BUCKMAN WELLS 10-13
(RG-20516-S-10 THROUGH S-13)
MONITORING PROGRAM 4TH BIENNIAL REPORT
FEBRUARY 2016

prepared by

JOHN SHOMAKER & ASSOCIATES, INC.
Water-Resource and Environmental Consultants
2611 Broadbent Parkway NE
Albuquerque, NM, USA 87107
www.shomaker.com
505-345-3407

and

CITY OF SANTA FE
Water Division

prepared for

NEW MEXICO
OFFICE OF THE STATE ENGINEER
District VI Office, Santa Fe

February 25, 2016

BUCKMAN WELLS 10-13
(RG-20516-S-10 THROUGH S-13)
MONITORING PROGRAM
4TH BIENNIAL REPORT
FEBRUARY 2016

prepared by

JOHN SHOMAKER & ASSOCIATES, INC.
Water-Resource and Environmental Consultants
2611 Broadbent Parkway NE
Albuquerque, NM, USA 87107
www.shomaker.com
505-345-3407

and

CITY OF SANTA FE
Water Division

prepared for

New Mexico Office of the State Engineer
District VI Office, Santa Fe

February 25, 2016

BUCKMAN WELLS 10-13 (RG-20516-S-10 THROUGH S-13)
MONITORING PROGRAM 4TH BIENNIAL REPORT
FEBRUARY 2016

EXECUTIVE SUMMARY

As required by the Buckman Monitoring Program (BMP) document titled *Buckman Well Field Water-Level Monitoring Program Response to Condition of Approval No. 5, Permit No. RG-20516-S-10 thru RG-20516-S-13, City of Santa Fe,* adopted by all parties and the District Court in 2007, this biennial report summarizes production and water-level data in the City of Santa Fe's Buckman Well Field, documents water-level data and trends for BMP wells, provides 10-year and 40-year drawdown projections for wells in the BMP area, and addresses Permit Conditions 6 and 7, which address whether wells of other ownership may go dry as a result of pumping Buckman Wells 10 through 13 (BW10-13) under permit RG-20516-S-10 through RG-20516-S-13. In addition, this biennial report includes responses to the NMOSE review comments on the 2014 biennial report.

Under RG-20516 et al., the City is permitted to pump 10,000 acre-feet per year (ac-ft/yr) from the Buckman Well Field, and under RG-20516-S-10 through RG-20516-S-13 permit, the City is permitted to pump 6,000 ac-ft/yr of the total permitted 10,000 ac-ft/yr from BW10-13. In the past 5 years, pumping under RG-20516 et al. has been less than 3,000 ac-ft/yr, and less than 1,000 ac-ft/yr in the past 2 years.

Non-pumping water levels in BW1-9 have been rising since 2003 as total Buckman Well Field pumping has been decreasing and approximately 30 percent of the total pumping has shifted to BW10-13. Observed stable trends for non-pumping water levels in BW10-13 over the past 5 years are due to reduced pumping from the Buckman Well Field.

The intent of BMP water-level monitoring is to evaluate the potential drawdown effects from pumping BW10-13 on wells of other ownership in the BMP area. The water-level trends interpreted from the monitoring data can be separated into trends for the shallow and deep aquifer zones. The shallow aquifer trends are from wells completed in the upper few hundred feet of the aquifer resembling water-table conditions, and representative of most wells of other ownership. The deep aquifer trends are from wells typically completed and screened several hundreds of feet below the water table resembling confined aquifer conditions, and representative of the aquifer zone

pumped by BW1-13. The shallow aquifer surrounding BW10-13 has shown a slight water-level decline of about 4 ft on average since 2003, and most of these declines occurred between 2003 and 2006. There has been little change in water levels since 2006 in piezometers that represent the deep aquifer zone screened in BW11-13, due to reduced BW11-13 pumping. Las Campanas piezometer nest bounds the southern extent of drawdown in the shallow and deeper zones of the aquifer due to BW10-13 pumping; water levels in Las Campanas piezometer nest ranged from a rise of 11 ft in the middle piezometer, to a decline of 1 ft in the shallow piezometer, since 2005.

The NMOSE superposition groundwater-flow model of the Santa Fe area was used to model historical drawdowns, which were compared to historical water-level data for BMP wells to validate the use of the model to estimate future drawdowns over the 40-year period for (1) BMP area wells, and (2) table 30-A and 30-B wells (wells specifically identified in Finding 30 of NMOSE Order HU No. 03-004). Model-simulated drawdown in model Layer 2 tracks relatively closely to pumping and non-pumping water-level data for BW10-13, and model-simulated drawdown in model Layer 1 tracks relatively closely to water-level data in other BMP wells.

The NMOSE superposition groundwater-flow model was used to project potential future water-level declines. The City prepared a forecast for future pumping based on projected demand and conjunctive use scenarios of available surface-water and groundwater sources. Both the forecasted future pumping scenarios, and a worst-case scenario with the full permitted amounts, were used to project future water-level declines in the BMP area.

Based on the analysis, none of the BMP database wells or table 30-A or 30-B wells are projected to go dry under the forecasted pumping scenario. Six wells are projected to go dry, or have water columns reduced to less than 30 percent within the 40-year period under the worst-case scenario (Table 6).

CONTENTS

page

EXECUTIVE SUMMARY ii

1.0 INTRODUCTION 1

1.1 Buckman Monitoring Program Requirements 1
1.2 Buckman Monitoring Program Biennial Report Requirements 3
1.3 Permit Conditions 6 and 7 Requirements 4

2.0 BUCKMAN WELL FIELD (RG-20516 ET AL.) DIVERSIONS 4

2.1 Historical Diversions 4
2.2 Diversions Since 2003 6
2.3 Forecasted Diversions 6

3.0 BUCKMAN MONITORING PROGRAM WATER-LEVEL TRENDS 8

3.1 Calculation of Water-Level Trends 8
3.2 Buckman Well Field 8
3.3 USGS Monitoring Wells 8
3.4 Other Buckman Monitoring Program Wells 12
3.5 Interpretation of Water-Level Trends 12
3.5.1 Shallow Aquifer Trends 13
3.5.2 Deep Aquifer Trends 13
3.5.3 Zone of Influence 13
3.5.4 Groundwater-Elevation Contours 14

4.0 GROUNDWATER-FLOW MODEL ANALYSIS 15

4.1 Model Set-Up 15
4.2 Comparison to Observed Data 15
4.3 Use of Buckman Monitoring Program Database Wells 16
4.4 Model-Simulated Future Drawdown Effects 16
4.4.1 Scenario 1 Full RG-20516 el al. Permit 17
4.4.2 Scenario 2 Forecasted Demand From RG-20516 et al. 17
4.4.3 Baseline RG-20516 Scenario 17

5.0 COMPLIANCE WITH PERMIT RG-20516-S-10 THROUGH RG-20516-S-13 18

5.1 Buckman Monitoring Program 18
5.2 Permit Conditions 6 and 7 18
5.3 NMOSE Review of 2014 Report 20

6.0 CONCLUSIONS 22

7.0 RECOMMENDATIONS 23

8.0 REFERENCES 24

TABLES

page

Table 1. Buckman Monitoring Program requirements 2

Table 2. Summary of Buckman Well Field (BW1-9) diversions between 1981 and 2002 5

Table 3. Summary of Buckman Well Field (BW1-13) diversions between 2003 and 2015 7

Table 4. Summary of elevation, total depth, and depth to top and bottom of screen for BW1-13 and piezometers in the Buckman Monitoring Program area 9

Table 5. Water-level trends for Buckman Monitoring Program wells 11

Table 6. Ten- and 40-year projections for Buckman Monitoring Program area wells for which water columns are projected to be reduced to less than 30 percent (see Appendices B and C for projections for additional BMP database wells) 19

ILLUSTRATIONS

(follow text)

Figure 1. Map showing Buckman Monitoring Program area, Tano Road area, and selected wells.

Figure 2. Geologic map (Koning and Read, 2010) showing Buckman Monitoring Program wells, other selected wells, and water-level changes measured between 2003 and present, in feet. See Figure 3 for explanation of geologic units, lines, and symbols.

Figure 3. West-east geologic cross-section C-C' (after Koning and Read, 2010) showing selected Buckman Monitoring Program wells, water-level changes measured between 2003 and present, and explanation of geologic units and map symbols.

Figure 4. Map showing 2003 groundwater-elevation contours for the regional aquifer in the Buckman Monitoring Program area, Santa Fe County, New Mexico.

Figure 5. Map showing 2014 groundwater-elevation contours for the regional aquifer in the Buckman Monitoring Program area, Santa Fe County, New Mexico.

Figure 6. Geologic map (Koning and Read, 2010) showing NMOSE groundwater-flow model-simulated water-level changes between 2003 and 2014, in feet, for model Layer 1.

Figure 7. Geologic map (Koning and Read, 2010) showing NMOSE groundwater-flow model-simulated water-level changes between 2003 and 2014, in feet, for model Layer 2.

Figure 8. Map showing NMOSE groundwater-flow model-simulated 10-year water-level declines (2015 to 2024), in feet, for model Layer 2, under future pumping Scenario 1 (worst case).

Figure 9. Map showing NMOSE groundwater-flow model-simulated 40-year water-level declines (2015 to 2054), in feet, for model Layer 2, under future pumping Scenario 1 (worst case).

Figure 10. Map showing NMOSE groundwater-flow model-simulated 10-year water-level declines (2015 to 2024), in feet, for model Layer 2, under future pumping Scenario 2 (forecast scenario).

Figure 11. Map showing NMOSE groundwater-flow model-simulated 40-year water-level declines (2015 to 2054), in feet, for model Layer 2, between future pumping Scenario 2 (forecast scenario).

Figure 12. Map showing difference in NMOSE groundwater-flow model-simulated 40-year drawdown, in feet, for model Layer 2, between future pumping Scenario 1 (worst case) and Baseline Scenario.

Figure 13. Map showing difference in NMOSE groundwater-flow model-simulated 40-year drawdown, in feet, for model Layer 2, under future pumping Scenario 2 (forecast scenario) and Baseline Scenario.

APPENDICES

(follow illustrations)

Appendix A. Graphs showing Buckman Well Field diversions, water levels in Buckman Monitoring Program wells, model-simulated historical drawdowns, and projected drawdowns at selected wells due to pumping at the full permitted diversion amounts (Scenario 1)

Appendix B. Ten- and 40-year water column projections for Buckman Monitoring Program database wells due to pumping at the full permitted diversion amounts (Scenario 1, model Layer 2)

Appendix C. Ten- and 40-year water column projections for Buckman Monitoring Program database wells due to forecasted pumping (Scenario 2, model Layer 2)

BUCKMAN WELLS 10-13 (RG-20516-S-10 THROUGH S-13) MONITORING PROGRAM BIENNIAL REPORT FEBRUARY 2016

1.0 INTRODUCTION

As required by the Buckman Monitoring Program (BMP) document titled, *Buckman Well Field Water-Level Monitoring Program Response to Condition of Approval No. 5, Permit No. RG-20516-S-10 thru RG-20516-S-13, City of Santa Fe*, this biennial report summarizes production and water-level data in the City of Santa Fe's Buckman Well Field, with a particular focus on Buckman Wells 10, 11, 12, and 13 (BW10-13), which were completed in 2003 (Fig. 1). This report also documents water-level data and trends for BMP wells.

Buckman Wells 1 through 9 (BW1-9) are permitted under New Mexico Office of the State Engineer (NMOSE) file numbers RG-20516 through RG-20516-S-9, and Buckman Wells 10 through 13 (BW10-13) are permitted under NMOSE file numbers RG-20516-S-10 through RG-20516-S-13. The Buckman Well Field diversions and monitoring program water-level data summarized in this report are available in a Microsoft Excel spreadsheet on the City Water Division's web site, [http://www.santafenm.gov/buckman_wells_water_level_monitoring_program]. The spreadsheet contains the following:

1. Buckman Well Field production data in monthly time steps from 1981 through 2015
2. water-level data collected by the City municipal water utility and by the U.S. Geological Survey (USGS) for the Buckman area
3. graphs of water level changes over time

1.1 Buckman Monitoring Program Requirements

To manage well field operations and to comply with RG-20516 et al. permit requirements, water-level data have been collected in the region for over 30 years. The water-level monitoring program was expanded with the permitting of BW10-13 in 2007. The current BMP area is a 50-square-mile area with a 4-mile radius centered at BW10-13 (see Fig. 1). The BMP requires water-level monitoring at specified wells in and around the BMP area at varying frequencies. BMP wells are listed in Table 1 and locations are shown on Figures 1 and 2.

Table 1. Buckman Monitoring Program requirements

NMOSE ID	other ID (NMBGMR/USGS, if any)	name	monitoring frequency	comments and status
	EB269/355000106092802	SF-2B	hourly	part of previous MP, USGS
	EB270/355000106092803	SF-2C	hourly	part of previous MP, USGS
	EB265/355002106093701	SF-3A	monthly	part of previous MP, USGS
	EB266/355002106093702	SF-3B	monthly	part of previous MP, USGS
	EB267/355002106093703	SF-3C	monthly	part of previous MP, USGS
	EB262/355003106094301	SF-4A	monthly	part of previous MP, USGS
	EB263/355003106094302	SF-4B	monthly	part of previous MP, USGS
	EB264/355003106094303	SF-4C	monthly	part of previous MP, USGS
	EB261/355006106094803	SF-5C	monthly	part of previous MP, USGS
	EB298/354731106072001	Buckman deep piez. (SF-6A)	hourly	BW10-13 MP, download monthly, USGS
	EB299/354731106072002	Buckman middle piez. (SF-6B)	hourly	BW10-13 MP, download monthly, USGS
	EB300/354731106072003	Buckman shallow piez. (SF-6C)	hourly	BW10-13 MP, download monthly, USGS
	EB608/354228106044901	Las Campanas deep piez.	hourly	BW10-13 MP, download monthly, USGS
	EB609/354228106044902	Las Campanas middle piez.	hourly	BW10-13 MP, download monthly, USGS
	EB610/354228106044903	Las Campanas shallow piez.	hourly	BW10-13 MP, download monthly, USGS
RG-20516-S-5	EB478	Buckman 1	monthly	part of previous MP
RG-20516-S-6	EB479	Buckman 2	monthly	part of previous MP
RG-20516-S	EB480	Buckman 3	monthly	part of previous MP
RG-20516-S-2	EB481	Buckman 4	monthly	part of previous MP
RG-20516-S-3	EB482	Buckman 5	monthly	part of previous MP
RG-20516-S-4	EB483	Buckman 6	monthly	part of previous MP
RG-20516-S-7	EB484	Buckman 7	monthly	part of previous MP
RG-20516-S-8	EB485	Buckman 8	monthly	part of previous MP
RG-20516-S-9	EB486	Buckman 9	monthly	part of previous MP
RG-20516-S-10	EB487	Buckman 10	monthly	BW10-13 MP, measure daily production
RG-20516-S-11	EB488	Buckman 11	monthly	BW10-13 MP, measure daily production
RG-20516-S-12	EB489	Buckman 12	monthly	BW10-13 MP, measure daily production
RG-20516-S-13	EB490	Buckman 13	monthly	BW10-13 MP, measure daily production
RG-21318	EB288	Skillet	monthly	part of previous MP
RG-439	EB157	Weil Corral [c]	monthly	part of previous MP
RG-16681	EB163	Permit	monthly	part of previous MP
RG-6386	EB160	Tony's Windmill	semi-annual	BW10-13 MP
RG-29524	EB085	Las Dos 1	semi-annual [a]	BW10-13 MP, access issues
RG-81860		Santa Fe Ranch	semi-annual [a]	BW10-13 MP, replaces RG-29524 Las Dos 1
RG-25463	EB287	-	hourly	BW10-13 MP
RG-24584	EB121	-	semi-annual [b]	no access
RG-28112		-	semi-annual [b]	BW10-13 MP, replaces RG-24584
RG-438	EB251	Midway Windmill	semi-annual	BW10-13 MP
RG-29723	EB645	USFS Well	semi-annual	BW10-13 MP
RG-30777	EB064	-	hourly	BW10-13 MP
RG-79509		-	semi-annual	BW10-13 MP
RG-93871		deep monitoring well	hourly	BW10-13 MP

[a] Due to access and safety issues at RG-29524 (confined space in well vault), City has replaced RG-29524 with RG-81860 for semi-annual monitoring.
[b] Access has not been granted at RG-24584; City has replaced RG-24584 with RG-28112 for semi-annual monitoring.
[c] Access to RG-439 has been suspended due to sale of property.
NMOSE - New Mexico Office of the State Engineer
NMBGMR - New Mexico Bureau of Geology and Mineral Resources
USGS - U.S. Geological Survey
USFS - U.S. Forest Service
MP - monitoring program
BW10-13 MP - Buckman Wells 10 through 13 monitoring program
piez. – piezometer

Some changes and substitutions to the list of required monitoring wells have been necessitated by on-the-ground conditions and landowner requests. Water levels have been measured at RG-81860 as an alternative to RG-29524 due to confined space entry issues at RG-29524. Water levels are measured at RG-28112 as an alternative to RG-24584, for which access has not been granted by the well owner. Water levels are measured at RG-79509 in order to fulfill the requirement that monitoring be performed at seven private 72-12-1 wells. Access to RG-439, part of the previous monitoring plan for BW1-9, has been suspended due to sale of property.

1.2 Buckman Monitoring Program Biennial Report Requirements

- Summarize RG-20516 production.
- Summarize water-level trends in monitored wells.
- 10-year and 40-year projections of water-level declines in monitored wells.
- Projection of water-level declines for wells in the Monitoring Program area, or as specified in the RG-20516 permit.
- 10-year and 40-year projections of water-level decline for one well near the western terminus of Tano Road Subdivision (currently met by making projections for well RG-77553 labeled “Tano” on maps).
- Starting/initial water columns in wells senior to RG-20516-S-10 through S-13 are to be determined from NMOSE Drillers’ Well Logs, actual static water-levels, site-specific studies, or a combination of these data.
- Forecast whether remaining water column at the end of both projections will, in any monitored well, in any of the wells specifically identified in the Permit, or in any other senior well within BMP area, exceed 70 percent drawdown of the water column available at the initiation of the monitoring program.
- Map water-level trends in the monitored wells.
- Post report and generalized map on-line for public access within 30 days of submittal to the NMOSE.

1.3 Permit Conditions 6 and 7 Requirements

This BMP biennial report addresses Permit Conditions 6 and 7, which ensure access to water for well owners potentially impacted by the pumping of BW10-13. Permit Conditions 6 and 7 read as follows:

> 6. No water shall be diverted from wells RG-20516-S-10 through RG-20516-S-13 after December 31, 2010, until such time as the Permittee shall have furnished to the State Engineer such information and/or documents as the Engineer may find necessary to establish that any wells impacted under this Permit, including those wells identified in Table 30-A of Finding 30, will not go dry in 40 years, or that the owners of the right to beneficially use groundwater diverted from those wells have waived or released any claim of liability against the Permittee for impairment to such wells resulting from operations under this Permit, or that the Permittee has acquired the rights of such persons in such wells, or that the Permittee can and will, upon agreement of the well owners, supply water to such wells or the users thereof.
> 7. No water shall be diverted from wells RG-20516-S-10 through RG-20516-S-13 after December 31, 2043, until such time as the Permittee shall have furnished to the State Engineer such information and/or documents as the Engineer may find necessary to establish that any wells impacted under this Permit, including those wells identified in Table 30-B of Finding 30 of this Order, will not go dry due to Applicant's pumping authorized under this Permit, or that the owners or users of said wells have waived or released any claim of liability against the Permittee for injury resulting to such wells from operations under this permit, or that the Permittee has acquired the rights of such persons in such wells, or that the Permittee can and will supply water to such wells or the users thereof.

NMOSE Order HU No. 03-004, Finding 30, table 30-A lists wells that have the potential to go dry in 40 years as a result of BW10-13 pumping, and table 30-B lists wells that have the potential to go dry in 100 years as a result of BW10-13 pumping. All wells listed in table 30-A and table 30-B are included in Appendices B and C of this report.

2.0 BUCKMAN WELL FIELD (RG-20516 ET AL.) DIVERSIONS

2.1 Historical Diversions

A summary of Buckman Well Field (BW1-9) diversions between 1981 and 2002 is presented in Table 2. Figures A1 through A14 in Appendix A present graphs showing historical Buckman Well Field diversions and water levels. Significant pumping began in the Buckman Well Field in 1981, with pumping at BW1 and BW2. These wells were drilled in 1977, tested in 1978 and 1979, with Proof of Completion of Works submitted in 1979. Between 1981 and 2002, total diversions from the Buckman Well Field ranged from 16 to 5,890 acre-feet per year (ac-ft/yr; Table 2). Under RG-20516 et al., the City is permitted to pump 10,000 ac-ft/yr from the Buckman Well Field.

Table 2. Summary of Buckman Well Field (BW1-9) diversions between 1981 and 2002

year	BW1, ac-ft	BW2, ac-ft	BW3, ac-ft	BW4, ac-ft	BW5, ac-ft	BW6, ac-ft	BW7, ac-ft	BW8, ac-ft	BW9, ac-ft	BW total, ac-ft
1981	1,027	**1,459**	0	0	0	0	0	0	0	2,486
1982	579	**695**	0	0	0	0	0	0	0	1,274
1983	**7**	**7**	2	0	0	0	0	0	0	16
1984	100	**212**	0	0	0	0	0	0	0	312
1985	459	**671**	0	0	0	0	0	0	0	1,130
1986	602	**946**	0	0	0	0	0	0	0	1,548
1987	544	**897**	0	0	0	0	0	0	0	1,442
1988	548	**741**	82	465	52	581	0	0	0	2,470
1989	563	**1,272**	261	1,049	146	1,260	0	0	0	4,551
1990	334	840	263	1,041	143	**1,203**	0	0	0	3,823
1991	203	554	181	645	103	**820**	302	378	0	3,185
1992	194	730	112	497	48	**1,215**	993	962	0	4,752
1993	693	735	139	647	141	**1,222**	1,070	962	0	5,610
1994	714	743	121	668	266	**1,052**	634	783	0	4,982
1995	945	825	352	765	384	**1,009**	831	779	0	5,890
1996	935	707	617	632	438	**972**	593	761	0	5,656
1997	925	816	507	453	139	**1,031**	498	347	0	4,715
1998	660	879	457	399	111	**1,043**	743	924	0	5,216
1999	625	842	416	353	0	994	**1,159**	891	0	5,279
2000	626	720	519	266	0	915	**1,169**	864	0	5,081
2001	716	490	436	354	0	**1,037**	1,033	678	0	4,743
2002	730	584	417	555	265	**1,273**	1,145	869	0	5,838

BW - Buckman Well
bold - indicates well with maximum diversion in a given year
ac-ft - acre-feet

2.2 Diversions Since 2003

A summary of Buckman Well Field (BW1-13) diversions between 2003 and 2015 is presented in Table 3. Figures A1 through A14 in Appendix A present graphs showing historical Buckman Well Field diversions and water levels. BW10-13 began producing water for the municipal utility between October and December 2003. Between 2003 and 2015, total diversions from the Buckman Well Field have ranged from less than 1,000 up to 5,823 ac-ft/yr (Table 3), and diversions from BW10-13 have ranged from about 100 up to 3,378 ac-ft/yr. Under RG-20516-S-10 through RG-20516-S-13 permit, the City is permitted to pump up to 6,000 ac-ft/yr of the total permitted 10,000 ac-ft/yr from BW10-13. It should be noted that in 2014 and 2015, total diversions from the Buckman Well Field were less than 600 ac-ft/yr, and diversions from BW10-13 were less than 100 ac-ft/yr.

Demand for groundwater supply from the Buckman Well Field is inversely related to surface-water availability. When the City has adequate supply from its surface-water resources, groundwater is conserved. However, during drought conditions, groundwater pumping is needed to make up for shortfalls in surface-water supply.

2.3 Forecasted Diversions

It is anticipated that the City will need the full permitted diversion amounts under RG-20516 et al. to meet future water demands in years when adequate surface-water resources are not available. The City has prepared a forecast for future pumping from BW10-13 in which the four wells pump a total of 4,800 ac-ft/yr for 5 years out of each 20-year future period, and a total of 1,000 ac-ft/yr for the remaining 15 years in each 20-year future period. The diversion amount 4,800 ac-ft/yr is roughly equivalent to a constant pumping rate of 3,000 gallons per minute, which was documented as the combined yield for BW10-13 in the final report for the wells (Street and Finch, 2004). The diversion amount 1,000 ac-ft/yr is approximately equal to the average historical diversion from BW10-13 to date (Table 3). The forecasted diversions do not consider the worst case scenario in which catastrophic fires eliminate or greatly reduce surface water supplies, requiring the City to be wholly dependent on groundwater and potentially utilizing up to the total permitted 10,000 ac-ft/yr under RG-20516 et al.

Table 3. Summary of Buckman Well Field (BW1-13) diversions between 2003 and 2015

year	BW1, ac-ft	BW2, ac-ft	BW3, ac-ft	BW4, ac-ft	BW5, ac-ft	BW6, ac-ft	BW7, ac-ft	BW8, ac-ft	BW9, ac-ft	BW10, ac-ft	BW11, ac-ft	BW12 ac-ft	BW13, ac-ft	BW1-13 total, ac-ft	BW10-13 subtotal, ac-ft	BW10-13, percent of total	comments
2003	508	540	338	386	234	**1,188**	987	780	292	0	251	259	60	5,823	570	10	BW10-13 on-line between Oct and Dec
2004	27	6	73	355	4	958	278	653	6	454	711	948	**1,265**	5,738	3,378	59	
2005	5	6	105	510	1	367	**1,223**	797	2	23	368	216	160	3,783	767	20	
2006	20	150	247	612	8	**1,077**	238	814	54	657	825	88	407	5,197	1,977	38	
2007	398	9	183	565	0	409	**704**	704	25	223	137	31	405	3,793	796	21	
2008	75	0	115	782	60	38	851	**866**	0	263	556	42	84	3,732	945	25	
2009	30	0	143	704	157	**952**	531	368	0	233	331	345	8	3,802	917	24	
2010	82	0	437	474	129	**1,023**	249	8	0	97	328	182	44	3,053	651	21	
2011	78	0	101	220	1	**433**	0	244	0	194	289	165	0	1,725	648	38	
2012	214	0	95	150	169	**311**	0	192	0	20	120	131	0	1,402	271	19	
2013	**631**	5	219	404	0	514	31	255	5	185	288	159	194	2,891	826	29	
2014	54	0	82	38	29	**135**	54	21	71	0	30	41	26	579	96	17	
2015 (thru Aug)	121	0	49	12	14	109	33	14	8	8	18	31	33	449	89	20	
2003-2015 total	2,242	716	2,186	5,211	807	7,513	5,179	5,717	462	2,355	4,251	2,638	2,686	41,962	11,930	-	
2003-2015 average	172	55	168	401	62	578	398	440	36	181	327	203	207	3,228	918	28	
average as percent of permitted amount	2	1	2	4	1	6	4	4	0	2	3	2	2	32	9	-	-

BW - Buckman Well
bold - indicates well with maximum diversion in a given year
ac-ft - acre-feet

3.0 BUCKMAN MONITORING PROGRAM WATER-LEVEL TRENDS

The following analysis of water level data pertains to the evaluation period of 2003 to 2015, with an emphasis on the last 2 years of data. Interpretations of initial water-level responses from BW10-13 pumping can be referenced from the 2014 biennial report (JSAI, 2014).

3.1 Calculation of Water-Level Trends

This analysis of water-level trends focuses on an evaluation period from 2003 (when BW10-13 began pumping) to 2015. Water-level trends, presented as total drawdown during the evaluation period are shown in Table 4 and in Figure 2, and were calculated by subtracting the most recent non-pumping water level from the 2003 non-pumping water level (or earliest data point for wells for which pre-2004 data were not available). Positive numbers indicate a water-level rise and negative numbers represent a water-level decline.

3.2 Buckman Well Field

Although the effort was made to use only non-pumping water-level data in this analysis, water-level data from Buckman supply wells must be interpreted cautiously because non-pumping water levels reflect varying periods and degrees of recovery from pumping. The water-level datasets for these wells capture a range of conditions in and near the wells, and not necessarily in the regional aquifer.

Non-pumping water levels in BW1-9 have been rising since 2003 as total Buckman Well Field pumping has been decreasing and 28 percent of the total pumping has shifted to BW10-13 (Tables 3 and 4, Figs. 2, A2 through A10). Non-pumping water levels in BW10 are currently within a few feet of the initial 2003 measurement (Fig. A11). Non-pumping water levels in BW11-13 have not shown significant water-level declines over the past 5 years (Figs. A12 through A14). The observed stable trend for non-pumping water levels in BW10-13 is due to reduced pumping from the Buckman Well Field.

3.3 USGS Monitoring Wells

The USGS monitoring wells are non-pumping wells dedicated to water-level observation, which include piezometer nests that allow observation of water levels at multiple levels in the aquifer (Table 4). Piezometers SF-2(B,C), SF-3(A,B,C), SF-4(A,B,C) and SF-5C are in the BW1-9 area, piezometer nest SF-6(A,B,C) is between BW1-9 and BW10, and Las Campanas piezometer nest is located approximately 2 miles south of BW13 (see Fig. 2).

Table 4. Summary of elevation, total depth, and depth to top and bottom of screen for BW1-13 and piezometers in the Buckman Monitoring Program area

well	land surface elevation, ft amsl	total well depth, ft bgl	depth to top of screen, ft bgl	depth to bottom of screen, ft bgl
Buckman 1	5,519	1,108	257	1,093
Buckman 2	5,539	1,593	234	1,578
Buckman 3	5,619	1,500	500	1,480
Buckman 4	5,646	1,219	454	1,214
Buckman 5	5,790	1,182	244	1,170
Buckman 6	5,726	1,154	291	1,148
Buckman 7	5,605	1,415	700	1,400
Buckman 8	5,514	910	380	900
Buckman 9	5,738	1,363	320	1,320
Buckman 10	6,044	2,016	500	1,980
Buckman 11	6,149	2,020	450	1,980
Buckman 12	6,245	1,930	400	1,900
Buckman 13	6,426	2,018	400	1,980
SF-2B piez.	5,540	824	802	812
SF-2C piez.	5,540	346	324	334
SF-3A piez.	5,480	294	274	284
SF-3B piez.	5,480	169	149	159
SF-3C piez.	5,480	60	40	50
SF-4A piez.	5,470	280	260	270
SF-4B piez.	5,470	130	110	120
SF-4C piez.	5,470	60	40	50
SF-5C piez.	5,455	69	49	59
SF-6A piez.	5,960	2,440	2,400	2,430
SF-6B piez.	5,960	1,340	1,300	1,330
SF-6C piez.	5,960	480	280	470
Las Campanas deep piez.	6,390	1,990	1,960	1,980
Las Campanas middle piez.	6,390	1,320	1,290	1,310
Las Campanas shallow piez.	6,390	450	380	440

ft amsl - feet above mean sea level
ft bgl - feet below ground level

In the BW1-9 area, piezometers SF-2(B,C), SF-3A, and SF-4A represent the aquifer zone pumped by BW1-9, and piezometers SF-3(B,C), SF-4(B,C), and SF-5C represent the aquifer above the zone pumped by BW1-9 (including Rio Grande alluvium) (see Figs. A17 through A20). The piezometers representative of the shallow aquifer (above the interval pumped) show no response to pumping, most likely because the heads in the shallow aquifer are maintained by the Rio Grande. Water levels in middle and deep USGS-monitored piezometers close to the Rio Grande (SF-3A and B, and SF-4A and B) are now above ground level.

The USGS-monitored Buckman piezometer nest (SF-6(A,B,C)) is located in Canada Ancha Arroyo between BW1-9 and BW10 (Figs. 1 and 2). The shallow piezometer (SF-6C) represents the aquifer zone above the BW10-13 screen intervals, and the middle (SF-6B) and deep (SF-6A) piezometers represent the aquifer zone screened in BW10-12 (see Fig. 3). The water levels in SF-6A and SF-6B significantly declined between 2003 and 2006, but little change has occurred from 2006 to present (Fig. A15).

Las Campanas piezometer nest, located south of BW13, consists of a shallow piezometer representative of the aquifer zone above the BW10-13 screen intervals, and the middle and deep piezometers are representative of the aquifer zone screened in BW10-13 (Fig. 1; Table 4). The difference in depth to water between the shallow and deep piezometers is indicative of water table conditions in the shallow piezometer and confined aquifer conditions in the deep piezometer (Fig. A16). Since 2005, water-level rises have been observed in Las Campanas middle piezometer, and little to no change in water level has been observed in the deep piezometer. Measured water levels in the shallow piezometer indicate a slight decline (Fig. A16; Table 5). These data for Las Campanas piezometer nest bound the southern extent of drawdown in the shallow and deeper zones of the aquifer due to BW10-13 pumping.

Water levels have risen in 11 of the 15 piezometers monitored by USGS in and near the BMP area since 2003 (Table 5). The majority of the piezometers with water-level rises are in the vicinity of BW1-9, where pumping has decreased since 2003.

Table 5. Water-level trends for Buckman Monitoring Program wells

NMOSE ID	other ID (NMBGMR/USGS, if any)	name	aquifer zone	total depth, ft	points used to define water-level trend				observed water-level change (+ rise / - decline), ft	2003 to present model Layer 1 model-simulated water-level change (+ rise / - decline), ft	2003 to present model Layer 2 model-simulated water-level change (+ rise / - decline), ft	comments
					starting water level date	starting non-pumping water level, ft bgl	recent water level date	recent non-pumping water level, ft bgl				
	EB269/355000106092802	SF-2B piez.	deep	824	Jan-2003	411.94	Dec-2015	15.64	396	4	115	
	EB270/355000106092803	SF-2C piez.	deep	346	Jan-2003	233.84	Dec-2015	36.46	197	4	115	
	EB265/355002106093701	SF-3A piez.	deep	294	Jan-2003	185.73	Dec-2015	-8.14 [a]	194	4	115	
	EB266/355002106093702	SF-3B piez.	shallow	169	Jan-2003	17.99	Dec-2015	-0.55 [a]	19	4	115	
	EB267/355002106093703	SF-3C piez.	shallow	60	Jan-2003	17.39	Dec-2015	15.88	2	4	115	
	EB262/355003106094301	SF-4A piez.	deep	280	Jan-2003	155.30	Dec-2015	-11.66 [a]	167	4	115	
	EB263/355003106094302	SF-4B piez.	shallow	130	Jan-2003	5.74	Dec-2015	-1.20 [a]	7	4	115	
	EB264/355003106094303	SF-4C piez.	shallow	60	Jan-2003	12.78	Dec-2015	11.09	2	4	115	
	EB261/355006106094803	SF-5C piez.	shallow	69	Jan-2003	5.95	Dec-2015	3.84	2	4	115	
	EB298/354731106072001	SF-6A (Buckman)	deep	2,440	Oct-2003	59.90	Dec-2015	161.14	-101	-4	11	
	EB299/354731106072002	SF-6B (Buckman)	deep	1,340	Oct-2003	164.83	Dec-2015	195.49	-31	-4	11	
	EB300/354731106072003	SF-6C (Buckman)	shallow	480	Oct-2003	186.56	Dec-2015	197.86	-11	-4	11	
	EB608/354228106044901	Las Campanas deep piez.	deep	1,990	Jul-2005	216.53	Dec-2015	215.95	1	-1	-1	
	EB609/354228106044902	Las Campanas middle piez.	deep	1,320	Jul-2005	262.92	Dec-2015	251.90	11	-1	-1	
	EB610/354228106044903	Las Campanas shallow piez.	shallow	450	Jul-2005	278.70	Dec-2015	279.64	-1	-1	-1	
RG-20516-S-5	EB478	Buckman 1	deep	1,108	Jan-2003	632.1	May-2015	188.50	444	4	115	
RG-20516-S-6	EB479	Buckman 2	deep	1,593	Jan-2003	483.65	May-2015	107.12	377	27	99	
RG-20516-S	EB480	Buckman 3	deep	1,500	Jan-2003	642.25	May-2015	138.67	504	27	99	
RG-20516-S-2	EB481	Buckman 4	deep	1,219	Jan-2003	678.39	May-2015	73.65	605	27	99	
RG-20516-S-3	EB482	Buckman 5	deep	1,182	Jan-2003	652.98	May-2015	154.51	498	-1	42	
RG-20516-S-4	EB483	Buckman 6	deep	1,154	Jan-2003	669.15	May-2015	136.45	533	13	79	
RG-20516-S-7	EB484	Buckman 7	deep	1,415	Jan-2003	758.42	May-2015	167.06	591	4	115	
RG-20516-S-8	EB485	Buckman 8	deep	910	Jan-2003	488.33	May-2015	30.95	457	4	115	
RG-20516-S-9	EB486	Buckman 9	deep	1,363	Nov-2003	669.50	May-2015	181.10	488	13	79	
RG-20516-S-10	EB487	Buckman 10	both	2,016	Sep-2003	331.90	May-2015	334.97	-3	-5	4	
RG-20516-S-11	EB488	Buckman 11	both	2,020	Jul-2003	271.10	May-2015	396.41	-125	-6	-4	
RG-20516-S-12	EB489	Buckman 12	both	1,930	Jul-2003	239.10	May-2015	399.85	-161	-8	-4	
RG-20516-S-13	EB490	Buckman 13	both	2,018	Jul-2003	296.40	May-2015	315.41	-19	-6	-4	
RG-21318	EB288	Skillet	deep	1,700	Jan-2003	219.00	May-2015	197.00	22	1	57	
RG-439	EB157	Weil Corral	deep	325	Jan-2003	264.00	May-2015	132.90	131	13	79	
RG-16681	EB163	Permit	shallow	745	Sep-2003	695.10	May-2015	697.55	-2	-2	2	
RG-6386	EB160	Tony's Windmill	shallow	350	Jun-2005	291.89	Jan-2016	294.30	-2	-1	-2	
RG-29524	EB085	Las Dos 1	shallow	773	May-2005	396.66	-	-	-	-0.4	-1	access issues
RG-25463	EB287	-	shallow	841	May-2004	467.52	Jan-2016	471.50	-4	-1	-1	
RG-438	EB251	Midway Windmill	shallow	310	Apr-2005	254.96	Jan-2016	263.64	-9	-4	11	table 30-A
RG-29723	EB645	USFS Well	shallow	693	Mar-2004	664.10	Jan-2016	671.97	-8	-3	-2	table 30-A
RG-30777	EB064	-	shallow	663	Mar-2004	540.02	Jan-2016	542.47	-2	-6	-4	
RG-28112		-	shallow	701	Jan-2009	548.31	Jan-2016	550.65	-2	-1	-1	replaces RG-24584
RG-79509		-	shallow	800	Jan-2009	526.62	Jan-2016	528.43	-2	-1	-1	
RG-24584	EB121	-	shallow	602	Jul-2003	424.95	-	-	-	-2	-2	no access
RG-81860		Santa Fe Ranch Barn Well	shallow	695	Jul-2013	370.66	Jan-2016	370.27	0.4	-2	-2	replaces RG-29524(Las Dos 1)
RG-93871		La Tierra Deep Mon. Well	deep	1,200	May-2013	373.24	Jan-2016	373.83	-1	-1	-1	

NMOSE - New Mexico Office of the State Engineer
NMBGMR - New Mexico Bureau of Geology and Mineral Resources
USGS - U.S. Geological Survey
ft bgl - feet below ground level
table 30-A - Finding 30, NMOSE Order HU No. 03-004
[a] water level above ground level

3.4 Other Buckman Monitoring Program Wells

Other BMP wells include several wells measured under the BW1-9 monitoring program (Skillet, Permit, Weil Corral), wells equipped and actively-pumped for stock watering use (Tony's Windmill, Midway Windmill, and RG-81860) and domestic use (RG-25463), and unequipped wells (USFS, RG-30777, RG-28112, RG-79509, and RG-93871 (La Tierra Deep Monitoring Well); see Figs. 1 and 2).

Water levels have generally declined by a total of 2 to 9 ft in the other BMP wells during the evaluation period 2003 to present (Table 3, Figs. 2, A21 through A39). The hydrographs for RG-21318 Skillet Well and RG-439 Weil Corral show increases in water levels since 2003 (Figs. A40 through A43). The water levels in Weil Corral well have significantly rebounded over the last 5 years from reduced pumping at BW1-9; however, Skillet Well has not shown the same response as Weil Corral well. It is suspected that the Skillet Well water-level data are not representative of the deep aquifer; as such, the current total depth of the well should be verified.

3.5 Interpretation of Water-Level Trends

The intent of BMP water-level monitoring is to evaluate the potential drawdown effects from pumping BW10-13 on wells of other ownership in the BMP area (Fig. 1). The evaluation period corresponds to the period BW10-13 has been pumping (2003 to current). The water-level trends interpreted from the monitoring data can be separated into trends for the shallow and deep aquifer zones (see Table 5). The shallow aquifer trends are from wells completed in the upper few hundred feet of the aquifer resembling water-table conditions, and representative of most wells of other ownership. The deep aquifer trends are from wells typically completed and screened several hundreds of feet below the water table resembling confined aquifer conditions, and representative of the aquifer zone pumped by BW1-13.

As illustrated by the hydrographs for Buckman piezometer nest (SF-6(A,B,C)) (Fig. A15) and Las Campanas piezometer nest (Fig. A16), the deeper (confined aquifer) piezometers have depth to water that is significantly less than the adjacent shallow piezometers. The aquifer is composed of layers (beds) with varying permeability, which limits vertical flow and creates confined aquifer conditions at depth. This aquifer stratification is further complicated by regional structures that have tilted the beds so that they dip approximately 10 degrees to the west (Koning and Read, 2010) (see Fig. 3).

3.5.1 Shallow Aquifer Trends

Observed water-level changes in the shallow aquifer have been minimal in the BMP area (Table 5). The shallow aquifer water levels in the BW1-9 area have risen about 6 ft on average for the evaluation period (2003 to present). The observed water-level rise is attributed to reduced pumping from BW1-9.

The shallow aquifer surrounding BW10-13 has shown a slight water-level decline of about 4 ft on average since 2003 (over the past 13 years; Fig. 2). Most of the observed water level declines at wells in the shallow aquifer surrounding BW10-13 occurred between 2003 and 2006 when the BW10-13 pumping averaged 1,673 ac-ft/yr (see Figs. A15 and A27). Since 2006, BW10-13 pumping has averaged 644 ac-ft/yr. SF-6C (Fig. A15), Midway Windmill (Fig. A21), and RG-30777 (Fig. A27) are the closest shallow aquifer monitoring points to BW10-13 (Fig. 2). The largest observed water level declines in the shallow aquifer are observed at SF-6C and Midway Windmill, which could be influenced by pumping from BW1-9 and BW10-13.

3.5.2 Deep Aquifer Trends

Hydrographs representative of deep aquifer trends include BW1-13 (Figs. A2 through A14), deep piezometers (Figs. A15 through A20), and RG-93871 La Tierra deep monitoring well (Fig. A33).

In the BW1-9 area, water levels in the deep aquifer have recovered hundreds of feet due to reduced BW1-9 pumping, and in some cases the wells are artesian with water levels above land surface (Table 5). Non-pumping water levels from BW10-13 have varied with periods of pumping, but due to the lack of pumping in the past 5 years, water levels have been relatively stable.

3.5.3 Zone of Influence

A total water-level decline of 10 ft during the evaluation period can be contoured around the area spanning the Buckman piezometer nest to BW13, when considering data from wells representative of both the shallow and deep aquifer zones (Fig. 2). A 10-ft water-level decline over a 13-year evaluation period equates to an average decline rate of 0.8 ft/yr.

Water-level declines of 4 ft or less over the evaluation period can be difficult to define and contour (Fig. 2). Therefore, significant drawdown is defined here as 4 ft over the 13-year evaluation period 2003 to 2015, which equates to an average decline rate of about 0.3 ft/yr; this average rate is significantly lower than the average regional decline rate documented in the area. In the NMOSE Order HU No. 03-004, the hearing examiner accepted testimony from NMOSE

Hydrologist Andy Core that regional water-level changes prior to the granting of and the pumping from the BW10-13 well permit range from 0.89 ft/yr rise and 7.41 ft/yr decline with an average regional decline rate of 1.18 ft/yr (Finding 27).

Water-level trends in the Buckman deep piezometer (SF-6A) indicate a maximum water level decline of 101 ft in a non-pumping observation well during the evaluation period. Most of this drawdown occurred between 2003 and 2006, and likely represents the removal of the artesian head component in the deepest part of the aquifer within certain fault segments in the area between Buckman piezometer and BW12 (Fig. 2; JSAI, 2014). This is a characteristic unique to the deepest part of the aquifer within certain fault segments and is not representative of the aquifer as a whole, or the shallower part of the aquifer in which many of the BMP and domestic wells are completed.

Water-level declines of 9 ft in Midway Windmill and 11 ft in Buckman shallow piezometer (SF-6C) are likely representative of maximum water-level declines during the evaluation period in the shallow aquifer near BW10. However, BW10 has nearly recovered to 2003 conditions.

Drawdown in the deep aquifer would most likely propagate up dip in the same beds pumped by BW10-13. BW10-13 and the dipping bedding planes are shown on Figure 3. Considering this scenario, the maximum extent of potential drawdown impacts due to pumping BW10-13 can be projected up dip to the east (Figs. 2 and 3). This projected line of maximum extent of potential drawdown, shown on Figure 2, is well within the Buckman Monitoring Program area. The interpreted water-level decline for wells east of this line is likely due to regional drawdown effects.

