits	4,515	100,000	18	500	44	104	
Martin Avenue	4,515	75,000	18	500	59	104	
Valley Avenue	4,515	50,000	18	500	88	104	
Pleasanton-5	2,150	25,000	18	500	84	104	
Pleasanton-6	2,150	25,001	18	500	84	104	
Pleasanton-7	0	25,002	18	500	0	104	
Pleasanton-8	3,700	25,003	18	500	144	104	
San Francisco	2,000	25,004	18	500	78	104	

FIGURE D-1
FINITE DIFFERENCE MODEL HEAD ADJUSTMENTS
 ZONE 7 WATER AGENCY
 WELL WATER PLAN

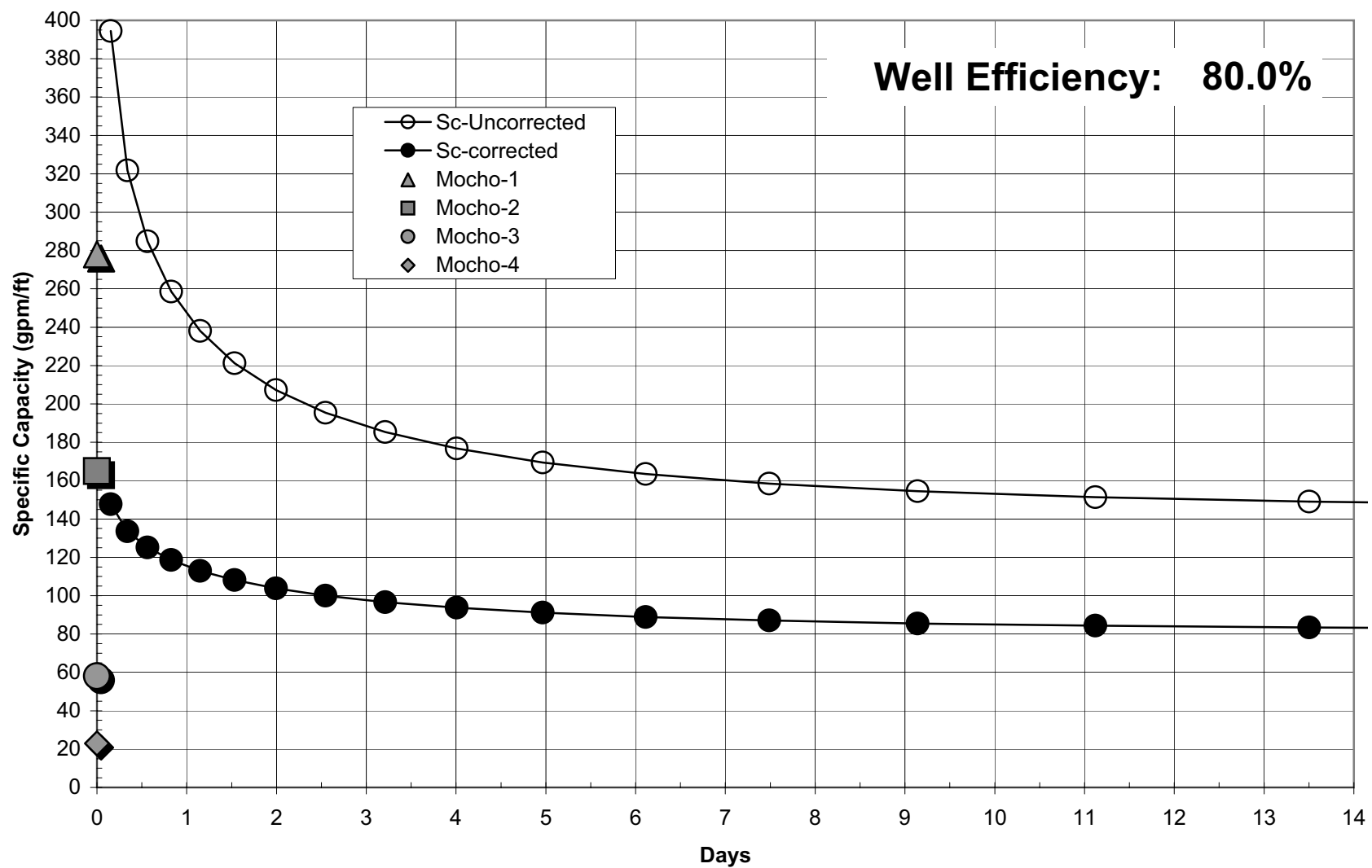


FIGURE D-2
MODELED SPECIFIC CAPACITY IN THE MOCHO WELLFIELD
ZONE 7 WATER AGENCY
WELL WATER PLAN

Appendix E
Time-Drawdown Plots for Individual Wells at New Wellfields