3.5.4 Groundwater-Elevation Contours

Groundwater-elevation contours representative of the regional aquifer beneath the BMP area were prepared for years 2003 (Fig. 4) and 2014 (Fig. 5). Year 2003 represents groundwater-elevation contours before BW10-13 began pumping, and year 2014 represents current pumping conditions that include BW10-13. Direction of regional groundwater flow in the BMP area has generally been northeast toward BW1-9 and the Rio Grande. The contours indicate flatter hydraulic gradient in the vicinity of Buckman piezometer and BW10, and southeast of BW13. The observed differences between the 2003 and 2014 flow fields reflect the removal of the artesian head component at BW11 and BW12 (5,900 and 6,000 ft amsl contours shifted to the southeast) and approximately 500 ft of water-level recovery at BW1-9.

4.0 GROUNDWATER-FLOW MODEL ANALYSIS

4.1 Model Set-Up

The NMOSE revised superposition version of the McAda-Wasiolek (1988) groundwater-flow model of the Santa Fe area (Core, 1996; Barroll and Keyes, 2005) was provided to John Shomaker & Associates, Inc. (JSAI) by NMOSE in September 2014. A Groundwater Vistas 6 (ESI, 2011) model file was provided for the revised superposition model with no pumping in the model file, and 100 one-year-long (31,557,600 seconds) stress periods. JSAI geo-referenced the model in Groundwater Vista 6 with a model origin (lower left corner) of X = 378,489 m, Y = 3,932,124 m, UTM83 Z13 (X = 1,241,760 ft, Y = 12,900,644 ft, UTM83 Z13), with no rotation of the model grid. Coordinates for the model origin were not provided by NMOSE at the time that the model was provided by NMOSE in 2014, and so it was assumed that NMOSE had not georeferenced the model. In an August 10, 2015 memo, NMOSE indicated that they had been using a shapefile for georeferencing of the grid, and it differed from JSAI's georeferencing described above. A comparison of the two found that JSAI's model origin was positioned about 0.25 mile east-southeast of NMOSE's model origin. This is a relatively small difference considering the fact that the model cell dimensions are 1 mile by 1 mile. All Buckman wells, imported into JSAI's georeferenced model based on their real-world coordinates, imported into the correct model cells as referenced from NMOSE pumping file. The NMOSE's model origin can be used for simulations for subsequent biennial reports.

JSAI imported BW1-13, USGS monitoring wells, other BMP wells, and BMP database wells as observations wells in model Layer 1 and model Layer 2. JSAI prepared pumping files including historical BW1-13 pumping from 1981 through August 2014 and various future pumping scenarios through the end of 2054, for import into Groundwater Vistas. BW1-13 pumping was distributed equally in model Layer 1 and model Layer 2, as in the NMOSE well file that was included in the set of MODFLOW files also provided by NMOSE in September 2014.

4.2 Comparison to Observed Data

Model-simulated historical drawdown since 1981 due to BW1-13 pumping was plotted on water-level hydrographs in Appendix A. In order to plot model-simulated drawdown on hydrographs and compare to observed water levels, drawdown was fixed to an estimated starting water level for each well. Model-simulated historical water-level changes between 2003 and 2014 are presented in Figure 6 (model Layer 1) and Figure 7 (model Layer 2).

The model simulation of drawdown in pumping wells near the Rio Grande (BW1-9; Figs. A2 through A10) reflects the trends but not the degree of observed drawdown. The model likely simulates more water contributing from the river package in model Layer 1 and less from groundwater storage than actual. It should be noted that BW1, BW7, and BW8 plot within river cells (model cell dimensions are uniformly 1 mile by 1 mile), as do USGS monitoring wells SF-2(B,C), SF-3(A,B,C), SF-4(A,B,C), and SF-5C. As noted previously, shallow USGS piezometers SF-3C, SF-4C, and SF-5C, have historically had water-level variations that correlate to stages in the Rio Grande; thus, observed water levels for these piezometers should not be compared to model-simulated drawdown in model Layer 2 (Figs. A18 through A20).

Model-simulated drawdown in model Layer 2 tracks relatively closely to pumping and non-pumping water-level data for BW10-13 (Figs. A11 through A14); however, the model does not simulate the effects on the localized artesian head component at BW11, BW-12, or the Buckman piezometer (Figs. A12, A13, and A15). Model-simulated drawdown in model Layer 1 tracks relatively closely to water-level data in other BMP wells (Figs. A16, and A21 through A39).

4.3 Use of Buckman Monitoring Program Database Wells

JSAI imported BMP database wells as observations wells in model Layer 1 and model Layer 2. Model-simulated future drawdowns were used for water-level projections for the database wells. Projections could only be made for database wells for which depth-to-water and total depth information are available. Projections for BMP database wells are presented in Appendices B and C.

According to the requirements for the biennial report, one well from the Tano Road area is also included in Appendix B and C tables. The Tano Road area well, RG-77553, is located near the western boundary of the Tano Road area. RG-77553 was completed in T17N.R09E.04 in 2002, and drilled to a total depth of 900 ft. This well was selected for projections because the location has been verified (June 19, 2008 email from J.M. Smith), and the well record from 2002 likely gives a realistic estimate of the water column in the well around the time BW10-13 began pumping.

4.4 Model-Simulated Future Drawdown Effects

Ten-year (2015 to end of 2024) and 40-year (2015 to end of 2054) model-simulated future drawdowns were used for water-level projections for wells in the BMP area. Model-simulated drawdowns are larger in model Layer 2 than model Layer 1, so in order to take a conservative approach, drawdowns in Layer 2 were used for projections. Model-simulated future drawdowns under three different pumping scenarios were considered in the current study.

4.4.1 Scenario 1 Full RG-20516 el al. Permit

To evaluate the worst-case scenario, future pumping of the full permitted diversion amounts under RG-20516 et al. was simulated, with a total of 6,000 ac-ft/yr distributed equally among BW10-13, and a total of 4,000 ac-ft/yr distributed equally among BW1-9. This worst-case scenario is referred to as Scenario 1 in this report. Model-simulated water-level declines under Scenario 1 are presented in Figure 8 for the 10-year period, and in Figure 9 for the 40-year period. Water-level projections for wells in the BMP area under Scenario 1 are presented in Appendix B.

4.4.2 Scenario 2 Forecasted Demand From RG-20516 et al.

The City has prepared a forecast for future pumping from BW10-13 in which the four wells pump a total of 4,800 ac-ft/yr for 5 years out of each 20-year future period, and a total of 1,000 ac-ft/yr for the remaining 15 years in each 20-year future period, with pumping distributed equally among the four wells (equal to an average of 1,950 ac-ft/yr for BW10-13). A total of 4,000 ac-ft/yr is distributed equally among BW1-9. This forecast pumping scenario is referred to as Scenario 2 in this report, and is considered a realistic pumping scenario in contrast to the worst-case Scenario 1. Model-simulated water-level declines under Scenario 2 are presented in Figure 10 for the 10-year period, and in Figure 11 for the 40-year period. Water-level projections for wells in the BMP area under Scenario 2 are presented in Appendix C.

4.4.3 Baseline RG-20516 Scenario

In order to compare future Scenarios 1 and 2 to a future Baseline Scenario (i.e., what the City can divert from Buckman Well Field under existing permits granted prior to RG-20516-S-10 through RG-20516-S-13), future pumping of the full permitted diversion amount of 10,000 ac-ft/yr from BW1-9 was simulated. The total of 10,000 ac-ft/yr was distributed equally among BW1-9 in this future Baseline Scenario. Differences between model-simulated drawdowns for the 40-year period under Scenario 1 compared to baseline are presented in Figure 12, and under Scenario 2 compared to baseline are presented in Figure 13.

This future Baseline Scenario is not used in the projection of future drawdowns in this biennial report. Figures 12 and 13 are presented to aid in the reader's understanding of the difference between future pumping based on RG-20516-S-10 through RG-20516-S-13 (Scenarios 1 and 2), and a future Baseline Scenario representing existing permits granted prior to RG-20516-S-10 through RG-20516-S-13.

5.0 COMPLIANCE WITH PERMIT RG-20516-S-10 THROUGH RG-20516-S-13

5.1 Buckman Monitoring Program

The City is in compliance with the BMP through ongoing water-level monitoring, maintenance of the BMP database of wells and permits, reporting of BW1-13 diversion data and BMP water-level data, and submittal of this biennial report.

To remain in compliance with the BMP, this biennial report identifies all BMP area wells for which water columns are projected to be reduced to less than 30 percent over the 10-year or 40-year periods due to pumping at the full permitted diversion amounts (future pumping Scenario 1) or based on forecasted demand (future pumping Scenario 2).

Appendix B presents projected drawdowns for BMP area wells under future pumping Scenario 1, and Appendix C presents projected drawdowns for these wells under future pumping Scenario 2. Table 6 summarizes BMP area wells for which water columns are projected to be reduced to less than 30 percent over the 10-year or 40-year periods.

5.2 Permit Conditions 6 and 7

This biennial report addresses Permit Conditions 6 and 7 by identifying any table 30-A and 30-B wells that may go dry due to pumping at the full permitted diversion amounts (future pumping Scenario 1) or based on forecasted demand (future pumping Scenario 2).

The table 30-A and 30-B wells are wells specifically identified in Finding 30 of NMOSE Order HU No. 03-004 as potentially going dry in 40 years (table 30-A) or 100 years (table 30-B) as a result of the RG-20516-S-10 through RG-20516-S-13 permit. Appendix B presents projected 10-year and 40-year drawdowns for table 30-A and 30-B wells (plus 100-year drawdowns for table 30-B wells) under future pumping Scenario 1, and Appendix C presents projected drawdowns for these wells under future pumping Scenario 2. Table 6 summarizes BMP area wells, including any table 30-A or 30-B wells, for which water columns are projected to be reduced to less than 30 percent over the 10-year or 40-year periods for the given pumping scenario.

It should be noted that when considering model Layer 1 results, most of these wells in Table 6 are not projected to go dry or have a reduced water column of less than 30 percent. For example see Figures A22, A24, and A28.

Table 6. Ten- and 40-year projections for Buckman Monitoring Program area wells for which water columns are projected to be reduced to less than 30 percent (see Appendices B and C for projections for additional BMP database wells)

NMOSE ID	**RG-6386**	**RG-438**	**RG-29723**	**RG-30777**	**RG-89212 POD1**	**-**
other ID (NMBGMR/USGS, if any)	**EB160**	**EB251**	**EB645**	**EB064**	**-**	**M-18**
well name	**Tony's WM**	**Midway WM**	**USFS Well***	**-**	**-**	**-**
total depth, ft	350	310	693	663	700	560
starting water level date	7/17/14	8/7/14	7/17/14	7/3/14	1983	1961
starting water level, ft bgl	293.92	267.30	671.43	543.13	580	524
starting water column, ft	56	43	22	120	120	36
Scenario 1 full permit (model Layer 2) percent water column remaining after 10 yrs	59	**0**	**0**	32	32	51
Scenario 1 full permit (model Layer 2) percent water column remaining after 40 yrs	**29**	**0**	**0**	**14**	**14**	**11**
Scenario 2 forecast (model Layer 2) percent water column remaining after 10 yrs	89	55	60	87	87	75
Scenario 2 forecast (model Layer 2) percent water column remaining after 40 yrs	80	38	34	83	83	58
comments		table 30-A	table 30-A			

* Mitigation to the owners and users of this well has been provided in the form of reclaimed water provided to the site by the City of Santa Fe.
NMOSE - New Mexico Office of the State Engineer
NMBGMR/USGS - New Mexico Bureau of Geology and Mineral Resources/U.S. Geological Survey
USFS - U.S. Forest Service
bold - less than 30 percent water column remaining
table 30-A - Finding 30, NMOSE Order HU No. 03-004
ft bgl - feet below ground level
WM - windmill

5.3 NMOSE Review of 2014 Report

In a letter dated August 10, 2015, NMOSE Hydrology Bureau evaluated and provided comments on the City's previous Buckman Monitoring Program biennial report prepared in December 2014 (JSAI, 2014). NMOSE's comments, and responses addressing these comments, are as follows:

> **NMOSE Comment No. 1**: None of the wells in Table 30-B were projected to go dry; however, they were only evaluated for 40 years instead of 100 years, which was the period used in the Findings in the Report and Recommendation of the Hearing Examiner.
> **Response**: In order to address NMOSE Comment No. 1, and permit conditions, the City has used the NMOSE superposition model of the Santa Fe area and has simulated future pumping at the full permitted diversion amounts under RG-20516 et al. (Scenario 1) and evaluated model-simulated 100-year drawdown for table 30-B wells. The analysis considered model Layer 2 simulated drawdowns, which significantly overstates drawdown because almost all of the wells in table 30-B draw water from the shallow aquifer zone or model Layer 1 and the effects of pumping BW1-9 are combined with BW10-13. No table 30-B wells are projected to go dry within the 100-year period due to pumping at the full permitted diversion amounts under Scenario 1 (Appendix B).
>
> **NMOSE Comment No. 2**: A dramatic decline in water levels (> 100 ft) at BW 11 and BW 12 was observed in the first few months after those wells were completed and JSAI and the City attribute the decline to removal of the artesian head component due to pumping. The deepest Buckman piezometer…has also had a large drop in the water level; however, it took longer (about 3 years) for the largest part of the decline to occur and the authors also suggest that this decline is due to the "removal of the artesian head component" of the water level. The JSAI and the City suggest that the artesian head component is unique to a small area bounded by fault segments and is not representative of the aquifer as a whole. We question this interpretation but it does raise the issue of where in the screened strata the bulk of the produced water is derived, and how connected the aquifer is areally.…
>
> To better forecast drawdown and in anticipation of future modeling efforts we recommend the City conduct aquifer tests of sufficient pumping stress and duration to determine storage coefficients by observing test response in surrounding wells and the multilevel piezometers….
>
> Because a newer and more appropriate model (models?) for the Espanola Basin are planned for the future…it is our recommendation that we wait on additional data collection and/or a future evaluation with newer modeling that incorporates data that has been collected from the Buckman monitoring program wells and surrounding area before deciding whether Permit Conditions 6 and 7 have been satisfied.
> **Response**: The City and JSAI's interpretation of water-level declines at BW11, BW12, and the deepest Buckman piezometer (SF-6A) are based on existing data in the form of well reports, well records, lithologic logs, pumping-test data, water-level data, and geologic mapping, and is discussed in JSAI (2014). SF-6A (the deepest Buckman piezometer) is a non-pumping monitoring well located over 1 mile from the nearest production well, whereas

BW11 and BW12 are production wells; thus, effects at these wells differed in terms of timing and magnitude. The City and JSAI interpret the artesian head component as unique to the deepest part of the aquifer within certain fault segments and not representative of the aquifer as a whole because this trend is not observed at BW10 or BW13, nor at any other Buckman monitoring program wells. Furthermore, this initial water-level decline has not been observed in the shallow aquifer, which provides the supply for almost all of the wells of other ownership in the BMP area.

The BMP includes detailed record keeping of pumping and water levels, so it is in itself a controlled pumping test. It should be noted that the City will need the full permitted diversion amounts under RG-20516 et al. to future water demands in years when surface-water resources are not available, and that groundwater is conserved when the City has adequate supply from its surface-water resources. A month(s)-long duration pumping test performed at rates of hundred(s) of acre-feet per month, and the resources necessary to perform such a test, particularly at a time when supply is available from other resources, would not be in-line with recent pumping or current water resource management strategy for Buckman Well Field, nor is it particularly applicable to the purposes of the BMP as stated in Section 1.0 of the document titled *Buckman Well Field Water-Level Monitoring Program Response to Condition of Approval No. 5, Permit No. RG-20516-S-10 thru RG-20516-S-13, City of Santa Fe:* "The purposes of the monitoring program are to give a general indication of water-level change over time, to monitor the effects pumping the Buckman Well Field has on nearby senior water rights, including OSE 72-12-1 wells, and to provide data necessary to identify threshold drawdowns for administration of State Engineer Order Conditions 5, 6, and 7."

To meet Permit Condition 5, the City has established and implemented the BMP, and to meet the requirements of Permit Conditions 6 and 7, the City has evaluated the worst-case scenario of future pumping at the full permitted diversion amounts (Scenario 1) and model-simulated drawdown effects in model Layer 2 for water-level projections over the 10- and 40-year periods for wells included in tables 30-A and 30-B of Finding 30, NMOSE Order HU No. 03-004.

The existing NMOSE model provides a reasonable match to BMP area water-level data and trends, and is an appropriate tool for predicting water-level trends with the added conservative approach for simulating future drawdown effects based on results for model Layer 2. Additional BMP data collected during an extended pumping cycle will be more useful for predictions than a new model.

NMOSE Comment No. 3: We do have concerns about the current model's ability to make drawdown predictions; however, in the meantime, based on the City of Santa Fe's recent pumping (much less than the permitted 6,000 ac-ft/yr), and their forecasts for future pumping, it does not appear that wells will go dry within the next few years. Ongoing monitoring should detect any changes in water-level trends before any monitoring program wells are dewatered.

Response: The intent of the monitoring program and biennial report is to detect any changes in water-level trends before any monitoring program wells are dewatered. The combination of empirical data analysis and conservative model-simulated pumping scenario should provide a reasonable level of confidence with protecting wells of other ownership.

6.0 CONCLUSIONS

- There is a significant difference in water-level responses between wells and piezometers completed in the shallow and deep aquifer zones. BW1-13 pumping is mostly from the deep aquifer zone, where the largest water-level declines are observed. Water-level declines in the shallow aquifer are significantly less than those observed in the deep aquifer. Almost all wells of other ownership (including table 30-A and 30-B wells) are completed in the shallow aquifer.
- No table 30-A or 30-B wells or BMP database wells are projected to go dry under Scenario 2, the forecasted pumping scenario (Appendix C).
- Two table 30-A wells, Midway Windmill and USFS Well, are projected to go dry within the 40-year period due to pumping at the full permitted diversion amounts under Scenario 1 (Table 7) when considering model results for Layer 2. These wells do not go dry when considering results from model Layer 1 (the shallow aquifer in which the wells are completed). Mitigation to the owners and users of USFS Well has been provided in the form of reclaimed water provided to the site by the City of Santa Fe.
- Four additional wells from the BMP database, Tony's Windmill, RG-30777, RG-89212-POD1, and M-18, are projected to have water columns reduced to less than 30 percent within the 40-year period due to pumping at the full permitted diversion amounts under Scenario 1. Tony's Windmill is located about 3.5 miles east of BW10 and BW11 and has a starting water column of 56 ft. Wells RG-30777 and RG-89212-POD1 are located within 0.5 mile east of BW13 and both have a starting water column of 120 ft. Well M-18 referenced from Mourant (1980), is located about 1.9 miles east of Midway Windmill, likely drilled for livestock watering use, and had a starting water column of 36 ft in 1961. Note that wells RG-89212-POD1 and M-18 have not yet been field-verified in terms of their existence, completion, and location.
- It should be noted that the Midway Windmill is also projected to go dry, and M-18 projected to have water column reduced to less than 30 percent, within the 40-year period under the baseline pumping scenario (10,000 ac-ft/yr from BW1-9).
- No table 30-B wells are projected to go dry within the 100-year period due to pumping at the full permitted diversion amounts under Scenario 1 (Appendix B).
- After 40 years, Tano Road area well RG-77553 is projected to have 97 percent of its starting water column under Scenario 1 (full permitted diversion). Water-level declines in the Tano Road area are projected to be 10 ft or less over the 40-year period due to Buckman Well Field pumping (Fig. 9).
- The City has addressed NMOSE comments on the 2014 biennial report and Conditions 6 and 7 by using the NMOSE superposition model to simulate BW1-13 pumping and drawdown effects, and using drawdown results from Scenario 1 (full permitted diversion amounts) in model Layer 2 to project water-level declines over the 40-year period. Although NMOSE has deferred

on deciding whether Permit Conditions 6 and 7 have been satisfied (see NMOSE Comment No. 2 under Section 5.3), NMOSE indicates that it does not appear that wells will go dry within the next few years, and ongoing monitoring should detect any changes in water-level trends before any monitoring program wells are dewatered (see NMOSE Comment No. 3 under Section 5.3).

- Additional drawdown over the 40-year period in the BMP area under the Scenario 2 forecasted pumping scenario is projected to be minimal in comparison to the Baseline Scenario (Fig. 13). The Baseline Scenario simulates 10,000 ac-ft/yr from BW1-9 as permitted prior to RG-20516-S-10 through RG-20516-S-13, whereas Scenario 2 forecasts annual diversions ranging from 5,000 to 8,800 ac-ft/yr (4,000 ac-ft/yr from BW1-9 and 1,000 to 4,800 ac-ft/yr from BW10-13).

7.0 RECOMMENDATIONS

- Continued monitoring at Midway Windmill, USFS Well, Tony's Windmill, and RG-30777 will help the City ensure that the wells maintain sufficient water columns under actual Buckman Well Field pumping conditions to remain in compliance with RG-20516 permit requirements.
- RG-89212-POD1 and M-18 need to be field-verified in terms of their existence, completion, and location. RG-89212-POD1 is reported to be very close to RG-30777, with a similar completion as RG-30777.
- The City may consider installing a transducer to record hourly or daily water-level measurements in actively-pumped stock well Midway Windmill. Based on field notes taken at the time of water-level data collection at the well between September 2013 and 2014, it appears that water levels were fluctuating at the well by up to 5 ft within a 10-minute period. However, water-level measurements remained relatively stable and consistent in 2015 (within 0.34 ft). If water-level measurements remain relatively stable in the well going forward, then hand measurements will suffice and a transducer will not be necessary. If measurements appear to fluctuate, installation of a transducer may be recommended. The observed water-level trend at Midway should mimic results from SF-6C due to proximity and similar depth.
- Future comparisons of observed BMP data to NMOSE administrative model-simulated water-level trends should consider a sensitivity analysis of BW1-13 pumping allocation between model layers. A better match to observe water level data from BW1-9 may be possible by shifting the pumping to model Layer 2. The calibration of pumping allocation could help refine the modeling analysis so a higher level of confidence in predictions can be made.
- The next biennial report should consider using the model and observed monitoring data to get a better handle on the incremental effects of pumping BW10-13 by evaluating drawdown from BW1-9 and regional pumping.

8.0 REFERENCES

Barroll, P., and Keyes, E., 2005, Santa Fe model: Resolution of discrepancy between superposition and calibrated versions of the model: New Mexico Office of the State Engineer Hydrology Bureau Technical Memorandum to Tom Morrison, November 29, 2005, 4 p., plus figures.

Core, A.B., 1996, Española Basin, Santa Fe Region, modified McAda-Wasiolek model user manual: New Mexico State Engineer Office Technical Division Hydrology Report 96-2.

[ESI] Environmental Simulations, Inc., 2011, Ground Water Vistas 6 graphical user interface.

Finch, S.T., Jr., Embid, E.H., and Baggerman, J., 2012, City of Santa Fe Buckman Well Field arsenic evaluation project Alternatives 5 and 6: consultant's report prepared by John Shomaker & Associates, Inc., for CDM Smith, October 2012, 18 p. plus figures and appendices.

[JSAI] John Shomaker & Associates, Inc., 2014, Buckman Wells 10-13 (RG-20516-S-10 through S-13) monitoring program biennial report, December 2014: consultant's report prepared by John Shomaker & Associates, Inc. for City of Santa Fe Water Division, December 26, 2014, 22 p. plus illustrations and appendices.

Koning, D.J., and Read, A.S., 2010, Preliminary Draft, Geologic map of the Southern Española Basin, Santa Fe County, New Mexico: New Mexico Bureau of Geology and Mineral Resources Open-File Report 531.

Mourant, W.A., 1980, Hydrologic maps and data for Santa Fe County, New Mexico: Basic Data Report prepared by the U.S. Geological Survey and New Mexico Office of the State Engineer, 180 p. plus maps.

Street, J.B., and Finch, S.T., Jr., 2004, Well report for Buckman Wells No. 10 through 13, City of Santa Fe, New Mexico: consultant's report prepared by John Shomaker & Associates, Inc., for City of Santa Fe, May 2004, 59 p. plus figures and appendices.

McAda, D.P., and Wasiolek, M., 1988, Simulation of the regional geohydrology of the Tesuque aquifer system near Santa Fe, New Mexico: U.S. Geological Survey Water-Resources Investigations Report 87-4056, 71 p. plus figures and maps.

ILLUSTRATIONS

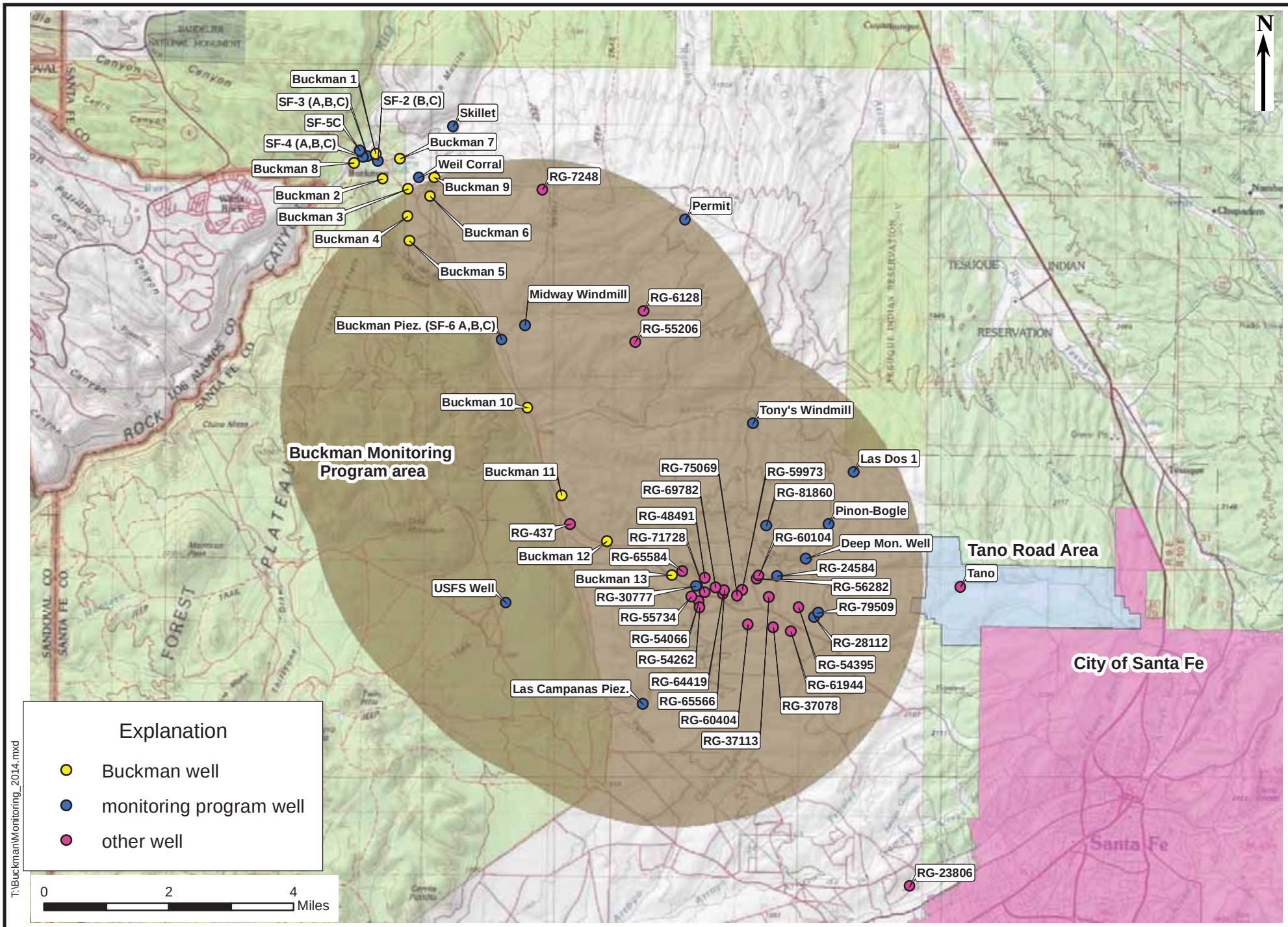


Figure 1. Map showing Buckman Monitoring Program area and Tano Road area, and selected wells.

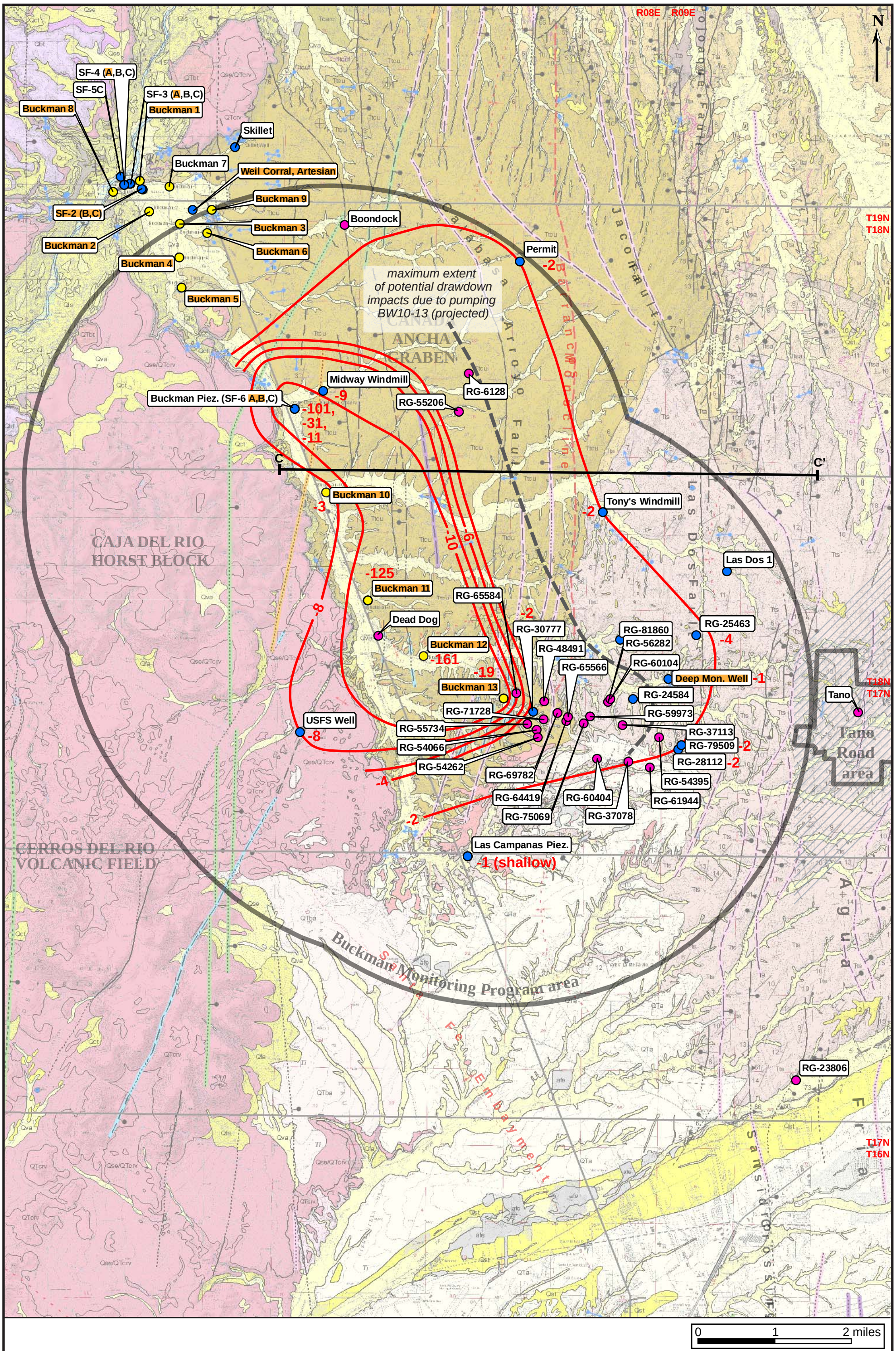
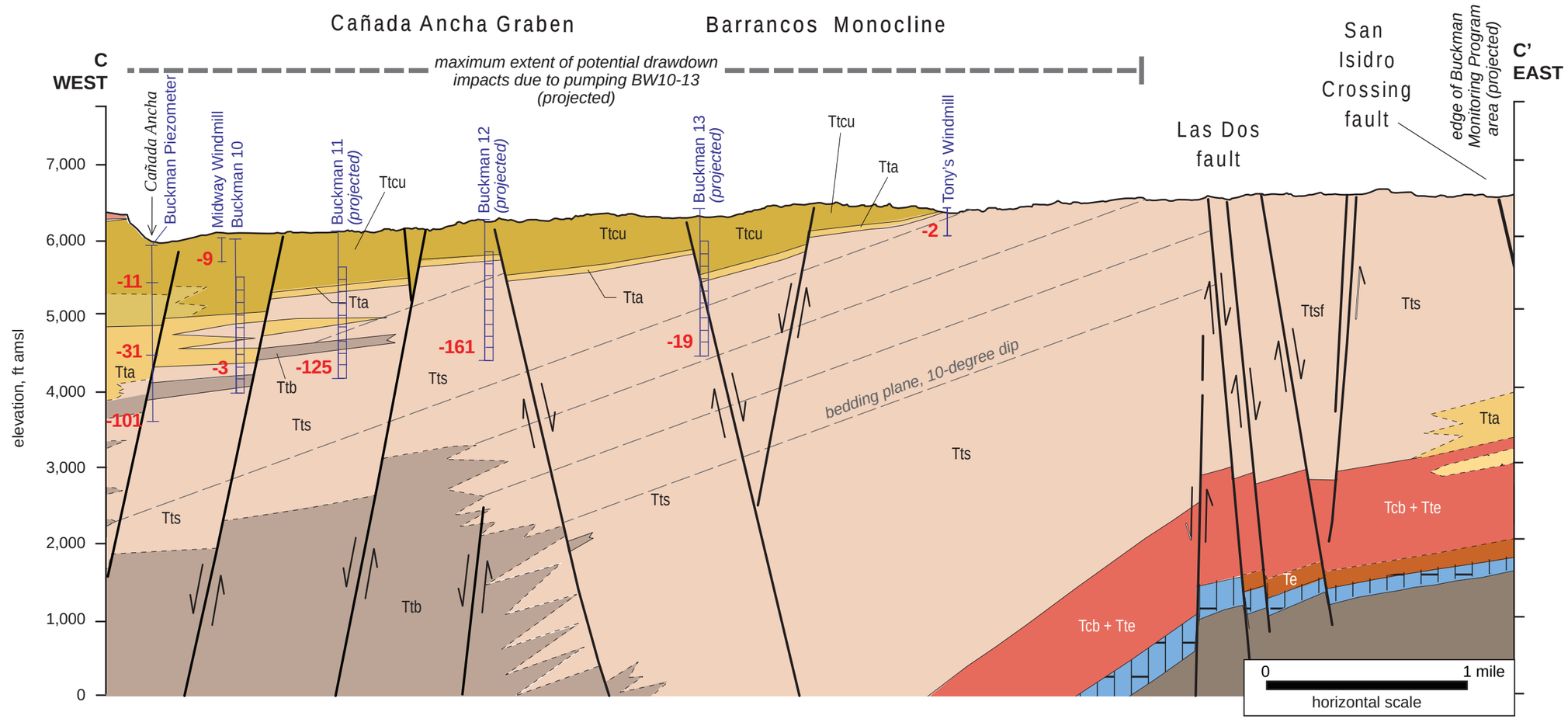


Figure 2. Geologic map (Koning and Read, 2010) showing Buckman Monitoring Program wells, other selected wells, and water-level declines measured between 2003 and present, in feet. See Figure 3 for explanation of geologic units, lines, and symbols.



EXPLANATION

QUATERNARY-AGE DEPOSITS

- Qse sheetflood deposits, minor eolian sediment
- Qls landslide deposits
- Qct colluvium and talus
- Qfa alluvial fan deposits
- Qva valley-fill alluvium
- Qst stream terrace deposits
- Qbt Tshirege Member of the Bandelier Tuff

QUATERNARY-TO TERTIARY-AGE DEPOSITS

- QTcrv Cerros del Rio volcanic rocks
- QTbt basaltic tephra
- QTa Ancha Formation

TERTIARY-AGE TESUQUE FM.

- Ttcu/Ttcuf Cuarteles Member of Tesuque Formation
- Tta Lithosome A of Tesuque Formation
- Ttb Lithosome B of Tesuque Formation
- Tts Lithosome S of Tesuque Formation
- Ttbab interbedded Lithosome A&B of Tesuque Fm.
- Tcb + Tte Cieneguilla/Lithosome E of Tesuque Fm.

PALEOZOIC-AGE

- Penn lm undifferentiated Pennsylvanian limestone

PROTEROZOIC-AGE

- XYu undifferentiated units

- Buckman well
- monitoring program well
- other well
- fault
- water-level decline contour, ft/yr
- -1.0 water-level decline, ft
- 0.1 water-level rise, ft
- Deep Mon. Well orange highlight: well representative of deep aquifer

Figure 3. West-east geologic cross-section C-C' (after Koning and Read, 2010) showing selected Buckman Monitoring Program wells, water-level changes measured between 2003 and present, and explanation of geologic units and map symbols. See Figure 2 for line of section.

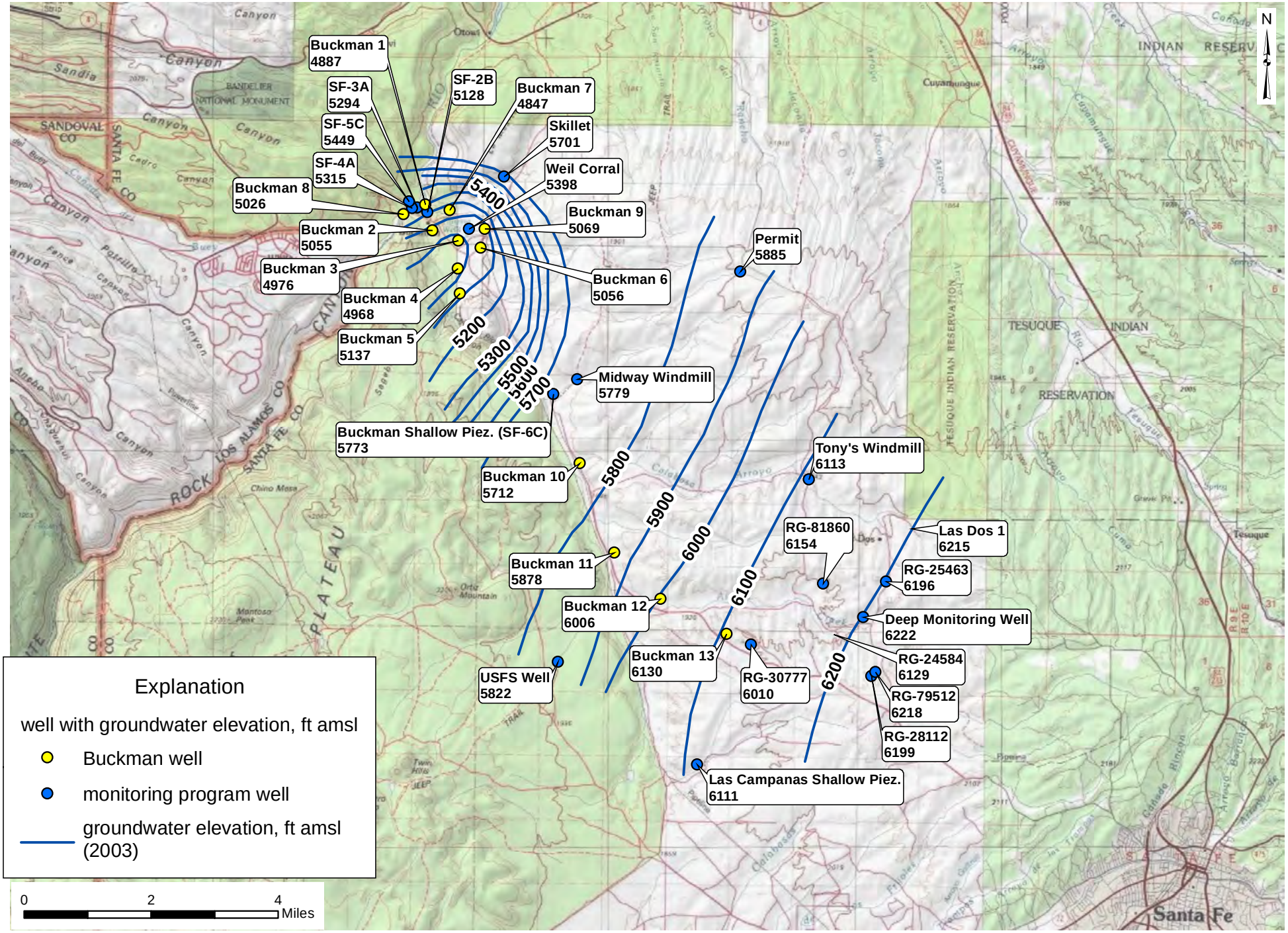


Figure 4. Map showing 2003 groundwater-elevation contours for the regional aquifer in the Buckman Monitoring Program area, Santa Fe County, New Mexico.

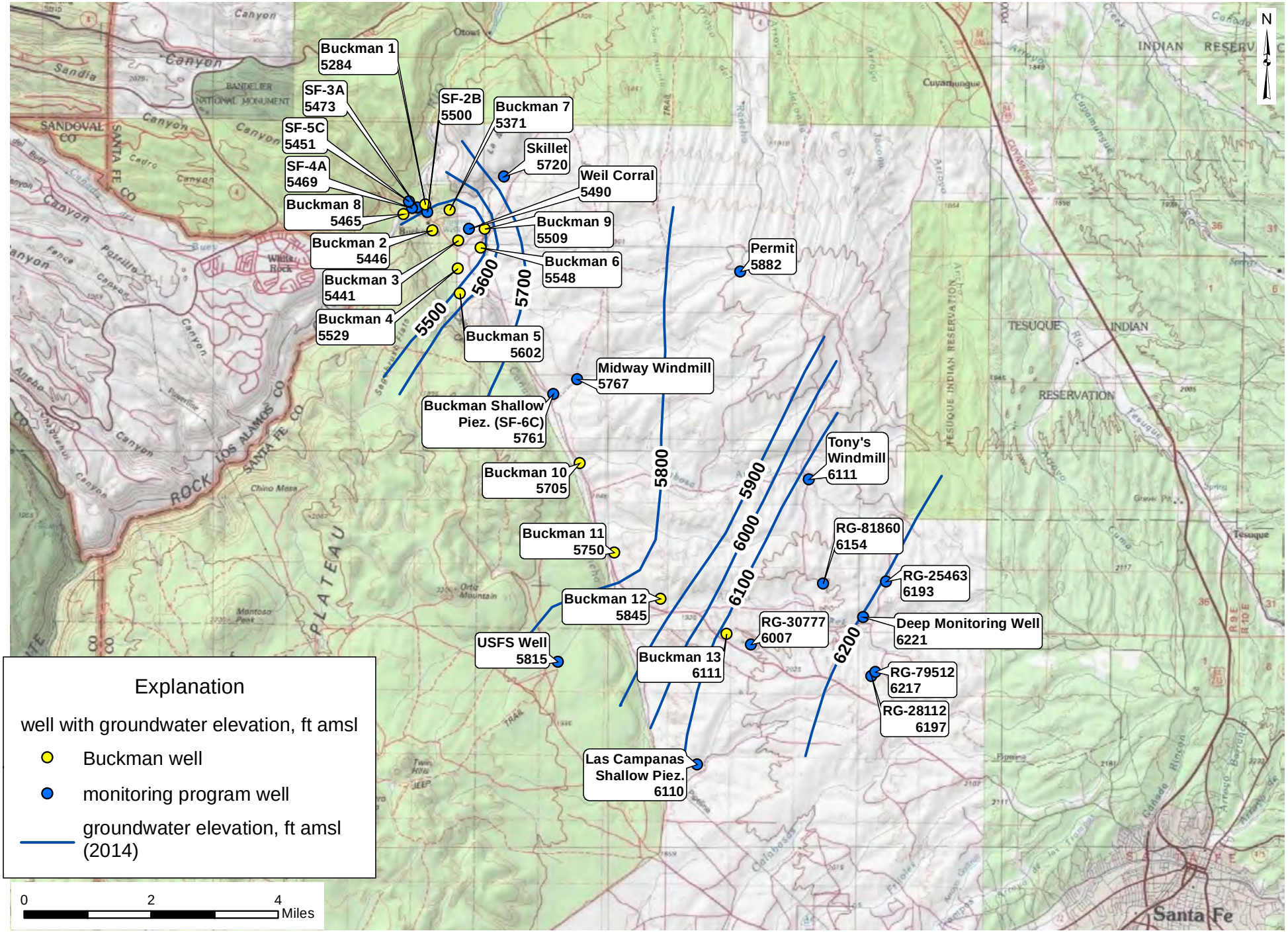


Figure 5. Map showing 2014 groundwater-elevation contours for the regional aquifer in the Buckman Monitoring Program area, Santa Fe County, New Mexico.

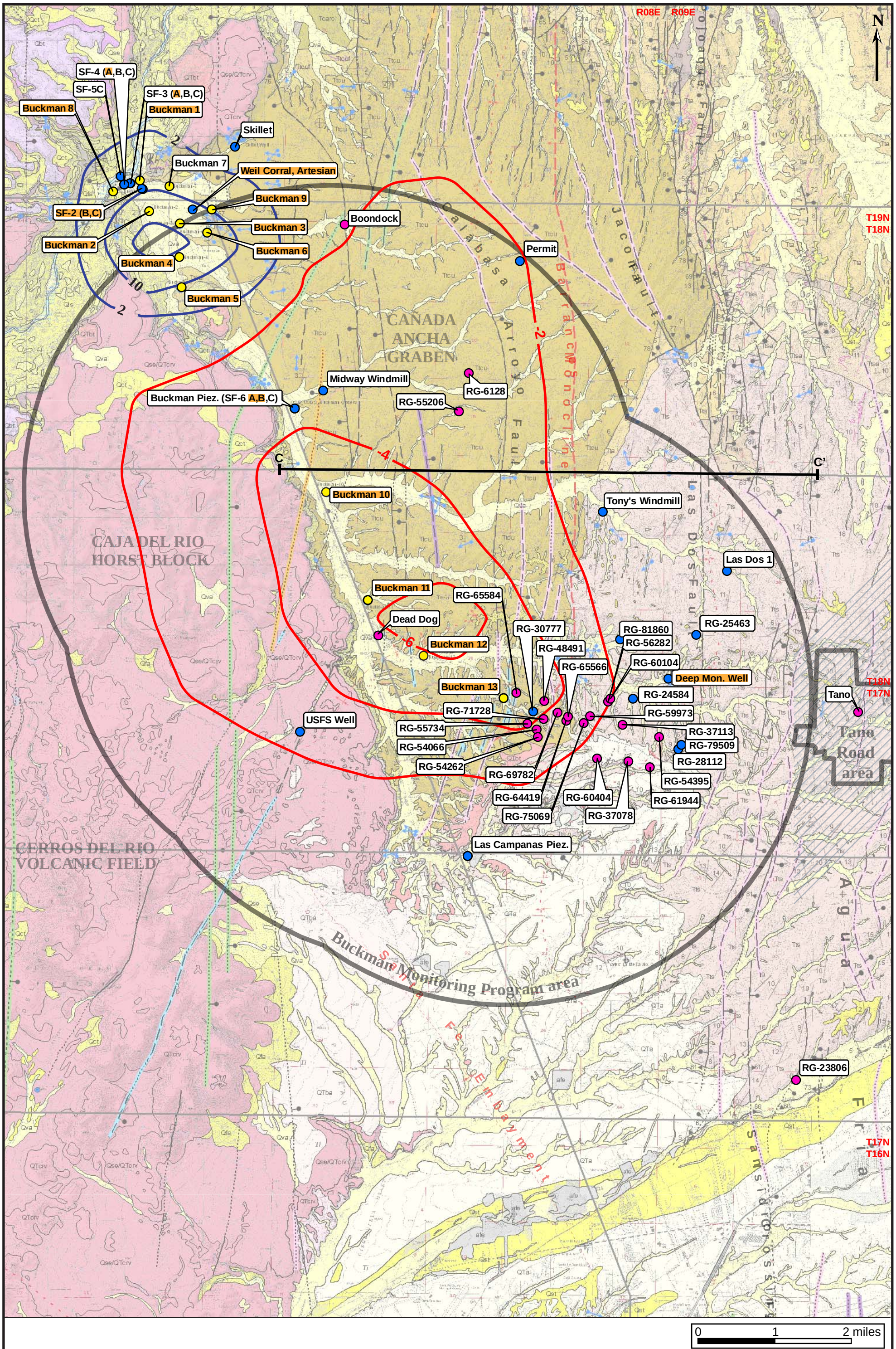
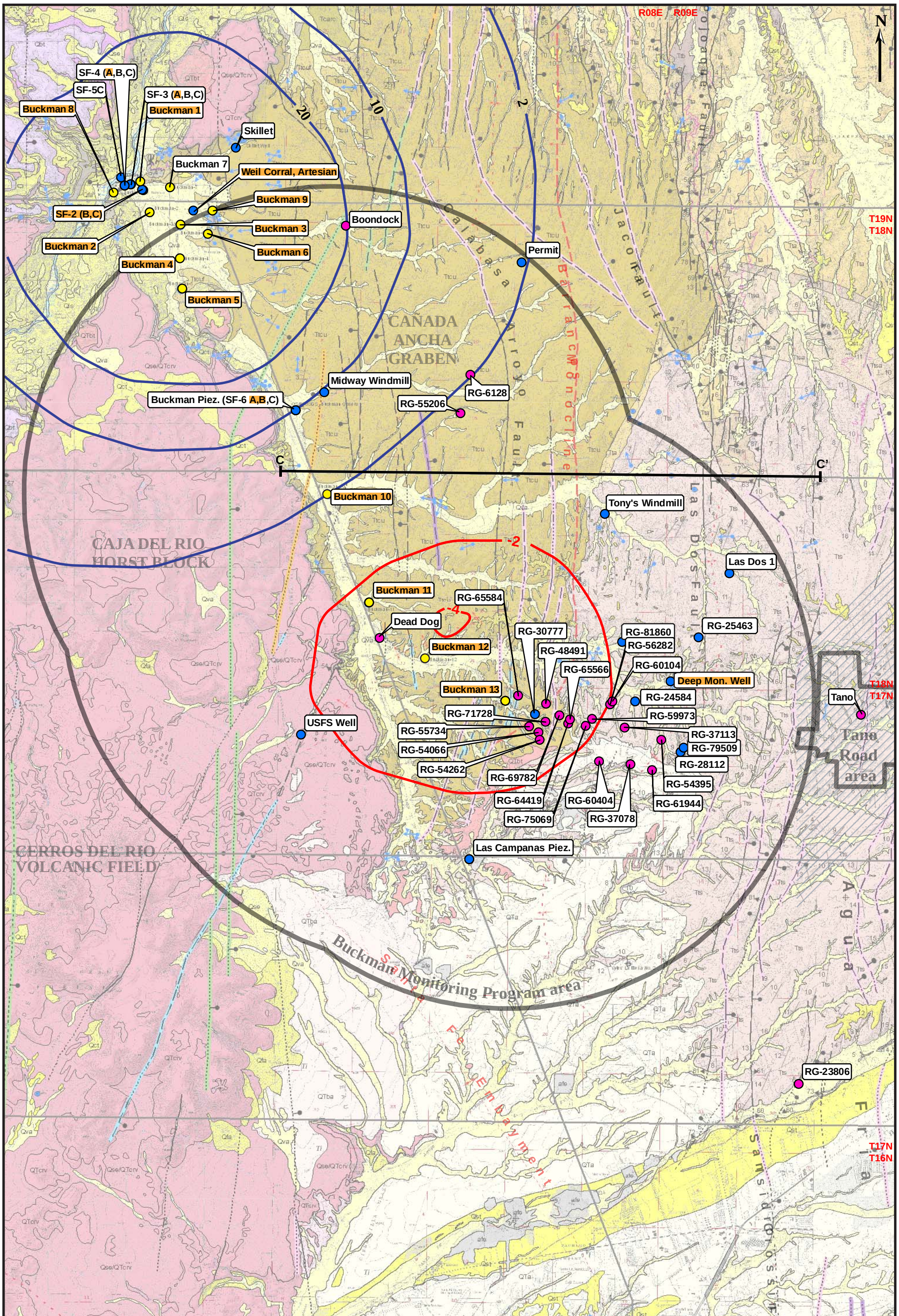


Figure 6. Geologic map (Koning and Read, 2010) showing NMOSE groundwater-flow model-simulated water-level changes between 2003 and 2014, in feet, for model Layer 1.



Note: Model-simulated drawdown does not include initial observed artesian head change observed at BW11 and BW12 in 2003 (see Figs. A12 and A13)

0 1 2 miles

Figure 7. Geologic map (Koning and Read, 2010) showing NMOSE groundwater-flow model-simulated water-level changes between 2003 and 2014, in feet, for model Layer 2.

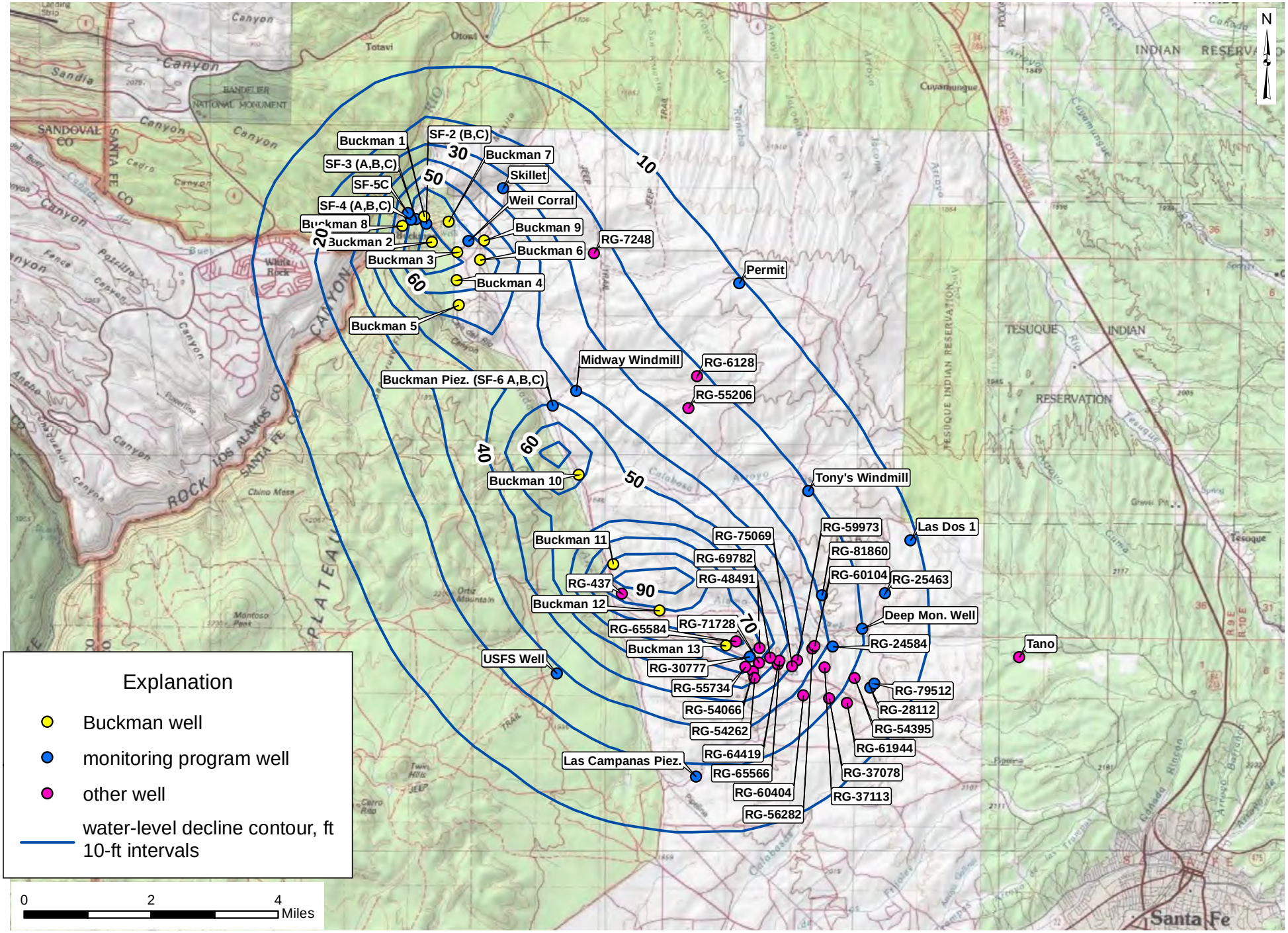


Figure 8. Map showing NMOSE groundwater-flow model-simulated 10-year water-level declines (2015 to 2024), in feet, for model Layer 2, under future pumping Scenario 1 (worst case: BW1-9 = 4,000 AFY, BW10-13 = 6,000 AFY).

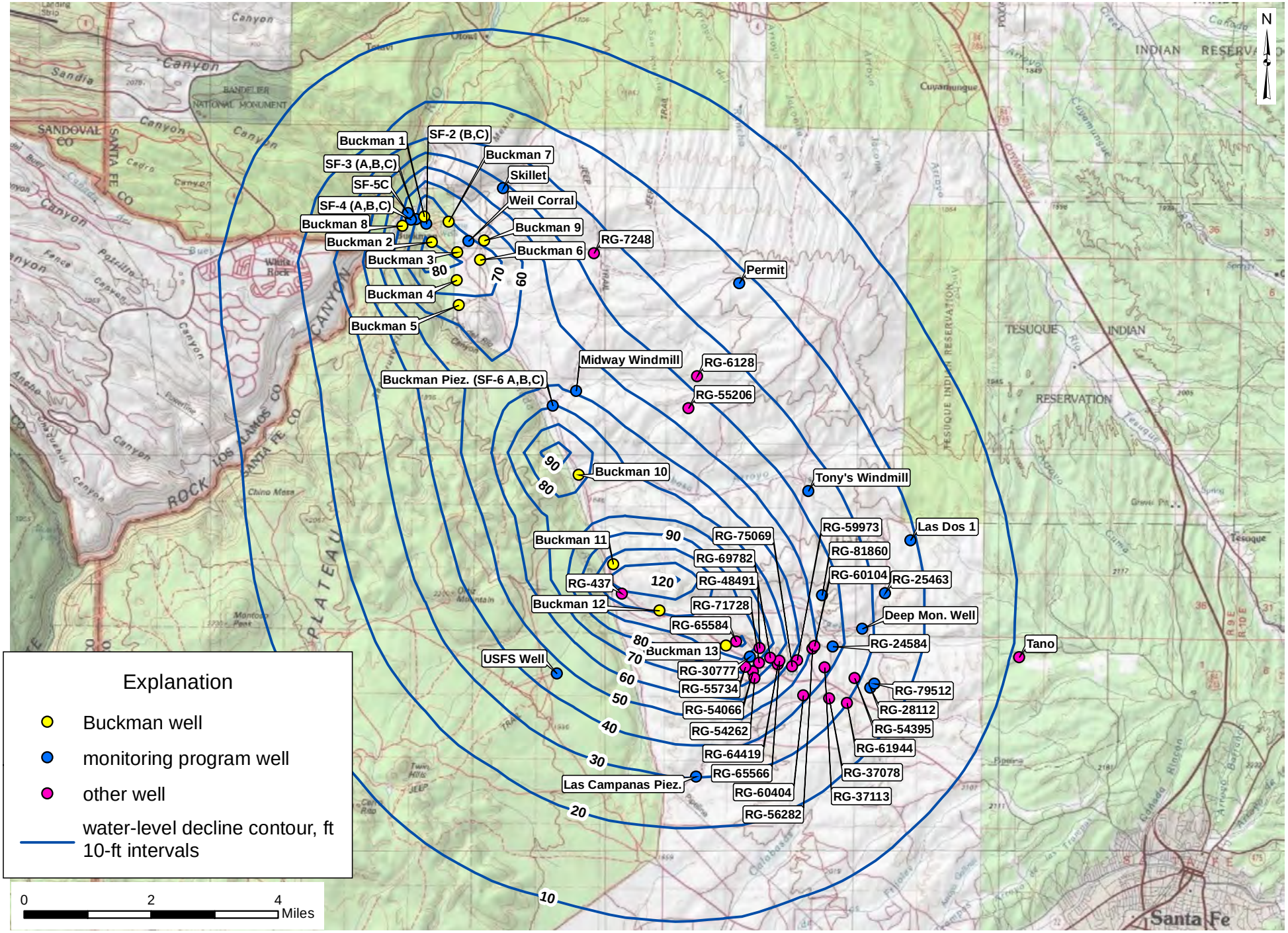


Figure 9. Map showing NMOSE groundwater-flow model-simulated 40-year water-level declines (2015 to 2054), in feet, for model Layer 2, under future pumping Scenario 1 (worst case: BW1-9 = 4,000 AFY, BW10-13 = 6,000 AFY).

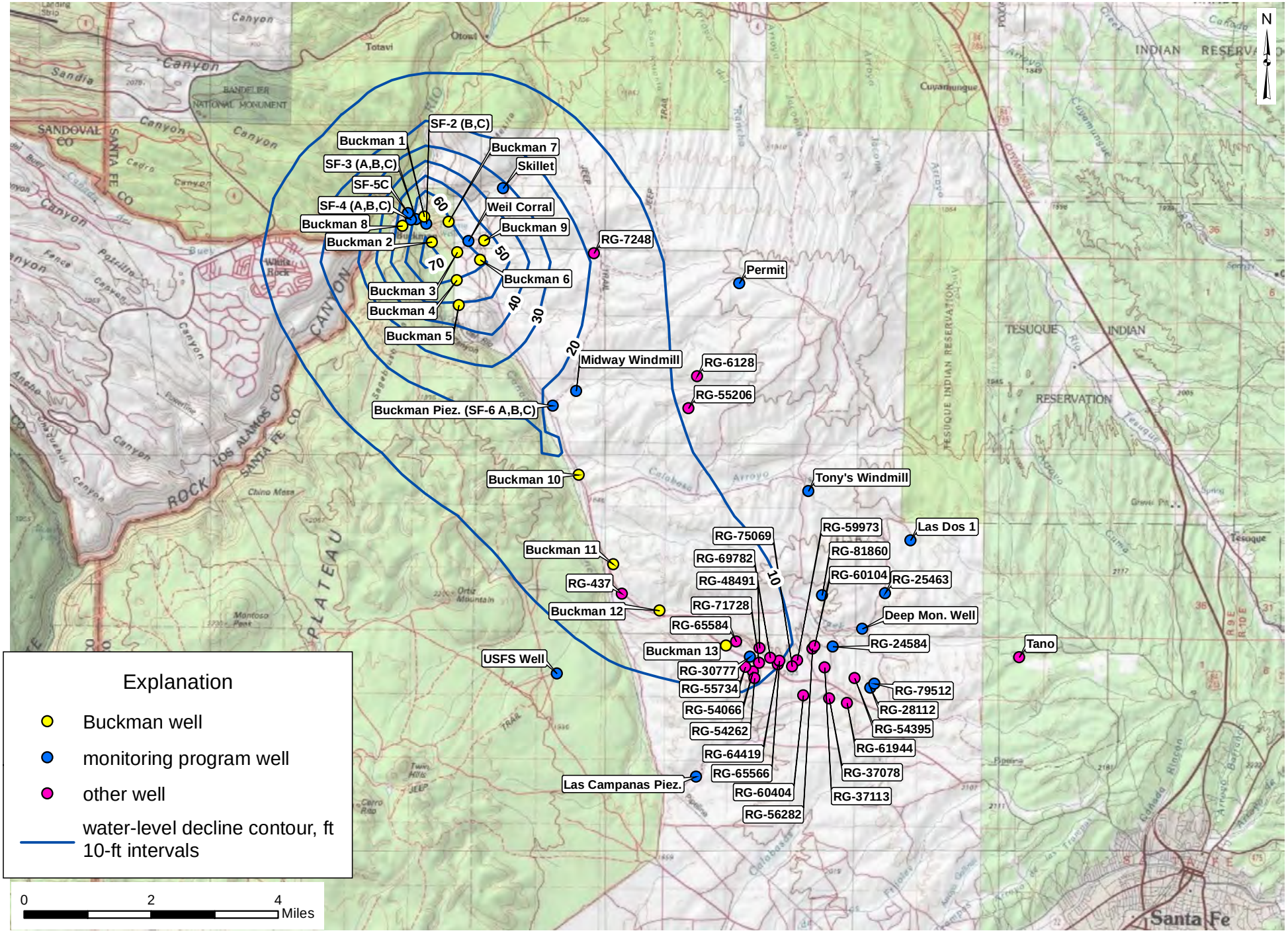


Figure 10. Map showing NMOSE groundwater-flow model-simulated 10-year water-level declines (2015 to 2024), in feet, for model Layer 2, under future pumping Scenario 2 (forecast scenario: BW1-9 = 4,000 AFY, BW10-13 1,950 AFY (avg.)).

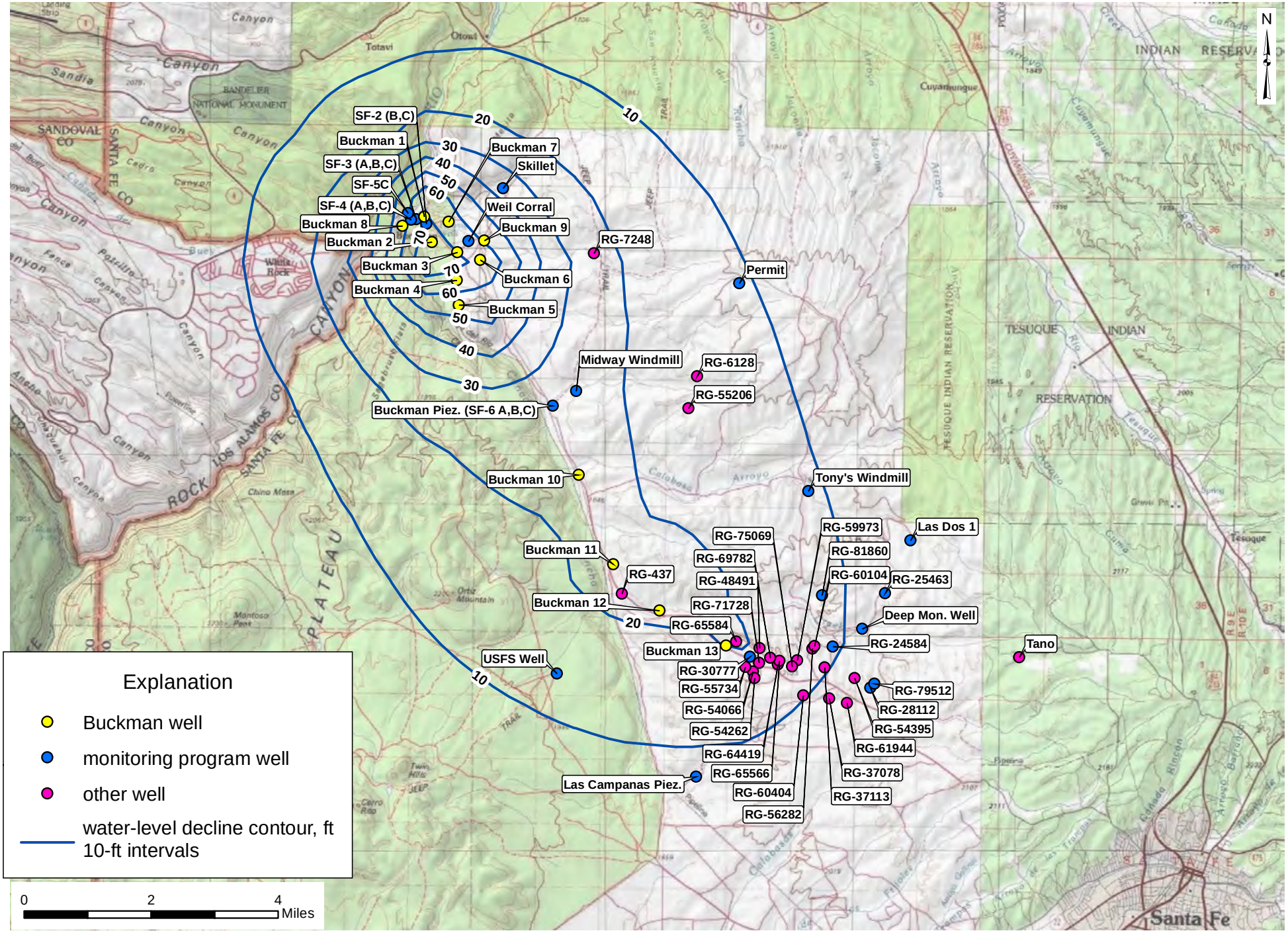


Figure 11. Map showing NMOSE groundwater-flow model-simulated 40-year water-level declines (2015 to 2054), in feet, for model Layer 2, under future pumping Scenario 2 (forecast scenario: BW1-9 = 4,000 AFY, BW10-13 1,950 AFY (avg.)).

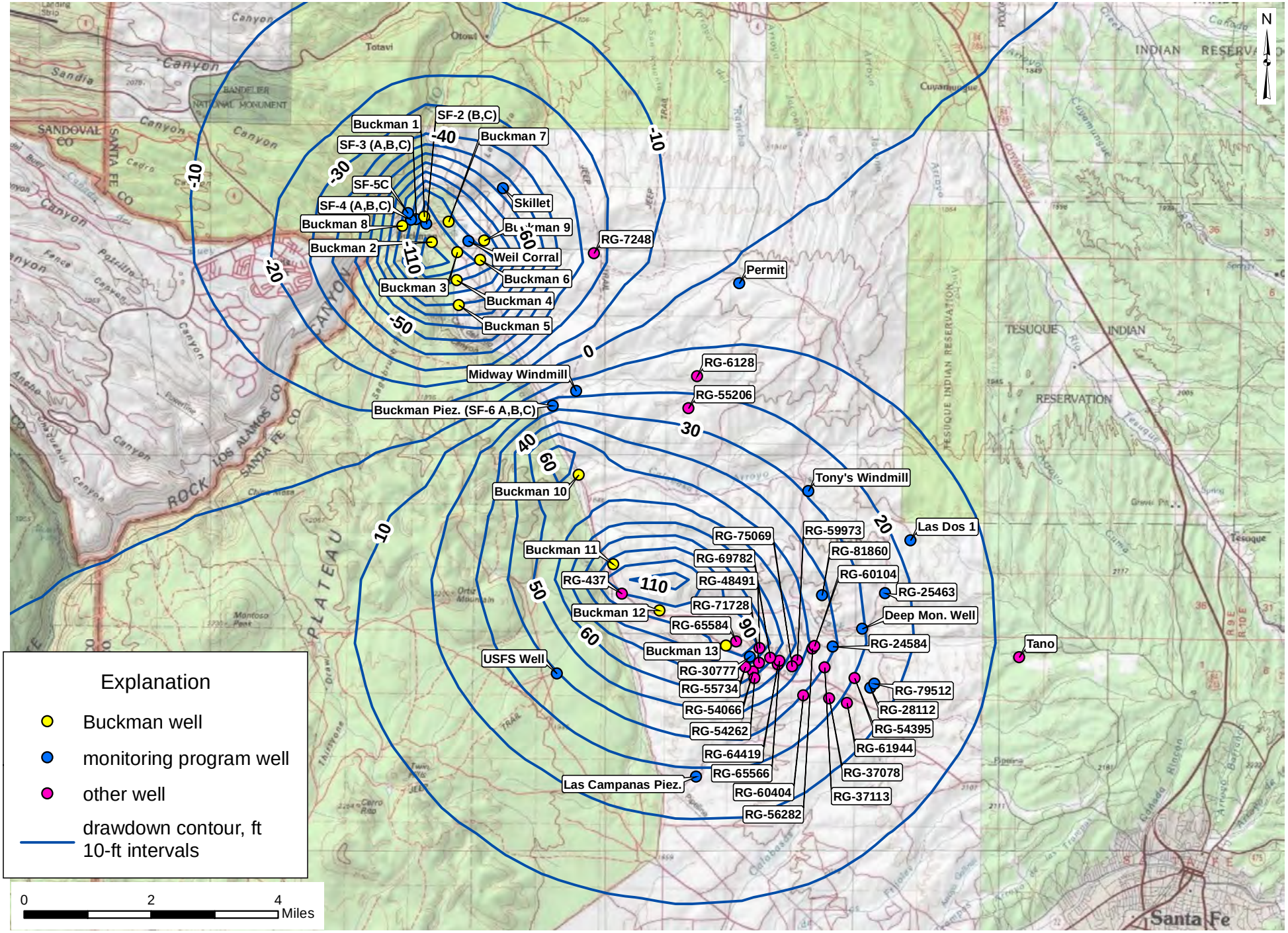


Figure 12. Map showing difference in NMOSE groundwater-flow model-simulated 40-year drawdown, in feet, for model Layer 2, between future pumping Scenario 1 (worst case: BW1-9 = 4,000 AFY, BW10-13 = 6,000 AFY) and Baseline Scenario (BW1-9 = 10,000 AFY).

JOHN SHOMAKER & ASSOCIATES, INC.

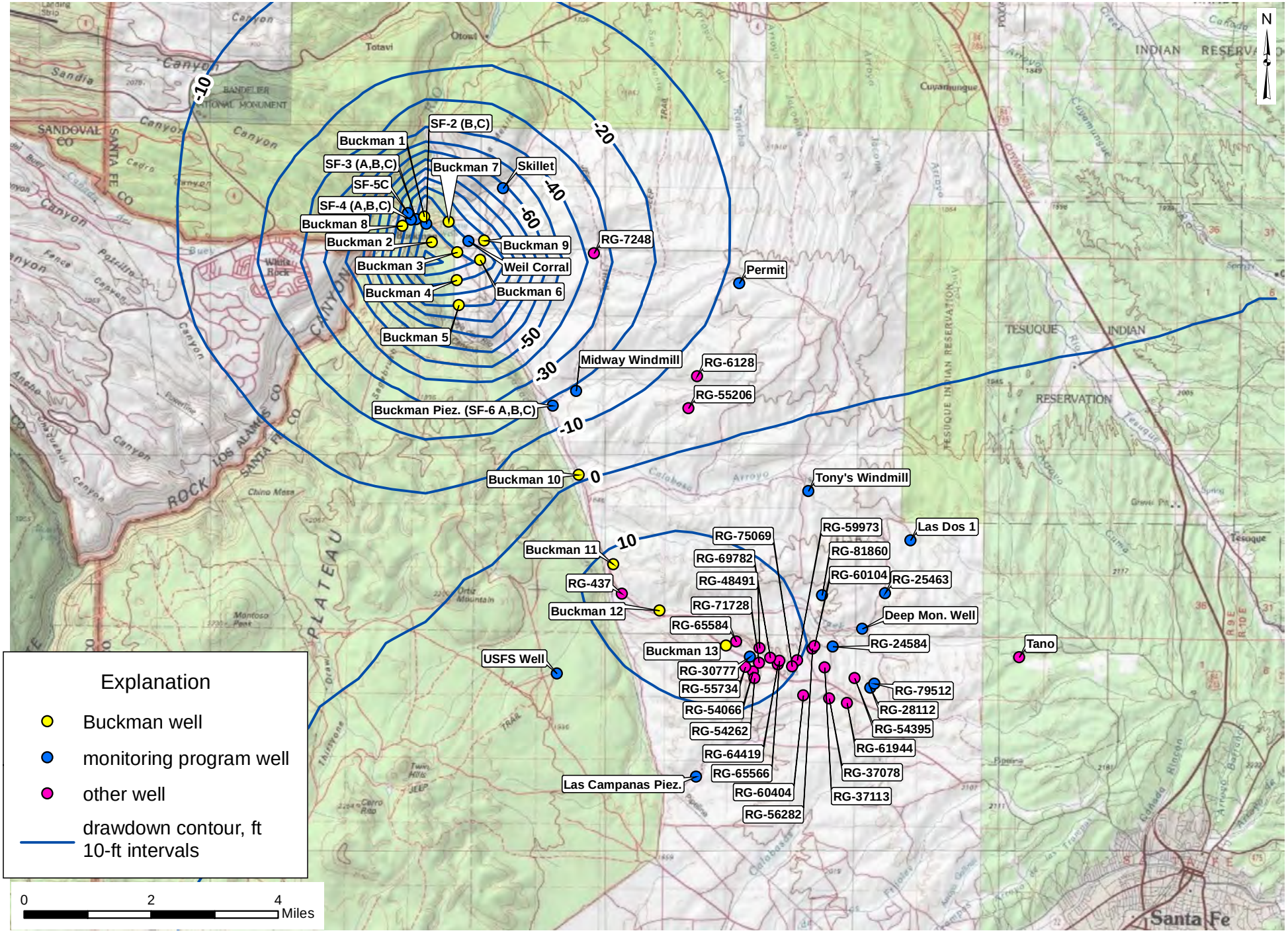


Figure 13. Map showing difference in NMOSE groundwater-flow model-simulated 40-year drawdown, in feet, for model Layer 2, between future pumping Scenario 2 (forecast scenario BW1-9 = 4,000 AFY, BW10-13 = 1,950 AFY) and Baseline Scenario (BW1-9 = 10,000 AFY).

APPENDICES

Appendix A.

Graphs showing Buckman Well Field diversions, water levels in Buckman Monitoring Program wells, model-simulated historical drawdowns, and projected drawdowns at selected wells due to pumping at the full permitted diversion amounts (Scenario 1)

APPENDIX A. ILLUSTRATIONS

Figure A1. Monthly diversions from Buckman Wells 1 through 13, 1981 through 2015.

Figure A2. Water levels and monthly diversions from Buckman Well 1 (RG-20516-S-5), 1981 through 2015.

Figure A3. Water levels and monthly diversions from Buckman Well 2 (RG-20516-S-6), 1981 through 2015.

Figure A4. Water levels and monthly diversions from Buckman Well 3 (RG-20516-S), 1981 through 2015.

Figure A5. Water levels and monthly diversions from Buckman Well 4 (RG-20516-S-2), 1981 through 2015.

Figure A6. Water levels and monthly diversions from Buckman Well 5 (RG-20516-S-3), 1981 through 2015.

Figure A7. Water levels and monthly diversions from Buckman Well 6 (RG-20516-S-4), 1981 through 2015.

Figure A8. Water levels and monthly diversions from Buckman Well 7 (RG-20516-S-7), 1981 through 2015.

Figure A9. Water levels and monthly diversions from Buckman Well 8 (RG-20516-S-8), 1981 through 2015.

Figure A10. Water levels and monthly diversions from Buckman Well 9 (RG-20516-S-9), 2003 through 2015.

Figure A11. Water levels and monthly diversions from Buckman Well 10 (RG-20516-S-10), 2003 through 2015.

Figure A12. Water levels and monthly diversions from Buckman Well 11 (RG-20516-S-11), 2003 through 2015.

Figure A13. Water levels and monthly diversions from Buckman Well 12 (RG-20516-S-12), 2003 through 2015.

Figure A14. Water levels and monthly diversions from Buckman Well 13 (RG-20516-S-13), 2003 through 2015.

Figure A15. Water levels in U.S. Geological Survey Buckman shallow, middle, and deep piezometers (SF-6 C, B, and A, respectively), and monthly diversions from Buckman Wells 10 through 13, 2003 through 2015.

Figure A16. Water levels in U.S. Geological Survey Las Campanas shallow, middle and deep piezometers (C, B, and A, respectively), and monthly diversions from Buckman Wells 10 through 13, 2003 through 2015.

Figure A17. Water levels in U.S. Geological Survey SF-2 shallow and middle piezometers (SF-2 C and B, respectively), and monthly diversions from Buckman Wells 1 through 13, 1981 through 2015.

Figure A18. Water levels in U.S. Geological Survey SF-3 shallow, middle and deep piezometers (SF-3 C, B and A, respectively), and monthly diversions from Buckman Wells 1 through 13, 1981 through 2015.

Figure A19. Water levels in U.S. Geological Survey SF-4 shallow, middle and deep piezometers (SF-4 C, B and A, respectively), and monthly diversions from Buckman Wells 1 through 13, 1981 through 2015.

Figure A20. Water levels in U.S. Geological Survey SF-5 shallow piezometer (SF-5 C), and monthly diversions from Buckman Wells 1 through 13, 1981 through 2015.

Figure A21. Water levels in Midway Windmill Well (RG-438) and monthly diversions from Buckman Wells 10 through 13, 2003 through 2015.

Figure A22. Water levels in Midway Windmill Well (RG-438) and model-simulated drawdown with future pumping Scenario 1 (full permitted diversion amounts).

Figure A23. Water levels in Tony Windmill Well (RG-6386) and monthly diversions from Buckman Wells 10 through 13, 2003 through 2015.

Figure A24. Water levels in Tony's Windmill well (RG-6386) and model-simulated drawdown with future pumping Scenario 1 (full permitted diversion amounts).

Figure A25. Water levels in well RG-25463 and monthly diversions from Buckman Wells 10 through 13, 2003 through 2015.

Figure A26. Water levels in well RG-25463 and model-simulated drawdown with future pumping Scenario 1 (full permitted diversion amounts).

Figure A27. Water levels in well RG-30777 and monthly diversions from Buckman Wells 10 through 13, 2003 through 2015.

Figure A28. Water levels in well RG-30777 and model-simulated drawdown with future pumping Scenario 1 (full permitted diversion amounts).

Figure A29. Water levels in well RG-28112 and monthly diversions from Buckman Wells 10 through 13, 2003 through 2015.

Figure A30. Water levels in well RG-28112 and model-simulated drawdown with future pumping Scenario 1 (full permitted diversion amounts).

Figure A31. Water levels in well RG-79509 and monthly diversions from Buckman Wells 10 through 13, 2003 through 2015.

Figure A32. Water levels in well RG-79509 and model-simulated drawdown with future pumping Scenario 1 (full permitted diversion amounts).

Figure A33. Water levels in La Tierra deep monitoring well RG-93871 and monthly diversions from Buckman Wells 10 through 13, 2003 through 2015.

Figure A34. Water levels in well RG-81860 and monthly diversions from Buckman Wells 10 through 13, 2003 through 2015.

Figure A35. Water levels in well RG-81860 and model-simulated drawdown with future pumping Scenario 1 (full permitted diversion amounts).

Figure A36. Water levels in U.S. Forest Service Well (RG-29723) and monthly diversions from Buckman Wells 10 through 13, 2003 through 2015.

Figure A37. Water levels in U.S. Forest Service well (RG-29723) and model-simulated drawdown with future pumping Scenario 1 (full permitted diversion amounts).

Figure A38. Water levels in Permit Well (RG-16681) and monthly diversions from Buckman Wells 10 through 13, 2003 through 2015.

Figure A39. Water levels in Permit Well (RG-16681) and model-simulated drawdown with future pumping Scenario 1 (full permitted diversion amounts).

Figure A40. Water levels in Skillet Well (RG-21318) and monthly diversions from Buckman Wells 10 through 13, 1981 through 2015.

Figure A41. Water levels in Skillet Well (RG-21318) and model-simulated drawdown with future pumping Scenario 1 (full permitted diversion amounts).

Figure A42. Water levels in Weil Corral Well (RG-439) and monthly diversions from Buckman Wells 10 through 13, 1981 through 2015.

Figure A43. Water levels in Weil Corral Well (RG-439) and model-simulated drawdown with future pumping Scenario 1 (full permitted diversion amounts).

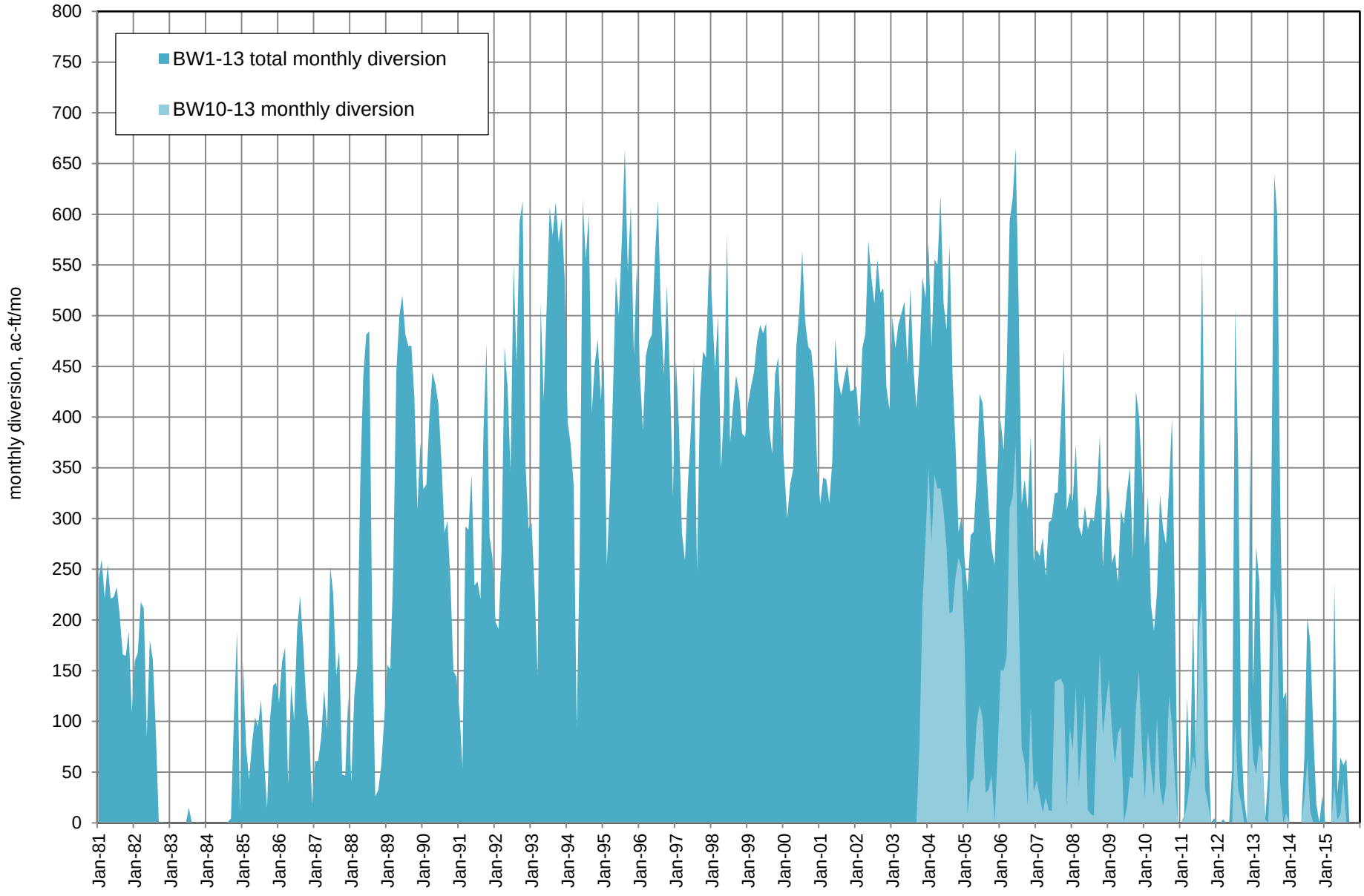


Figure A1. Monthly diversions from Buckman Wells 1 through 13, 1981 through 2015.

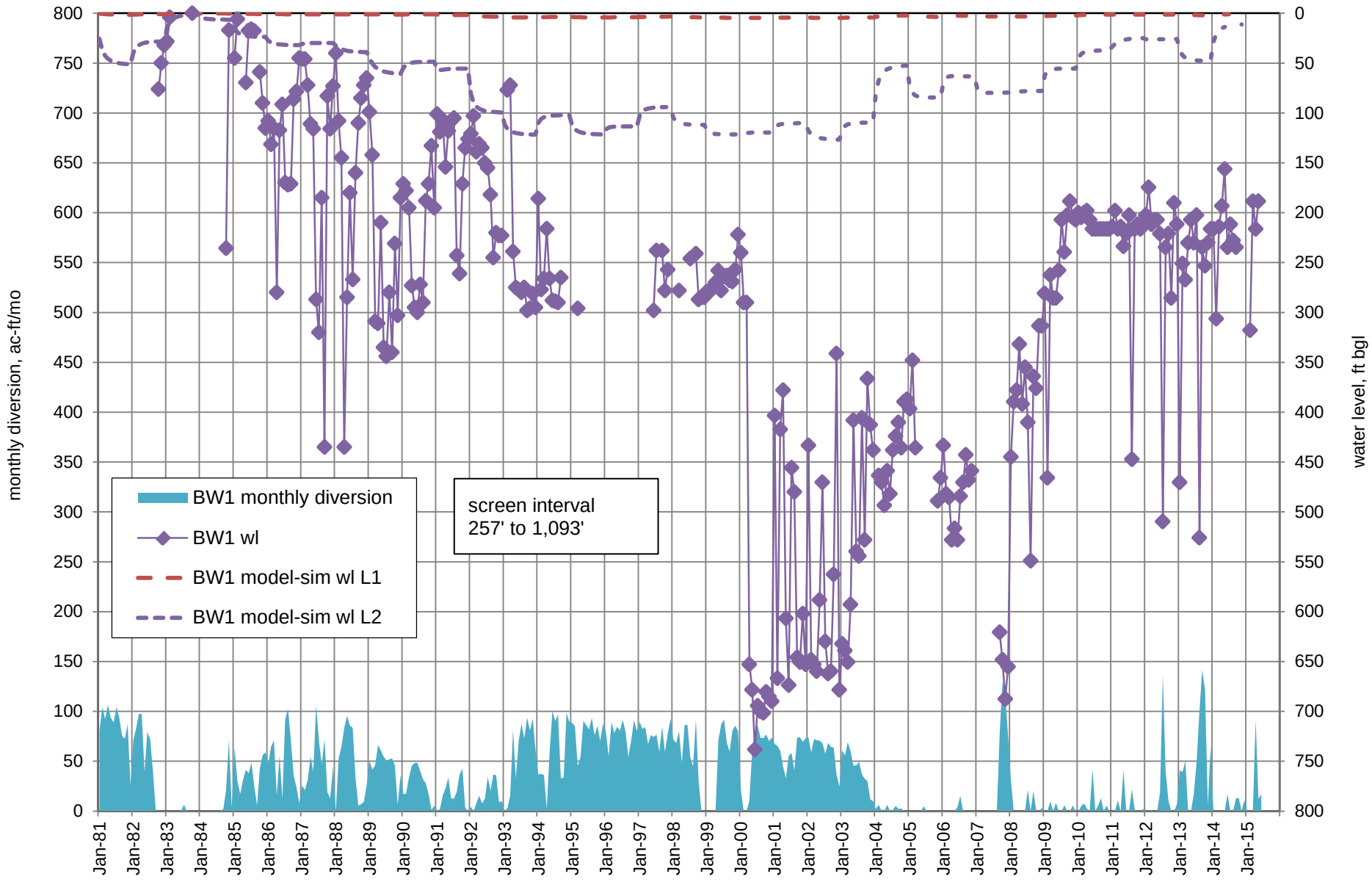


Figure A2. Water levels and monthly diversions from Buckman Well 1 (RG-20516-S-5), 1981 through 2015.