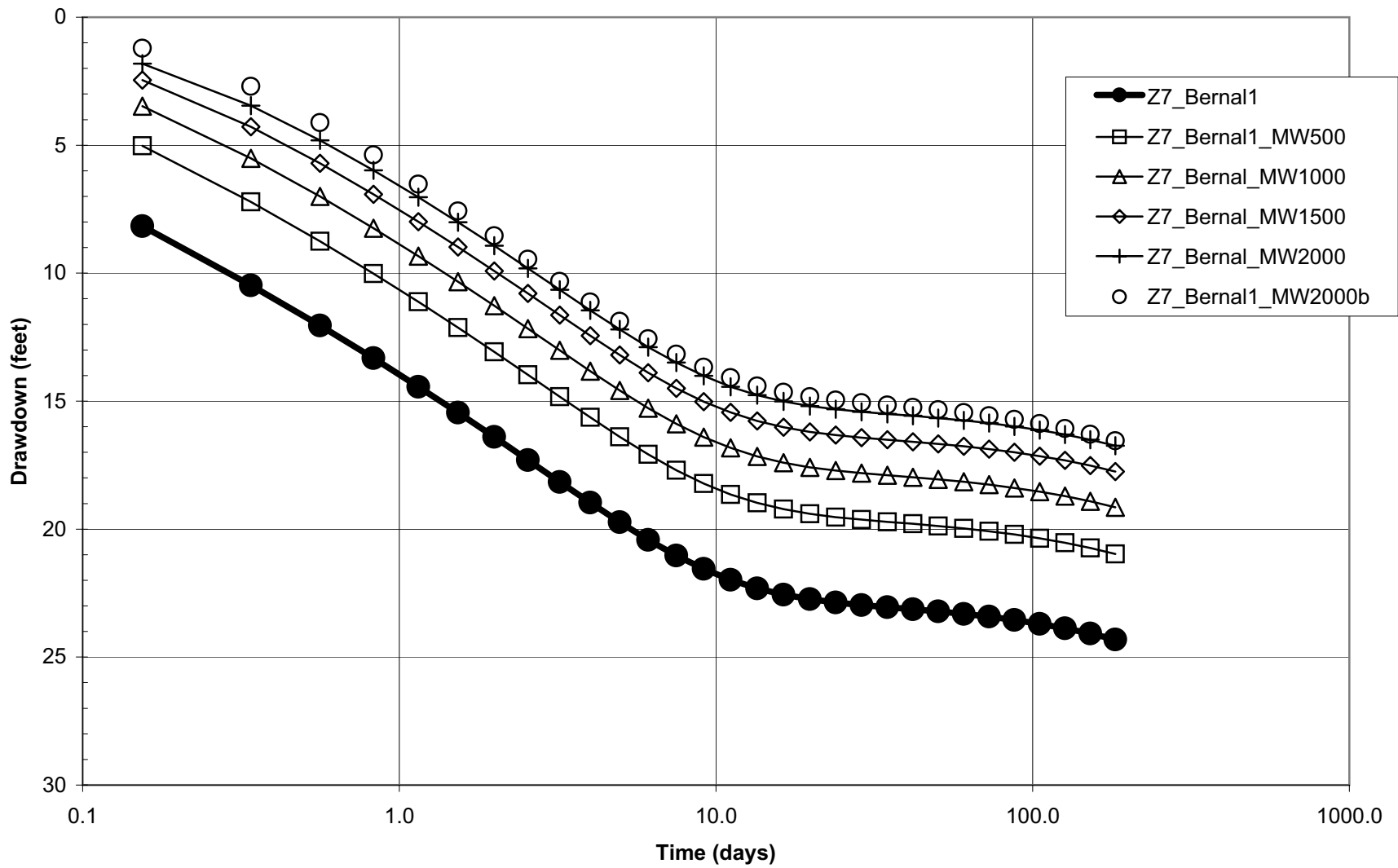


FIGURE E-1
BERNAL NORTH WELL DRAWDOWN
 ZONE 7 WATER AGENCY
 WELL WATER PLAN

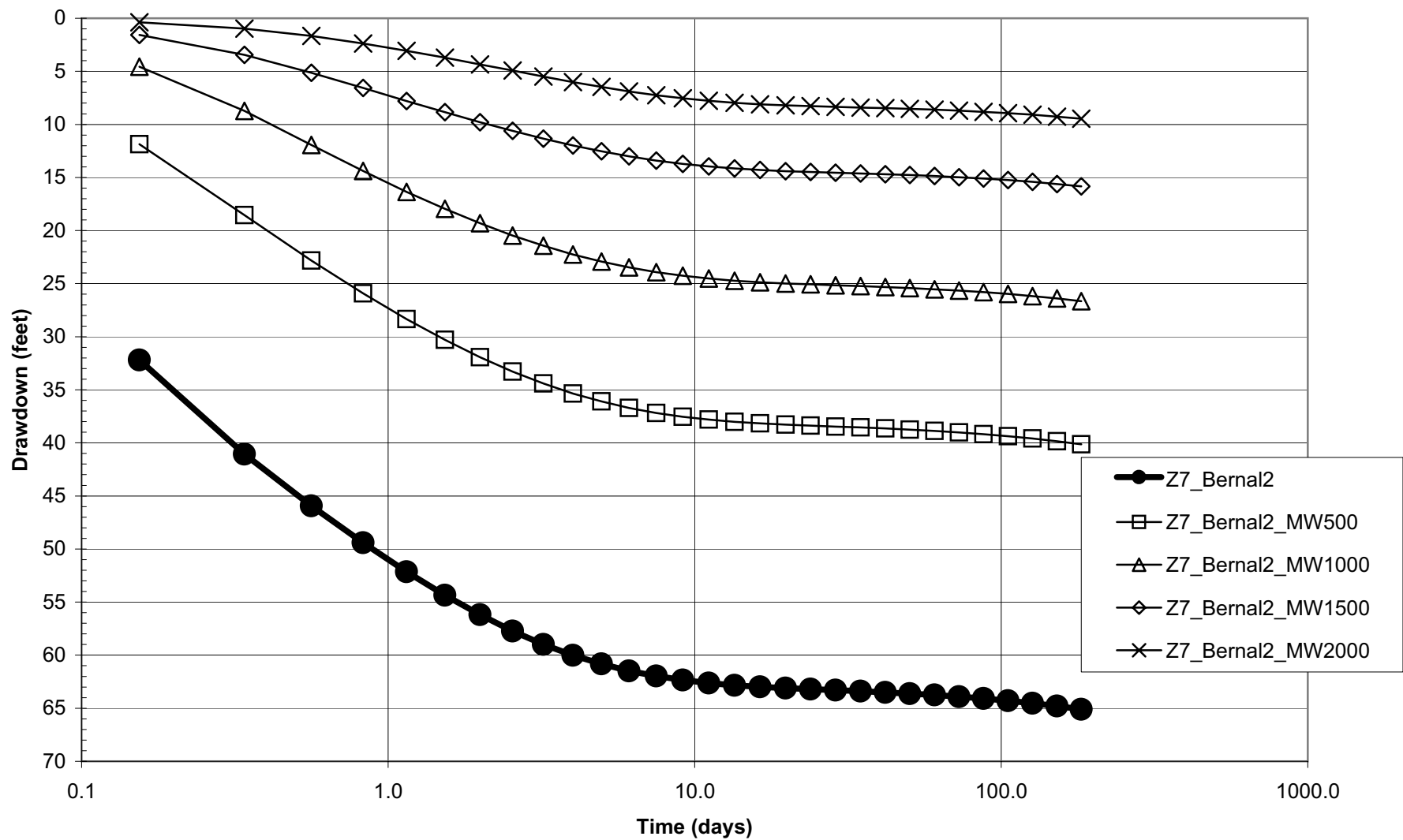


FIGURE E-2
BERNAL SOUTH WELLFIELD:
WELL DRAWDOWN AT SPECIFIED TIMES AND DISTANCES
 ZONE 7 WATER AGENCY
 WELL WATER PLAN

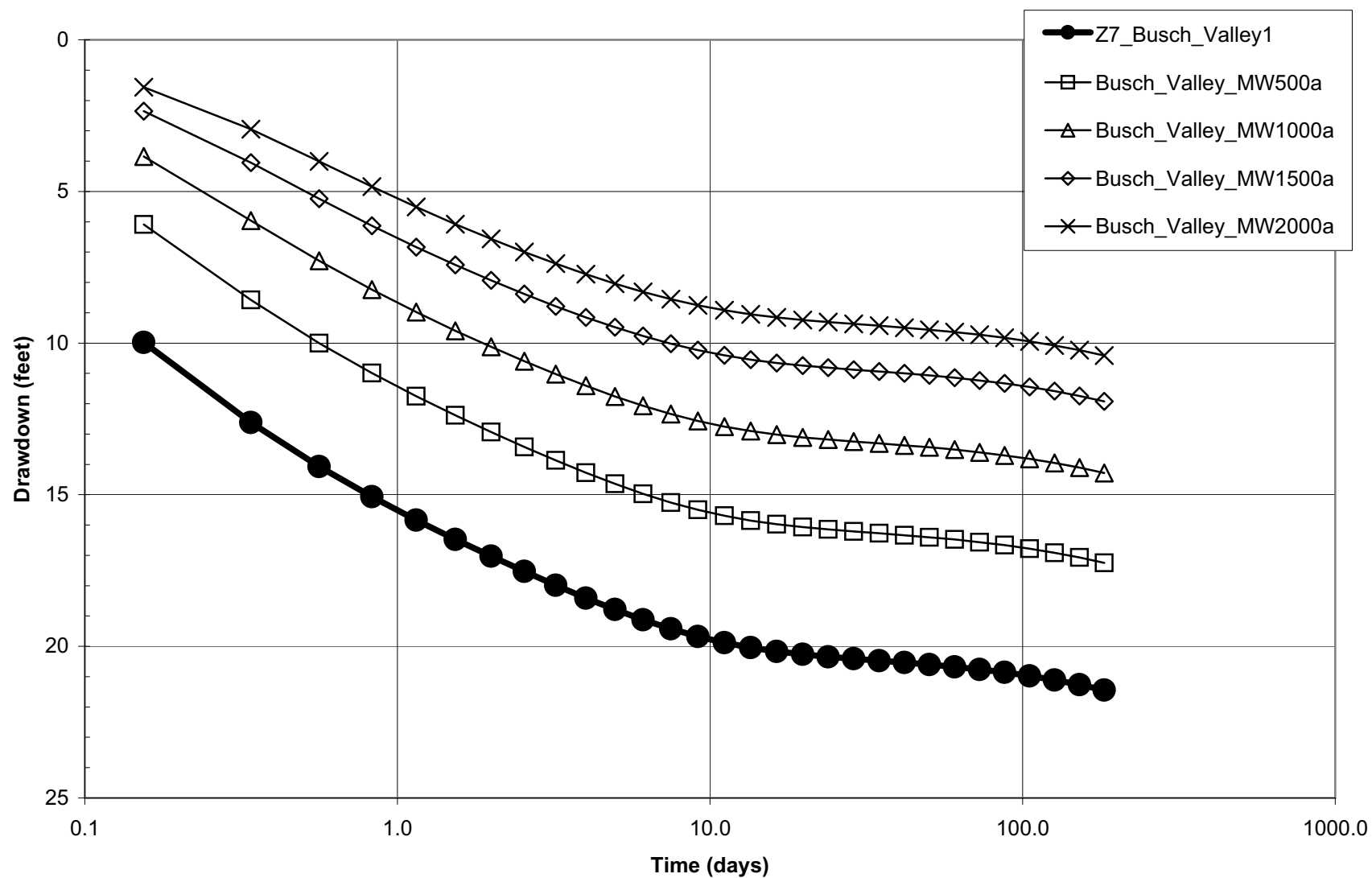


FIGURE E-3
BUSCH-VALLEY WELLFIELD:
WELL DRAWDOWN AT SPECIFIED TIMES AND DISTANCES
 ZONE 7 WATER AGENCY
 WELL WATER PLAN

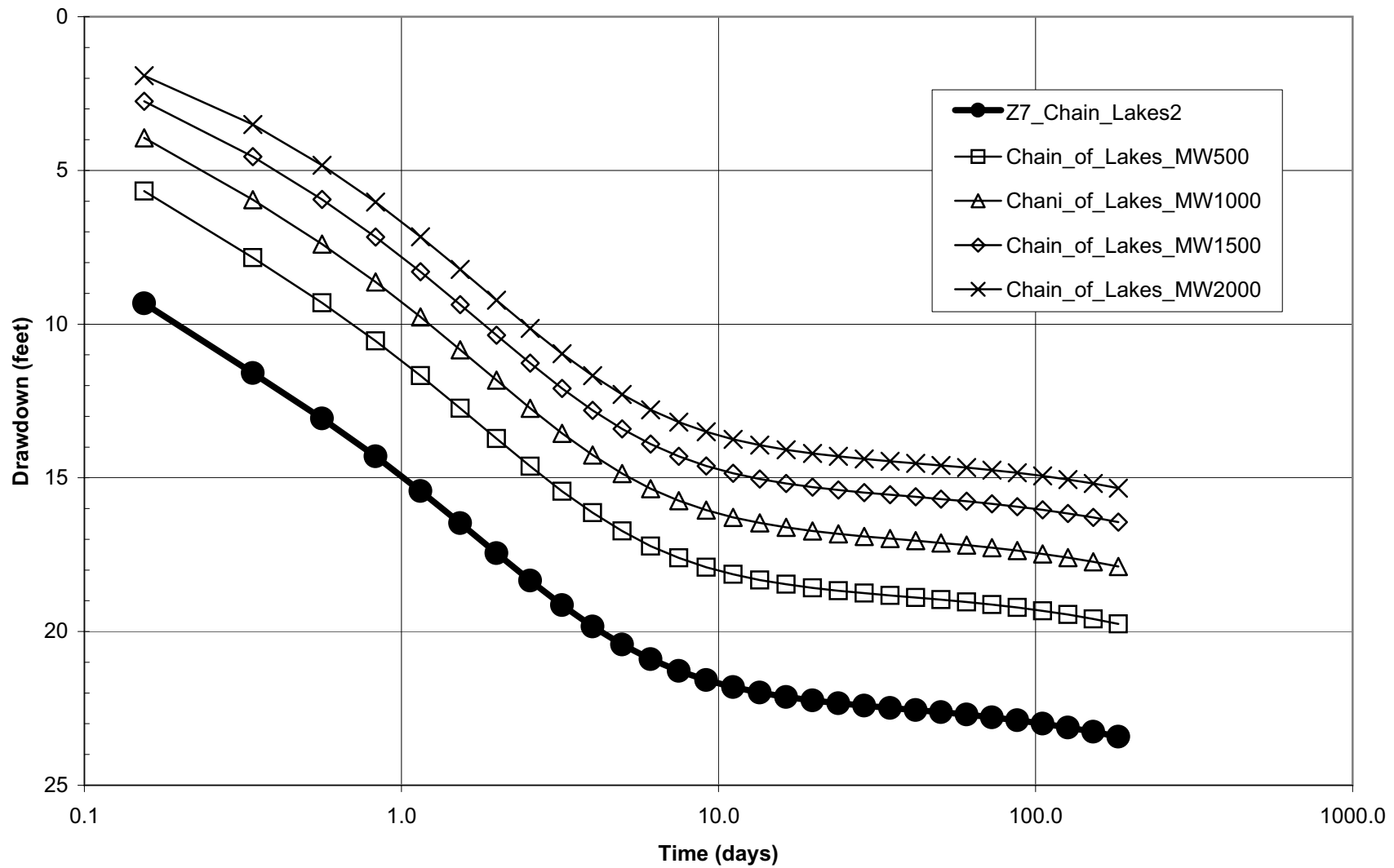


FIGURE E-4
CHAIN OF LAKES WELLFIELD:
WELL DRAWDOWN AT SPECIFIED TIMES AND DISTANCES
 ZONE 7 WATER AGENCY
 WELL WATER PLAN

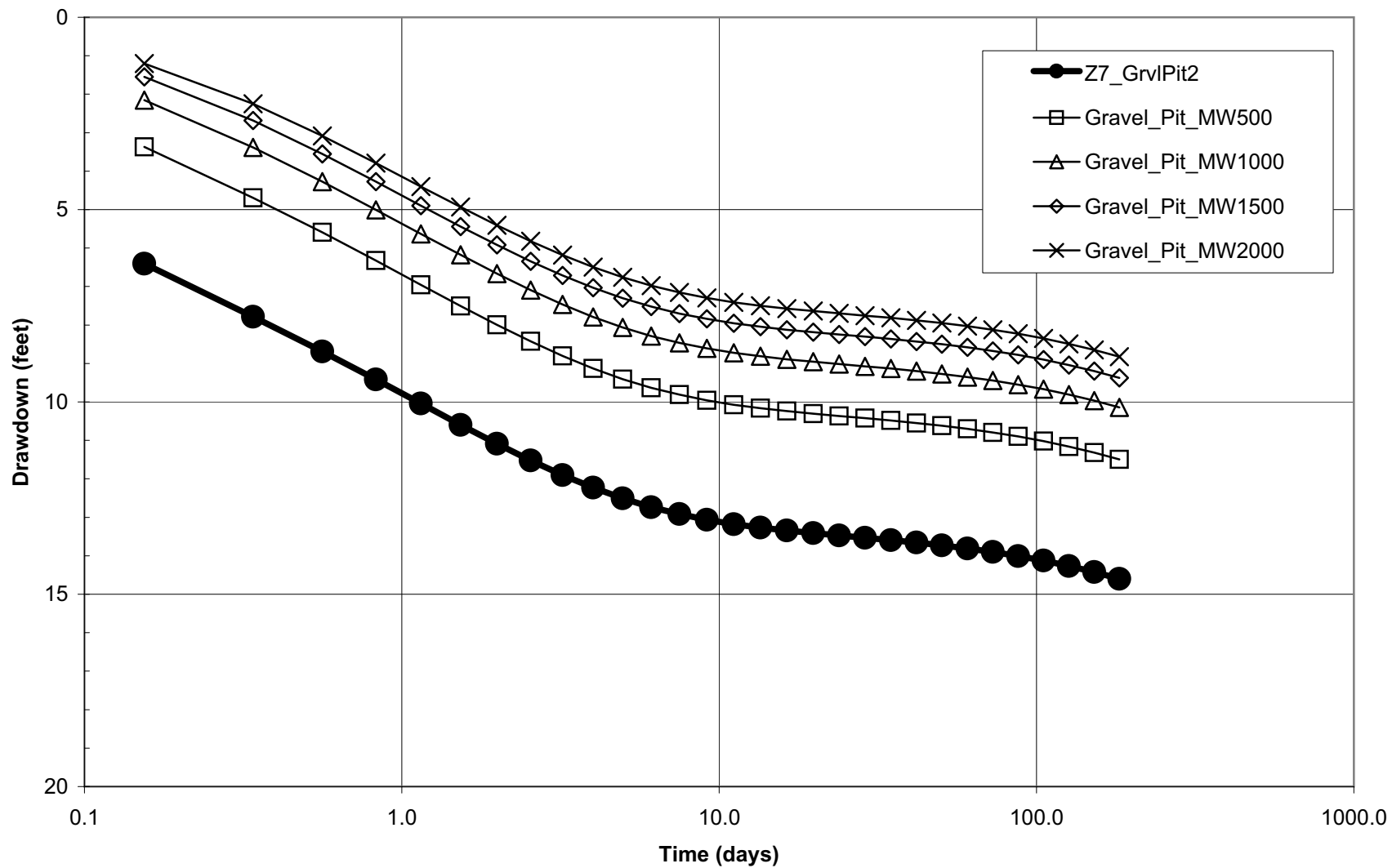


FIGURE E-5
GRAVEL PIT WELLFIELD:
WELL DRAWDOWN AT SPECIFIED TIMES AND DISTANCES
 ZONE 7 WATER AGENCY
 WELL WATER PLAN

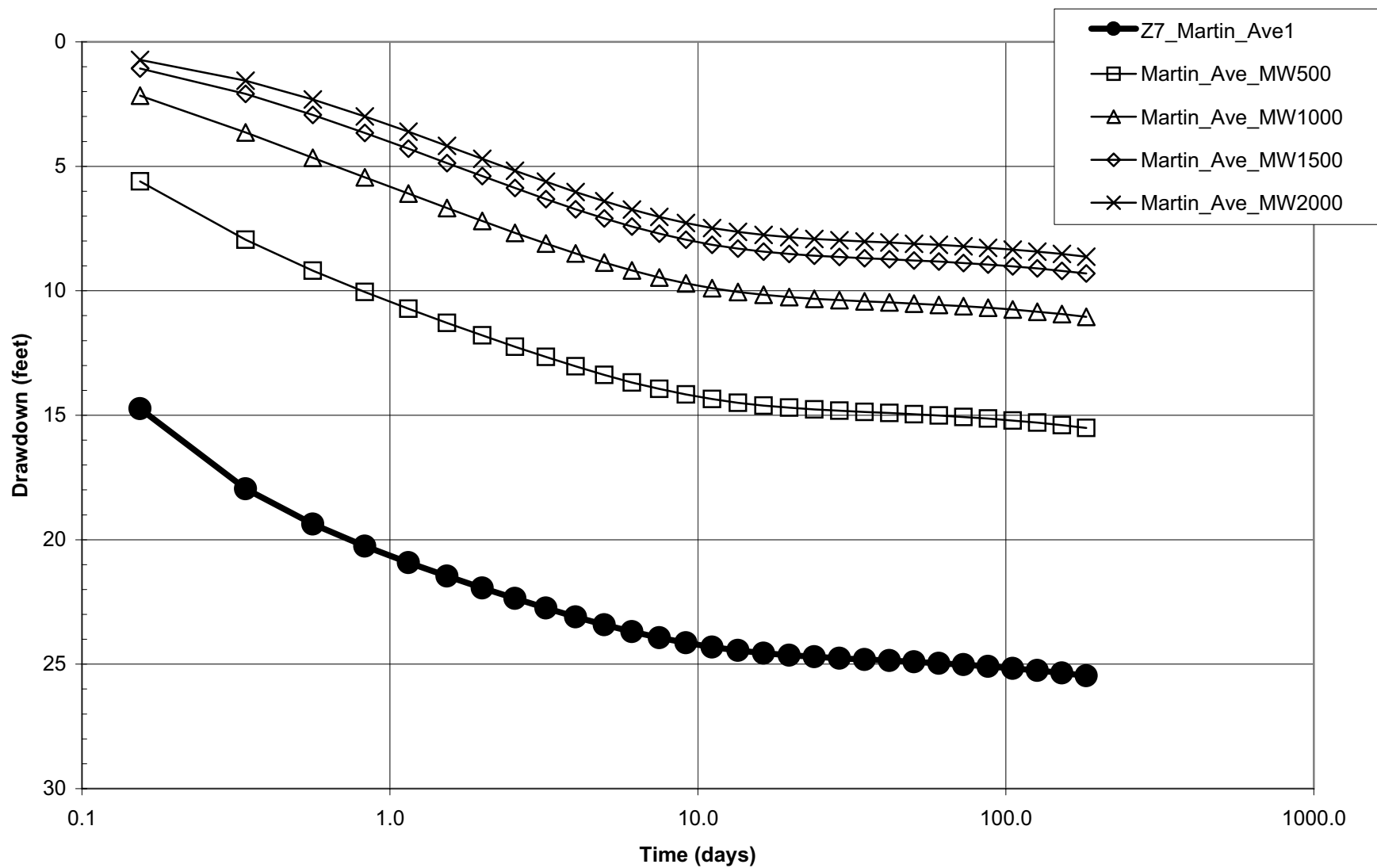


FIGURE E-6
MARTIN AVENUE WELLFIELD:
WELL DRAWDOWN AT SPECIFIED TIMES AND DISTANCES
 ZONE 7 WATER AGENCY
 WELL WATER PLAN

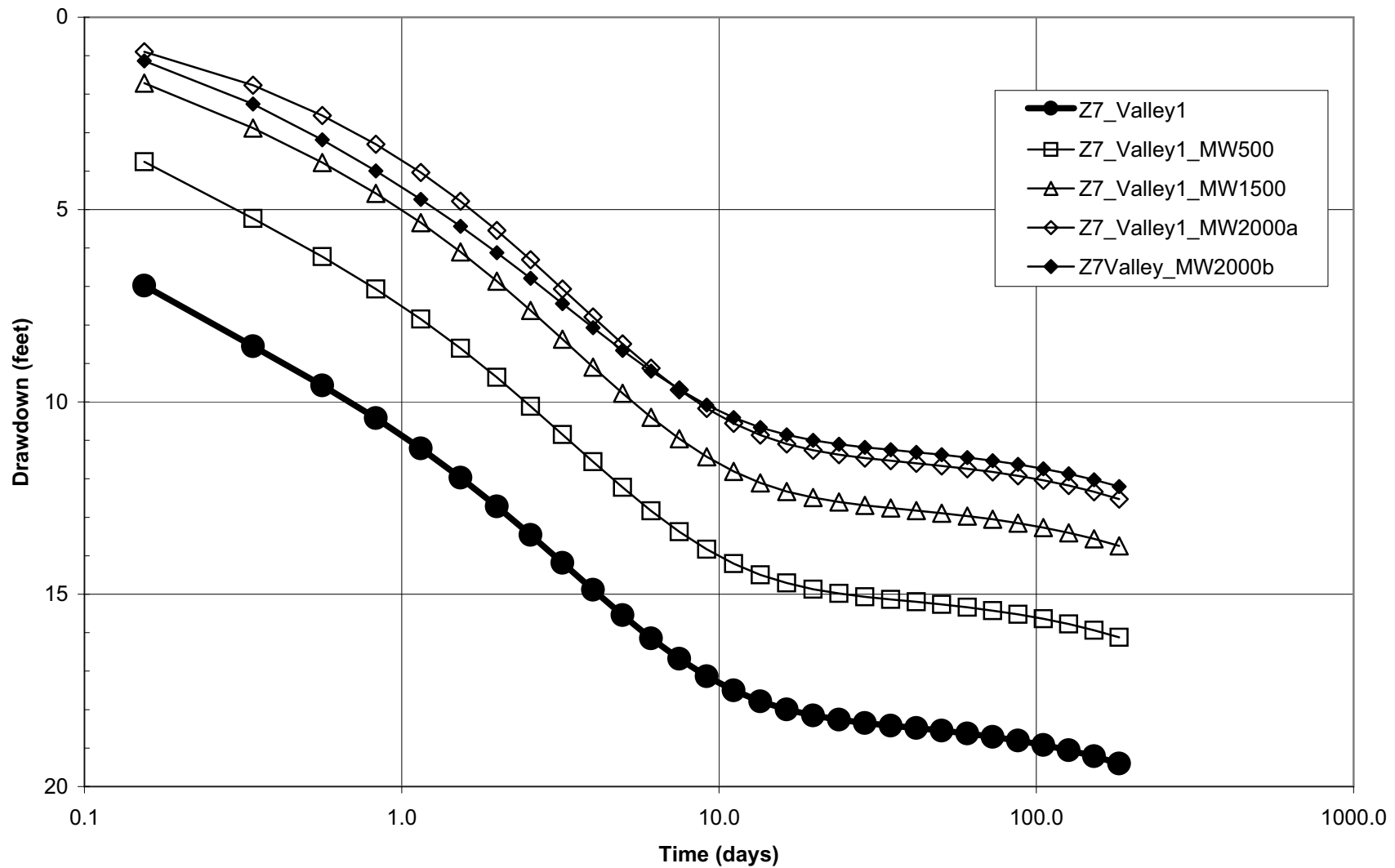


FIGURE E-7
VALLEY WELL DRAWDOWN
 ZONE 7 WATER AGENCY
 WELL WATER PLAN

Appendix F