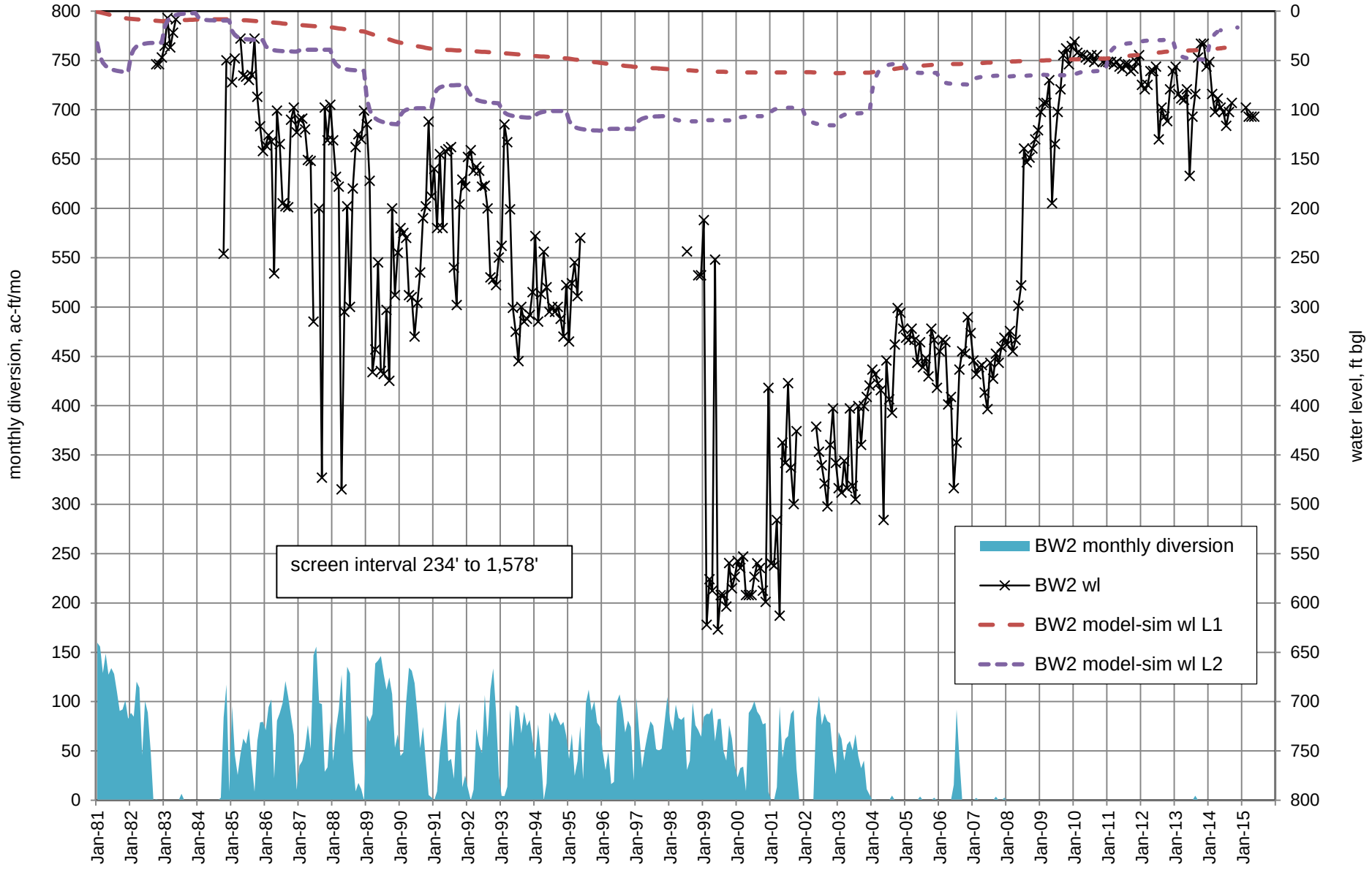


Figure A3. Water levels and monthly diversions from Buckman Well 2 (RG-20516-S-6), 1981 through 2015.

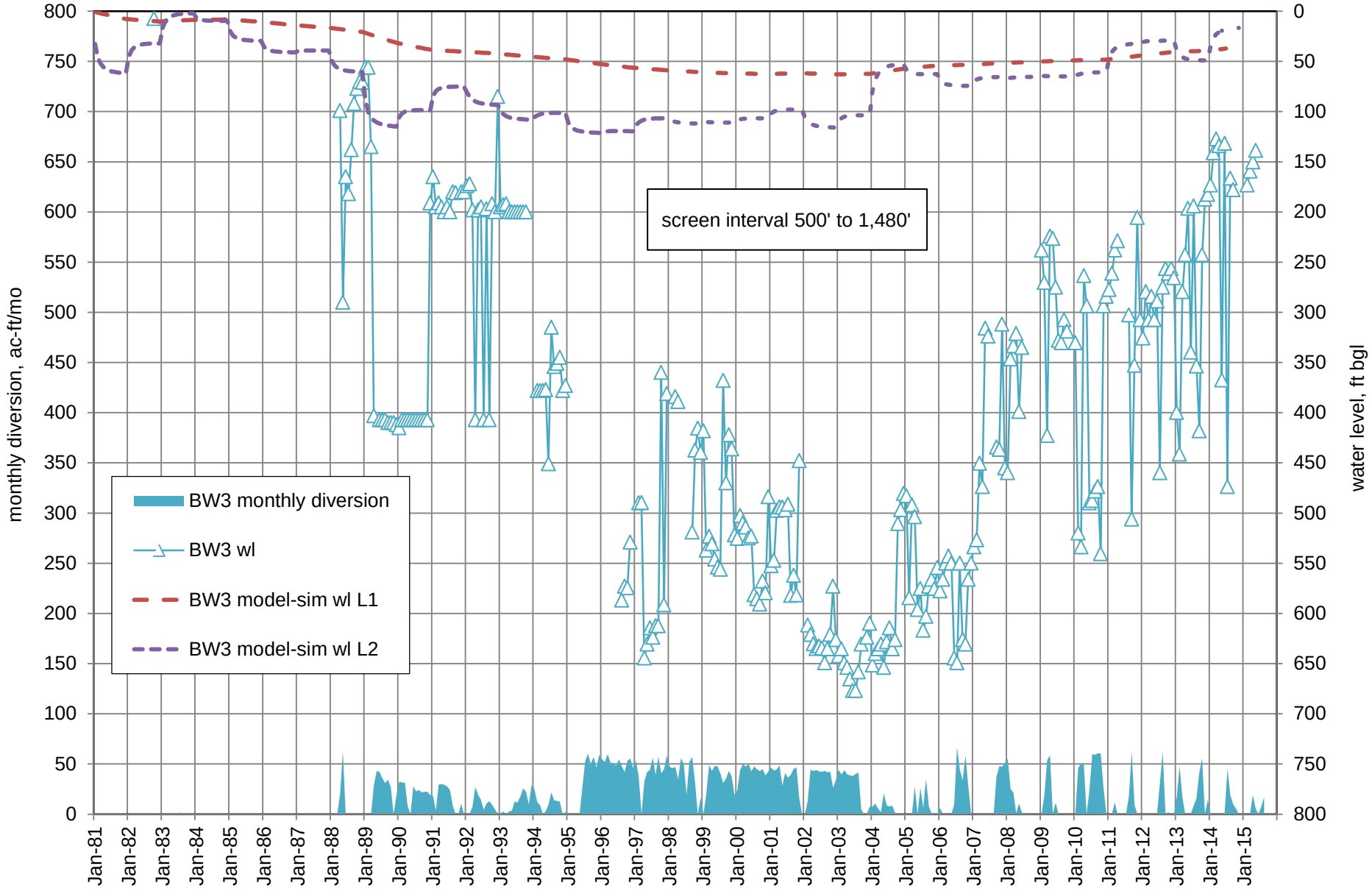


Figure A4. Water levels and monthly diversions from Buckman Well 3a (RG-20516-S), 1981 through 2015.

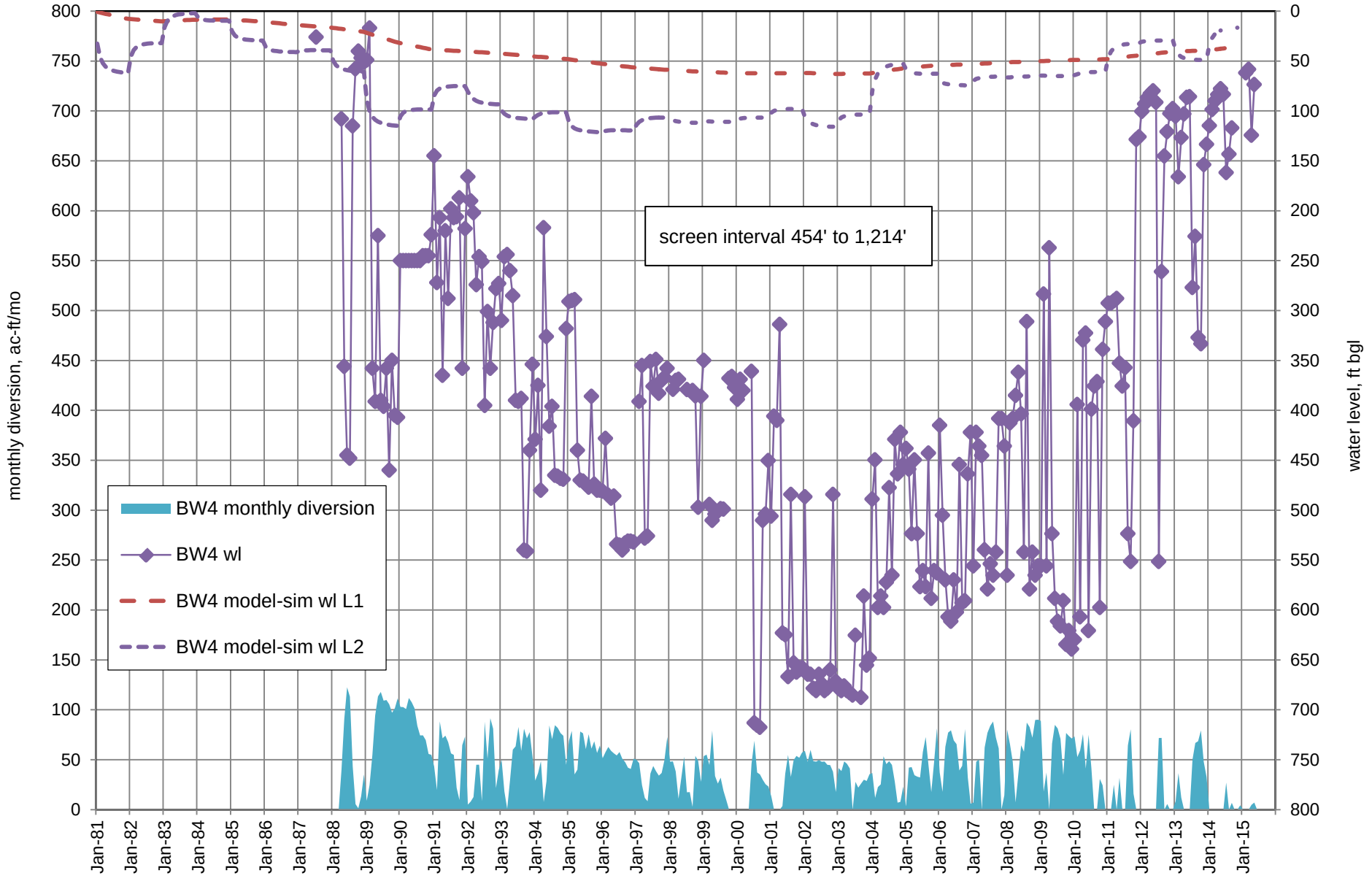


Figure A5. Water levels and monthly diversions from Buckman Well 4 (RG-20516-S-2), 1981 through 2015.

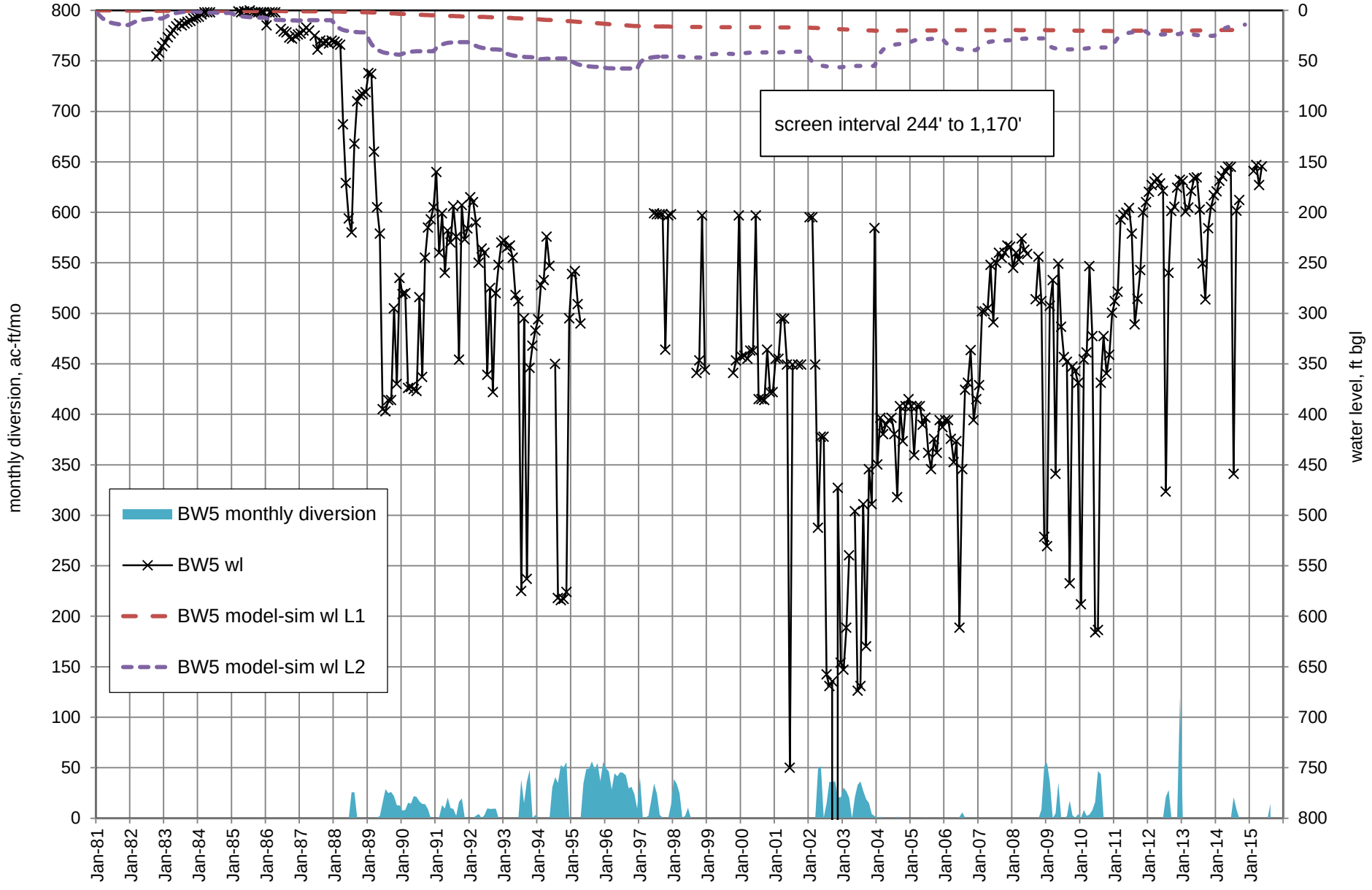


Figure A6. Water levels and monthly diversions from Buckman Well 5 (RG-20516-S-3), 1981 through 2015.

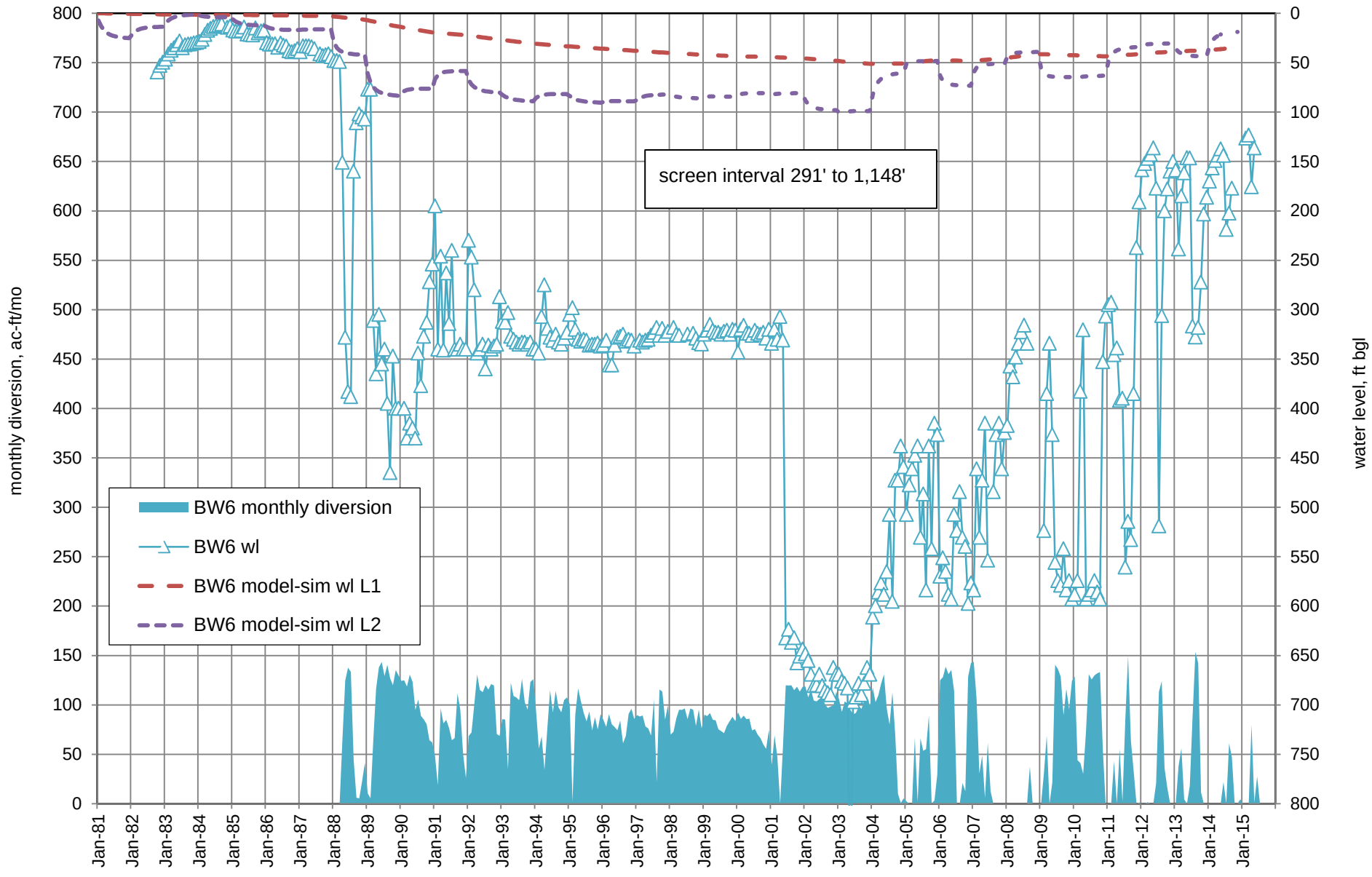


Figure A7. Water levels and monthly diversions from Buckman Well 6 (RG-20516-S-4), 1981 through 2015.

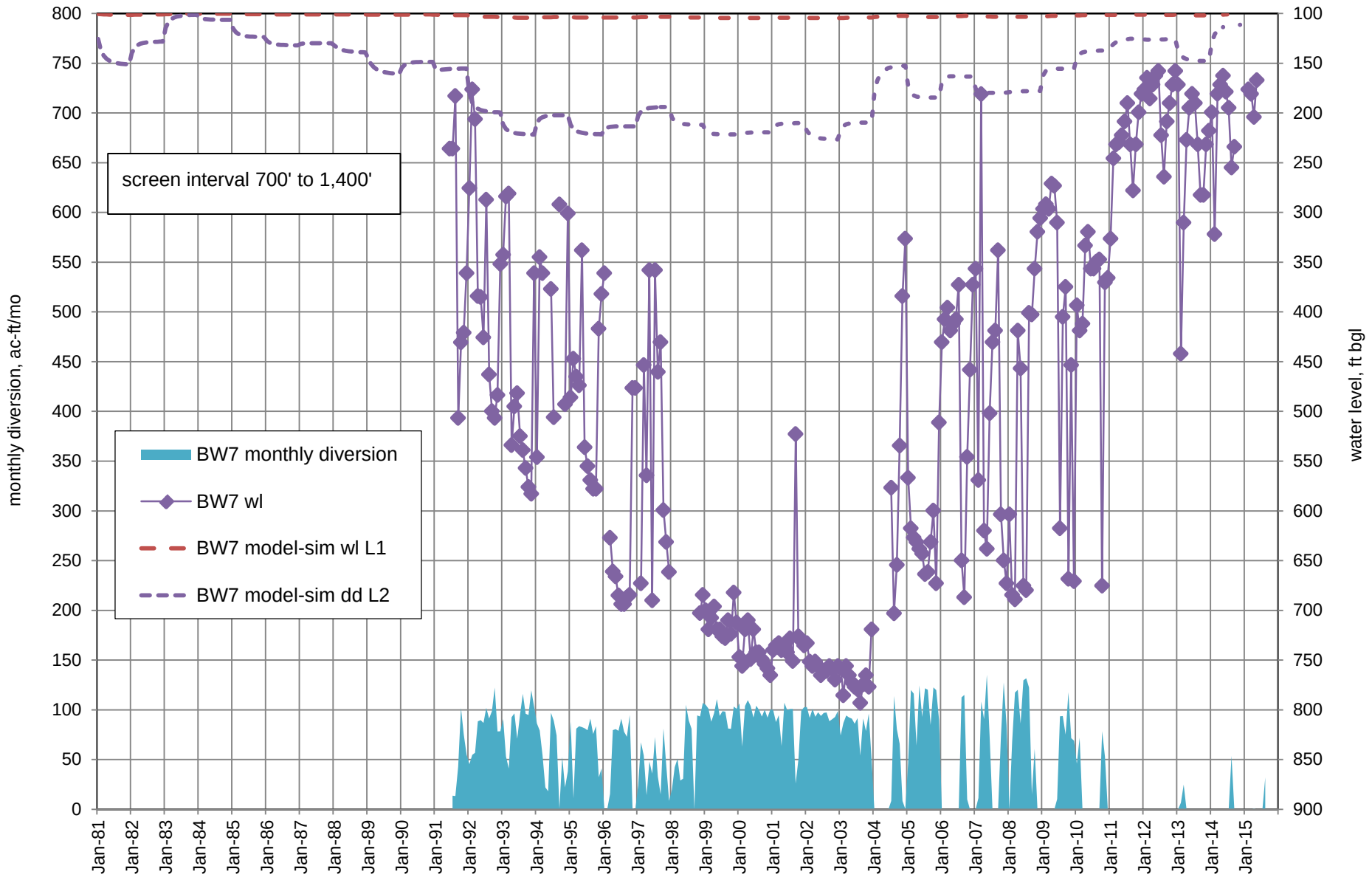


Figure A8. Water levels and monthly diversions from Buckman Well 7 (RG-20516-S-7), 1981 through 2015.

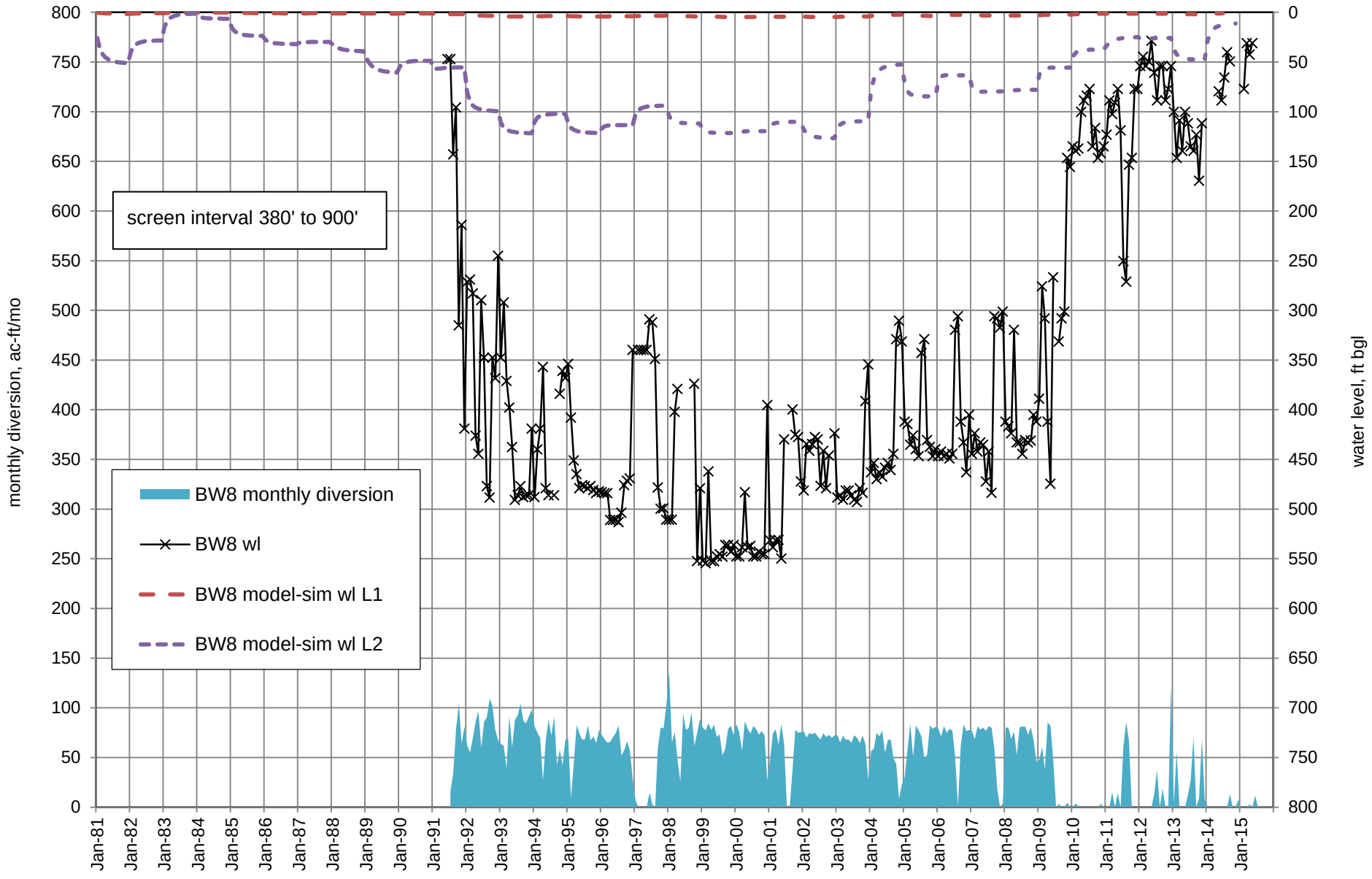


Figure A9. Water levels and monthly diversions from Buckman Well 8 (RG-20516-S-8), 1981 through 2015.

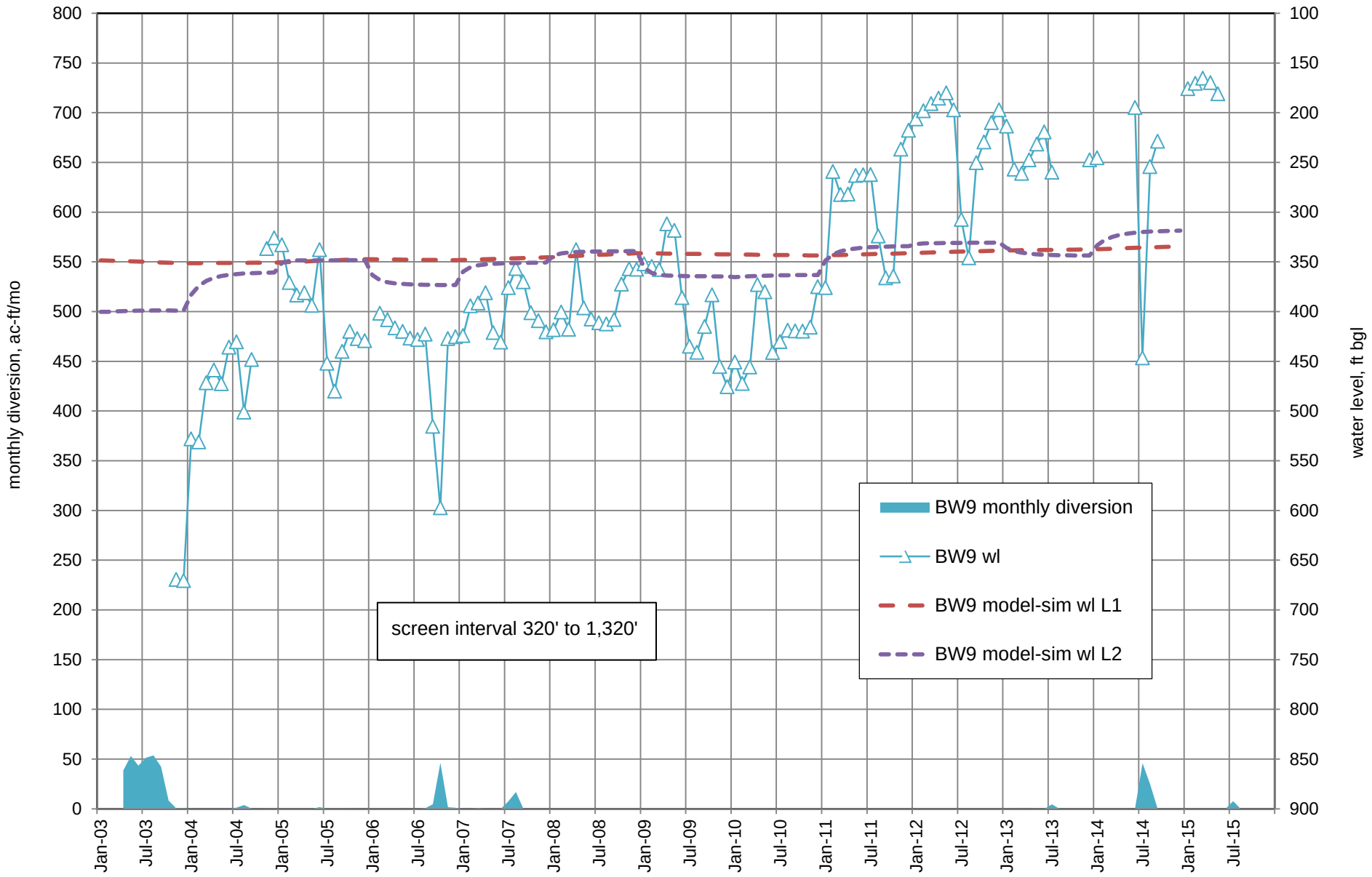


Figure A10. Water levels and monthly diversions from Buckman Well 9 (RG-20516-S-9), 2003 through 2015.

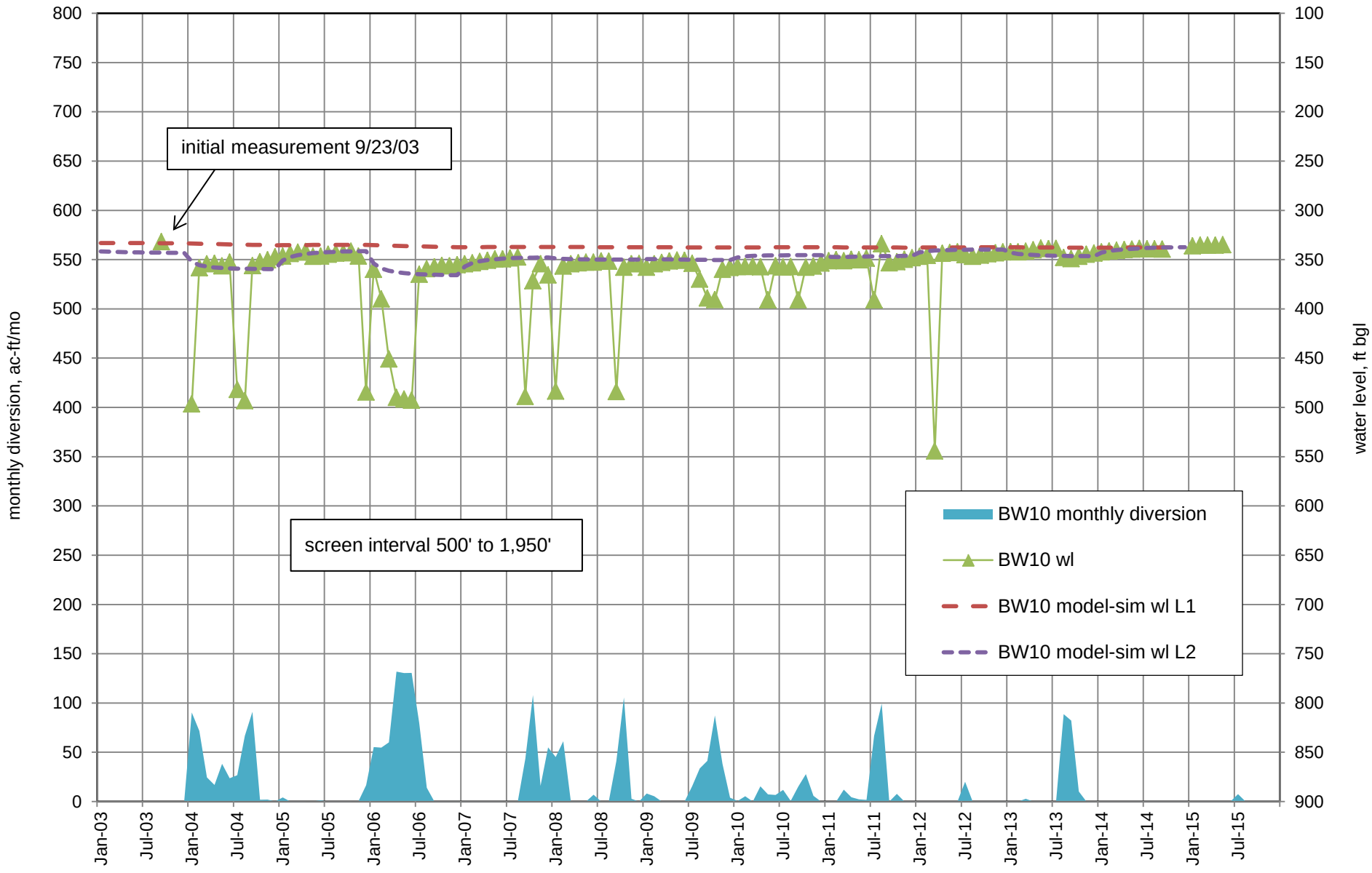


Figure A11. Water levels and monthly diversions from Buckman Well 10 (RG-20516-S-10), 2003 through 2015.

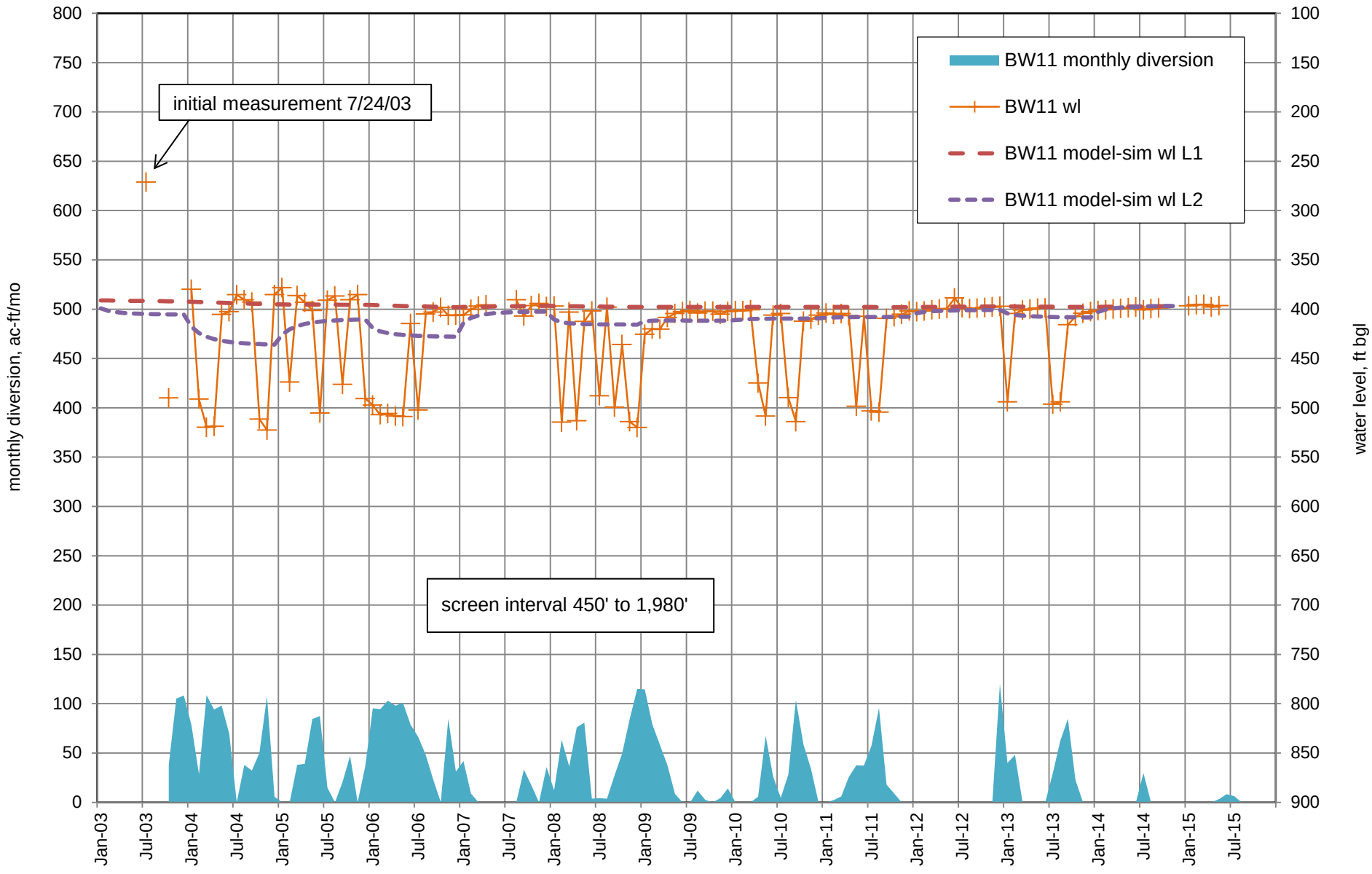


Figure A12. Water levels and monthly diversions from Buckman Well 11 (RG-20516-S-11), 2003 through 2015.

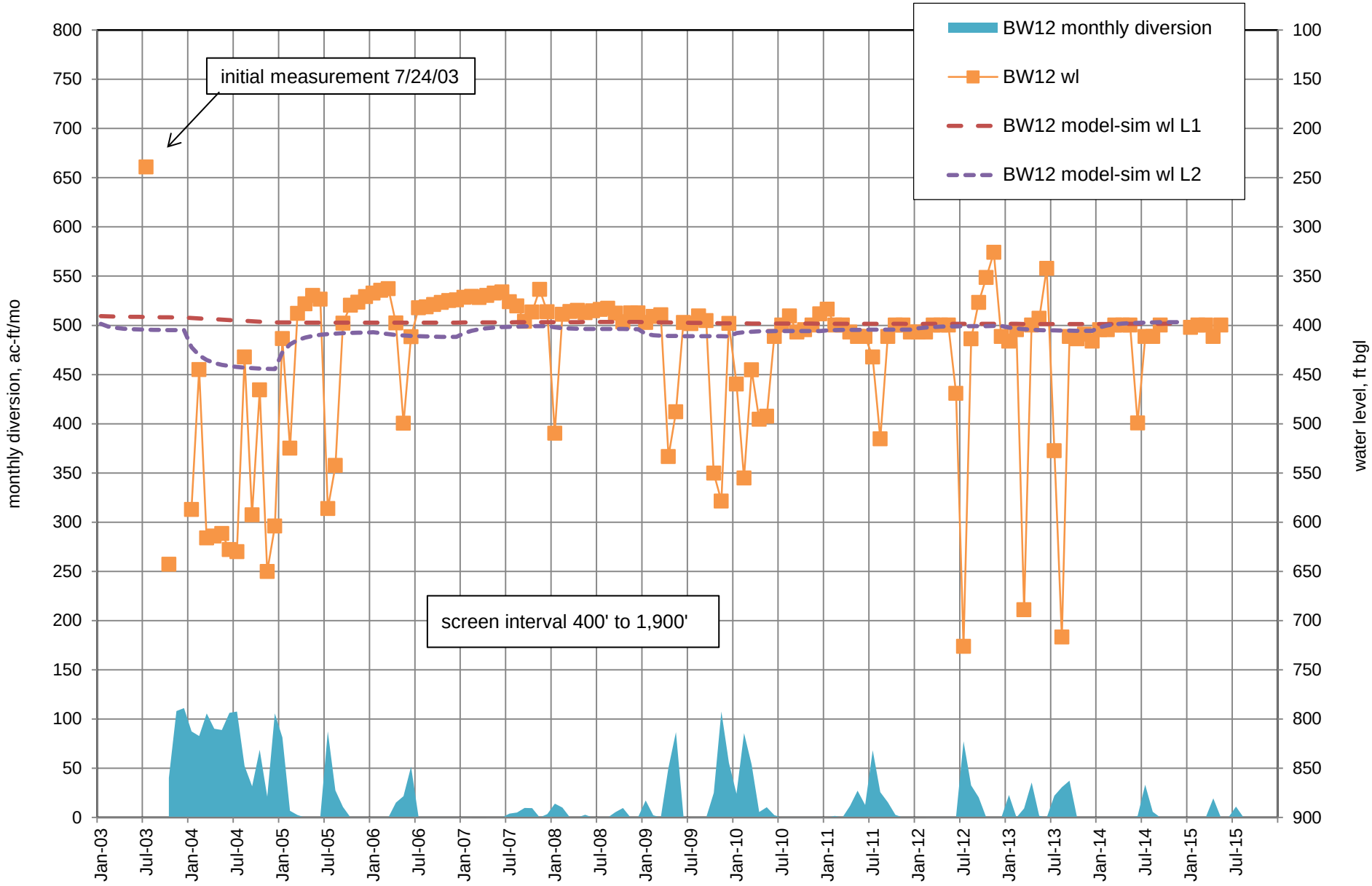


Figure A13. Water levels and monthly diversions from Buckman Well 12 (RG-20516-S-12), 2003 through 2015.