Distance-Drawdown Plots for Individual Wells at New Wellfields

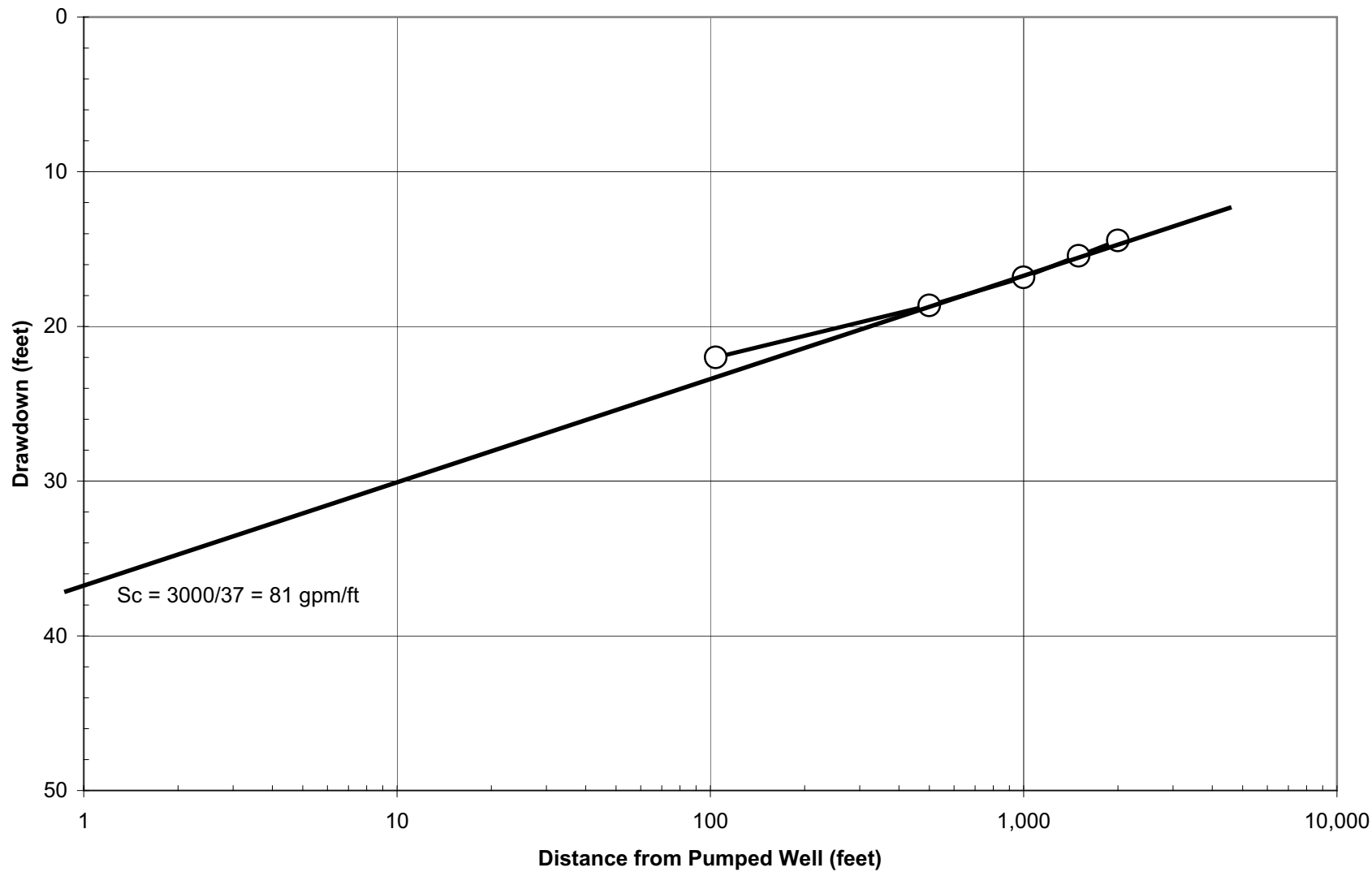


FIGURE F-1
BERNAL NORTH WELLFIELD:
DISTANCE DRAWDOWN GRAPH FOR A PUMPING WELL
(ABOUT 10 DAYS PUMPING AT 3,000 GPM)
ZONE 7 WATER AGENCY
WELL WATER PLAN

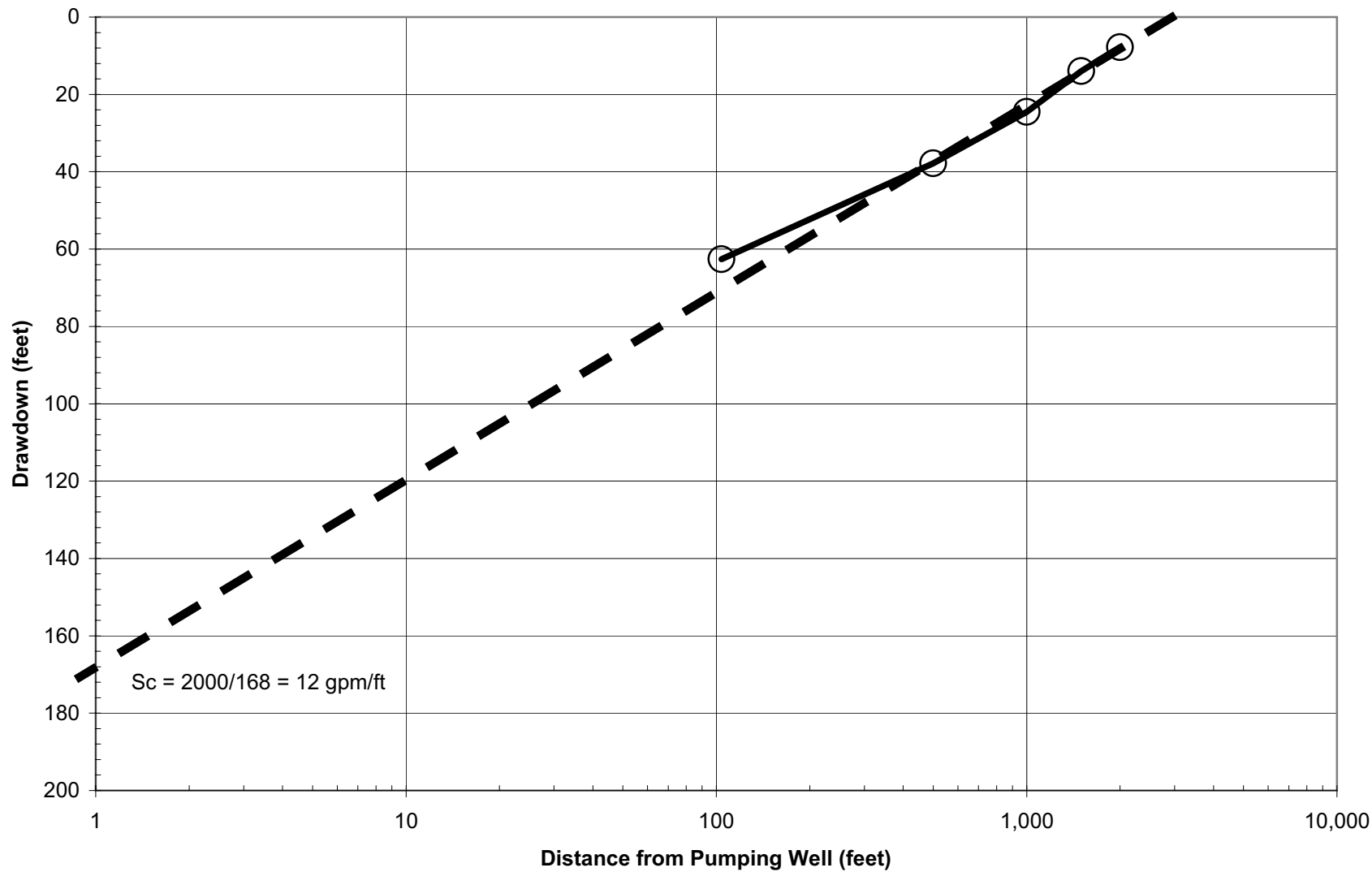


FIGURE F-2
BERNAL SOUTH WELLFIELD:
DISTANCE DRAWDOWN GRAPH FOR A PUMPING WELL
(ABOUT 10 DAYS PUMPING AT 2,000 GPM)
 ZONE 7 WATER AGENCY
 WELL WATER PLAN