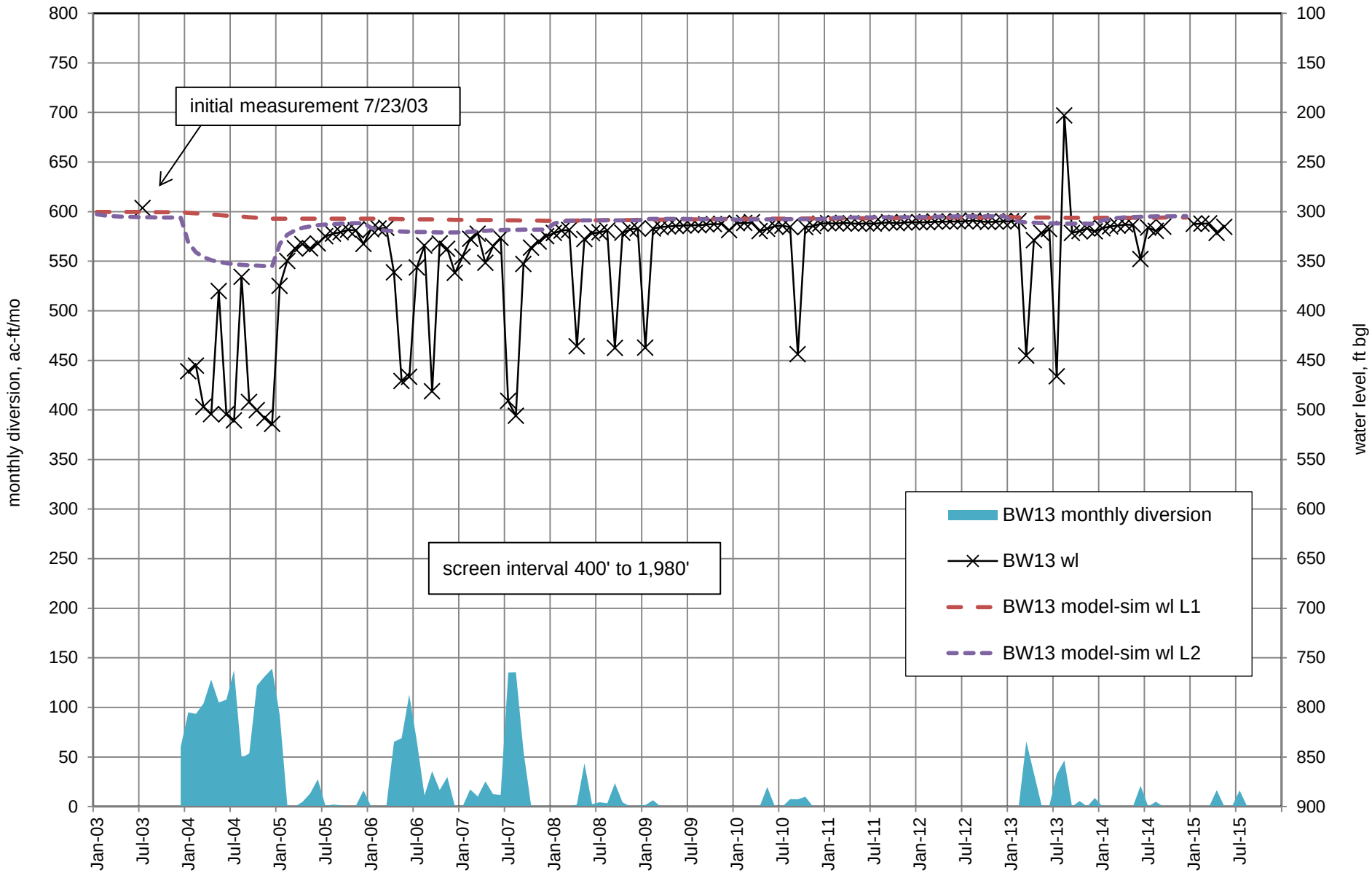


Figure A14. Water levels and monthly diversions from Buckman Well 13 (RG-20516-S-13), 2003 through 2015.

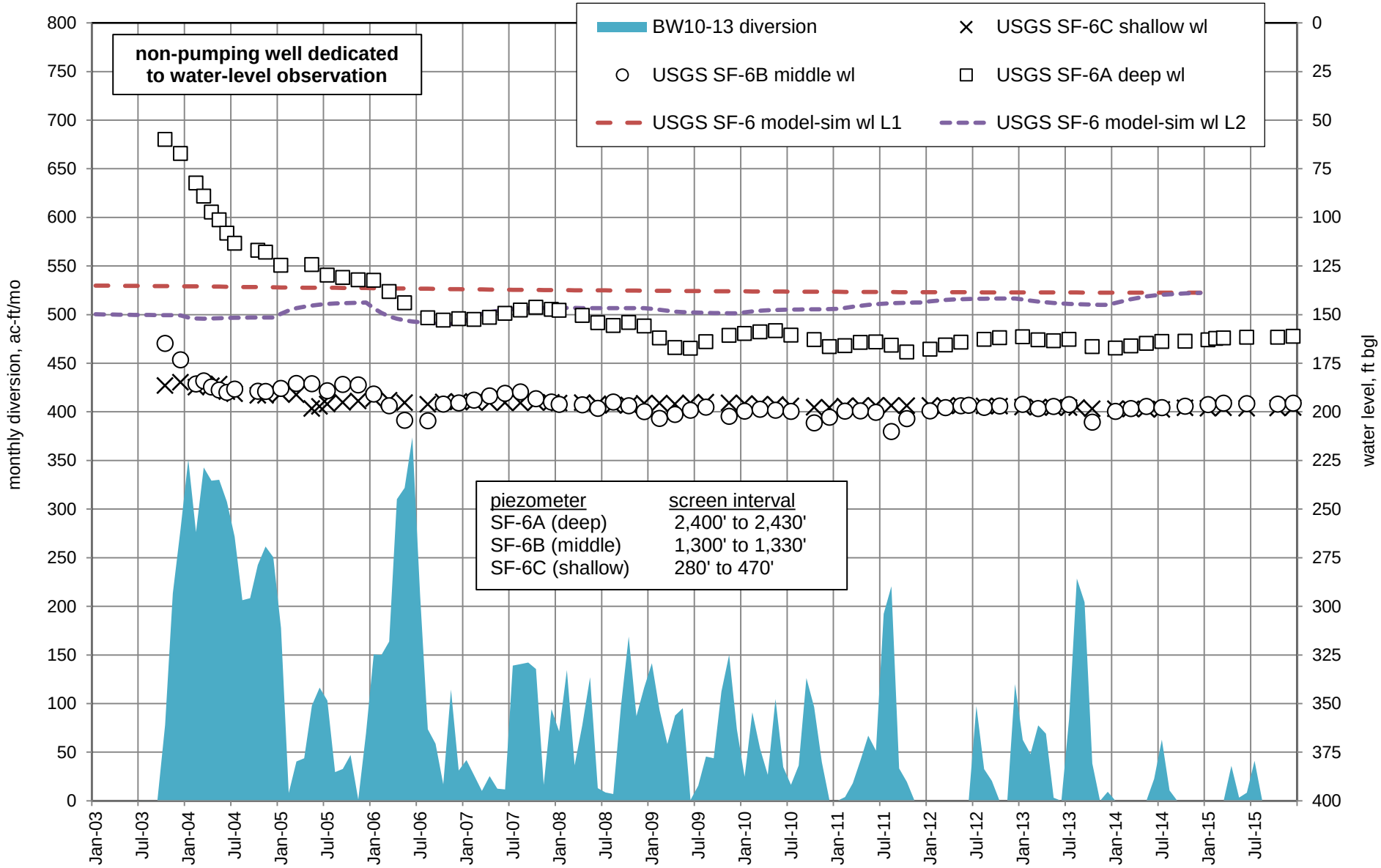


Figure A15. Water levels in U.S. Geological Survey Buckman shallow, middle, and deep piezometers (SF-6 C, B, and A, respectively), and monthly diversions from Buckman Wells 10 through 13, 2003 through 2015.

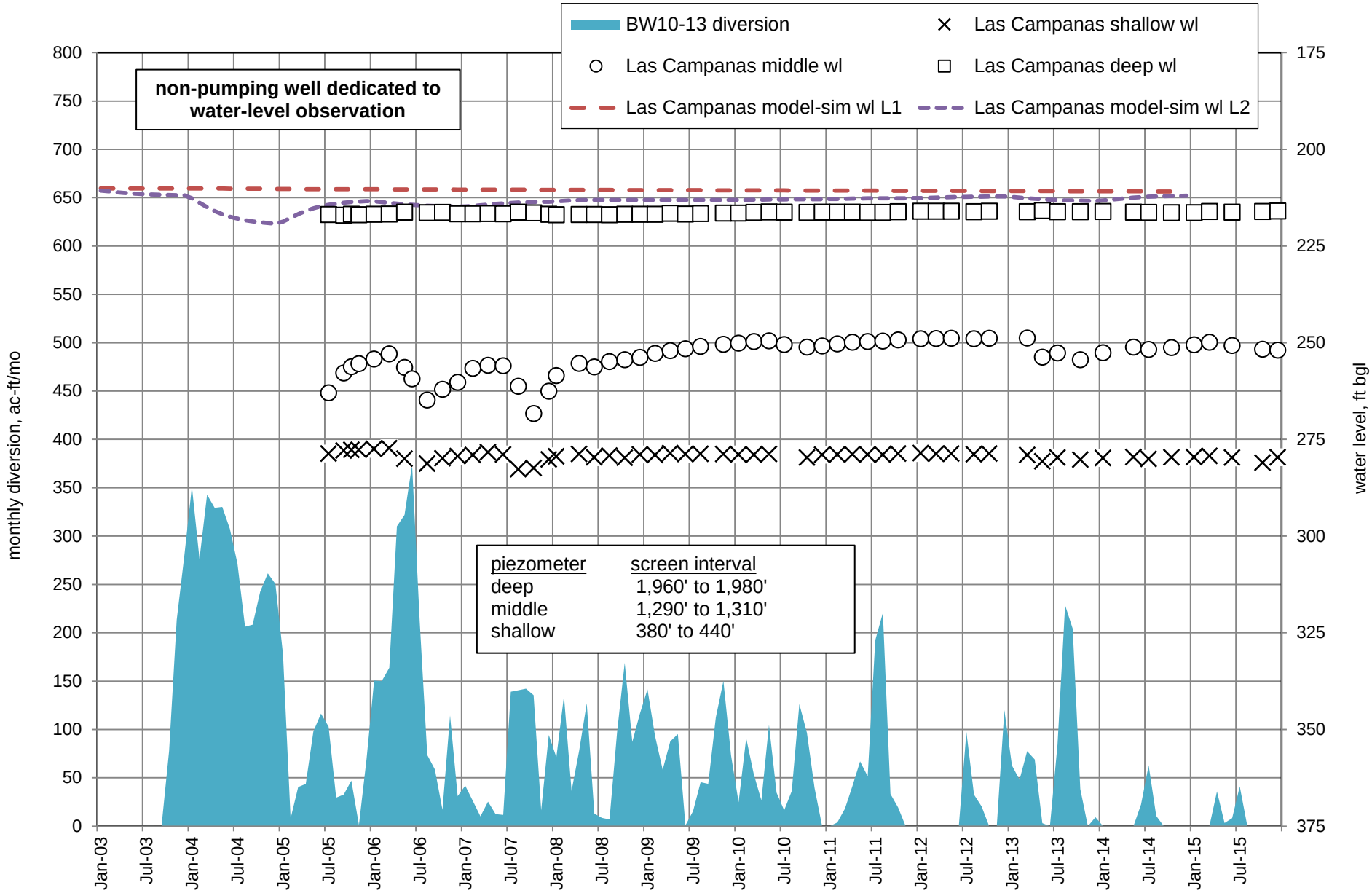


Figure A16. Water levels in U.S. Geological Survey Las Campanas shallow, middle and deep piezometers (C, B, and A, respectively), and monthly diversions from Buckman Wells 10 through 13, 2003 through 2015.

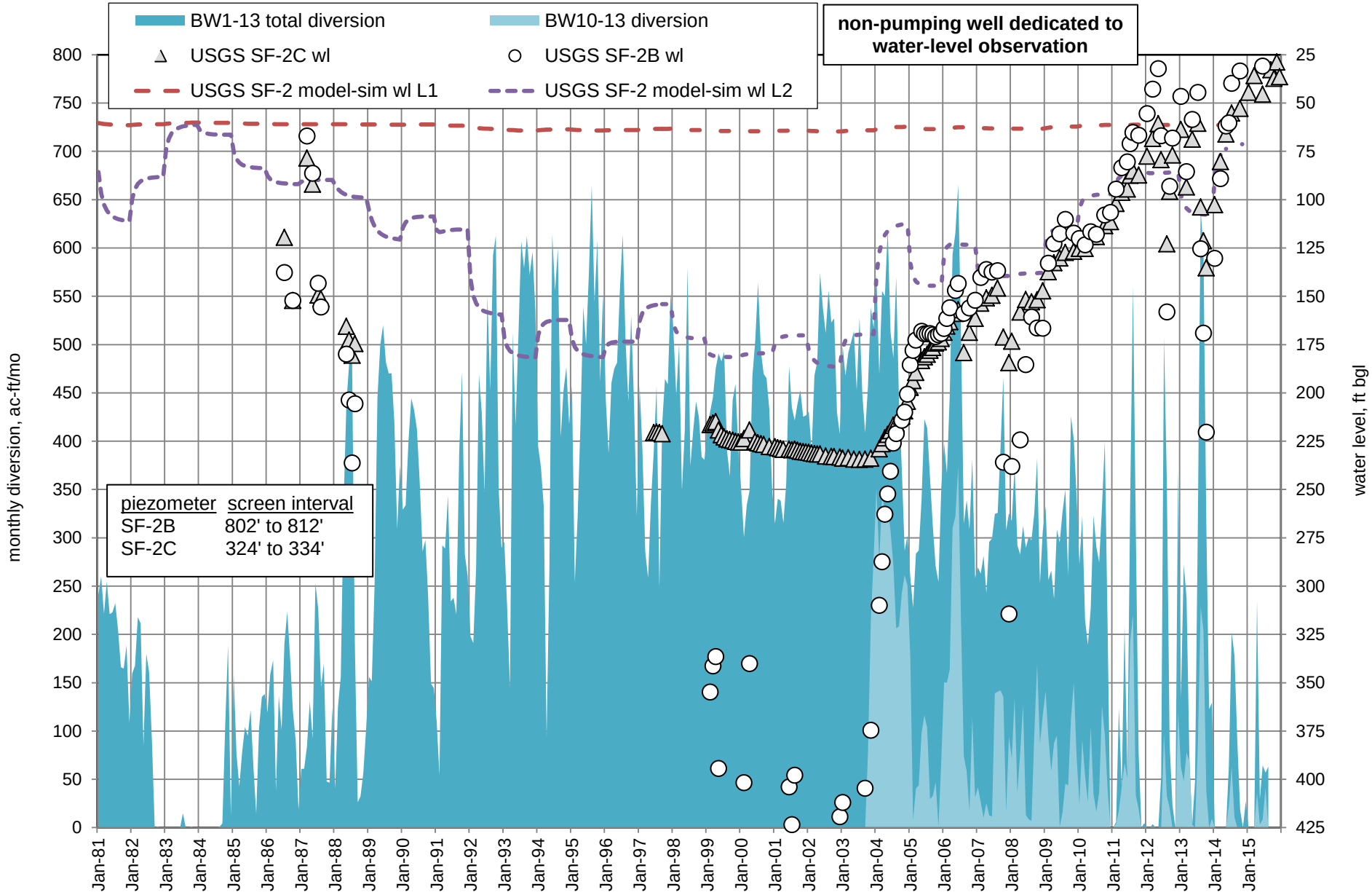


Figure A17. Water levels in U.S. Geological Survey SF-2 shallow and middle piezometers (SF-2 C and B, respectively), and monthly diversions from Buckman Wells 1 through 13, 1981 through 2015.

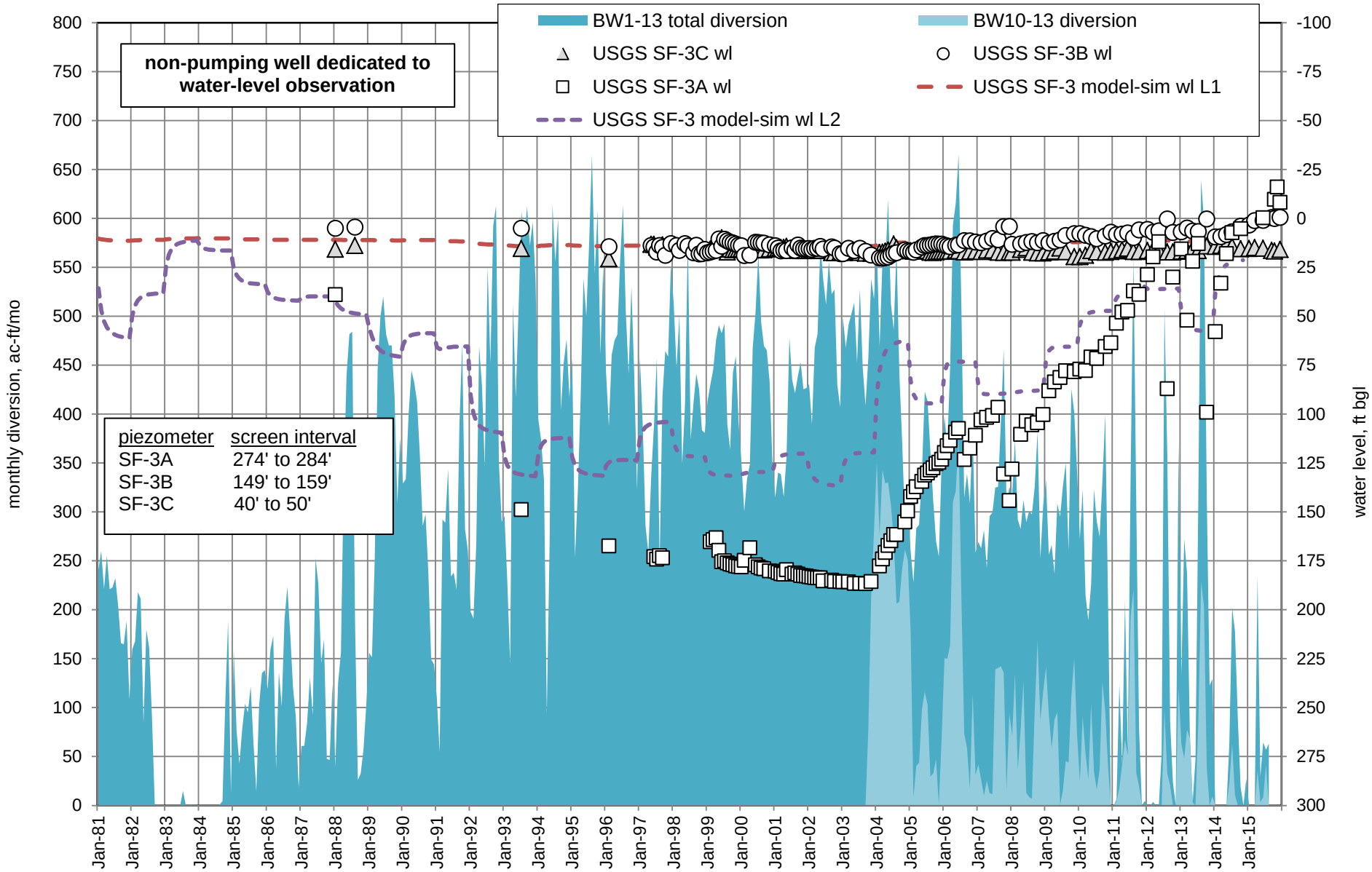


Figure A18. Water levels in U.S. Geological Survey SF-3 shallow, middle and deep piezometers (SF-3 C, B and A, respectively), and monthly diversions from Buckman Wells 1 through 13, 1981 through 2015.

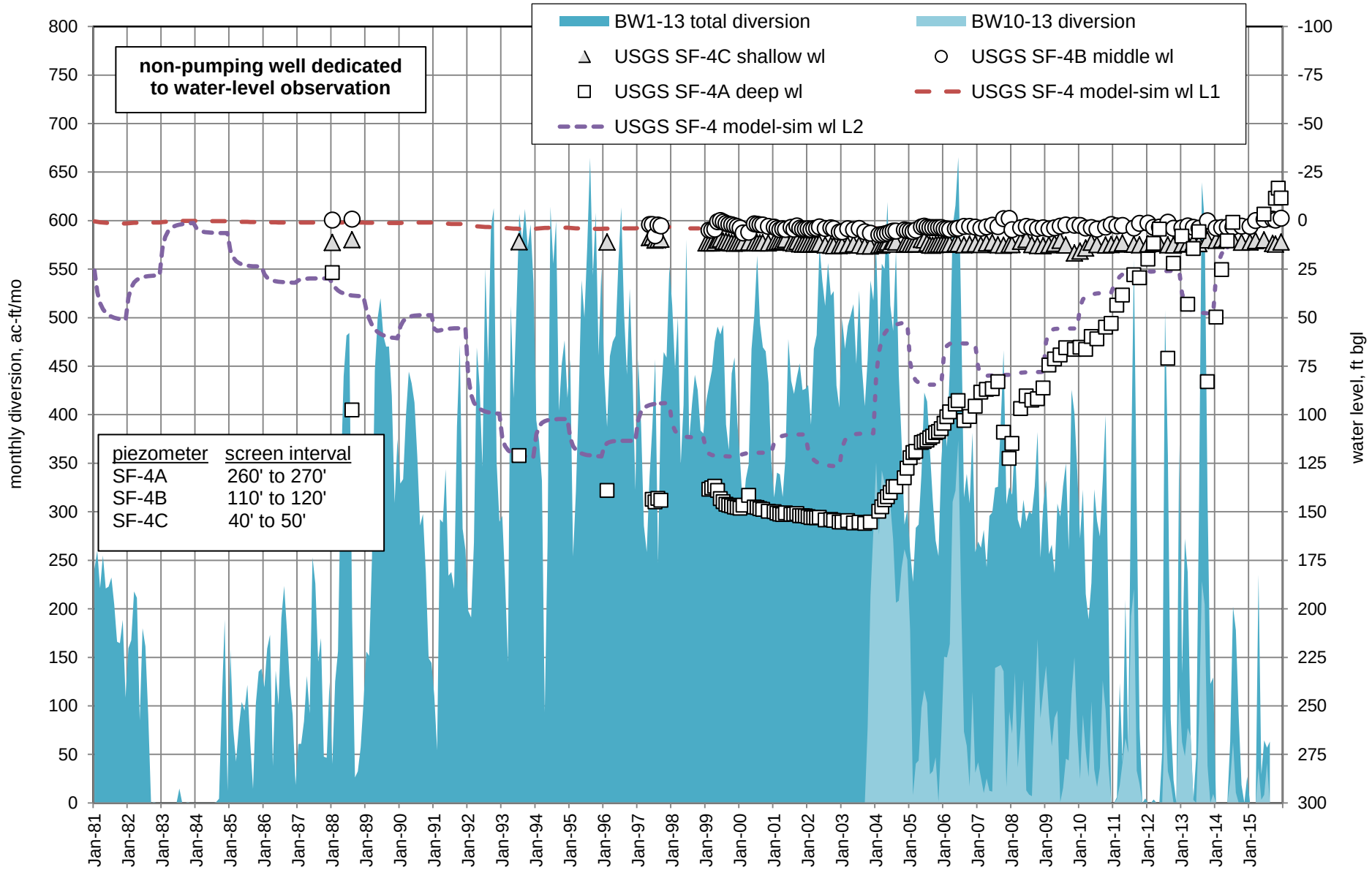


Figure A19. Water levels in U.S. Geological Survey SF-4 shallow, middle and deep piezometers (SF-4 C, B and A, respectively), and monthly diversions from Buckman Wells 1 through 13, 1981 through 2015.

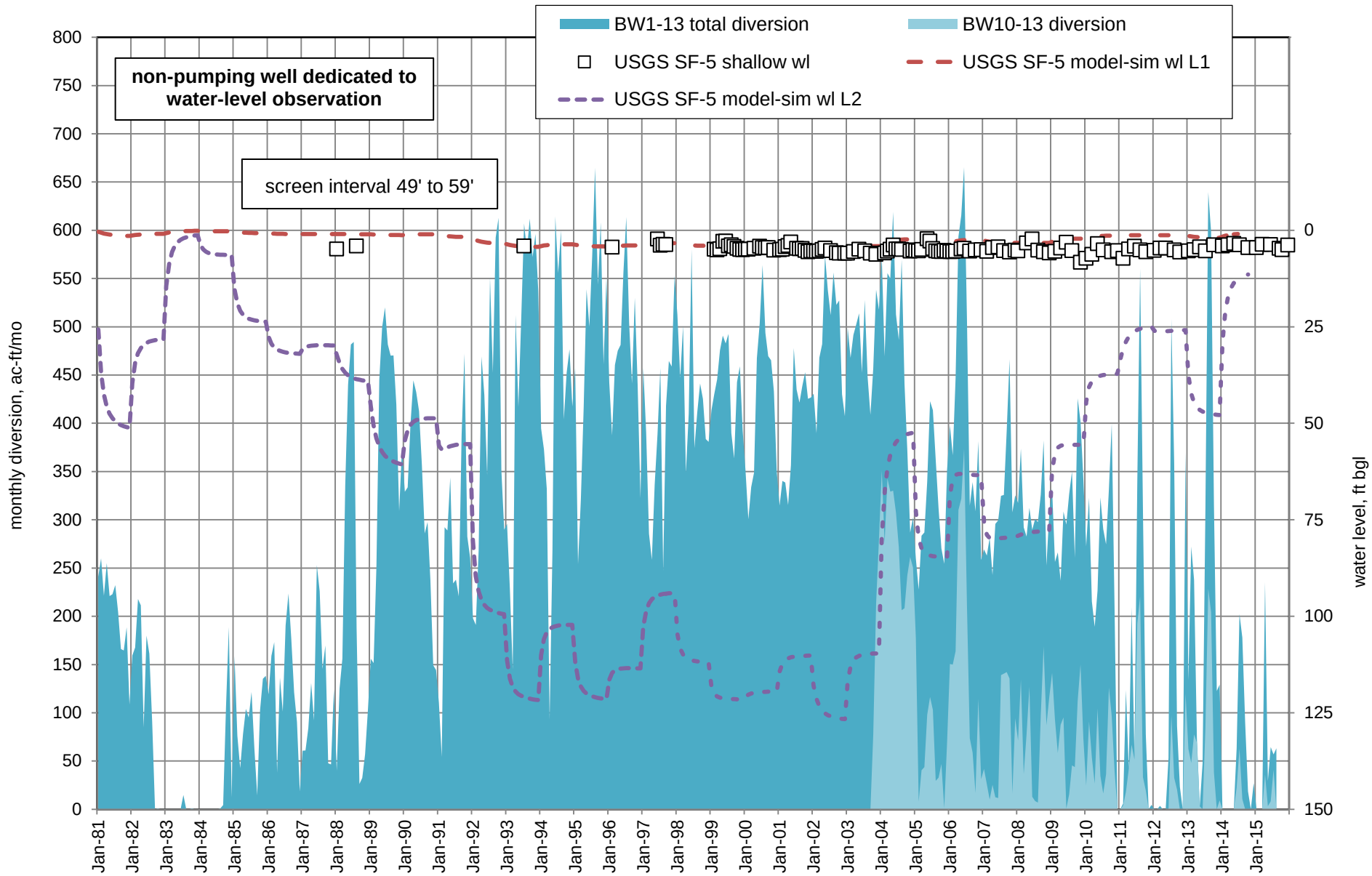


Figure A20. Water levels in U.S. Geological Survey SF-5 shallow piezometer (SF-5 C), and monthly diversions from Buckman Wells 1 through 13, 1981 through 2015.

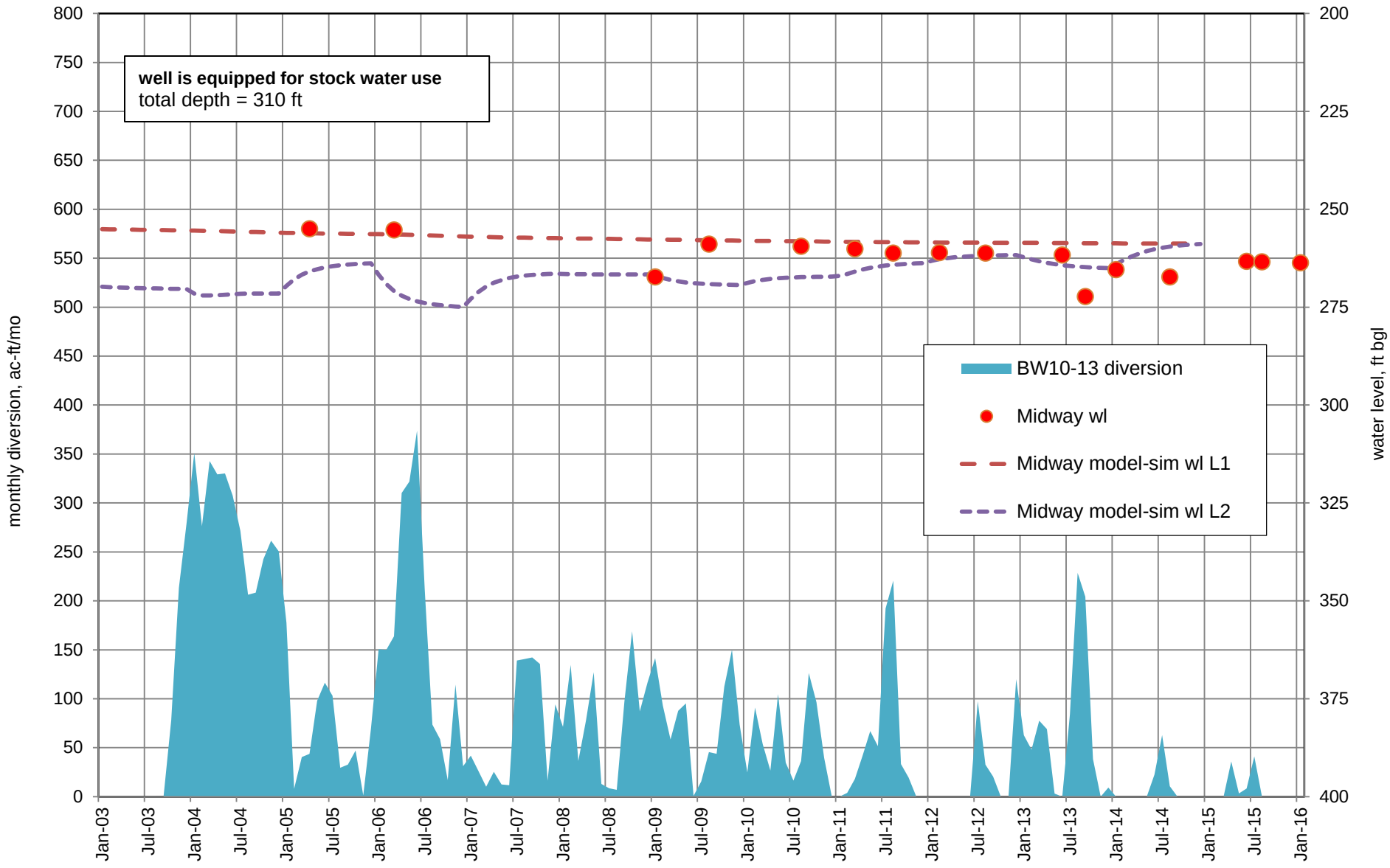


Figure A21. Water levels in Midway Windmill well (RG-438) and monthly diversions from Buckman Wells 10 through 13, 2003 through 2015.

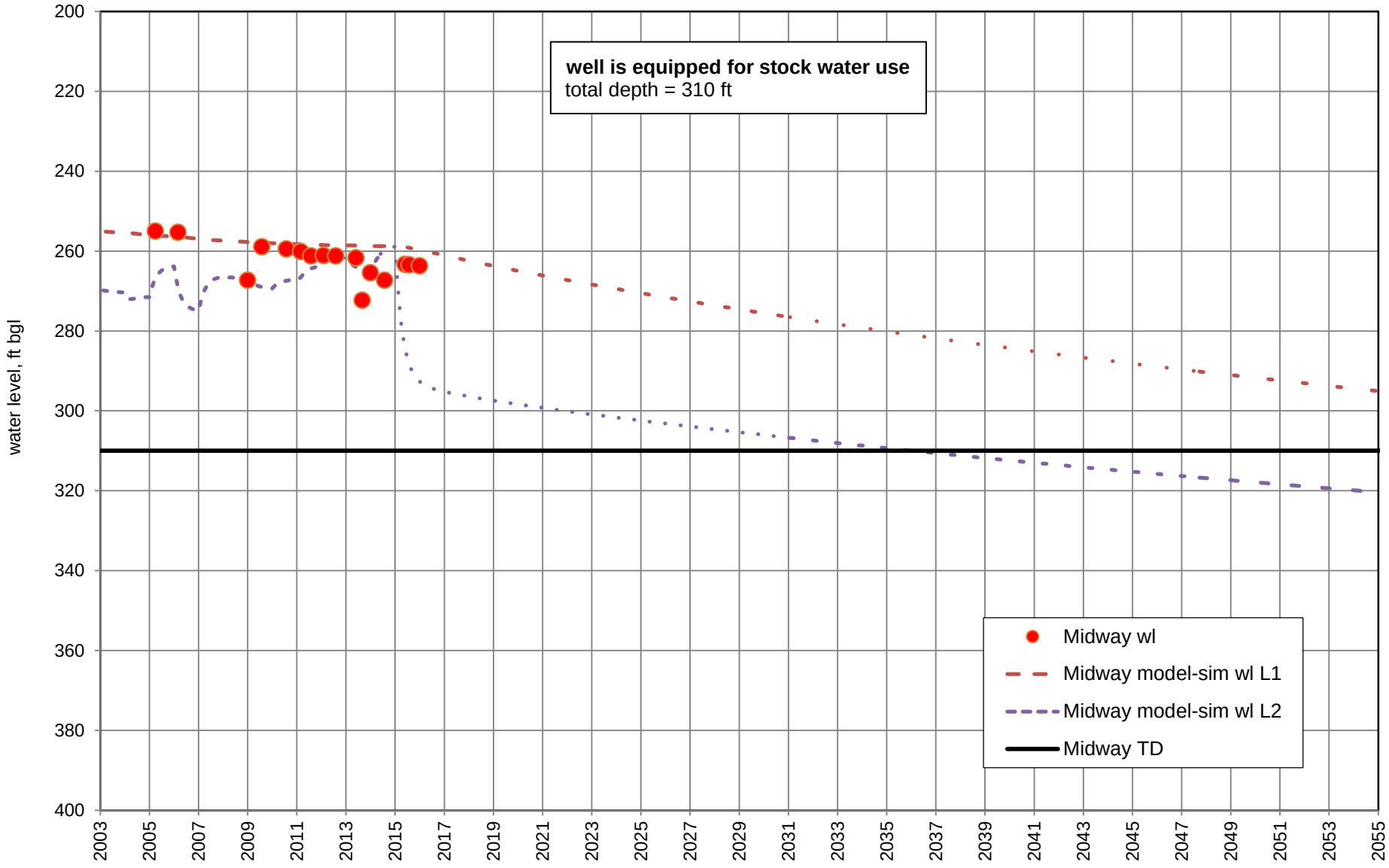


Figure A22. Water levels in Midway Windmill well (RG-438) and model-simulated drawdown with future pumping Scenario 1 (full permitted diversion amounts).

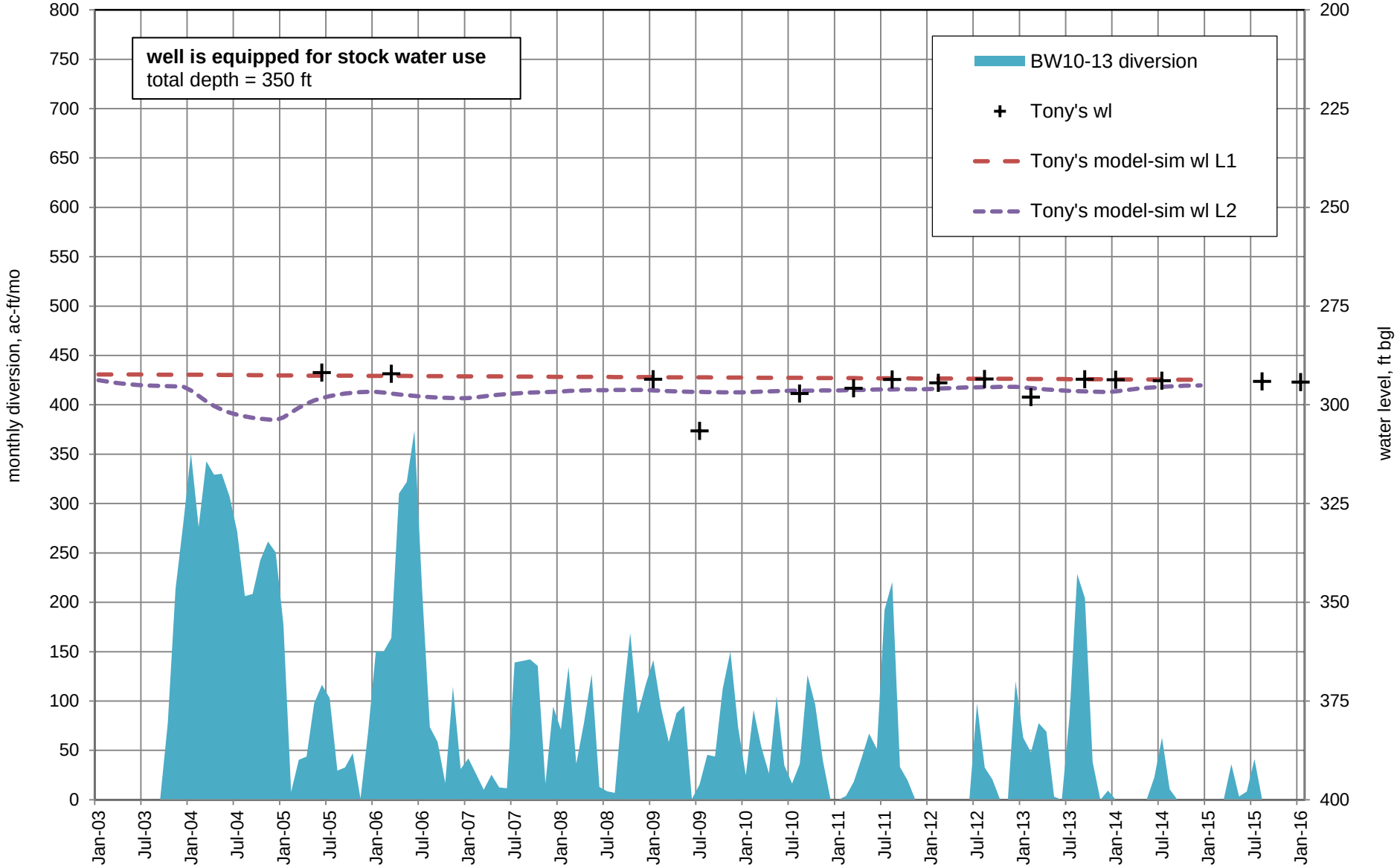


Figure A23. Water levels in Tony Windmill well (RG-6386) and monthly diversions from Buckman Wells 10 through 13, 2003 through 2015.

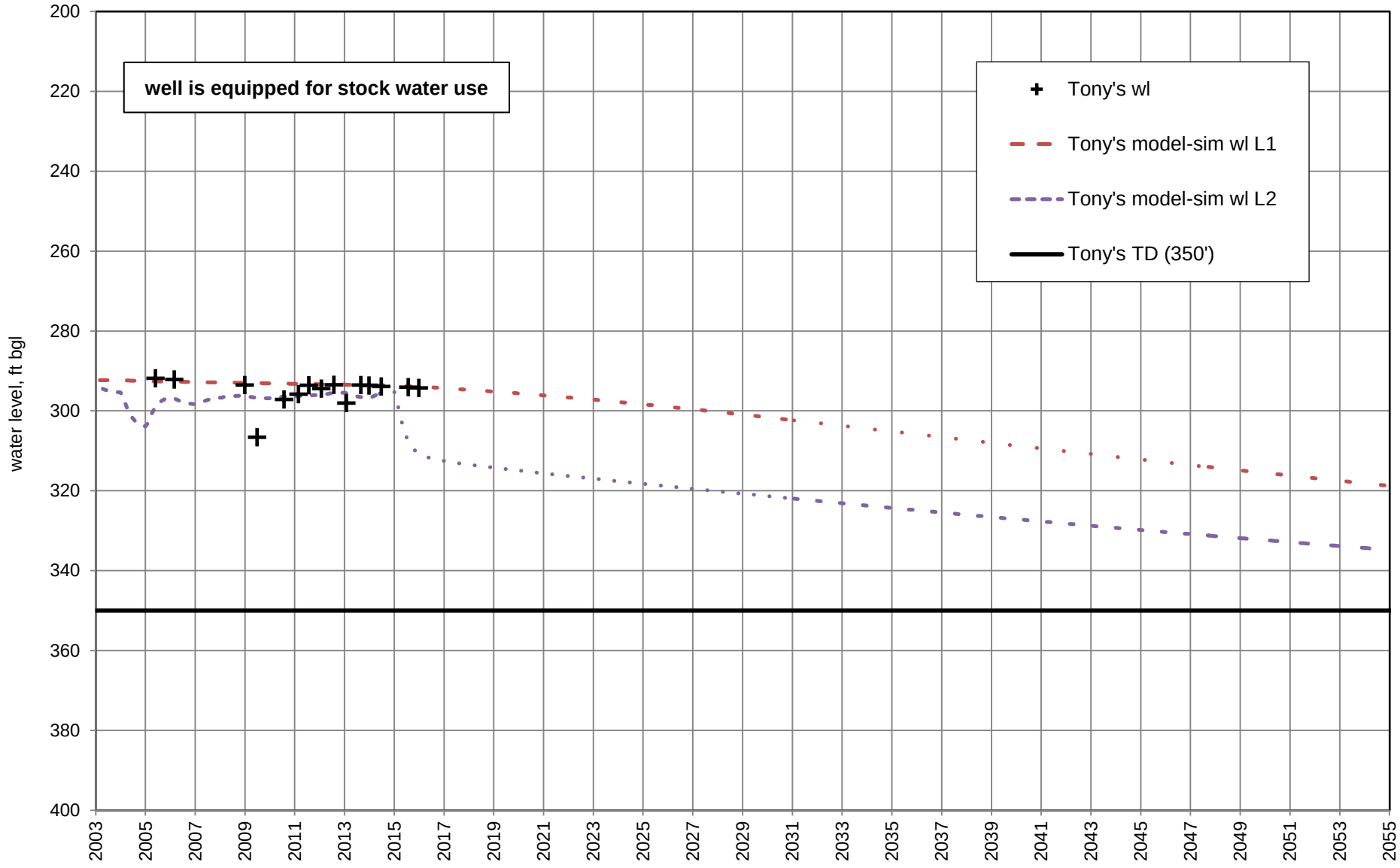


Figure 24. Water levels in Tony's Windmill well (RG-6386) and model-simulated drawdown with future pumping Scenario 1 (full permitted diversion amounts).

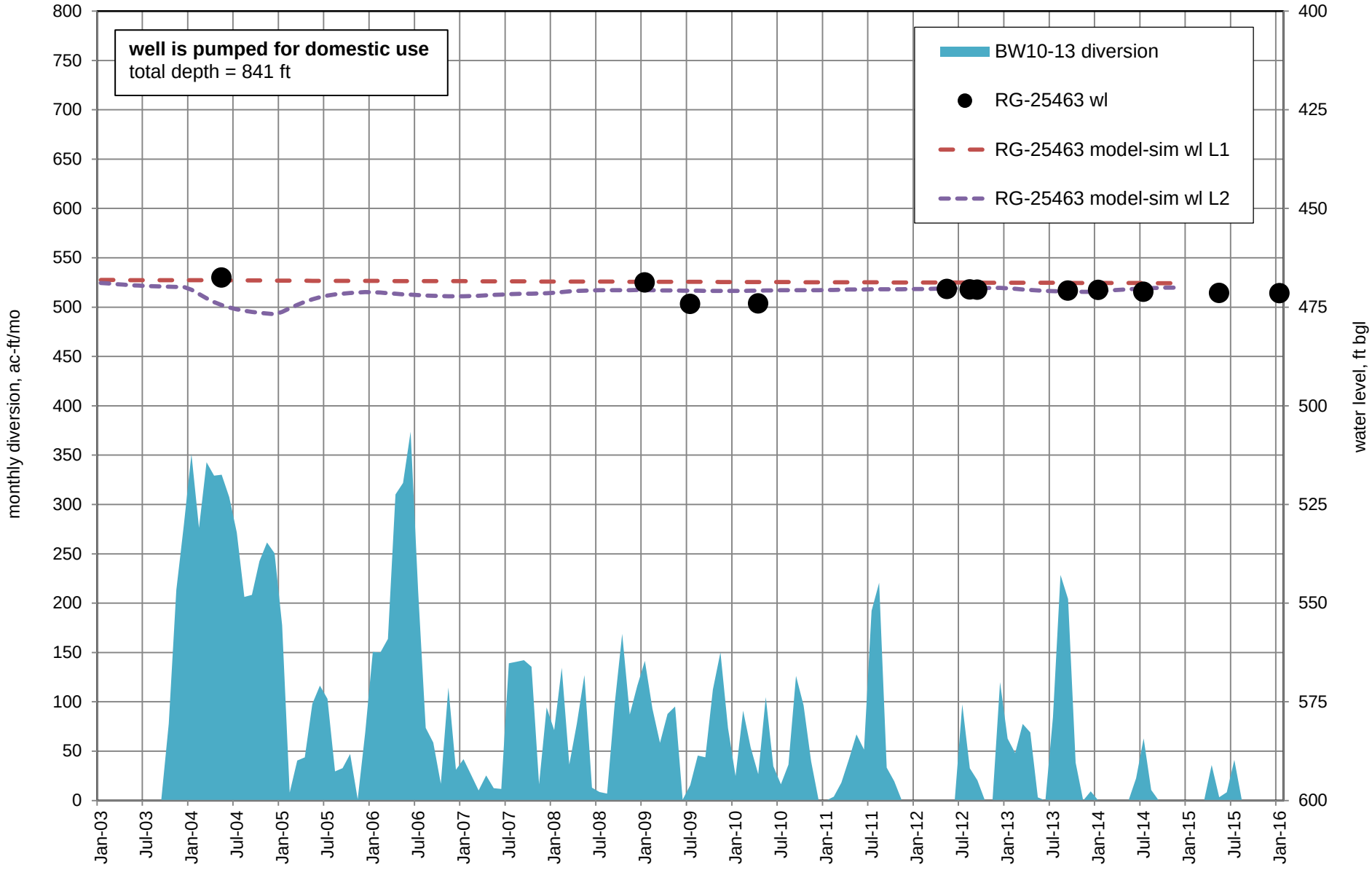


Figure A25. Water levels in well RG-25463 and monthly diversions from Buckman Wells 10 through 13, 2003 through 2015.