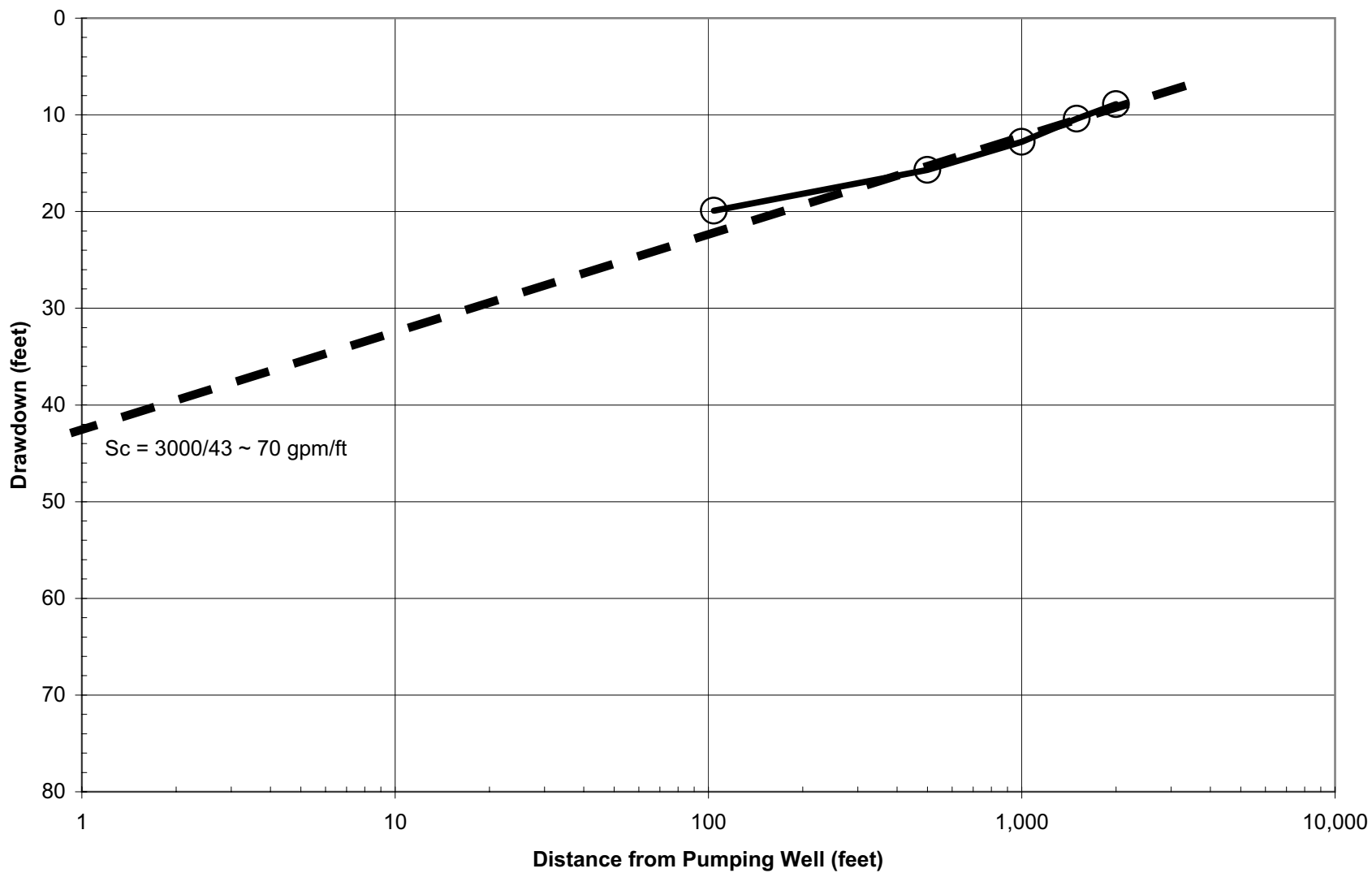


FIGURE F-3
BUSCH-VALLEY WELLFIELD:
DISTANCE DRAWDOWN GRAPH FOR A PUMPING WELL
(ABOUT 10 DAYS PUMPING AT 2,000 GPM)
 ZONE 7 WATER AGENCY
 WELL WATER PLAN

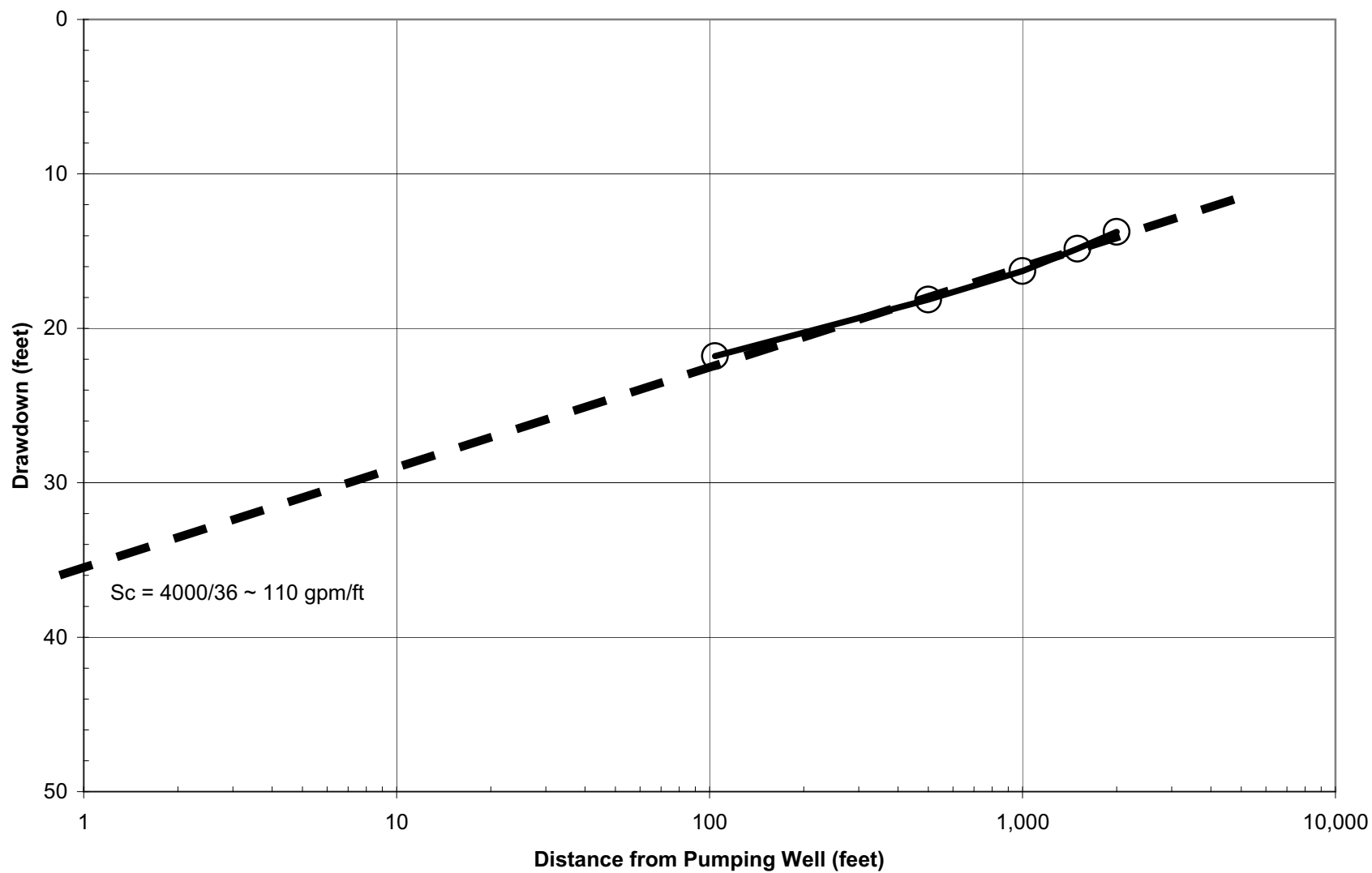


FIGURE F-4
CHAIN OF LAKES WELLFIELD:
DISTANCE DRAWDOWN GRAPH FOR A PUMPING WELL
(ABOUT 10 DAYS PUMPING AT 4,000 GPM)
ZONE 7 WATER AGENCY
WELL WATER PLAN