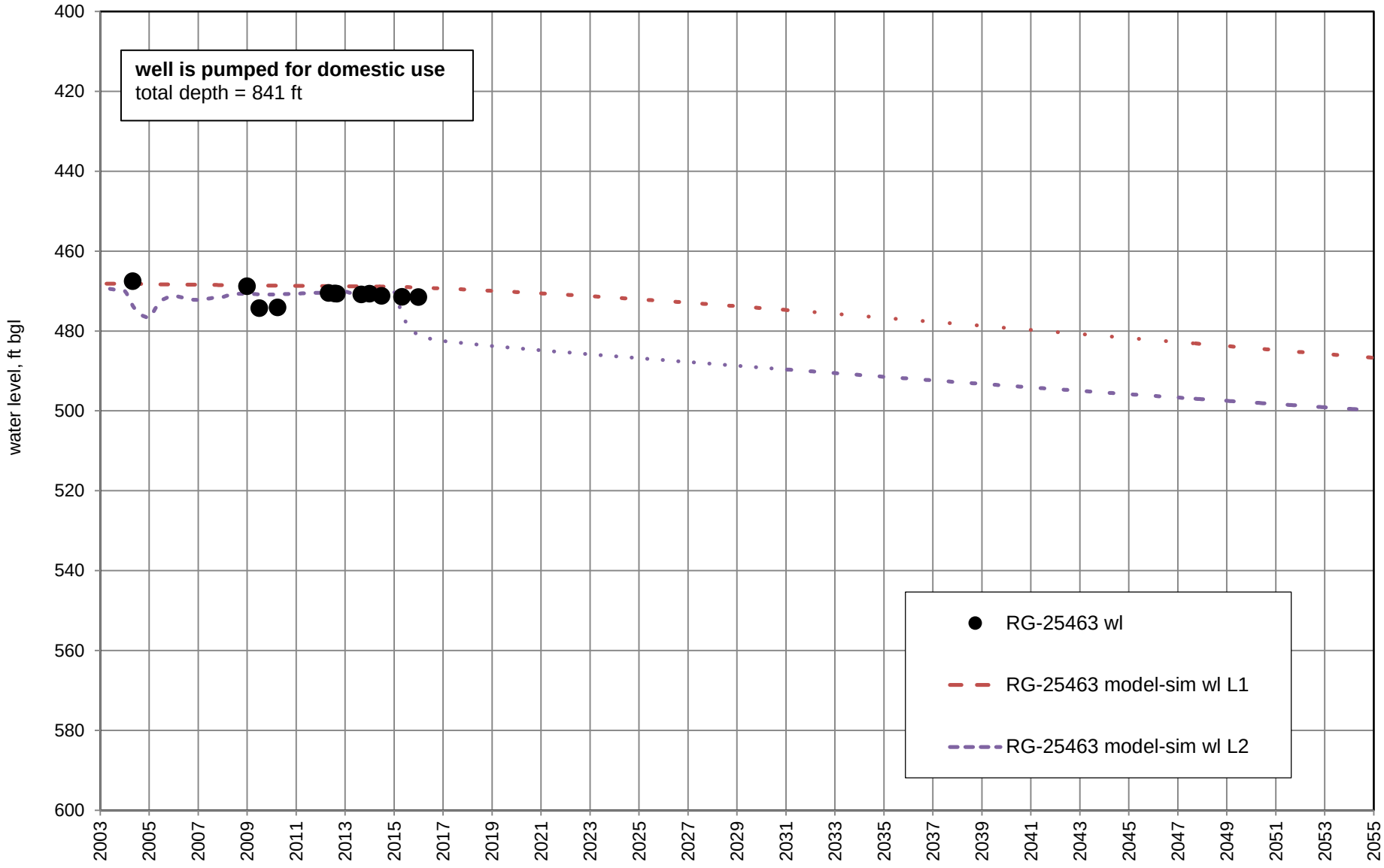


Figure A26. Water levels in well RG-25463 and model-simulated drawdown with future pumping Scenario 1 (full permitted diversion amounts).

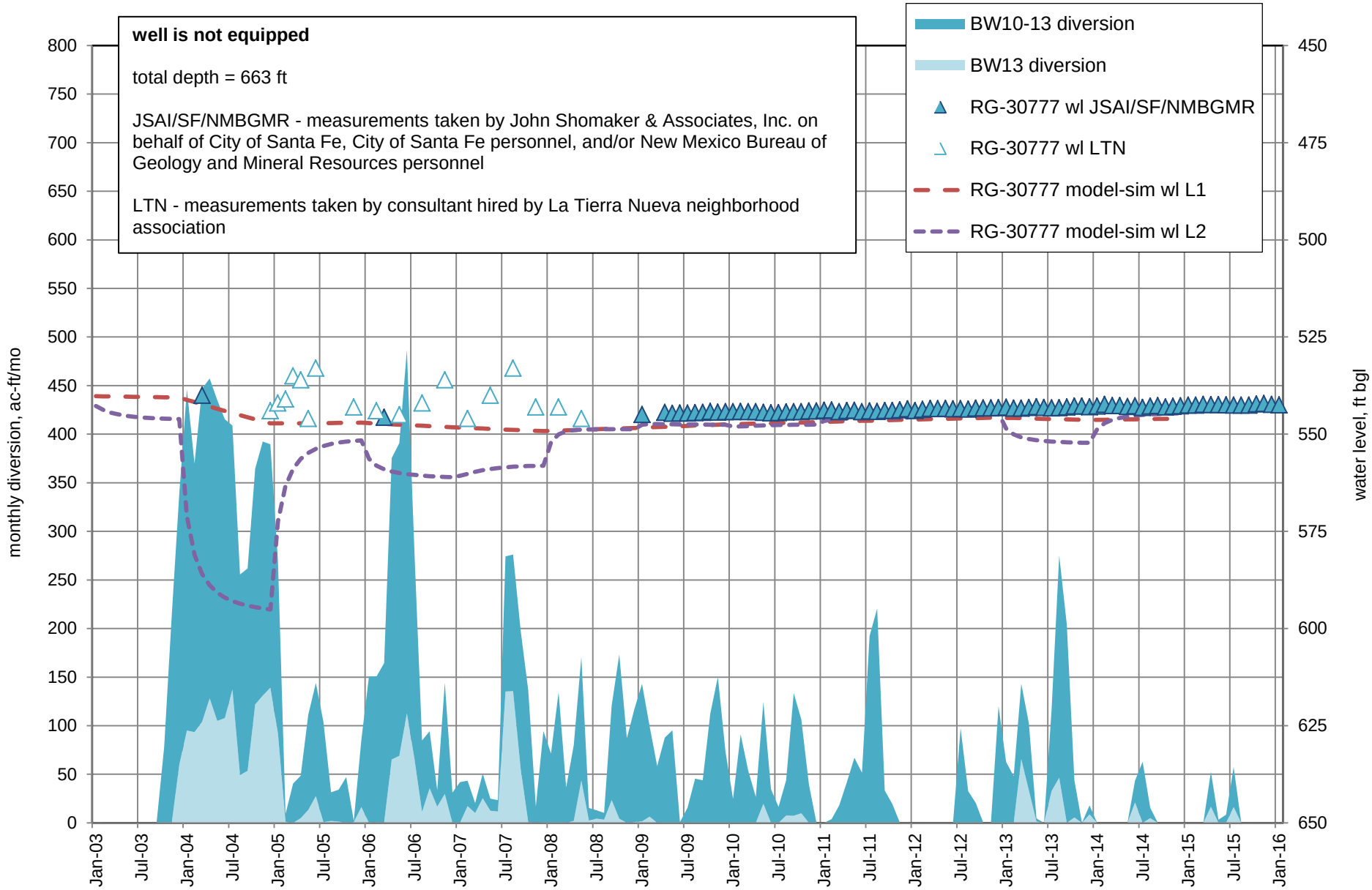


Figure A27. Water levels in well RG-30777 and monthly diversions from Buckman Wells 10 through 13, 2003 through 2015.

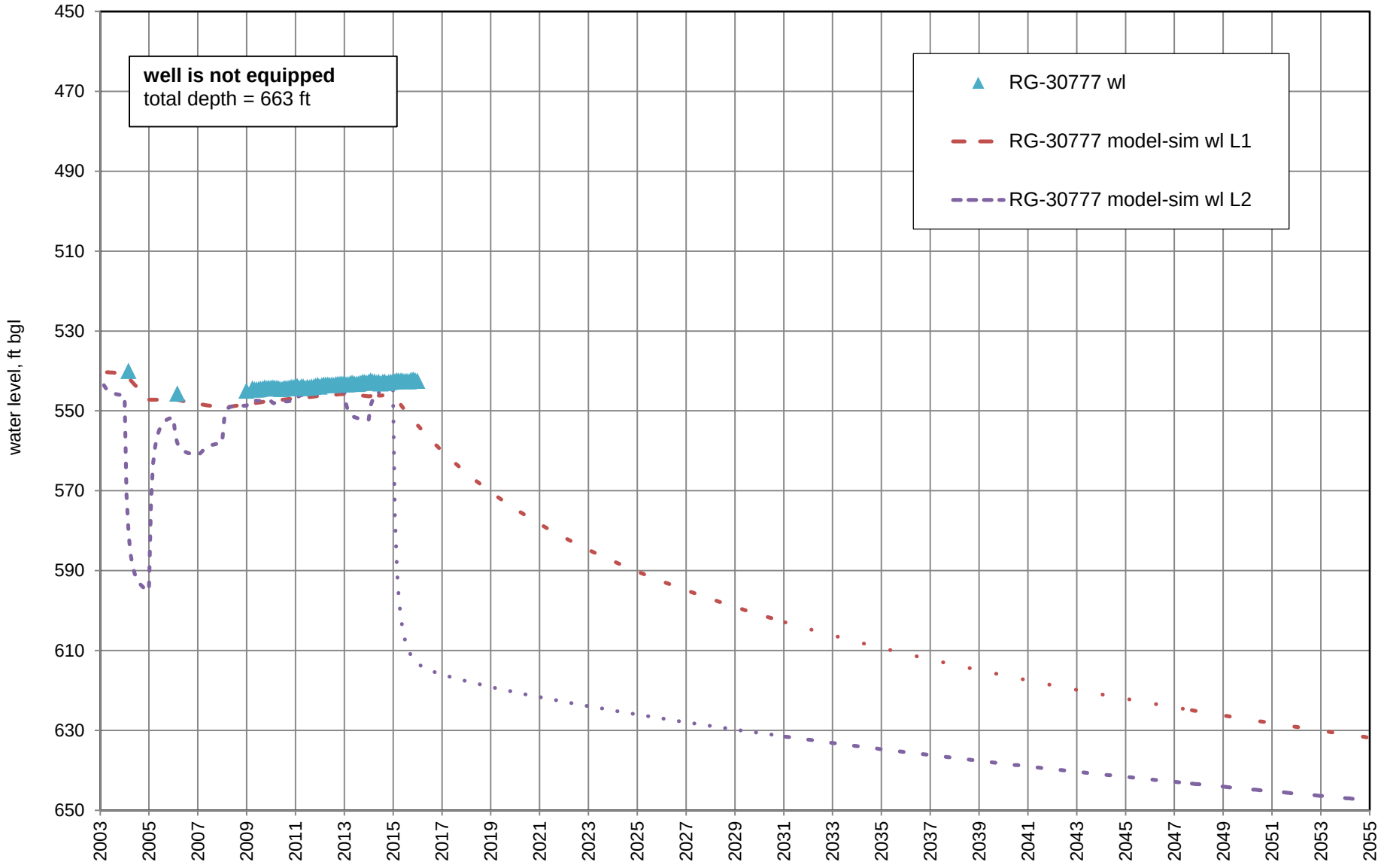


Figure A28. Water levels in well RG-30777 and model-simulated drawdown with future pumping Scenario 1 (full permitted diversion amounts).

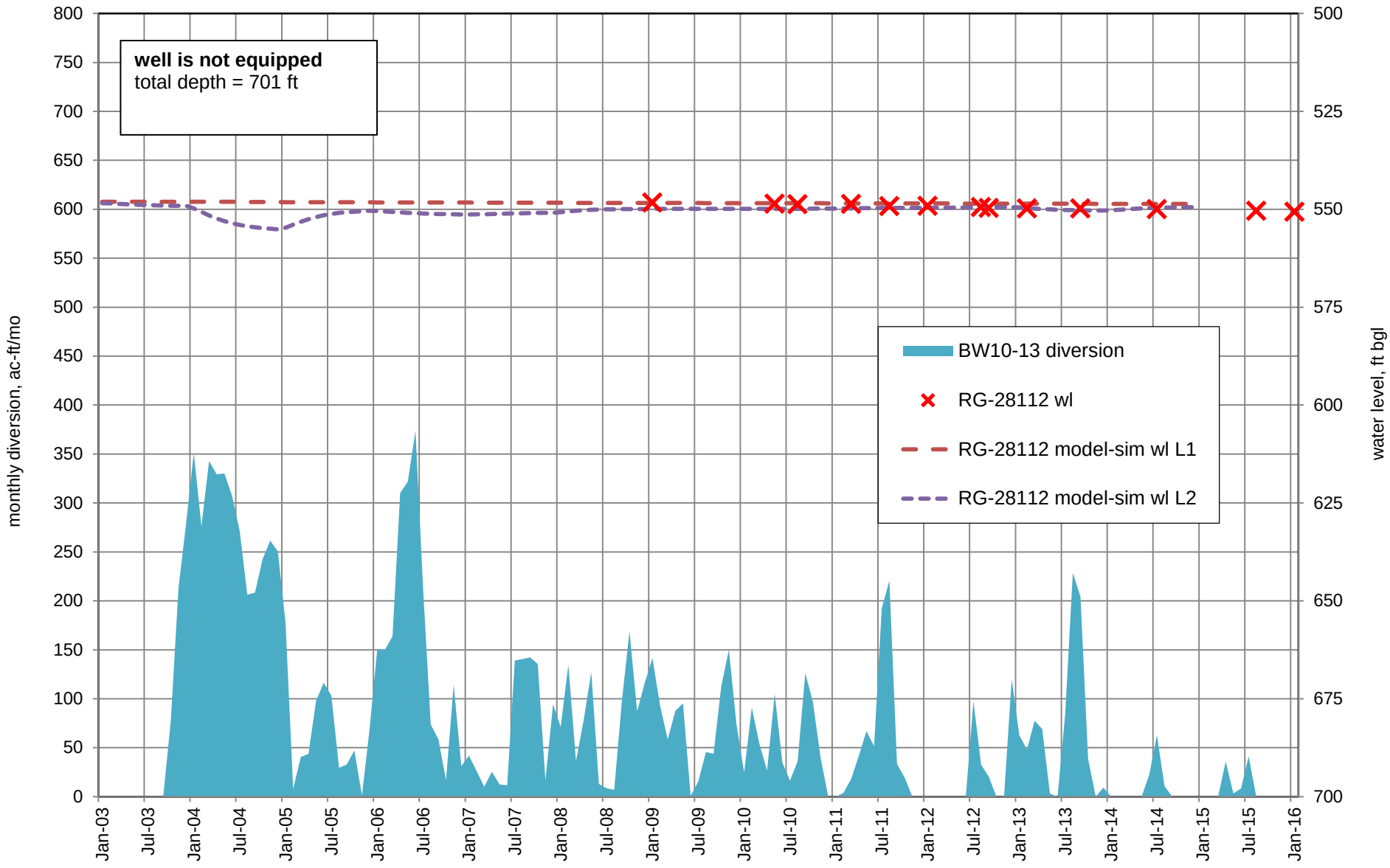


Figure A29. Water levels in well RG-28112 and monthly diversions from Buckman Wells 10 through 13, 2003 through 2015.

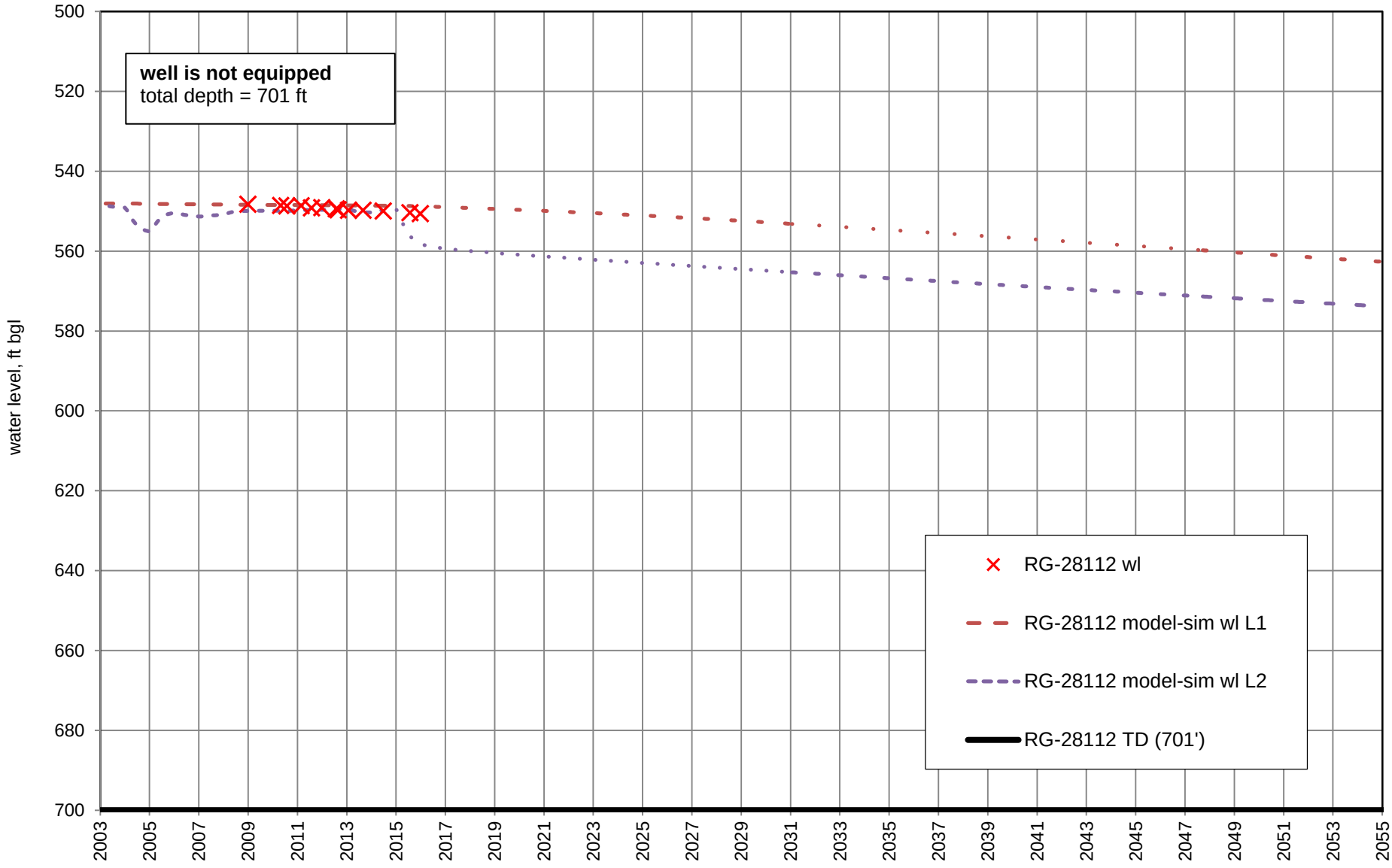


Figure A30. Water levels in well RG-28112 and model-simulated drawdown with future pumping Scenario 1 (full permitted diversion amounts).

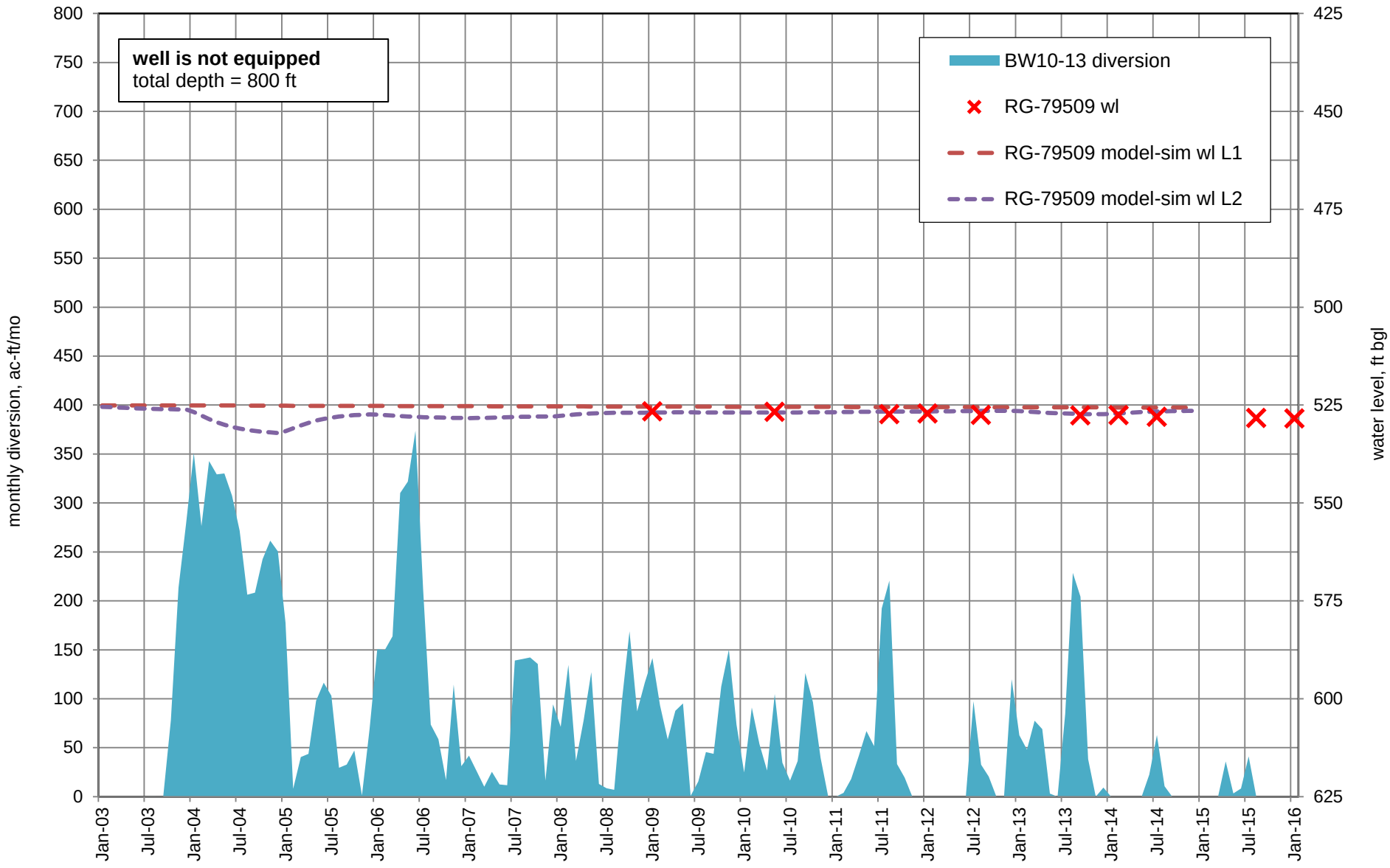


Figure A31. Water levels in well RG-79509 and monthly diversions from Buckman Wells 10 through 13, 2003 through 2015.

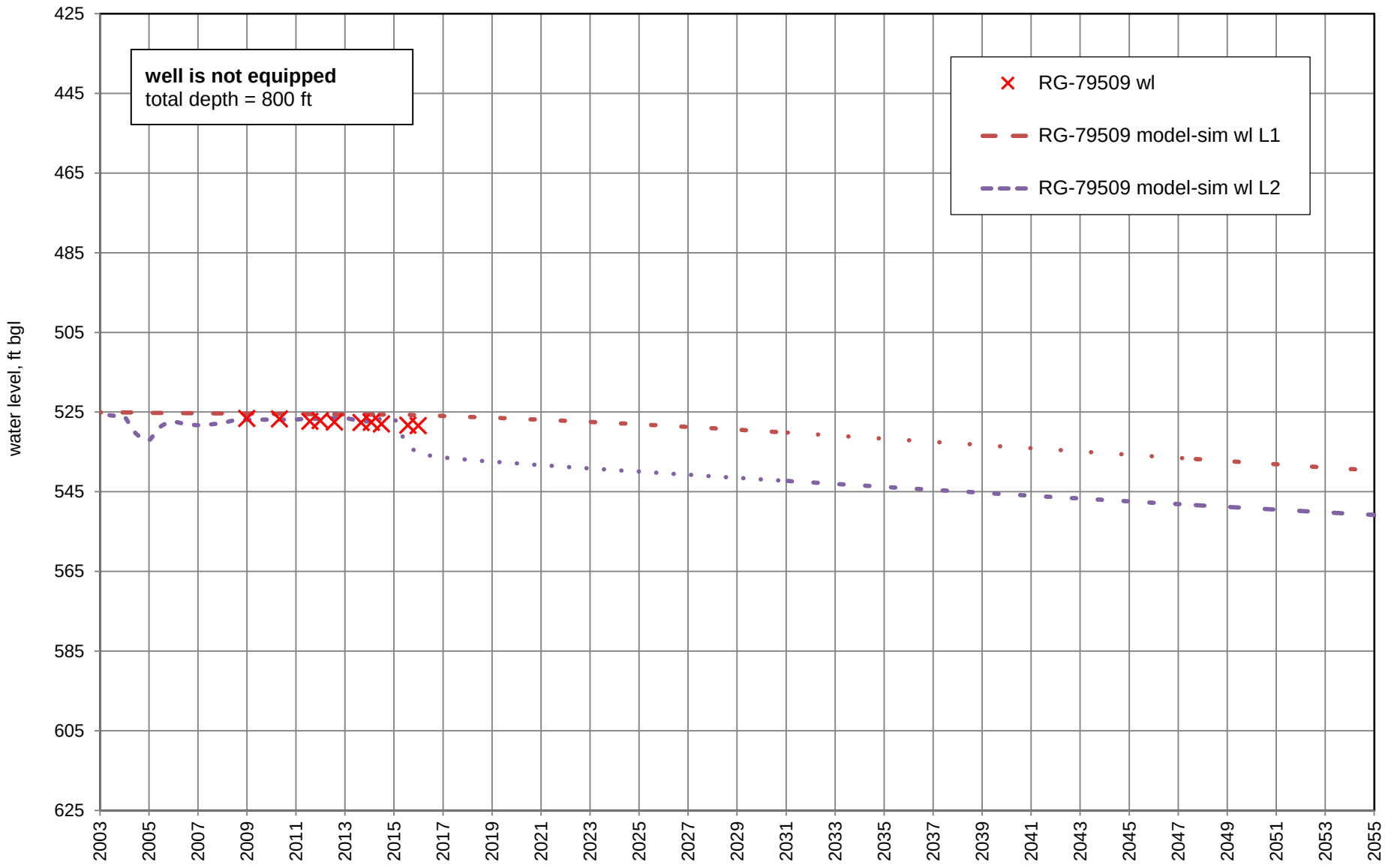


Figure A32. Water levels in well RG-79509 and model-simulated drawdown with future pumping Scenario 1 (full permitted diversion amounts).

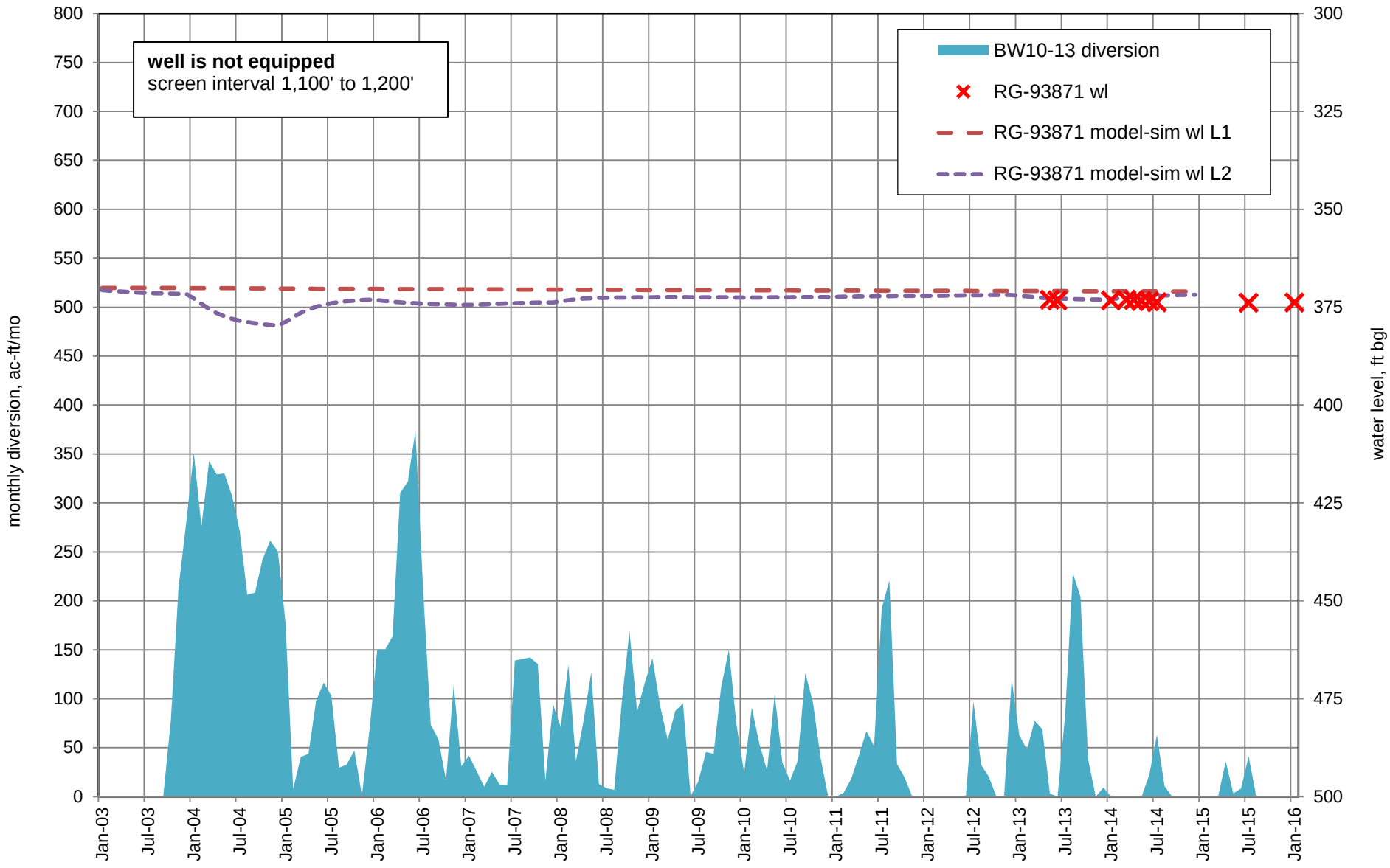


Figure A33. Water levels in La Tierra deep monitoring well RG-93871 and monthly diversions from Buckman Wells 10 through 13, 2003 through 2015.

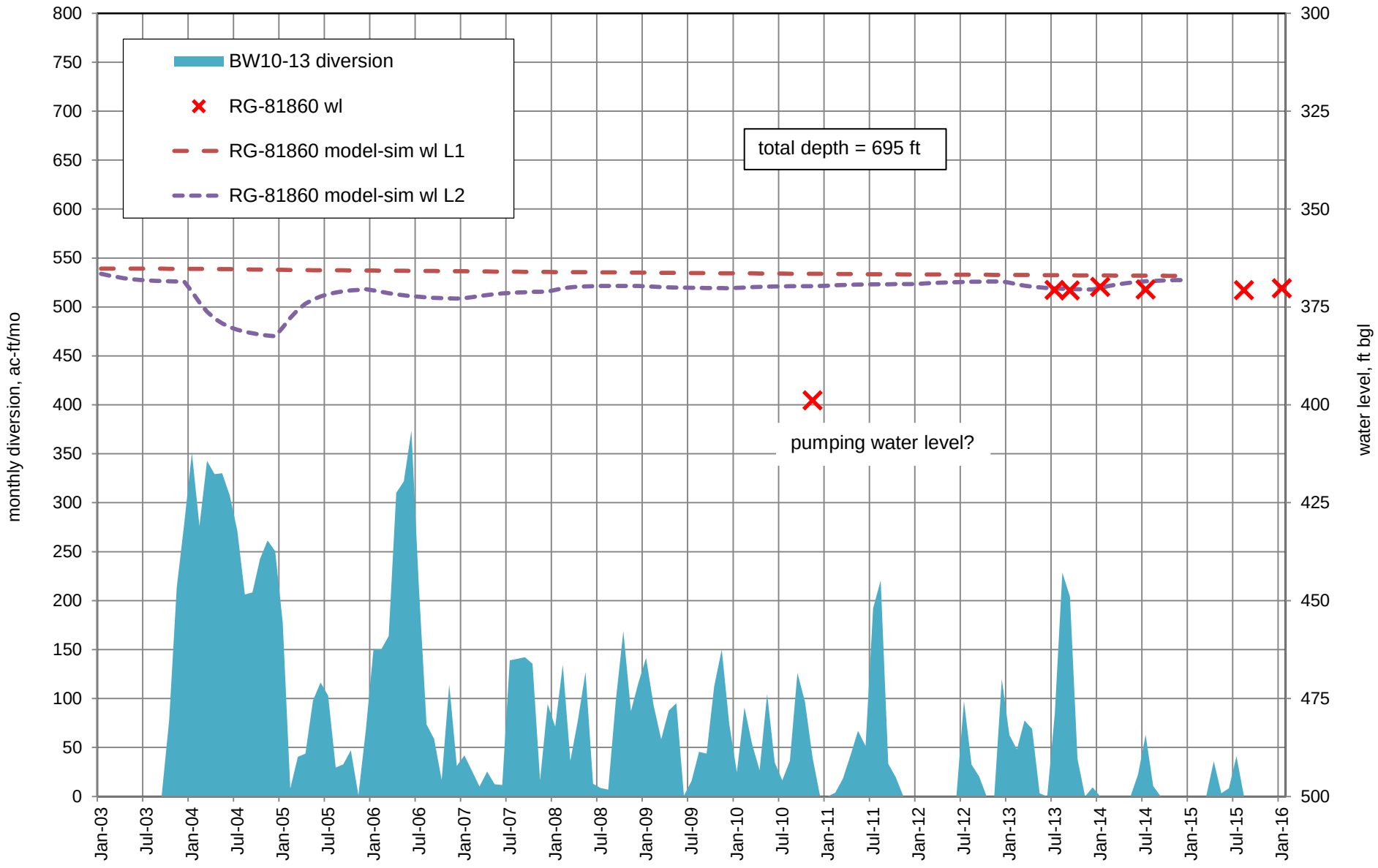


Figure A34. Water levels in well RG-81860 and monthly diversions from Buckman Wells 10 through 13, 2003 through 2015.

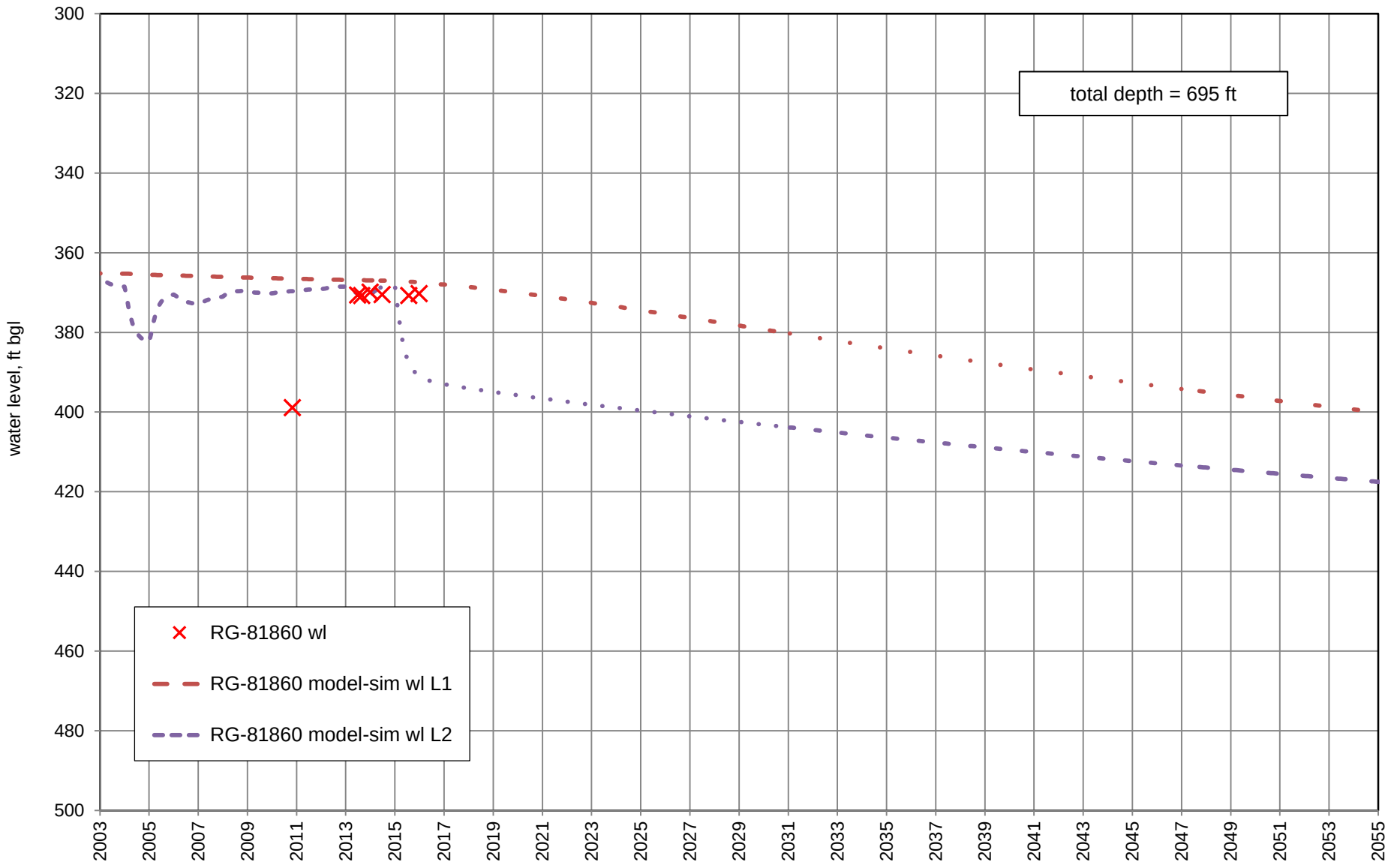


Figure A35. Water levels in well RG-81860 and model-simulated drawdown with future pumping Scenario 1 (full permitted diversion amounts).

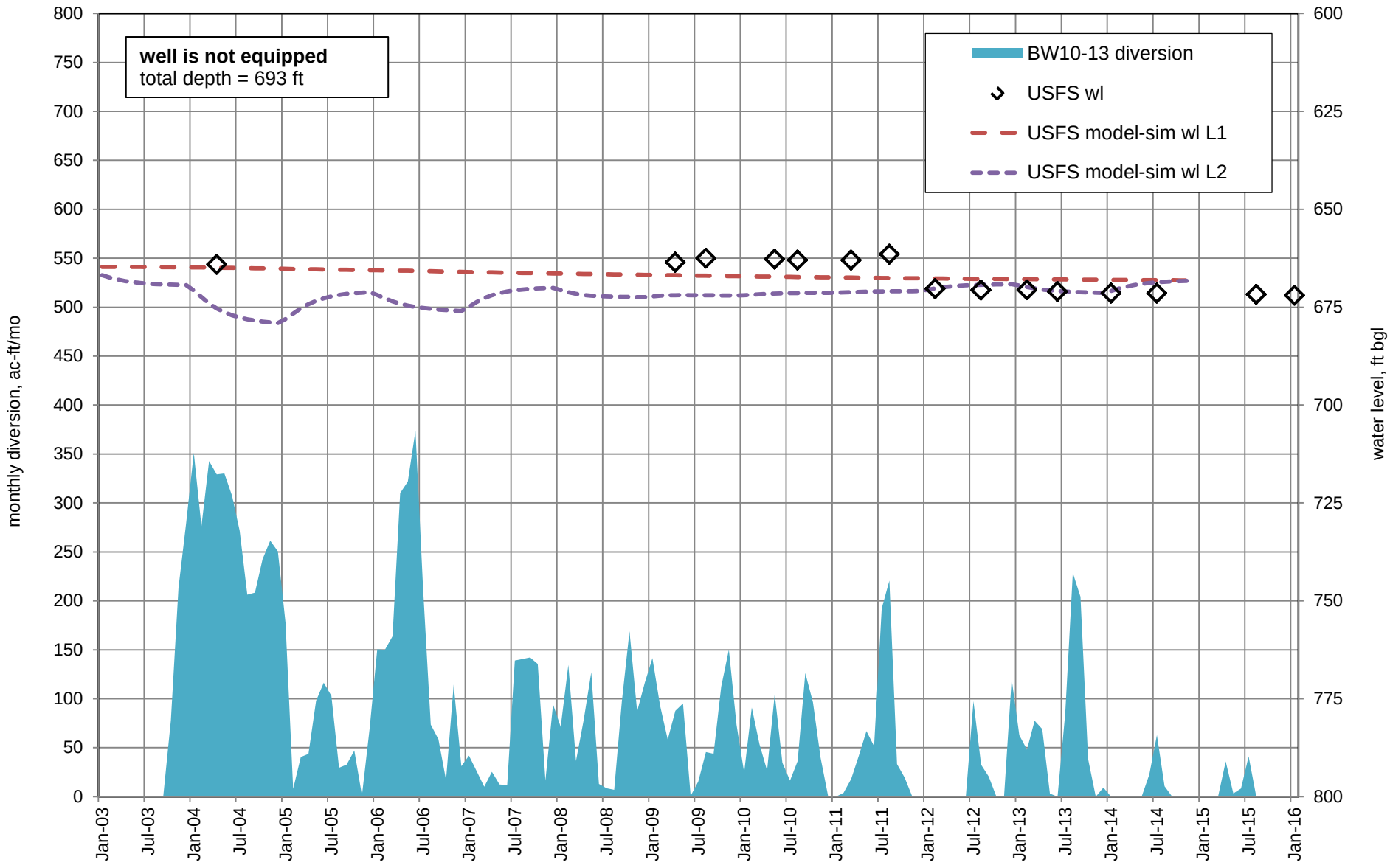


Figure A36. Water levels in U.S. Forest Service well (RG-29723) and monthly diversions from Buckman Wells 10 through 13, 2003 through 2015.

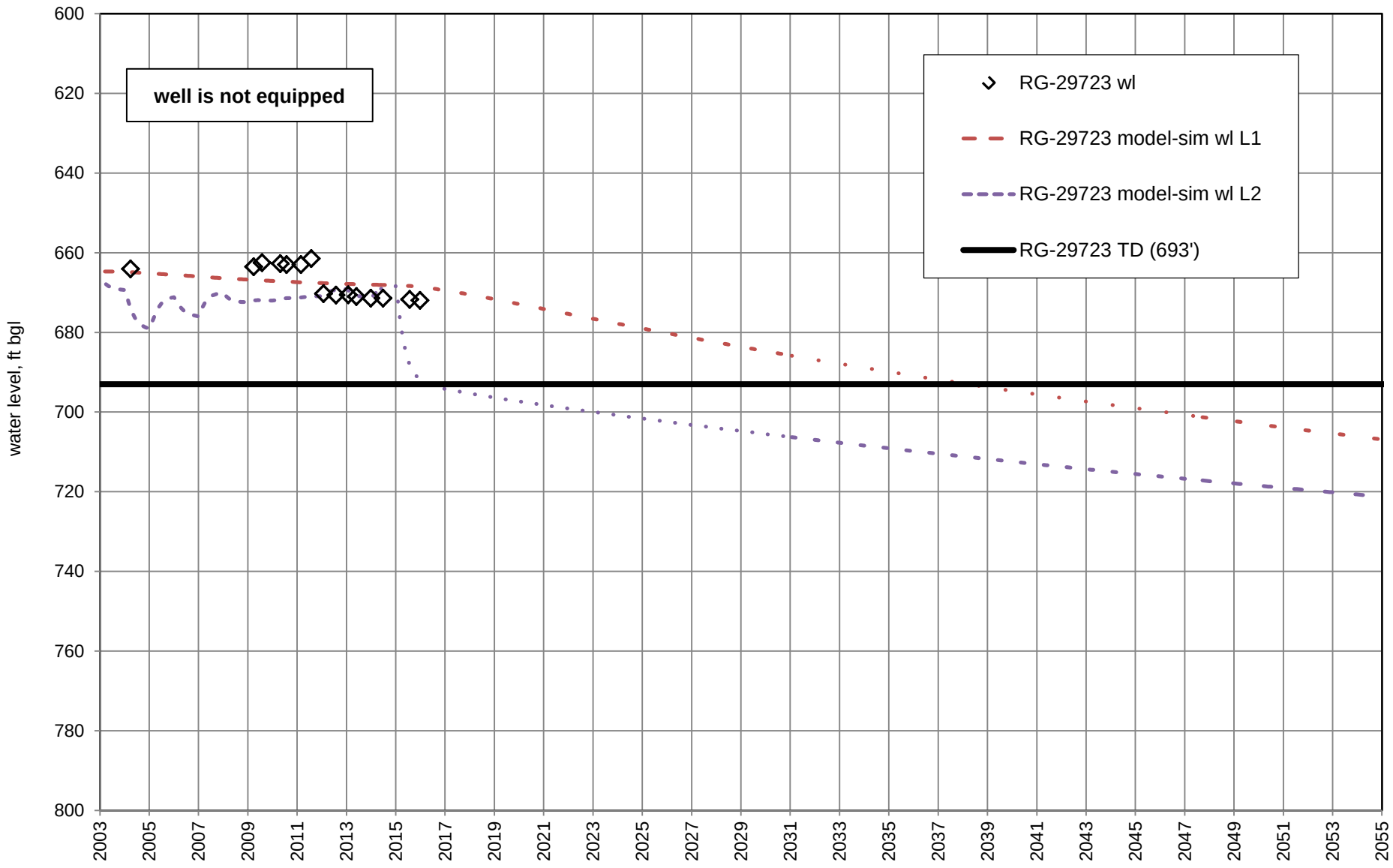


Figure A37. Water levels in U.S. Forest Service well (RG-29723) and model-simulated drawdown with future pumping Scenario 1 (full permitted diversion amounts).