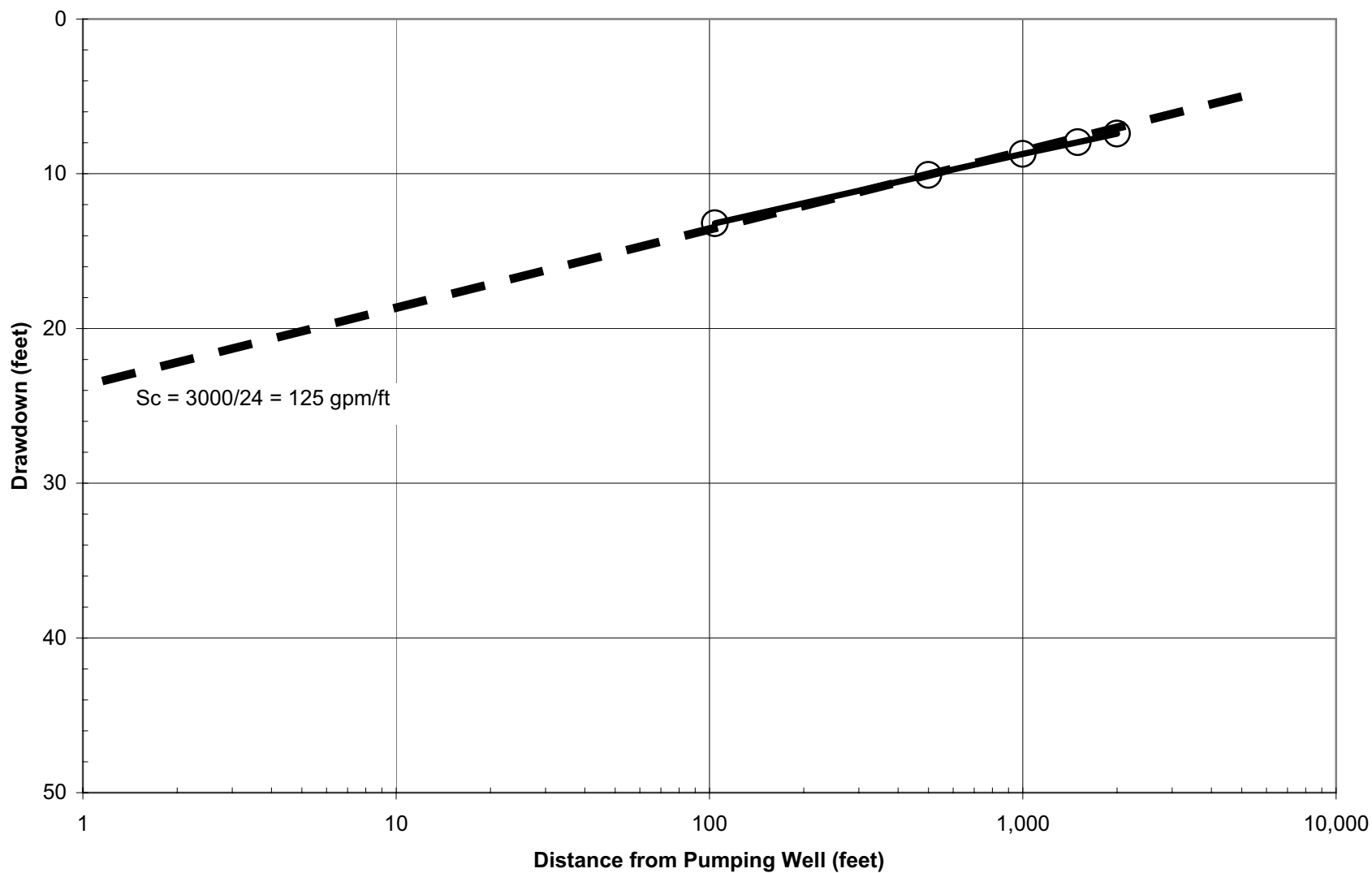


FIGURE F-5
GRAVEL PIT WELLFIELD:
DISTANCE DRAWDOWN GRAPH FOR A PUMPING WELL
(ABOUT 10 DAYS PUMPING AT 3,000 GPM)
 ZONE 7 WATER AGENCY
 WELL WATER PLAN

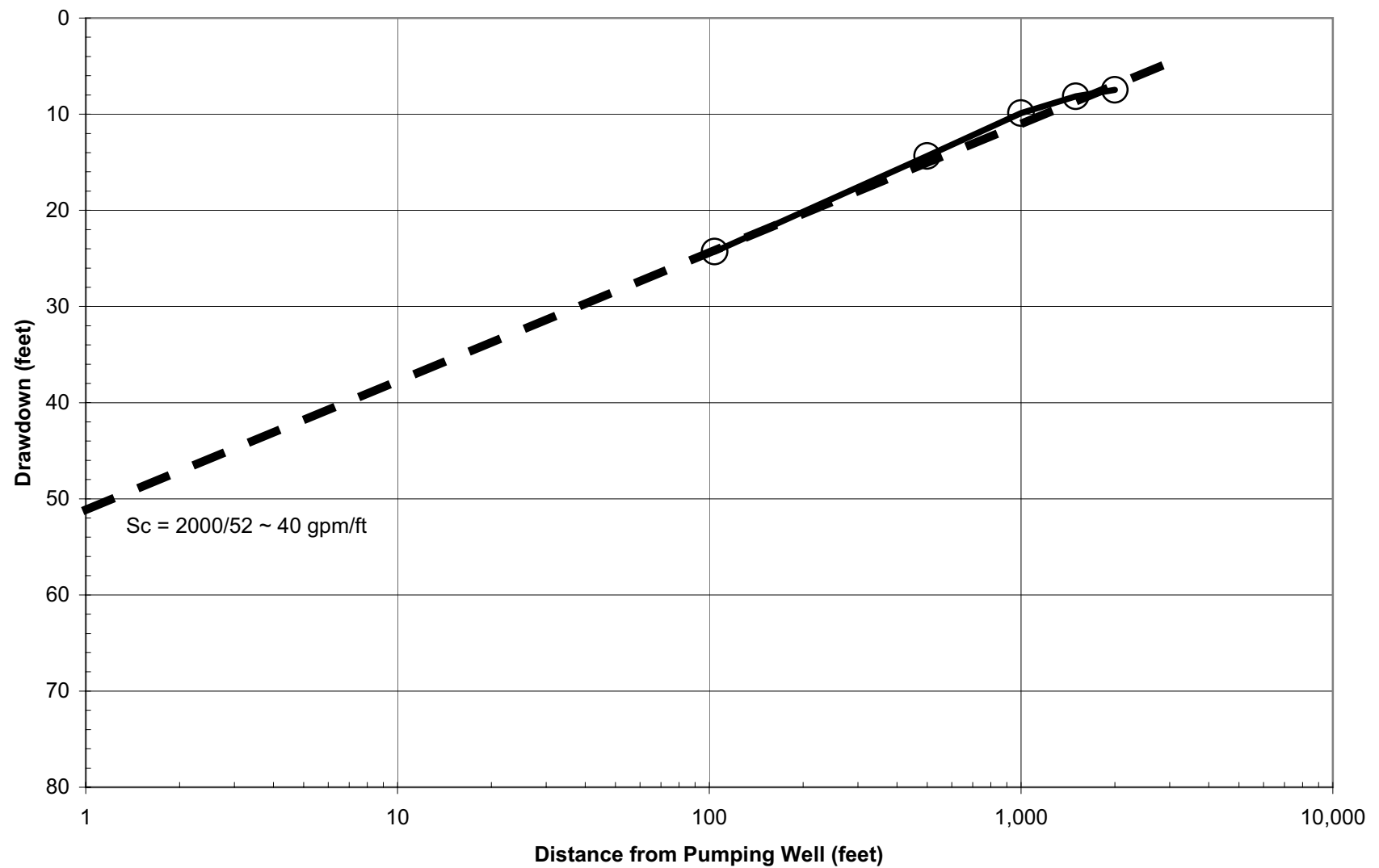


FIGURE F-6
MARTIN AVENUE WELLFIELD:
DISTANCE DRAWDOWN GRAPH FOR A PUMPING WELL
(ABOUT 10 DAYS PUMPING AT 2,000 GPM)
 ZONE 7 WATER AGENCY
 WELL WATER PLAN