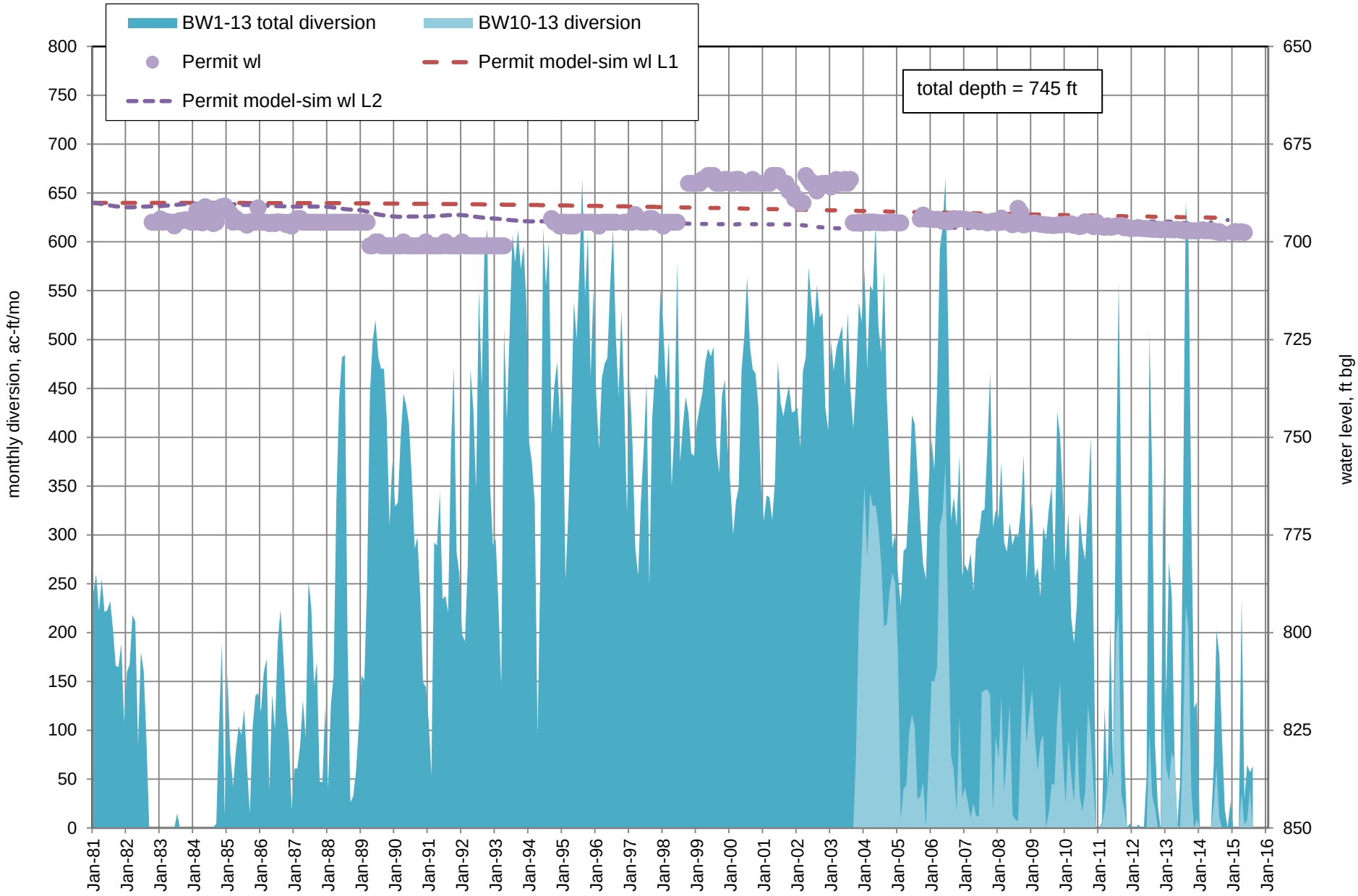


Figure A38. Water levels in Permit well (RG-16681) and monthly diversions from Buckman Wells 10 through 13, 2003 through 2015.

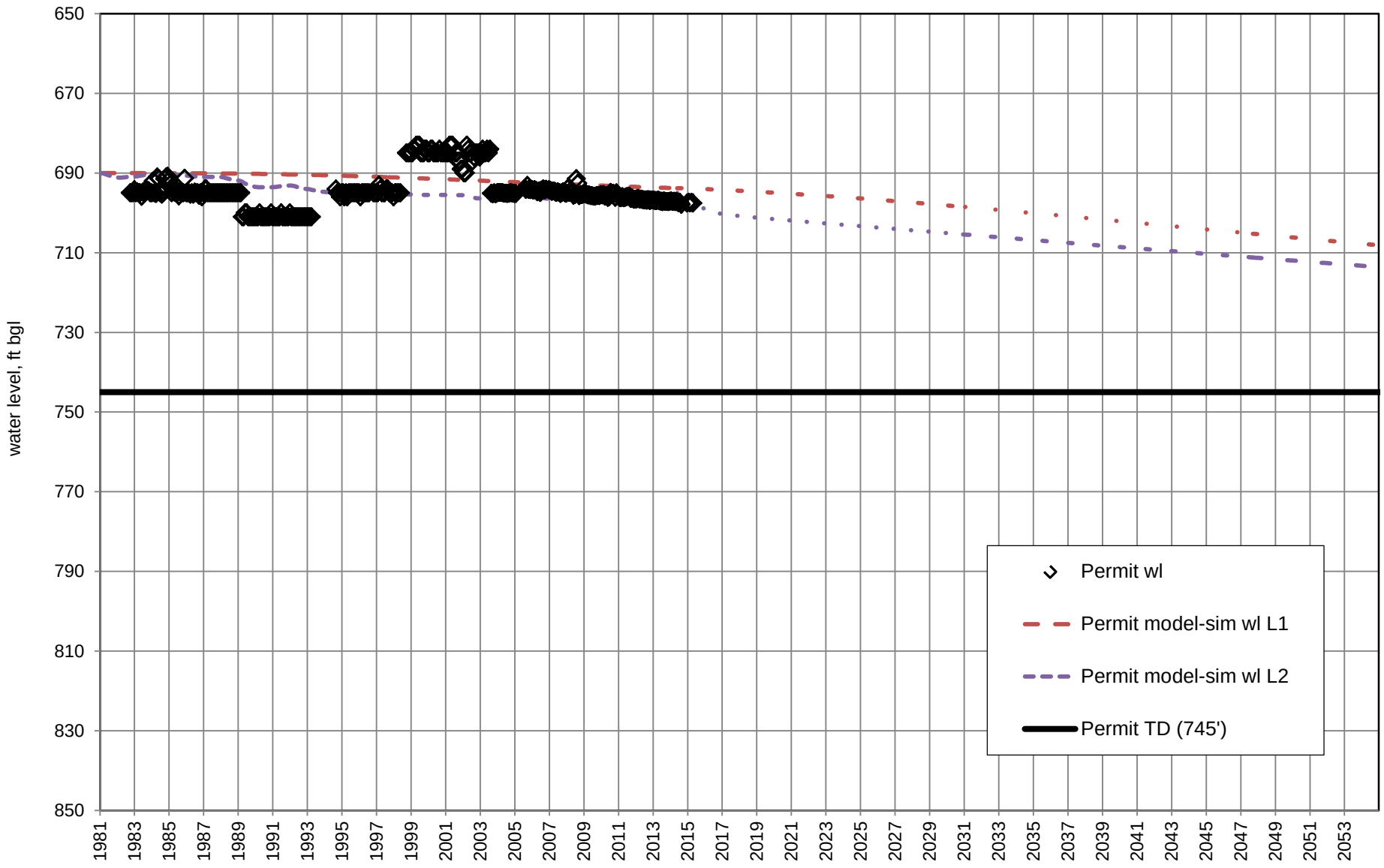


Figure A39. Water levels in Permit Well (RG-16681) and model-simulated drawdown with future pumping Scenario 1 (full permitted diversion amounts).

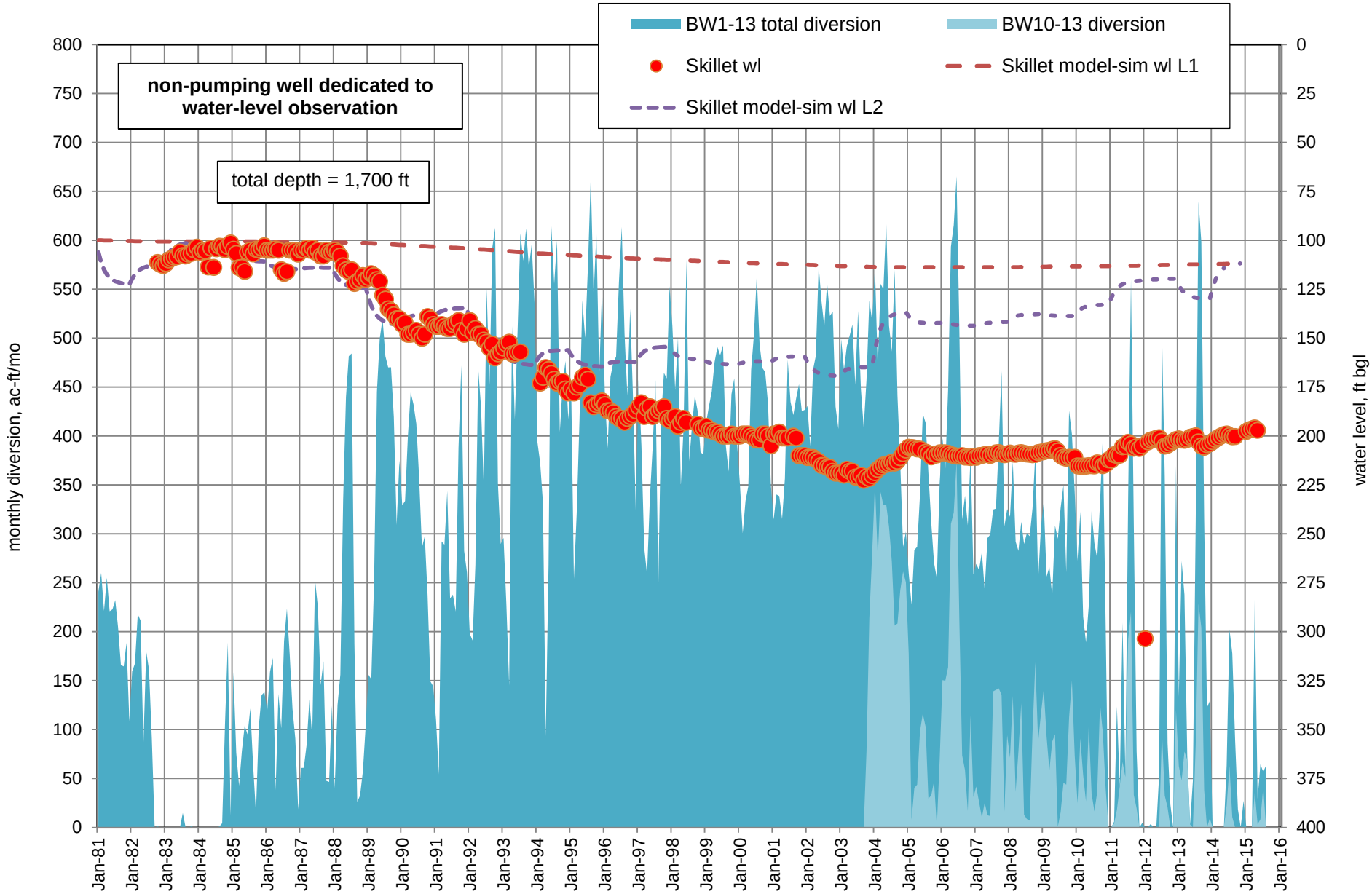


Figure A40. Water levels in Skillet well (RG-21318) and monthly diversions from Buckman Wells 10 through 13, 1981 through 2015.

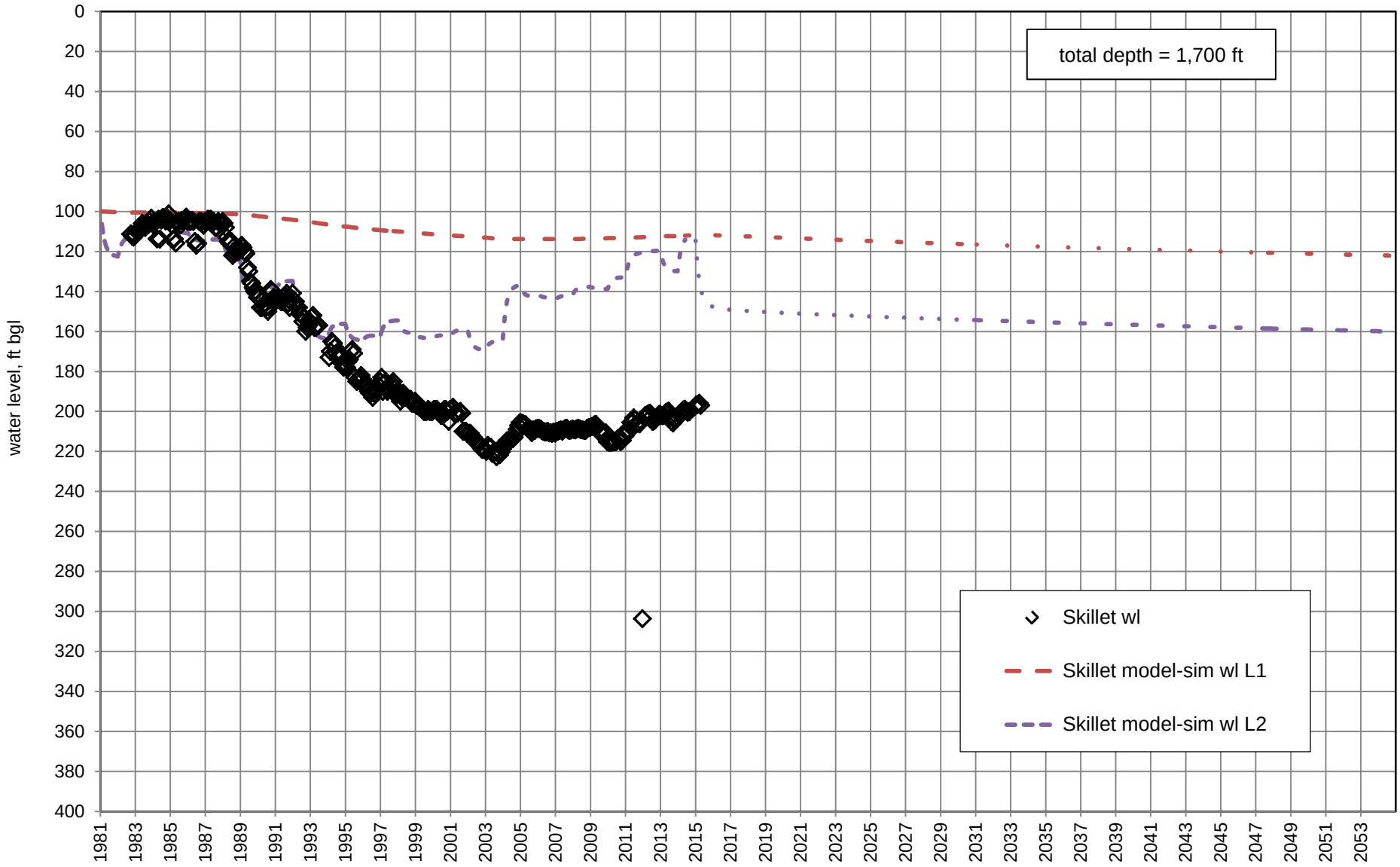


Figure A41. Water levels in Skillet Well (RG-21318) and model-simulated drawdown with future pumping Scenario 1 (full permitted diversion amounts).

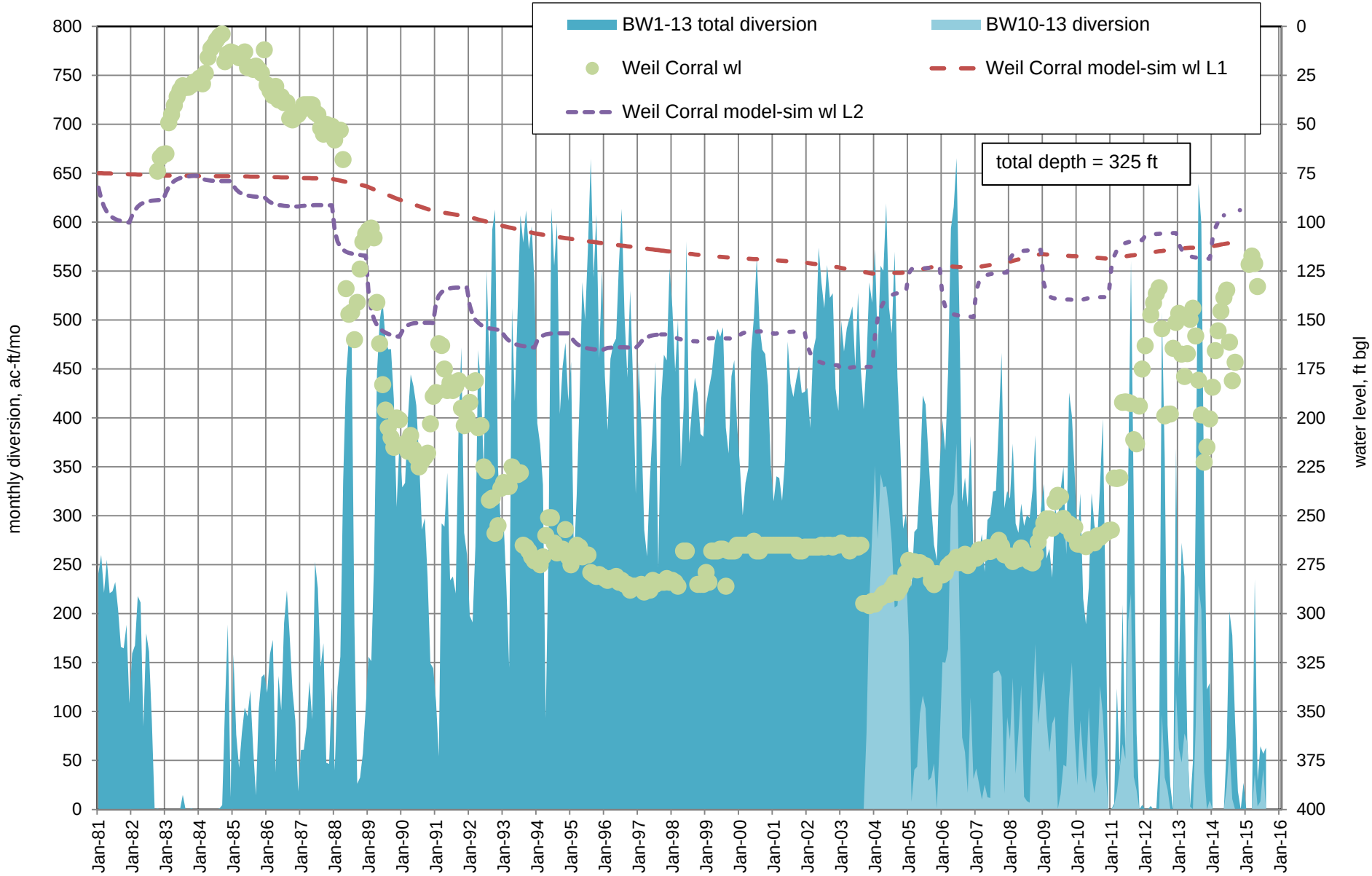


Figure A42. Water levels in Weil Corral well (RG-439) and monthly diversions from Buckman Wells 10 through 13, 1981 through 2015.

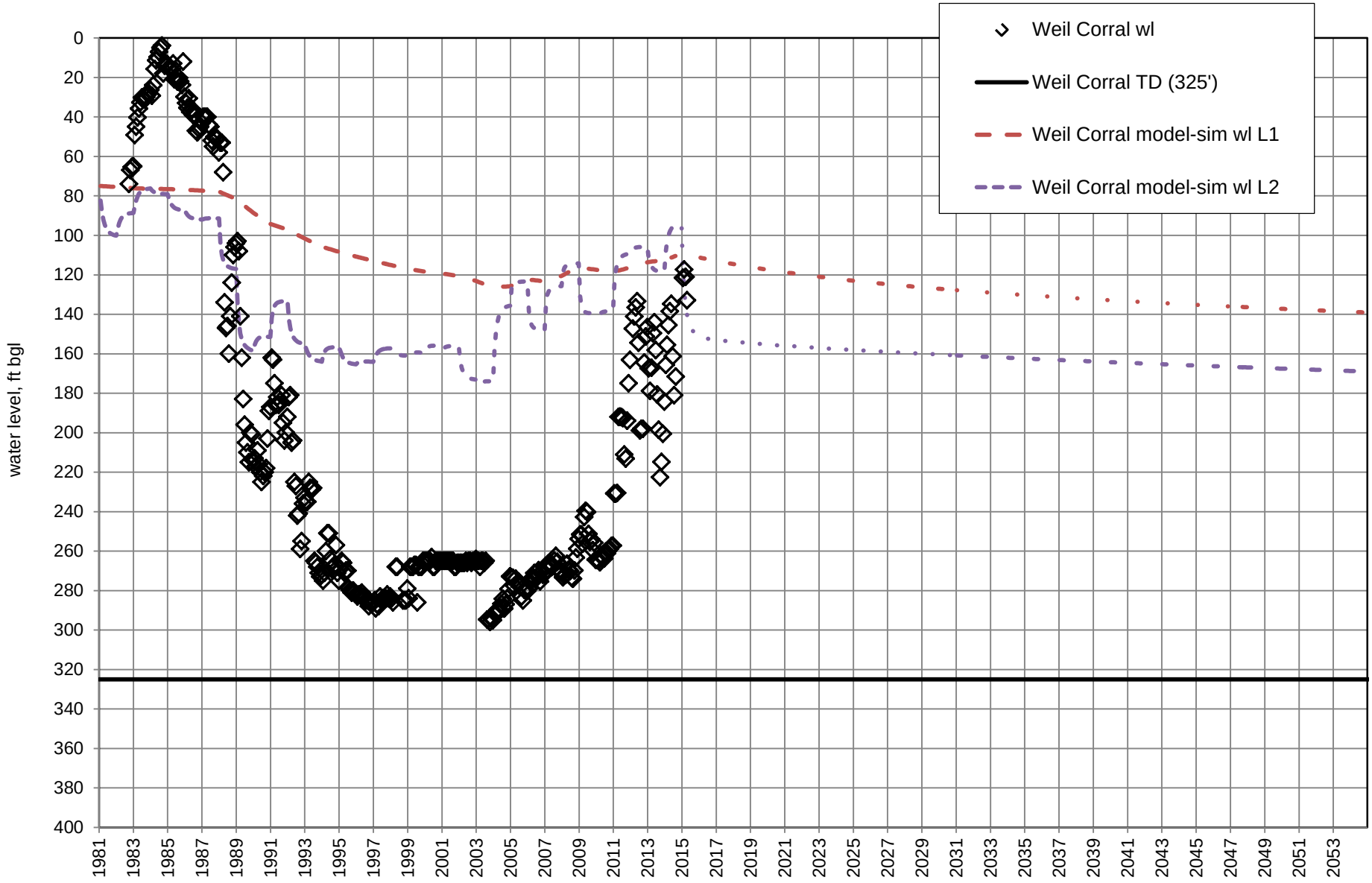


Figure A43. Water levels in Weil Corral Well (RG-439) and model-simulated drawdown with future pumping Scenario 1 (full permitted diversion amounts).

Appendix B.

Ten- and 40-year water column projections for Buckman Monitoring Program database wells due to pumping at the full permitted diversion amounts (Scenario 1, model Layer 2)

Appendix B. Ten- and 40-year water column projections for Buckman Monitoring Program wells due to pumping at the full permitted diversion amounts (Scenario 1, model layer 2)

NMOSE ID	other ID (NMBGMR/USGS, if any)	name	X, m, UTM83	Y, m, UTM83	location ref	total depth, ft	starting water level date	starting non-pumping water level, ft bgl	recent water level date	recent non-pumping water level, ft bgl	observed water level change (+ rise / - decline), ft	2003-2014 model-simulated water-level change (+ rise / - decline), ft	starting water column, ft	model-simulated 10-yr drawdown, ft	water column after 10 yrs, ft	percent water column remaining after 10 yrs	model-simulated 40-yr drawdown, ft	water column after 40 yrs, ft	percent water column remaining after 40 yrs	model-simulated 100-yr drawdown, ft	water column after 100 yrs, ft	percent water column remaining after 100 yrs	comments
	EB269/355000106092802	SF-2B	395,390	3,966,086	NMBGMR	824	Jan-2003	411.94	Dec-2015	15.64	396	115	808	67.8	740.6	92	73.3	735.1	91				
	EB270/355000106092803	SF-2C	395,376	3,966,092	NMBGMR	346	Jan-2003	233.84	Dec-2015	36.46	197	115	310	67.8	241.8	78	73.3	236.3	76				
	EB265/355002106093701	SF-3A	395,131	3,966,203	NMBGMR	294	Jan-2003	185.73	Dec-2015	-8.14	194	115	302	67.8	234.4	78	73.3	228.9	76				
	EB266/355002106093702	SF-3B	395,137	3,966,202	NMBGMR	169	Jan-2003	17.99	Dec-2015	-0.55	19	115	170	67.8	101.8	60	73.3	96.3	57				
	EB267/355002106093703	SF-3C	395,127	3,966,201	NMBGMR	60	Jan-2003	17.39	Dec-2015	15.88	2	115	44	67.8	-23.7	-54	73.3	-29.1	-66				
	EB262/355003106094301	SF-4A	395,004	3,966,182	NMBGMR	280	Jan-2003	155.30	Dec-2015	-11.66	167	115	292	67.8	223.9	77	73.3	218.4	75				
	EB263/355003106094302	SF-4B	395,004	3,966,182	NMBGMR	130	Jan-2003	5.74	Dec-2015	-1.20	7	115	131	67.8	63.4	48	73.3	57.9	44				
	EB264/355003106094303	SF-4C	395,004	3,966,182	NMBGMR	60	Jan-2003	12.78	Dec-2015	11.09	2	115	49	67.8	-18.9	-39	73.3	-24.4	-50				
	EB261/355006106094803	SF-5C	394,928	3,966,358	NMBGMR	69	Jan-2003	5.95	Dec-2015	3.84	2	115	65	67.8	-2.6	-4	73.3	-8.1	-12				
	EB298/354731106072001	Buckman Deep Piez. (SF-6A)	398,587	3,961,476	NMBGMR	2,440	Oct-2003	59.90	Dec-2015	161.14	-101	11	2,279	43.5	2,235.3	98	61.5	2,217.4	97				
	EB299/354731106072002	Buckman Middle Piez. (SF-6B)	398,587	3,961,476	NMBGMR	1,340	Oct-2003	164.83	Dec-2015	195.49	-31	11	1,145	43.5	1,101.0	96	61.5	1,083.0	95				
	EB300/354731106072003	Buckman Shallow Piez. (SF-6C)	398,587	3,961,476	NMBGMR	480	Oct-2003	186.56	Dec-2015	197.86	-11	11	282	43.5	238.6	85	61.5	220.7	78				
	EB608/354228106044901	Las Campanas Deep Piez.	402,225	3,952,079	NMBGMR	1,990	Jul-2005	216.53	Dec-2015	215.95	1	-1	1,774	18.3	1,755.8	99	31.7	1,742.4	98				
	EB609/354228106044902	Las Campanas Middle Piez.	402,225	3,952,079	NMBGMR	1,320	Jul-2005	262.92	Dec-2015	251.90	11	-1	1,068	18.3	1,049.8	98	31.7	1,036.4	97				
	EB610/354228106044903	Las Campanas Shallow Piez.	402,225	3,952,079	NMBGMR	450	Jul-2005	278.70	Dec-2015	279.64	-1	-1	170	18.3	152.1	89	31.7	138.7	81				
RG-20516-S-5	EB478	Buckman 1	395,333	3,966,270	NMBGMR	1,108	Jan-2003	632.1	May-2015	188.50	444	115	920	67.8	851.7	93	73.3	846.2	92				
RG-20516-S-6	EB479	Buckman 2	395,525	3,965,621	NMBGMR	1,593	Jan-2003	483.65	May-2015	107.12	377	99	1,486	77.4	1,408.5	95	85.9	1,400.0	94				
RG-20516-S	EB480	Buckman 3	396,172	3,965,366	NMBGMR	1,500	Jan-2003	642.25	May-2015	138.67	504	99	1,361	77.4	1,283.9	94	85.9	1,275.4	94				
RG-20516-S-2	EB481	Buckman 4	396,164	3,964,658	NMBGMR	1,219	Jan-2003	678.39	May-2015	73.65	605	99	1,145	77.4	1,068.0	93	85.9	1,059.5	93				
RG-20516-S-3	EB482	Buckman 5	396,210	3,964,020	NMBGMR	1,182	Jan-2003	652.98	May-2015	154.51	498	42	1,027	52.2	975.3	95	66.1	961.4	94				
RG-20516-S-4	EB483	Buckman 6	396,748	3,965,176	NMBGMR	1,154	Jan-2003	669.15	May-2015	136.45	533	79	1,018	64.5	953.1	94	75.4	942.2	93				
RG-20516-S-7	EB484	Buckman 7	395,955	3,966,140	NMBGMR	1,415	Jan-2003	758.42	May-2015	167.06	591	115	1,248	67.8	1,180.2	95	73.3	1,174.7	94				
RG-20516-S-8	EB485	Buckman 8	394,780	3,966,031	NMBGMR	910	Jan-2003	488.33	May-2015	30.95	457	115	879	67.8	811.3	92	73.3	805.8	92				
RG-20516-S-9	EB486	Buckman 9	396,848	3,965,659	NMBGMR	1,363	Nov-2003	669.50	May-2015	181.10	488	79	1,182	64.5	1,117.4	95	75.4	1,106.5	94				
RG-20516-S-10	EB487	Buckman 10	399,250	3,959,720	NMBGMR	2,016	Sep-2003	331.90	May-2015	334.97	-3	4	1,681	77.9	1,603.1	95	97.9	1,583.1	94				
RG-20516-S-11	EB488	Buckman 11	400,130	3,957,460	NMBGMR	2,020	Jul-2003	271.10	May-2015	396.41	-125	-4	1,624	94.4	1,529.2	94	117.5	1,506.1	93				
RG-20516-S-12	EB489	Buckman 12	401,300	3,956,280	NMBGMR	1,930	Jul-2003	239.10	May-2015	399.85	-161	-4	1,530	98.3	1,431.9	94	122.2	1,408.0	92				
RG-20516-S-13	EB490	Buckman 13	402,980	3,955,400	NMBGMR	2,018	Jul-2003	296.40	May-2015	315.41	-19	-4	1,703	81.4	1,621.2	95	102.9	1,599.7	94				
RG-21318	EB288	Skillet	397,330	3,966,980	NMBGMR	1,700	Jan-2003	219.00	May-2015	197.00	22	57	1,503	40.8	1,462.2	97	48.4	1,454.6	97				
RG-439	EB157	Weil Corral, Artesian	396,449	3,965,653	NMBGMR	325	Jan-2003	264.00	May-2015	132.90	131	79	192	64.5	127.6	66	75.4	116.7	61				
RG-16681	EB163	Permit	403,322	3,964,577	NMBGMR	745	Sep-2003	695.10	May-2015	697.55	-2	2	47	9.0	38.5	81	19.2	28.2	60				
RG-6386	EB160	Tony's Windmill	405,066	3,959,311	NMBGMR	350	Jun-2005	291.89	Jan-2016	294.30	-2	-2	56	23.1	32.6	58	39.7	16.0	**29**				
RG-29524	EB085	Las Dos 1	407,663	3,958,060	NMBGMR	773	May-2005	396.66	-	-	-	-1	376	7.8	368.5	98	16.4	359.9	96				
RG-25463	EB287	Pinon-Bogle	407,017	3,956,720	NMBGMR	841	May-2004	467.52	Jan-2016	471.50	-4	-1	370	16.8	352.7	95	29.8	339.7	92				
RG-438	EB251	Midway Windmill	399,191	3,961,850	NMBGMR	310	Apr-2005	254.96	Jan-2016	263.64	-9	11	46	43.5	2.8	**6**	61.5	-15.1	**-33**				table 30-A
RG-29723	EB645	USFS Well	398,694	3,954,689	NMBGMR	693	Mar-2004	664.10	Jan-2016	671.97	-8	-2	21	33.4	-12.4	**-59**	53.0	-32.0	**-152**				table 30-A
RG-30777	EB064	Bernstein	403,595	3,955,119	NMBGMR	663	Mar-2004	540.02	Jan-2016	542.47	-2	-4	121	81.4	39.1	32	102.9	17.7	**15**				
RG-28112		Schmidt	406,645	3,954,327	BMP database verified	701	Jan-2009	548.31	Jan-2016	550.65	-2	-1	150	13.5	136.9	91	24.4	126.0	84				
RG-79509		Schmidt 2	406,889	3,954,249	BMP database verified	800	Jan-2009	526.62	Jan-2016	528.43	-2	-1	272	13.5	258.1	95	24.4	247.2	91				
RG-24584	EB121	Headquarters, Daniels	405,692	3,955,377	NMBGMR	602	Jul-2003	424.95	-	-	-	-2	177	36.2	140.8	80	53.6	123.5	70				
RG-81860		Santa Fe Ranch, Barn Well	405,416	3,956,671	BMP database verified	695	Jul-2013	370.66	Jan-2016	370.27	0.4	-2	325	31.5	293.2	90	49.4	275.4	85				
RG-93871		La Tierra Deep Monitoring Well	406,436	3,955,825	BMP database verified	1,200	May-2013	373.24	Jan-2016	373.83	-1	-1	826	17.7	808.5	98	30.4	795.8	96				
RG-37078		Betts/Weil	405,591	3,954,061	BMP database verified	755	well record	580	-	-	-	-2	175	23.5	151.5	87	37.9	137.1	78	48.2	126.8	72	table 30-B
RG-37113		E. Eugene	405,476	3,954,840	BMP database	700	well record	527	-	-	-	-2	173	36.2	136.8	79	53.6	119.4	69	66.5	106.5	62	table 30-B
RG-437	EB158	Suzanne Garcia, Dead Dog Windmill	400,343	3,956,715	NMBGMR	700	Mar-2006	407.68	-	-	-	-4	292	94.4	197.9	68	117.5	174.8	60	95.2	197.1	67	table 30-B
RG-48491		Glascock, Lang	403,827	3,955,337	BMP database verified	730	well record	530	-	-	-	-4	200	81.4	118.6	59	102.9	97.1	49	120.5	79.5	40	table 30-B
RG-54066		Karp	403,672	3,954,737	BMP database verified	760	well record	540	-	-	-	-4	220	81.4	138.6	63	102.9	117.1	53	120.5	99.5	45	table 30-B
RG-54262		Whitney, Grasso	403,699	3,954,577	BMP database verified	755	well record	535	-	-	-	-2	220	37.0	183.0	83	54.5	165.5	75	66.0	154.0	70	table 30-B
RG-55734		Mitchel/Norton	403,477	3,954,854	BMP database verified	740	well record	500	-	-	-	-4	240	81.4	158.6	66	102.9	137.1	57	120.5	119.5	50	table 30-B
RG-56282		Walbridge, Berlanti	405,170	3,955,316	BMP database verified	700	well record	520	-	-	-	-2	180	36.2	143.8	80	53.6	126.4	70	66.5	113.5	63	table 30-B
RG-59973		Sklar	404,788	3,955,019	BMP database verified	750	well record	540	-	-	-	-2	210	36.2	173.8	83	53.6	156.4	74	66.5	143.5	68	table 30-B
RG-60104		Clements, Rand	405,218	3,955,382	BMP database verified	760	well record	580	-	-	-	-2	180	36.2	143.8	80	53.6	126.4	70	66.5	113.5	63	table 30-B
RG-60404		Smith	404,936	3,954,130	BMP database verified	760	well record	580	-	-	-	-2	180	23.5	156.5	87	37.9	142.1	79	48.2	131.8	73	table 30-B
RG-6128		Lillian Walker	402,245	3,962,216	BMP database	700	well record	525	-	-	-	2	175	24.3	150.7	86	41.6	133.4	76	54.7	120.3	69	table 30-B
RG-64419		Swanson, Stack	404,293	3,954,920	BMP database verified	740	well record	500	-	-	-	-2	240	36.2	203.8	85	53.6	186.4	78	66.5	173.5	72	table 30-B
RG-65566		Newcomer	404,331	3,955,009	BMP database verified	765	well record	542	-	-	-	-2	223	36.2	186.8	84	53.6	169.4	76	66.5	156.5	70	table 30-B
RG-69782		Wolford	404,106	3,955,085	BMP database verified	785	well record	572	-	-	-	-4	213	81.4	131.6	62	102.9	110.1	52	120.5	92.5	43	table 30-B
RG-65584		Harrison	403,243	3,955,504	BMP database verified	755	well record	535	-	-	-	-4	220	81.4	138.6	63	102.9	117.1	53	120.5	99.5	45	table 30-B
RG-71728		Buchanan	403,821	3,954,959	BMP database verified	750	well record	485	-	-	-	-4	265	81.4	183.6	69	102.9	162.1	61	120.5	144.5	55	table 30-B
RG-75069		Kenerdine Constr., Grufferman	404,659	3,954,875	BMP database verified	735	well record	500	-	-	-	-2	235	36.2	198.8	85	53.6	181.4	77	66.5	168.5	72	table 30-B
RG-61944		Ritter	406,049	3,953,948	BMP database verified	710	well record	585	-	-	-	-1	125	13.5	111.5	89	24.4	100.6	81	33.4	91.6	73	table 30-B
RG-54395		Berger, Babitt	406,245	3,954,574	BMP database verified	740	well record	580	-	-	-	-1	160	13.5	146.5	92	24.4	135.6	85	33.4	126.6	79	table 30-B
RG-55206		La Luz/Ortiz	402,036	3,961,412	BMP database	655	well record	580	-	-	-	2	75	24.3	50.7	68	41.6	33.4	45				table 30-A
RG-23806		Eliot Streeper	409,115	3,947,381	NMWRRS	216	well record	163	-	-	-	0	53	1.1	51.9	98	3.2	49.8	94				table 30-A
RG-7248	EB161	Boondock	399,636	3,965,339	NMBGMR	900	well record	434	-	-	-	13	466	20.1	445.9	96	32.3	433.7	93				
RG-77553		Metchick, Tano Road area	410,418	3,955,100	BMP database verified	900	well record	505	-	-	-	-1	395	5.0	390.0	99	11.0	384.0	97				Tano Road area

table 30-A, table 30-B - included in Finding 30, NMOSE Order HU No. 03-004
bold – less than 30 percent water column remaining

Appendix B. Buckman Monitoring Area Well and Well Permit Survey

(gray highlight = well location verified with site-specific data)