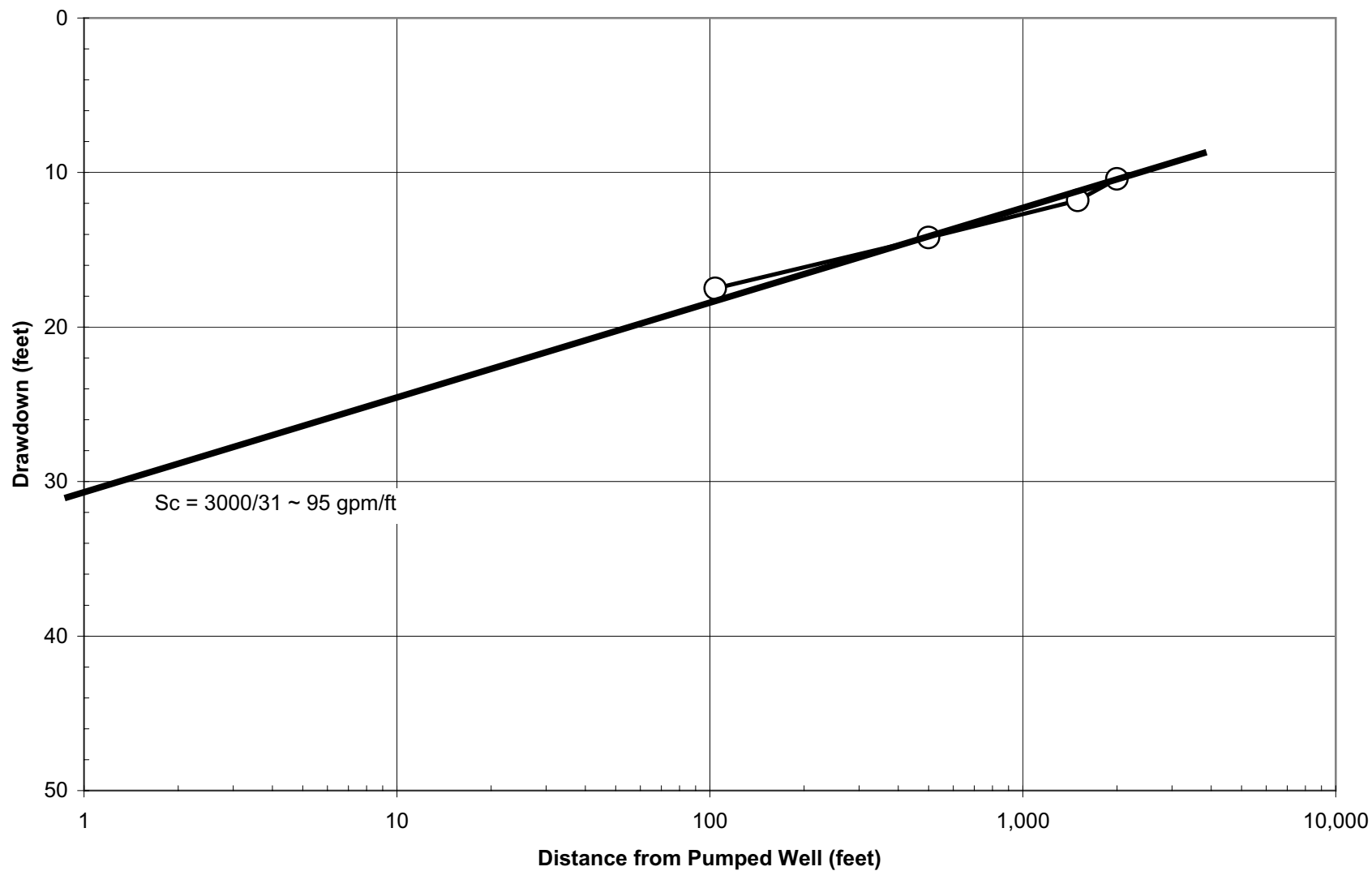
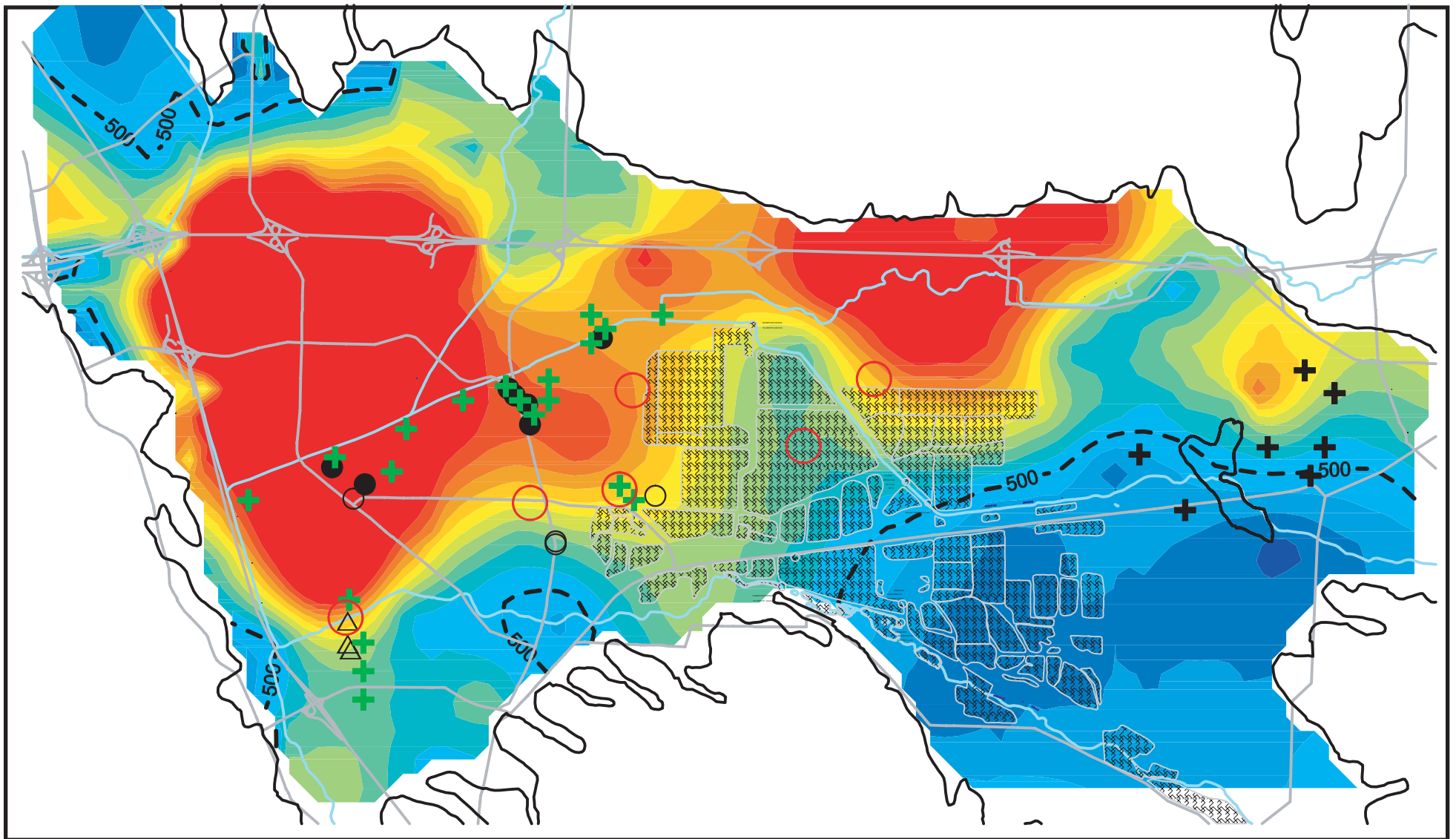


FIGURE F-7
VALLEY WELLFIELD:
DISTANCE DRAWDOWN GRAPH FOR A PUMPING WELL
(ABOUT 10 DAYS PUMPING AT 3,000 GPM)
ZONE 7 WATER AGENCY
WELL WATER PLAN

Appendix G
TDS Maps for Shallow Aquifer



LEGEND

- 1 to 2 Active Z7 well
- 2 to 3 Proposed Z7 wellfield
- + 3 to 4 Z7 desalting well

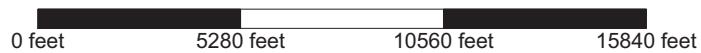
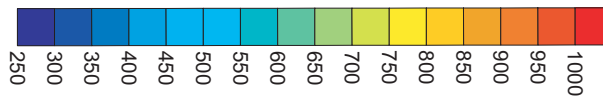
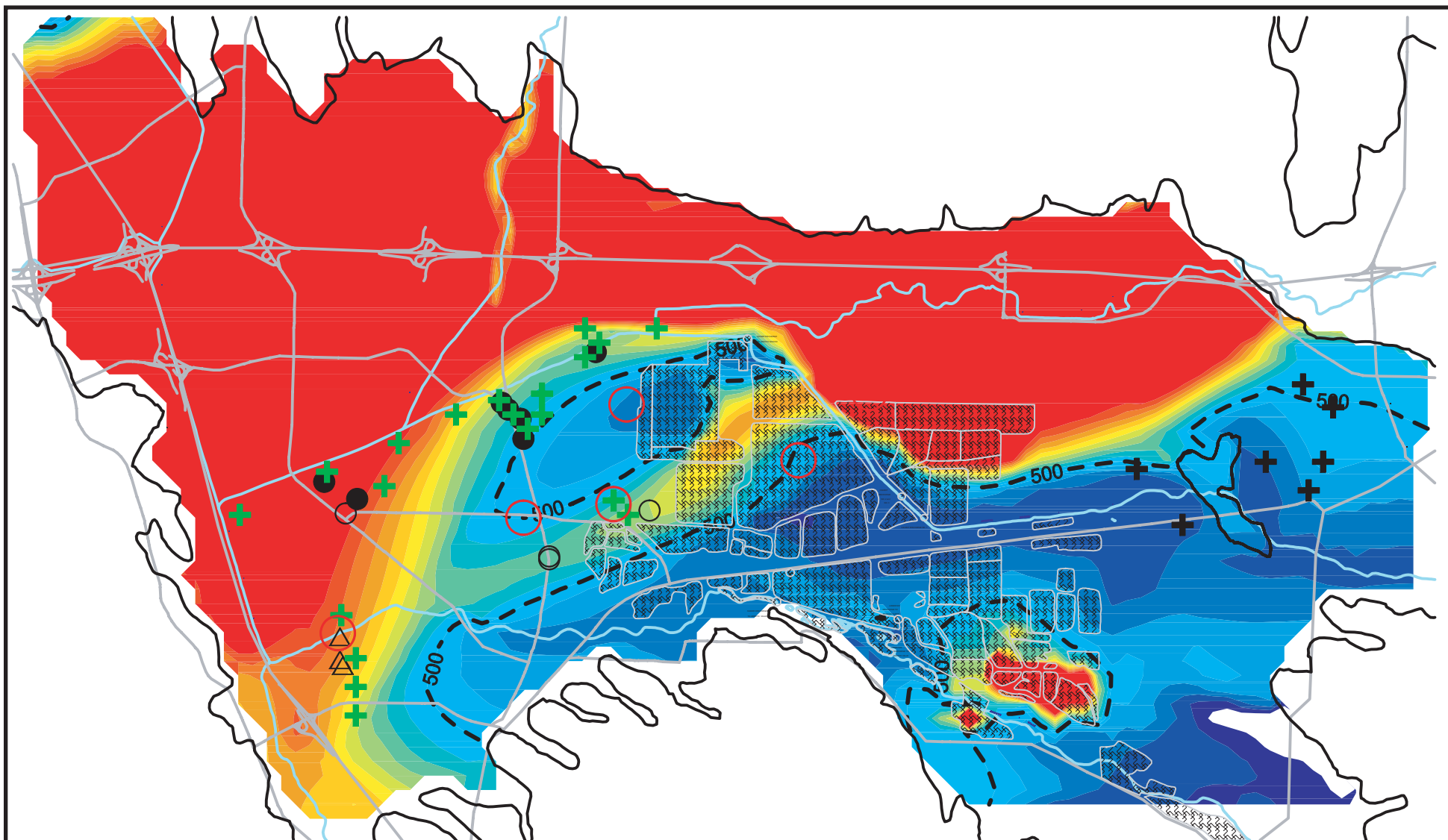
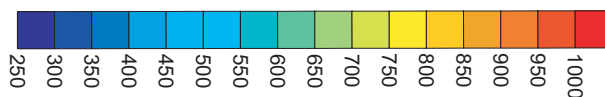


FIGURE G-1
LAYER-1 INITIAL CONDITION: TDS
 ZONE 7 WATER AGENCY
 WELL WATER PLAN



LEGEND

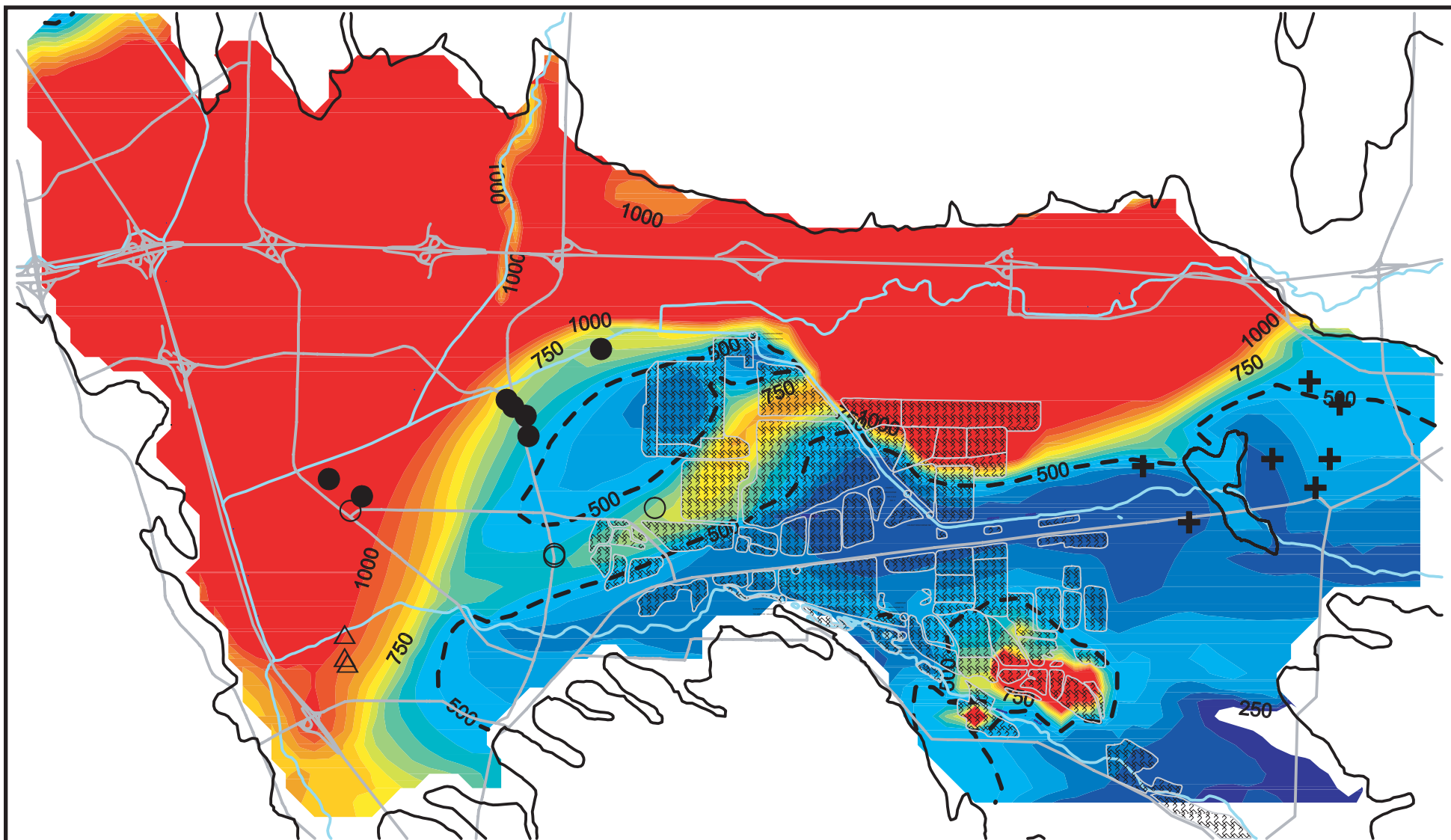
- 1 to 2 Active Z7 well
- 2 to 3 Proposed Z7 wellfield
- + 3 to 4 Z7 desalting well



0 feet 5280 feet 10560 feet 15840 feet

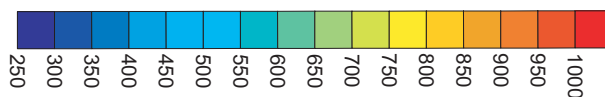
FIGURE G-2
SCENARIO-1: EXISTING WELLS ONLY
LAYER-1 TDS AFTER 50 YEARS
 ZONE 7 WATER AGENCY
 WELL WATER PLAN

CH2MHILL



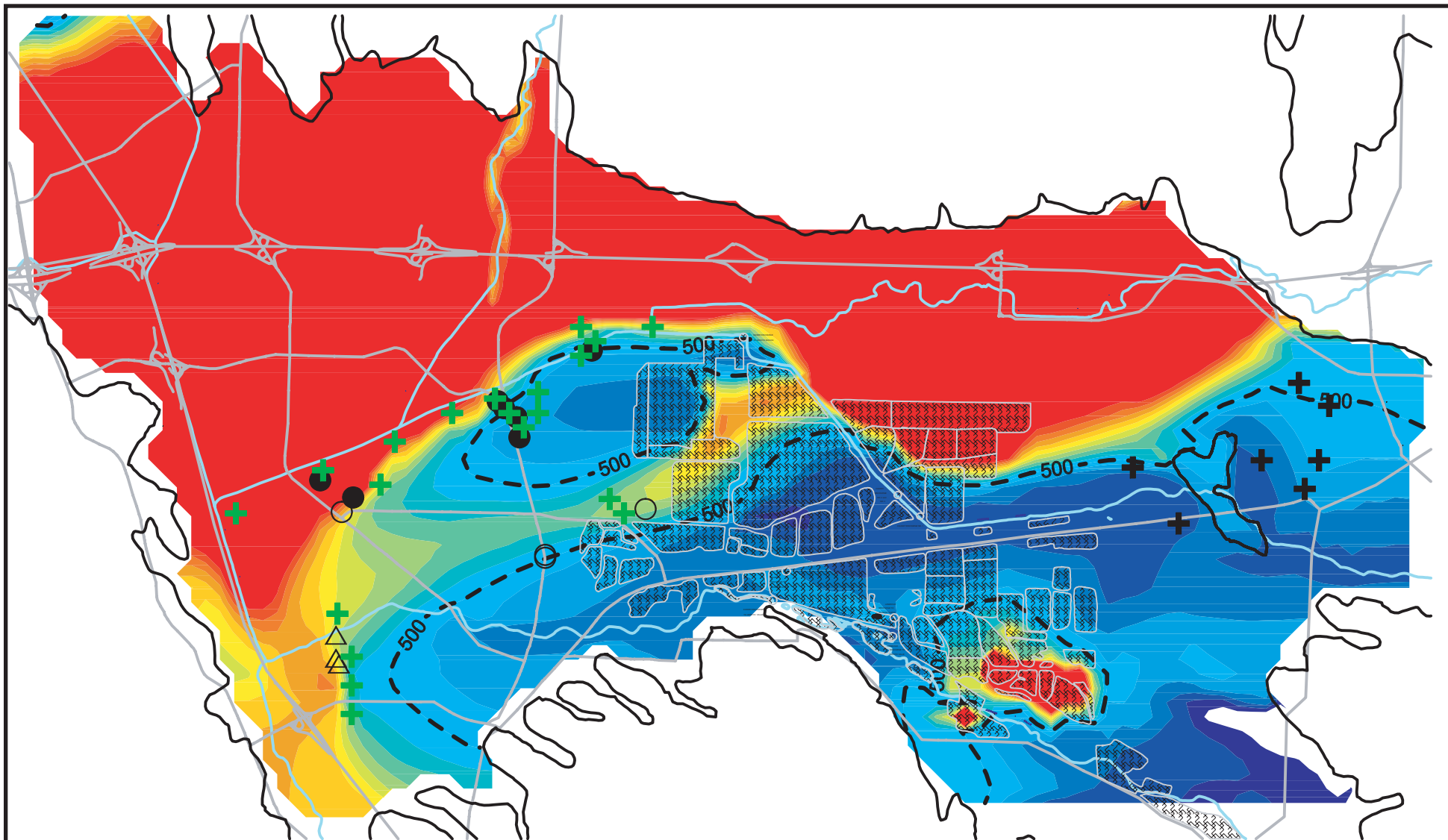
LEGEND

- 1 to 2 Active Z7 well
- 2 to 3 Proposed Z7 wellfield
- + 3 to 4 Z7 desalting well



0 feet 5280 feet 10560 feet 15840 feet

FIGURE G-3
SCENARIO-2: EXISTING AND NEW DEEP AQUIFER WELLS
LAYER-1 TDS AFTER 50 YEARS
 ZONE 7 WATER AGENCY
 WELL WATER PLAN
CH2MHILL



LEGEND

- 1 to 2 Active Z7 well
- 2 to 3 Proposed Z7 wellfield
- + 3 to 4 Z7 desalting well

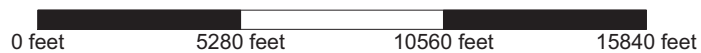
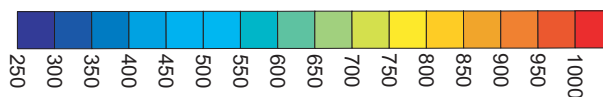


FIGURE G-4
SCENARIO-3: EXISTING WELLS AND DESALTING WELLS
LAYER-1 TDS AFTER 50 YEARS
 ZONE 7 WATER AGENCY
 WELL WATER PLAN
CH2MHILL