NMOSE Well ID	Well Owner(s) listed in NMOSE Database	Confirmed Well Owner	Other Well Names	Parcel Owner Listed in County Parcel Database	Street Address	Lot Description	Address Source	UTM Easting, m, NAD83	UTM Northing, m, NAD83	NMOSE T.R.Sec.qqq	Use	Diver -sion, ac-ft/yr	Drilling Date	Well Depth, ft	Depth to Water, ft	Starting Water Column, ft	Model-Simulated 10-Yr Drawdown, ft	Water Column After 10 Years, ft	Percent Water Column Remaining After 10 Years	Model-Simulated 40-Yr Drawdown, ft	Water Column After 40 Years, ft	Percent Water Column Remaining After 40 Years	Land Surface Elevation, ft amsl	Moni-toring Area	Other IDs
RG-00316	REGINALDO ESPINOZA, III, CHOLENE ESPINOZA, COMMERCIAL RESOURCES INC., JENNIFER JOHNS							401496	3949086		IRR	5.966	3/27/1957	40	20.0	20.0	5.4	14.6	73	11.7	8.3	41		BMP	
RG-00437 CLW	COLLEGE AGRIC. HOME ECON. NEW, Frank Bond		Dead Dog WM					400343	3956715	18N.08E.33.134	STK	3	6/10/1995	700	407.7	292.3	94.4	197.9	68	117.5	174.8	60	6166	BMP	
RG-00438	SUZANNE HOYT GARCIA, TRUSTEE, Robert H. Weil, McKinney		Midway WM					399191	3961850	18N.08E.17.21	STK	3	6/30/1962	310	267.3	42.7	43.5	-0.8	-2	61.5	-18.8	-44	6034	BMP	
RG-00439	SUZANNE HOYT GARCIA, TRUSTEE, Robert H. Weil		Artesian, Corral					396449	3965653	19N.07E.36.44	STK	3	8/8/1947	325	171.6	153.5	64.5	89.0	58	75.4	78.1	51	5662	BMP	
RG-04523	RUFINO MRS. GONZALES,			MEAD, WALTER L JR & EMILY C	101 CALLE ADELINA	LOT B-2 44.534 AC, T18N R 9E S30	COUNTY PLAT	406421	3958329	18N.09E.30.131	DOM	3	9/30/1960	170	95.0	75.0	13.5	61.5	82	25.8	49.2	66		BMP	
RG-06128	LILLIAN M. WALKER,							402245	3962216	18N.08E.10.344	DOM	3	4/25/1993	700	525.0	175.0	24.3	150.7	86	41.6	133.4	76	6430	BMP	
RG-06141	SUZANNE HOYT GARCIA, TRUSTEE, Robert H. Weil			LA TIERRA ASSOC INC	RANCH ESTATES RD	T17N R 8E S12 375.855 AC, REMAINDER UNDEVELOPED AREA	COUNTY PLAT	407117	3952667	17N.09E.7.431	STK	3	9/11/1961	560	500.0	60.0	8.9	51.1	85	17.4	42.6	71	6720	BMP	
RG-06275	ROBERT H. WEIL, Western Cattle Co.							403339	3952770	17N.08E.11.332	STK	3	9/5/1961	436	385.0	51.0	18.3	32.7	64	30.9	20.1	39	6480	BMP	
RG-06386	COLLEGE AGRIC. HOME ECON. NEW, Robert H. Weil		Tony's Windmill					405066	3959311	18N.08E.24.33	STK	3	9/13/1961	350	293.9	56.1	23.1	32.9	59	39.7	16.4	29	6397	BMP	
RG-07248	COLLEGE OF AGRIC. & ECON. NEW, Robert H. Weil		Boondock well					399636	3965339	19N.08E.32.44	STK	3	8/3/1975	900	434.0	466.0	20.1	445.9	96	32.3	433.7	93	6150	BMP	
RG-09740	U. S. FOREST SERVICE,		USFS Weir Well					400424	3951041	17N.08E.16.34	SAN	0	9/13/1963	514	461.0	53.0	8.9	44.1	83	18.0	35.0	66	6393	BMP	
RG-14073 -REPAI	U.S. FOREST SERVICE		1100 Ft Well					394978	3956163	18N.07E.35.4	STK	4.83	7/1/1966	1090	996.0	94.0	13.0	81.0	86	26.8	67.2	71	6641	BMP	
RG-14451	W. J. ROUNSEVILLE,			NOVBAKHTIAN, ABDOLREZA, MASOUD	82 PASEO DE LA TIERRA	LOT 5 LA TIERRA S/D PH 1, T17N R9E S 6	COUNTY PLAT	407082	3954847	17N.09E.6.	DOM	3	12/23/1966	614	550.0	64.0	17.7	46.3	72	30.4	33.6	53	6683	BMP	
RG-16681	ROBERT H. WEIL,		Permit					404578	3964298	18N.08E.2.42	PDM	3	6/20/1969	745	574.0	171.0	8.4	162.6	95	18.7	152.3	89		BMP	
RG-17409	ROBERT H WEIL,			POMEROY, CHARLES W & BARBARA	6 COLUMBINE LN	LOT 22 SALVA TIERRA UNIT 1, 2.038 AC, T17N R 9E S8,	COUNTY PLAT	408234	3952574	17N.09E.8.334	DOL	3	1970	1980	466.0	1514.0	5.6	1508.4	100	11.8	1502.2	99	6800	BMP	
RG-17410	ROBERT H WEIL,			SMITH, STEPHEN R	36 PICACHO PEAK DR	LOT 640 LAS CAMPANAS PH V, T17N R 9E S 7 5.029 AC	COUNTY PLAT	406809	3953748	17N.09E.7.123	DOL	3	1970	1000	567.0	433.0	13.5	419.5	97	24.4	408.6	94	6765	BMP	
RG-18385	DR. WILLIAM STENNIS,			MCDOUGALL, RICHARD & MARY	38 N VUELTA HERRADURA	LOT 117 LA TIERRA S/D PHASE 3, 14.07 AC, T18N R 9E S32,	COUNTY PLAT	409233	3955917	18N.09E.32.441	DOM	3	2/26/1971	710	625.0	85.0	5.0	80.0	94	11.0	74.0	87	6914	BMP	
RG-19117	LUDEN. FRITZ, Kris Hotvedt			POLANCO, LEE B	17 WILDFLOWER WAY	T17N R 9E S18 2.51 AC LOT B,	COUNTY PLAT	407542	3951276	17N.09E.18.423	DOM	3	7/12/1971	608	565.0	43.0	3.8	39.2	91	8.6	34.4	80	6790	BMP	
RG-21516	CINCO PARA MANANA, VILLAGE GATE HOLDINGS			MILLER, NEIL Z & SUSANNE B	1 CAMINO DELILAH	T17N R 9E S9 3.380 AC, LOT 1-A	COUNTY PLAT	409481	3953882	17N.09E.5.44S	SAN	0	10/3/1972	220	140.0	80.0	4.4	75.6	95	9.7	70.3	88		BMP	
RG-24203	JOHN D. GUNDZIK MD, A.A. Realty, Al Amiday			BOMSE, PEARL & MARC &	59 SONRISA TRL	LOT 4 5.346 AC, T17N R 9E S18	COUNTY PLAT	406964	3951493	17N.09E.18.322	DOM	3	11/6/1973	777	448.0	329.0	8.9	320.1	97	17.4	311.6	95	6720	BMP	
RG-24364	E. C DE BACA,			NAMINGHA, DANIEL & FRANCES	68 PASEO DE LA TIERRA	LOT 4 LA TIERRA PHASE 1, T17N R 9E S 6	COUNTY PLAT	406977	3954740	17N.09E.6.322	DOM	3	12/29/1973	400	300.0	100.0	17.7	82.3	82	30.4	69.6	70	6701	BMP	
RG-24584 POD1	BOB WEIL, Daniels	Jeanne C. Daniels	Headquarters, Daniels	CREED, JEANNE H	86 Headquarters Trail	T18N R 8E S36 14.58 AC SE4 &, T17N R 8E S 1 NE4 PORT OF	COUNTY PLAT, 9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	405692	3955377	17N.8E.1.2123	DOM	3	4/19/1974	602	426.5	175.5	36.2	139.3	79	53.6	122.0	69	6554	BMP	
RG-24855	ROBET H. WEIL, Kubert		La Tierra	TURNEY, PATRICIA A	87 E ESTRADA CALABASA	LOT 59 LA TIERRA PHASE 2, T18N R 9E S31 10.009 AC	COUNTY PLAT	407931	3956170	18N.09E.32.41	DOM	3	5/16/1974	697	496.4	200.6	9.2	191.3	95	18.0	182.5	91	6722	BMP	
RG-24968	DREW C. & LYNNE D. ARENA,			ARENA, DREW C & ELISE PINKOW	44 SONRISA TRL	T17N R 9E S18 23.982 AC, TRACT B	COUNTY PLAT	407040	3951072	17N.09E.18.324	DOM	3	7/22/1974	697	528.0	169.0	5.6	163.4	97	11.8	157.2	93		BMP	
RG-25463	JEANETTE LILIENTHAL,		La Tierra, Pinon	BOGLE, GLENN G & SUSAN R	218 PASEO DE LA TIERRA	LOT 16 LA TIERRA PHASE 1, T17N R 9E S31	COUNTY PLAT	407017	3956720	18N.09E.31.211	DOM	3	10/22/1974	841	468.3	372.8	16.8	356.0	95	29.8	342.9	92	6664	BMP	
RG-25637	SUSAN MERWIN, W.P. Saunders		La Tierra, South Well	NAMINGHA, DANIEL & FRANCES	68 PASEO DE LA TIERRA	LOT 4 LA TIERRA PHASE 1, T17N R 9E S 6	COUNTY PLAT	407026	3954795	17N.09E.6.114	DOM	0	1975	735	445.9	289.1	17.7	271.5	94	30.4	258.8	89	6708	BMP	
RG-25800	IRIS H WILSON,							401653	3973422	19N.08E..	DOM	3	4/25/1975	153	78.0	75.0	1.7	73.3	98	3.6	71.4	95		BMP	
RG-26125	WILLIAM S. ELKINS,							406010	3957550	18N.09E.25.431	DOM	3	7/5/1975	167	43.0	124.0	16.8	107.2	86	29.8	94.2	76	6600	BMP	
RG-26697	MARK K. JONES,							401478	3960568	18N.08E.	DOM	3	12/15/1975	650	480.0	170.0	35.6	134.4	79	55.7	114.3	67		BMP?	
RG-27928	PETER DYKE,			MACCORQUODALE, MICHAEL & PAM	29 VUELTA MONTUOSO	LOT 29 LA TIERRA PHASE 1, T17N R 9E S31	COUNTY PLAT	406599	3956321	18N.09E.31.312	DOM	3	4/10/2004	900	555.0	345.0	16.8	328.2	95	29.8	315.2	91	6701	BMP	
RG-28007	DON HENRY,			LA TIERRA ASSOC INC	12 HORCADO RANCH RD	LOT 33 LA TIERRA PHASE 1 PARK, NEXT TO T17N R 9E S31, PARK NO TAXABLE VALUE,	COUNTY PLAT	406395	3955740	18N.09E.31.333	DOM	3	12/9/1976	585	385.0	200.0	17.7	182.3	91	30.4	169.6	85	6575	BMP	
RG-28064	STEVEN H. TREMPER,		La Tierra 32-T-1	ANDERSON, JON R & ANNE-DRUE	22 N VUELTA HERRADURA	T18N R 9E S32 11.24 AC, LOT 115 LA TIERRA PHASE 3	COUNTY PLAT	408320	3956006	18N.09E.32.33	DOM	3	12/28/1976	750	529.0	221.0	9.2	211.8	96	18.0	203.0	92	6769	BMP	
RG-28064	STEVEN H. TREMPER,		La Tierra 32-T-2	GREENKER, JEROLD A	12 ESTRADA REDONDA	T18N R 9E S32 10.39 AC, LOT 82 LA TIERRA PHASE 3	COUNTY PLAT	409264	3956135	18N.09E.32.42	DOM	3	2/4/1977	750	533.3	216.7	5.0	211.6	98	11.0	205.6	95	6847	BMP	

Appendix B. Buckman Monitoring Area Well and Well Permit Survey

(gray highlight = well location verified with site-specific data)

NMOSE Well ID	Well Owner(s) listed in NMOSE Database	Confirmed Well Owner	Other Well Names	Parcel Owner Listed in County Parcel Database	Street Address	Lot Description	Address Source	UTM Easting, m, NAD83	UTM Northing, m, NAD83	NMOSE T.R.Sec.qqq	Use	Diver -sion, ac-ft/yr	Drilling Date	Well Depth, ft	Depth to Water, ft	Starting Water Column, ft	Model-Simulated 10-Yr Drawdown, ft	Water Column After 10 Years, ft	Percent Water Column Remaining After 10 Years	Model-Simulated 40-Yr Drawdown, ft	Water Column After 40 Years, ft	Percent Water Column Remaining After 40 Years	Land Surface Elevation, ft amsl	Moni-toring Area	Other IDs
RG-28064 X-2	STEVEN H. TREMPER,		Hilltop	NEIKRUG, MARC AND DOLLY L	59 ESTRADA MAYA	T18N R 9E S32 15.00 AC, LOT 99 LA TIERRA PHASE 3	COUNTY PLAT	409088	3956910	18N.09E.32.222	DOM	3	2/16/1977	727	498.0	229.0	5.1	223.9	98	11.2	217.8	95	6863	BMP	
RG-28064 X-3	STEVEN H. TREMPER,		La Tierra 32-T-4	PHINNEY, ROBERT T & MARGARET	124 ESTRADA REDONDA	T18N R 9E S32 12.25 AC, LOT 93 LA TIERRA S/D, (OLD PHASE 3),	COUNTY PLAT	408163	3956965	18N.09E.32.11	DOM	3	1/12/1977	790	513.0	277.0	9.1	267.9	97	18.2	258.8	93	6750	BMP	
RG-28112	HENRY SANDMEIER, Paul B. Schmidt and Elise Wheless Schmidt					Lot 47, La Tierra		406645	3954327		DOM	3	2/2/1977	701	549.0	152.0	13.5	138.5	91	24.4	127.6	84	6747	BMP	
RG-28299	WILLIS A. SEYFFERT,		La Tierra 32-T-3					409347	3956949	18N.09E.32.22	DOM	3	3/4/1977	765	368.7	396.3	5.1	391.2	99	11.2	385.1	97	6816	BMP	
RG-28345	ROBERT GILL,			GILL, ROBERT I & CHERYL L	11 E ESTRADA CALABASA	LOT 13 LA TIERRA PHASE 1, T17N R 9E S31	COUNTY PLAT	406825	3956116	18N.09E.31.323	DOM	3	3/19/1977	618	522.0	96.0	17.7	78.3	82	30.4	65.6	68		BMP	
RG-29191	SANDRA LAUDEDALE GRAHAM,			GRAHAM, THOMAS R & SANDRA L	15 VUELTA SABIO	LOT 51 LA TIERRA PHASE 2, SEC 6 T17N R9E 10.578 AC	COUNTY PLAT	406386	3954945	17N.09E.6.133	DOM	3	8/17/1977	700	530.0	170.0	17.7	152.3	90	30.4	139.6	82	6654	BMP	
RG-29356	DENNIS R. COOPER,			LICATA, WILLIAM M & CATHERINE	20 LOS PRADOS	T17N R 9E S 8 TR 1-A-2 1.0 AC, PLAT BK 225 PG 037	COUNTY PLAT	409205	3953067	17N.09E.8.421	DOM	3	1/23/1978	730	556.8	173.3	4.4	168.9	97	9.7	163.5	94	6881	BMP	
RG-29359	CROCKER EDWARD E. JR.,			CROMWELL, FLORENCE C &	16 VUELTA LINDA	T18N R 9E S32 10.31 AC, LOT 111 LA TIERRA PHASE 3	COUNTY PLAT	408731	3956429	18N.09E.32.	DOM	3	7/3/1979	715	603.0	112.0	9.1	102.9	92	18.2	93.8	84	6819	BMP	
RG-29524	BARBARA VIGIL,		Las Dos #1	MOONEY, HELEN W	45 MAMIES MILE	LOT 21 LAS DOS PHASE 1, T18N R 9E S30 12.224 AC	COUNTY PLAT	407663	3958060	18N.09E.30.424	DOM	3	10/24/1977	768	389.2	378.8	7.8	371.0	98	16.4	362.4	96	6612	BMP	
RG-29546	BERGERE KENNEY,		Los Dos #2					407940	3960307	18N.09E.19.22	NOT	0	11/3/1977	773	434.3	338.7	6.2	332.4	98	13.9	324.7	96	6674	BMP	
RG-29550	KENNETH N. & WYONA T. JOY							397154	3964185	18N.08E.6.3	DOM	3	10/26/1977	675	535.0	140.0	52.2	87.8	63	66.1	73.9	53	5791	BMP	
RG-29723	U.S. FOREST SERVICE, US Soil Conservation Service		700 Ft Well					398694	3954689	17N.08E.5.3	STK	2	1/1/1940	693	671.4	21.6	33.4	-11.9	-55	53.0	-31.4	-146	6486	BMP	
RG-29725	US FOREST SERVICE, US Soil Conservation Service		USFS Headquarters Well					400842	3949932	17N.08E.21.41	STK	2	1/1/1940	350	311.0	39.0	8.9	30.1	77	18.0	21.0	54	6442	BMP	
RG-30162	TODD BAILEY,			BAILEY, TODD J	124 ARROYO CALABASAS RD	T17N R 9E S18 2.5 AC TR 2,	COUNTY PLAT	406269	3951851	17N.09E.18.131	MUL	3	5/29/1978	725	500.0	225.0	8.9	216.1	96	17.4	207.6	92		BMP	
RG-30269	KIRSTIN MCMULLEN,			GALLANT, DANNY & MARCE MILLER	52 CAMINO DOS PERROS	T17N R 9E S18 LOT 3-B 5.0 AC, (OLD TR 3)	COUNTY PLAT	407048	3951873	17N.09E.18.124	MUL	3	4/20/1978	556	475.0	81.0	8.9	72.1	89	17.4	63.6	79		BMP	
RG-30777	BOB WELL,	Tom and Andrea Bernstein	Bernstein, La Tierra Lot 71; IV-1	BERNSTEIN, TOM A & ANDREA E	159 Longhorn Lane	LOT 46 TIERRA NUEVA, T17N R 8E S 2 17.385 AC	COUNTY PLAT, 9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	403595	3955119	17N.08E.36.23	OBS	3	7/15/1978	663	543.1	119.9	81.4	38.5	32	102.9	17.0	14	6550	BMP	
RG-31284	SUZANNE HOYT GARCIA, TRUSTEE,			HOYT, SUZANNE & LINDA WEIL	127 W ESTRADA CALABASA	T18N R 8E S36 1074.650 AC N2 &, PORT S2 RANCH & HEADQTRS, LIVESTOCK ON ACCT 970001777,	COUNTY PLAT	405804	3957152	18N.08E.36.212	DOM	3	10/30/1978	815	515.0	300.0	31.5	268.5	89	49.4	250.6	84	6660	BMP	
RG-31487 EXPL	BOB WEIL, RICHARD CARLYON		La Tierra Lot 16; IV-2	STATE OF NEW MEXICO	STATE PROPERTY	LOT 1 LA TIERRA NUEVA, 10.432 AC T17N R 8E S 1	COUNTY PLAT	405575	3954126	17N.08E.1.433	DOM	3	10/20/1978	785	529.0	256.0	23.5	232.5	91	37.9	218.1	85	6677	BMP	
RG-31845	HIROSHI AND NANCY MURATA,			NOVBAKHTIAN, ABDOLREZA, MASOUD	82 PASEO DE LA TIERRA	LOT 5 LA TIERRA S/D PH 1, T17N R9E S 6	COUNTY PLAT	407082	3954847	17N.09E.6.	DOM	3	4/23/1979	700	580.0	120.0	17.7	102.3	85	30.4	89.6	75	6683	BMP	
RG-31977	BILLY W. ROYBAL,							401605	3970215	19N.08E.	IRR	12	12/20/1979	300	75.0	225.0	4.4	220.6	98	9.1	215.9	96		BMP?	
RG-32871	MARK JONES, Paul B. Schmidt and Elise Wheless Schmidt					Lot 40, La Tierra		406879	3954516		DOM	3	7/19/1979	700	580.0	120.0	13.5	106.5	89	24.4	95.6	80		BMP	
RG-33170	JOHN O. ZINN, Elise Wheless			WHELESS, ELISE	37 VUELTA TOMAS	LOT 46 LA TIERRA PHASE 2, T17N R 9E S 6 11.890 AC	COUNTY PLAT	406489	3954272		DOM	3	9/15/1979	680	540.0	140.0	13.5	126.5	90	24.4	115.6	83		BMP	
RG-33382 EXPL1	RICHARD M. HAGER, ANNIE CONSTANT			NORTHWEST RANCHES LLC	28 CAMINO LOS SUENOS	T17N R 9E S19 2.500 AC, LOT 4	COUNTY PLAT	406448	3950465	17N.09E.19.11	DOM	3	9/8/1979	640	520.0	120.0	5.6	114.4	95	11.8	108.2	90		BMP	
RG-33451	LEONARD E. SHULMAN, M.D.,			KENNEY, NANCY BERGERE & ELLEN,		T18N R 9E S19 62.525 AC, LOT A-2, N2, SW4, SW4 SW4,	COUNTY PLAT	407031	3958929	18N.09E.19.344	DOM	3	10/30/1979	450	200.0	250.0	13.5	236.5	95	25.8	224.2	90		BMP	
RG-33833	BURTON AND PAULA GEYER	Burton L. and Paula Geyer			21 Goodnight Trail West	Lot 19 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	405209	3954630		DOM	3	3/13/1980	700	580.0	120.0	23.5	96.5	80	37.9	82.1	68		BMP	
RG-34804	MARIAM BROWNE,			LEBLANC, STEVEN R & ELLEN A		T16N R10E S21, 30.627 AC	COUNTY PLAT	407399	3951520	17N.09E.18.412	MUL	3	10/3/1980	400	60.0	340.0	8.9	331.1	97	17.4	322.6	95		BMP	
RG-35350	JOACHIM T. WIRTH,			GEORGE, JAMES S & BARBARA	86 PASEO DE LA TIERRA	LOT 6 LA TIERRA PHASE 1, T17N R 9E S 6	COUNTY PLAT	406982	3955141	17N.09E.6.142	PDM	3	12/2/1980	720	375.0	345.0	17.7	327.3	95	30.4	314.6	91		BMP	

Appendix B. Buckman Monitoring Area Well and Well Permit Survey

(gray highlight = well location verified with site-specific data)

NMOSE Well ID	Well Owner(s) listed in NMOSE Database	Confirmed Well Owner	Other Well Names	Parcel Owner Listed in County Parcel Database	Street Address	Lot Description	Address Source	UTM Easting, m, NAD83	UTM Northing, m, NAD83	NMOSE T.R.Sec.qqq	Use	Diver -sion, ac-ft/yr	Drilling Date	Well Depth, ft	Depth to Water, ft	Starting Water Column, ft	Model-Simulated 10-Yr Drawdown, ft	Water Column After 10 Years, ft	Percent Water Column Remaining After 10 Years	Model-Simulated 40-Yr Drawdown, ft	Water Column After 40 Years, ft	Percent Water Column Remaining After 40 Years	Land Surface Elevation, ft amsl	Moni-toring Area	Other IDs
RG-35630	JAMES H. WHEELOCK,			HANDELSMAN, STUART	31 VISTA CALABASAS	T17N R 9E S18 5.037 AC TR A, HANSEN & ZILECEA SURVEY	COUNTY PLAT	406749	3952121	17N.09E.18.123	DOM	3	5/12/1986	605	455.0	150.0	8.9	141.1	94	17.4	132.6	88		BMP	
RG-35802	YARKO KOZIY,							395871	3958899	17N.09E.18.233	DOM	3	3/24/1981	720	600.0	120.0	20.5	99.5	83	35.8	84.2	70		BMP	
RG-36031	DAVID GARRISON,			GARRISON, DAVID	138 ESTRADA REDONDA	T18N R 9E S32 16.63 AC, LOT 91 LA TIERRA PHASE 3	COUNTY PLAT	408142	3956772	18N.09E.32.	DOM	3	4/27/1981	700	620.0	80.0	9.1	70.9	89	18.2	61.8	77		BMP	
RG-37078 CLW	BOB WEIL, ROLAND BETTS	Roland and Lois Betts			6 Headquarters Trail	Lot 2 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	405591	3954061	17N.08E.1.413	DOM	0	12/15/1993	755	580.0	175.0	23.5	151.5	87	37.9	137.1	78	6693	BMP	
RG-37113	EUGENE E., TRUSTEE BECK,			LINCOLN, CYNTHIA H TRUST		LOT 76 LA TIERRA NUEVA, T17N R 8E S 1	COUNTY PLAT	405476	3954840	17N.08E.1.	DOM	3	11/25/1981	700	527.0	173.0	36.2	136.8	79	53.6	119.4	69	6668	BMP	
RG-37164	ROBERT MARCUS,		Mountain Vista	ROUNSVILLE, WILLIAM J	82 PASEO DE LA TIERRA	T17N R 9E S5 184.91 AC, TRACT A, LIVESTOCK ON ACCT 970001905,	COUNTY PLAT	408098	3955429	17N.09E.5.11	DOM	3	12/1/1981	950	604.7	345.3	9.2	336.1	97	18.0	327.3	95	6919	BMP	
RG-37582	GLORIA GAUGHAN,							399421	3950816	17N.09E.18.22	DOM	3	2/12/1982	700	550.0	150.0	8.9	141.1	94	18.0	132.0	88		BMP	
RG-37817	DAVID C NELSON,			GEORGE, JAMES S & BARBARA	86 PASEO DE LA TIERRA	LOT 6 LA TIERRA PHASE 1, T17N R 9E S 6	COUNTY PLAT	406685	3955076	17N.09E.6.	DOM	3	4/23/1982	720	600.0	120.0	17.7	102.3	85	30.4	89.6	75	6683	BMP	
RG-37879	MARCIA J. WILSON,			RIMBEAUX, B C	44 VALLECITO RD	LOT 17 VALLECITO DE LA TIERRA, T17N R 9E S18 2.97 AC	COUNTY PLAT	407450	3951838	17N.08E.17.443	DOM	3	6/1/1982	600	460.0	140.0	8.9	131.1	94	17.4	122.6	88		BMP	
RG-40491	FRANCIS MURPHY	Francis Michael Murphy and Joan-Ann Ryan-Murphy		MURPHY, FRANCIS M & JOAN ANN	34 CHISHOLM TRL	LOT 26 LA TIERRA NUEVA, T17N R 8E S 1 10.869 AC	COUNTY PLAT	404883	3954138		DOM	3	9/16/1983	730	590.0	140.0	23.5	116.5	83	37.9	102.1	73		BMP	
RG-40722	KATHLEEN MLOTOK,							403884	3956473	18N.08E.35.	DOM	3	9/9/1983	756	603.0	153.0	58.6	94.4	62	80.8	72.2	47		BMP	
RG-40978	COURTLANDT & KATRINA BARNES,			BARNES, COURTLANDT D & KATRINA	2 WILDFLOWER WAY	T17N R 9E S18 10 AC SE4 PORT,	COUNTY PLAT	407745	3951291	17N.09E.18.424	DOM	3	1/26/1984	720	600.0	120.0	3.8	116.2	97	8.6	111.4	93		BMP	
RG-41872	EDWARD E. JR. CROCKER,			NAVA, GREGORY	29 ESTRADA MAYA	T18N R 9E S32 10.89 AC, LOT 97 LA TIERRA PHASE 3	COUNTY PLAT	408842	3957099	18N.09E.32.211	DOM	3	2/19/1984	730	550.0	180.0	9.1	170.9	95	18.2	161.8	90	6783	BMP	
RG-42335	RANDLOW SMITH,			RIMBEAUX, B C	44 VALLECITO RD	LOT 17 VALLECITO DE LA TIERRA, T17N R 9E S18 2.97 AC	COUNTY PLAT	407450	3951838	17N.09E.1.332	DOM	3	8/7/1984	740	550.0	190.0	8.9	181.1	95	17.4	172.6	91		BMP	
RG-42618	CHARLES S. VON STADE	Eleanor T. and Charles S. von Stade			42 Chisholm Trail	Lot 28 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	404814	3954123		DOM	3	10/18/1984	605	520.0	85.0	23.5	61.5	72	37.9	47.1	55		BMP	
RG-46386	DANIEL FORMAN,			CITY OF SANTA FE	CITY PROPERTY	CITY PROPERTY, MAPPING PURPOSE ONLY	COUNTY PLAT	411114	3953865	17N.09E.18.414	DOM	3	10/16/1986	605	380.0	225.0	2.6	222.4	99	6.3	218.7	97		BMP	
RG-48491	DARLENE STREIT,	Michael and Tami Lang		LANG, MICHAEL S & TAMI	173 CHISHOLM TRL	LOT 49 LA TIERRA NUEVA, T17N R 8E S 2 15.425 AC	COUNTY PLAT	403827	3955337	17N.08E.2.121	DOM	3	11/24/1987	730	530.0	200.0	81.4	118.6	59	102.9	97.1	49	6564	BMP	
RG-48897	WLATER L. & EMILY C. MEAD,			MEAD, WALTER L JR & EMILY C	29 CALLE ADELINA	T18N R 9E S30 40 AC SE4-SW4, UND INTEREST	COUNTY PLAT	406915	3957423	18N.09E.30.34	DOM	3	4/11/1988	800	580.0	220.0	16.8	203.2	92	29.8	190.2	86	6638	BMP	
RG-48897 X2	WLATER L. & EMILY C. MEAD,			MEAD, WALTER L JR & EMILY C	29 CALLE ADELINA	T18N R 9E S30 40 AC SE4-SW4, UND INTEREST	COUNTY PLAT	407014	3957522	18N.09E.30.342	DOM	3	11/14/1996	760	422.0	338.0	16.8	321.2	95	29.8	308.2	91	6617	BMP	
RG-49717	GLORIA GAUGHAM,			CHRIST, RONALD TRUSTEE OF	40 CAMINO CIELO	T17N R 9E S18 2.907 AC, LOT 4-A CIELO AZUL	COUNTY PLAT	406273	3952251	17N.09E.18.	DOM	3	9/6/1988	700	600.0	100.0	8.9	91.1	91	17.4	82.6	83		BMP	
RG-49952	JOSEPH MORSE	Florence and Joseph Morse			25 Goodnight Trail	Lot 20, La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	405546	3954603		DOM	3	12/22/1988	710	540.0	170.0	23.5	146.5	86	37.9	132.1	78		BMP	
RG-50395	TAYLOR A DALE,			BRANCH, DENNIS R		T17N R 9E S18 17.400 AC TR D4, NW4	COUNTY PLAT	406939	3952352	17N.09E.18.112	DOM	3	3/12/1989	700	480.0	220.0	8.9	211.1	96	17.4	202.6	92		BMP	
RG-50735	EUGENE D HIGGINS,			SCULLIN, MARC & CYNTHIA	136 ARROYO CALABASAS RD	T17N R 9E S18 2.5 AC TR 1,	COUNTY PLAT	406269	3951935	17N.09E.18.11	MUL	3	5/11/1989	700	500.0	200.0	8.9	191.1	96	17.4	182.6	91	6644	BMP	
RG-50944	DENNIS & ELLEN SANDERS,			BT HOMES INC		T17N R 9E S12 252.0120 AC, TR 14 W OF TAOS HWY	COUNTY PLAT	414355	3953833	17N.09E.18.1	DOM	0	7/1/1989	700	580.0	120.0	1.0	119.0	99	2.9	117.1	98		BMP	
RG-51854	RAY WINN	William A. and Janet F. Moffett			44 Chisholm Trail	Lot 29 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	404642	3954152		DOM	3	2/15/1990	695	590.0	105.0	23.5	81.5	78	37.9	67.1	64		BMP	
RG-52506	WILLIAM AGNEW	Tucker Family Trust - Cecil R. Tucker/Janice W. Tucker			20 Goodnight Trail West		9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	405241	3954362		DOM	3	8/7/1990	730	627.0	103.0	23.5	79.5	77	37.9	65.1	63		BMP	

Appendix B. Buckman Monitoring Area Well and Well Permit Survey

(gray highlight = well location verified with site-specific data)

NMOSE Well ID	Well Owner(s) listed in NMOSE Database	Confirmed Well Owner	Other Well Names	Parcel Owner Listed in County Parcel Database	Street Address	Lot Description	Address Source	UTM Easting, m, NAD83	UTM Northing, m, NAD83	NMOSE T.R.Sec.qqq	Use	Diver -sion, ac-ft/yr	Drilling Date	Well Depth, ft	Depth to Water, ft	Starting Water Column, ft	Model-Simulated 10-Yr Drawdown, ft	Water Column After 10 Years, ft	Percent Water Column Remaining After 10 Years	Model-Simulated 40-Yr Drawdown, ft	Water Column After 40 Years, ft	Percent Water Column Remaining After 40 Years	Land Surface Elevation, ft amsl	Moni-toring Area	Other IDs
RG-52780 CLW	RICHARD BRENNER, VALLECITO HOMEOWNERS ASSOC		Vallecitos #1	LUDIN, FRITZ		T17N R 9E S18 10 AC NE4-SE4,	COUNTY PLAT	407446	3951438	17N.09E.18.412	DOM	3	12/23/1996	735	496.0	239.0	8.9	230.1	96	17.4	221.6	93	6718	BMP	
RG-52938	JACK & JUNE SMITH,			MILLER, MARK C	3 VUELTA LINDA	T18N R 9E S32 11.32 AC, LOT 107 LA TIERRA PHASE 3	COUNTY PLAT	408537	3956601	18N.09E.32.14	DOM	3	9/26/1990	1000	650.0	350.0	9.1	340.9	97	18.2	331.8	95	6802	BMP	
RG-53071	LEROY BACA,							400288	3949351	17N.08E.21.343	DOM	3	10/10/1990	440	261.0	179.0	5.0	174.0	97	11.2	167.8	94		BMP	
RG-53404	MARC NEIKRUG,			FISCHER, CYNTHIA F & KURT	17 SONRISA TRL	LOT 4 SONRISA S/D 5.010 AC, T17N R 9E S18	COUNTY PLAT	406265	3951450	17N.09E.18.311	MUL	3	7/10/1991	800	410.0	390.0	8.9	381.1	98	17.4	372.6	96		BMP	
RG-53581	PATRICIA & J. SIGMUND FORMAN,			LUDIN, FRITZ		T17N R 9E S18 10 AC NE4-SE4,	COUNTY PLAT	407446	3951438	17N.09E.18.412	MUL	3	6/14/1991	700	580.0	120.0	8.9	111.1	93	17.4	102.6	86		BMP	
RG-53658	BRIAN K. GONZALES,			BLOG, THOMAS M & ANNE E	43 VUELTA MARIA	LOT 24 LAS DOS PHASE 1, T18N R 9E S30 13.177 AC, PER DEATH CERT & ATTY R FOX,	COUNTY PLAT	407484	3957507	18N.09E.30.432	DOM	3	5/7/1991	720	520.0	200.0	9.1	190.9	95	18.2	181.8	91		BMP	
RG-53984	HERSCHEL COBB,			LOVE RANCH PARTNERS LLC		T17N R 9E S18, TR D, 20.00 AC,	COUNTY PLAT	407467	3951068	17N.09E.18.423	MUL	3	8/7/1991	735	500.0	235.0	3.8	231.2	98	8.6	226.4	96		BMP	
RG-53998	PETER GOODWIN,			LOVE RANCH PARTNERS LLC		T17N R 9E S18, TR D, 20.00 AC,	COUNTY PLAT	407467	3951068	17N.09E.18.423	MUL	3	7/15/1991	735	500.0	235.0	3.8	231.2	98	8.6	226.4	96		BMP	
RG-53999	ROBERT & CAROL CARUTHERS,			LOVE RANCH PARTNERS LLC		T17N R 9E S18, TR D, 20.00 AC,	COUNTY PLAT	407467	3951068	17N.09E.18.423	MUL	3	6/30/1991	700	500.0	200.0	3.8	196.2	98	8.6	191.4	96		BMP	
RG-54000	CANDIS NELSON,			LOVE RANCH PARTNERS LLC		T17N R 9E S18, TR D, 20.00 AC,	COUNTY PLAT	407467	3951068	17N.09E.18.423	MUL	3	7/9/1991	730	500.0	230.0	3.8	226.2	98	8.6	221.4	96		BMP	
RG-54001	B. C. RIMBEAUX,			LOVE RANCH PARTNERS LLC		T17N R 9E S18, TR D, 20.00 AC,	COUNTY PLAT	407467	3951068	17N.09E.18.423	MUL	3	9/5/1991	718	500.0	218.0	3.8	214.2	98	8.6	209.4	96		BMP	
RG-54066	JAMES KARP,	James and Arlene Karp		BERNSTEIN, TOM A & ANDREA E	11 Longhorn Lane	Lot 42 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	403672	3954737	17N.08E.2.142	DOM	3	7/31/1991	760	540.0	220.0	81.4	138.6	63	102.9	117.1	53	6549	BMP	
RG-54262	WELLS W. WHITNEY,	Philip Grasso			17 Longhorn Lane	Lot 41 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	403699	3954577	17N.08E.2.223	DOM	3	11/8/1991	755	535.0	220.0	37.0	183.0	83	54.5	165.5	75	6531	BMP	
RG-54319	JEROME MARSHAK,			KENNEY GRANDCHILDRENS	50 CALLE ADELINA	T18N R 9E S30 21.056 AC, TR D	COUNTY PLAT	406823	3958125	18N.09E.30.143	DOM	3	9/19/1991	715	560.0	155.0	13.5	141.5	91	25.8	129.2	83	6575	BMP	
RG-54395	CLAY BERGER,	John L. Babitt			38 Goodnight Trail	Lot 9 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	406245	3954574	17N.08E.1.421	DOM	3	9/25/1991	740	580.0	160.0	13.5	146.5	92	24.4	135.6	85	6646	BMP	
RG-54655	WILLIAM C. III HARKER,			ELTON, DEBBIE		T17N R 9E S18 5 AC LOT 4A, AS PER DEATH CERTIFICATE, #091019,	COUNTY PLAT	406979	3951747		MUL	3	12/23/1991	700	580.0	120.0	8.9	111.1	93	17.4	102.6	86	6681	BMP	
RG-54919	PING & DEBORAH LEE,			MURATA, HIROSHI & NANCY	22 VUELTA CHAMISA	LOT 8 LA TIERRA PHASE 1, T17N R 9E S 6	COUNTY PLAT	406788	3955542	17N.09E.6.121	DOM	3	3/8/1992	660	500.0	160.0	17.7	142.3	89	30.4	129.6	81	6622	BMP	
RG-54938	WILLIAM & JOANNA SEITZ,			MEAD, WALTER L JR & EMILY C	57 CALLE ADELINA	LOT B-3 45.458 AC, T18N R 9E S30	COUNTY PLAT	406616	3957928	18N.09E.30.312	DOM	3	3/7/1992	700	550.0	150.0	13.5	136.5	91	25.8	124.2	83	6555	BMP	
RG-55206	LA LUZ GROUP, LLC,							402036	3961412	18N.08E.15.143	DOM	0	9/28/1992	655	580.0	75.0	24.3	50.7	68	41.6	33.4	45	6394	BMP	
RG-55696 CLW	R. L. BURKE,			MCCURDY, RICHARD B TRUSTEE	60 E ESTRADA CALABASA	LOT 57 LA TIERRA S/D PH 2, T18N R 9E S31 10.992 AC	COUNTY PLAT	407825	3955729	18N.09E.31.444	DOM	0	4/14/1993	850	685.0	165.0	9.2	155.8	94	18.0	147.0	89	6727	BMP	
RG-55734	JILL & MITCHEL, PAUL NORTON,	Jill A. Norton			138 Chisholm Trail	Lot 44 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	403477	3954854	17N.08E.2.124	DOM	3	8/19/1992	740	500.0	240.0	81.4	158.6	66	102.9	137.1	57	6558	BMP	
RG-55885	CUSTOM PROPERTIES OF SANTA FE, JAMES D. WARREN	William L. Oliver, Jr., and Mary Lynn Oliver			54 Headquarters Trail	Lot 78 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	405763	3954711	17N.08E.1.233	DOM	3	8/25/1992	750	530.0	220.0	36.2	183.8	84	53.6	166.4	76	6622	BMP	
RG-56282	CLIFF WALBRIDGE,	Donald and Karen Berlanti Revocable Trust		BERLANTI, DONALD V & KAREN L	171 HEADQUARTERS TRL	LOT 69 LA TIERRA NUEVA, T17N R 8E S 1 27.273 AC	COUNTY PLAT	405170	3955316	17N.08E.1.123	DOM	3	12/18/1992	700	520.0	180.0	36.2	143.8	80	53.6	126.4	70	6620	BMP	
RG-56667	DON & DEBBIE WOODIN,			LOVE RANCH PARTNERS LLC		T17N R 9E S18, TR C, 20.20 AC,	COUNTY PLAT	407065	3951041	17N.09E.18.431	MUL	3	4/3/1993	725	630.0	95.0	5.6	89.4	94	11.8	83.2	88		BMP	
RG-56804	MYRON G. RIGHTMAN,							408252	3958516	18N.09E.29.114	DOM	3	3/3/1993	705	420.0	285.0	7.8	277.2	97	16.4	268.6	94		BMP	
RG-56880	PRICILLA TEMPLE,			UNFRIED, CHARLES O JR & NANCY	17 VUELTA YUCCA	T18N R 9E S32 13.30 AC, LOT 79 LA TIERRA PHASE 3	COUNTY PLAT	408027	3955725	18N.09E.32.333	DOM	3	3/12/1993	755	578.0	177.0	9.2	167.8	95	18.0	159.0	90	6766	BMP	
RG-57586	JAIME TRUJILLO,							408250	3951460	17N.09E.17.134	MUL	3	7/1/1993	700	500.0	200.0	5.6	194.4	97	11.8	188.2	94		BMP	
RG-57619	ERIC A. SAMLER,			WAGNER, LINDA J	34 RABBITBRUSH	LOT 11 LA VIDA S/D 2.012 AC, T17N R 9E S19	COUNTY PLAT	407031	3950240	17N.09E.19.124	MUL	3	2/18/1994	643	481.0	162.0	5.6	156.4	97	11.8	150.2	93		BMP	
RG-57851	SUSAN GARDNER, Trujillo		Guesthouse	TRUJILLO, RICARDO B	16 CAMINO LADERA	T17N R 9E S 5 LOT 1-D 5.060 AC,	COUNTY PLAT	409294	3955311	17N.09E.5.412	DOM	3	9/29/1993	864	520.0	344.0	5.0	339.0	99	11.0	333.0	97	6863	BMP	

Appendix B. Buckman Monitoring Area Well and Well Permit Survey

(gray highlight = well location verified with site-specific data)

NMOSE Well ID	Well Owner(s) listed in NMOSE Database	Confirmed Well Owner	Other Well Names	Parcel Owner Listed in County Parcel Database	Street Address	Lot Description	Address Source	UTM Easting, m, NAD83	UTM Northing, m, NAD83	NMOSE T.R.Sec.qqq	Use	Diver -sion, ac-ft/yr	Drilling Date	Well Depth, ft	Depth to Water, ft	Starting Water Column, ft	Model-Simulated 10-Yr Drawdown, ft	Water Column After 10 Years, ft	Percent Water Column Remaining After 10 Years	Model-Simulated 40-Yr Drawdown, ft	Water Column After 40 Years, ft	Percent Water Column Remaining After 40 Years	Land Surface Elevation, ft amsl	Moni-toring Area	Other IDs
RG-57909 EXPL	PETER ORDWAY,							407646	3956147	18N.09E.31.423	DOM	0	8/10/1993	900	550.0	350.0	9.2	340.8	97	18.0	332.0	95	6729	BMP	
RG-57968	SARA VACHA,			SCHNEIDER, DAVID J &	16 CAMINO CALABASAS	T17N R 9E S18 LOT 1 2.50 AC,	COUNTY PLAT	407856	3952235	17N.09E.18.222	DOM	3	8/21/1993	700	540.0	160.0	5.6	154.4	97	11.8	148.2	93		BMP	
RG-58366	HACIENDA DEL CEREZO LTD.,		HDC1	HACIENDA DEL CEREZO LTD		T18N R 9E S 1 NW4-SW4-S2, SW4-, N2-NW4 & LOT 6, T18N R 9E S18 217.113 AC,	COUNTY PLAT	406473	3960061	18N.09E.19.113	SAN	3	1/6/1994	945	396.0	549.0	10.2	538.8	98	21.1	527.9	96	6551	BMP	
RG-58534	CARRIE LEE KAYE,			ROSENZWOG, JANET		LOT 16 VALLECITO DE LA TIERRA, T17N R 9E S18	COUNTY PLAT	407475	3951869	17N.09E.18.223	DOM	0		800	500.0	300.0	5.6	294.4	98	11.8	288.2	96		BMP	
RG-59101	DAVID C. ZERBST,			GRANT, PETER A & JOAN C		T17N R 9E S18 5.0765 AC, LOT A-4	COUNTY PLAT	407454	3952239	17N.09E.18.212	MUL	3	3/16/1994	750	445.0	305.0	8.9	296.1	97	17.4	287.6	94		BMP	
RG-59195	MICHAEL HURLOCKER,		Los Suenos Expl	JANS, NEIL A & IRENE L	10 E CLOUD MARCH	T17N R 8E S13 2.727 AC, LOS SUENOS S/D LOT 8	COUNTY PLAT	406047	3951057	17N.08E.13.441	MUL	3	3/25/1994	845	448.7	396.3	5.6	390.7	99	11.8	384.5	97	6661	BMP	
RG-59213	MICHAEL & BARBARA OGG,	Barbara and Michael J. Ogg		OGG, MICHAEL J & BARBARA DOROB	209 HEADQUARTERS TRL	LOT 66 LA TIERRA NUEVA, T17N R 8E S 2 17.704 AC	COUNTY PLAT	404678	3955430	17N.08E.2.222	DOM	3	4/6/1994	750	500.0	250.0	36.2	213.8	86	53.6	196.4	79	6508	BMP	
RG-59386	GABRIELLE BURKE,							405044	3961179	18N.08E.13.312	DOM	0	1/15/1995	905	480.0	425.0	11.6	413.4	97	24.0	401.0	94	6516	BMP	
RG-59388	ROBERT & NANCY LEHRER,	Robert and Nancy Lehrer		LEHRER, ROBERT M & NANCY M	240 HEADQUARTERS TRL	LOT 61 LA TIERRA NUEVA, T17N R 8E S 2 12.643 AC	COUNTY PLAT	404339	3954999	17N.08E.2.222	DOM	3	4/15/1994	800	505.0	295.0	36.2	258.8	88	53.6	241.4	82	6508	BMP	
RG-59728	HELEN LOUISE SWANKY,			JACOBS, LAURENCE S & KATHERINE	60 LA SERENA TRL	T17N R 9E S19 2.992 AC, LOT 9 LA SERENA S/D	COUNTY PLAT	407035	3950641	17N.09E.18.34	DOM	0	5/4/1994	855	485.0	370.0	5.6	364.4	98	11.8	358.2	97		BMP	
RG-59973	LOUIS & BARBARA SKLAR,	Louis S. and Barbara Sklar			19 Brahma Ln	Lot 60 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	404788	3955019	17N.08E.2.122	DOM	3	8/10/1994	750	540.0	210.0	36.2	173.8	83	53.6	156.4	74	6511	BMP	
RG-60104	LEONARD & BARBARA RAND THE RAN,	Len and Barbara Rand		RAND, LEONARD M & BARBARA E	111 HEADQUARTERS TRL	LOT 73 LA TIERRA NUEVA S/D, T17N R 8E S 1	COUNTY PLAT	405218	3955382	17N.08E.1.142	DOM	3	1/20/1995	760	580.0	180.0	36.2	143.8	80	53.6	126.4	70	6641	BMP	
RG-60135	RICHARD FALLOWS,			MOTODA, DARYL M & JEANETTE W	5 TERARY CT	T17N R 8E S13 4.001 AC, LOT 5 EL PRADO S/D	COUNTY PLAT	406154	3952301	17N.08E.13.222	MUL	3	8/30/1994	800	465.0	335.0	8.9	326.1	97	17.4	317.6	95	6690	BMP	
RG-60136	RICHARD FALLOWS,		El Prado Test Well	MARX, JAMES F &	10 LUPINE CT	T17N R 8E S13 4.081 AC, LOT 4 EL PRADO S/D	COUNTY PLAT	406139	3952312	17N.08E.13.242	MUL	3	8/21/1994	810	488.8	321.2	8.9	312.3	97	17.4	303.9	95	6680	BMP	
RG-60137	RICHARD FALLOWS,		El Prado ELP2	MOTODA, DARYL M & JEANETTE W	5 TERARY CT	T17N R 8E S13 4.001 AC, LOT 5 EL PRADO S/D	COUNTY PLAT	406179	3952187	17N.08E.13.224	MUL	3	8/26/1994	830	481.8	348.2	8.9	339.3	97	17.4	330.9	95	6686	BMP	
RG-60138	RICHARD FALLOWS,		El Prado ELP3	MARCELLUS, GARY W & LINDA	35 COPPERMALLOW RD	T17N R 8E S13 4.292 AC, LOT 11 EL PRADO S/D	COUNTY PLAT	406081	3951925	17N.08E.13.241	MUL	3	9/4/1994	820	448.2	371.8	8.9	362.9	98	17.4	354.4	95	6642	BMP	
RG-60404	SHERYL M LARNER,	Richard and Staci Smith			21 Chisholm Trail	Lot 25 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	404936	3954130	17N.08E.1.331	DOM	3	12/17/1994	760	580.0	180.0	23.5	156.5	87	37.9	142.1	79	6647	BMP	
RG-61535	WILLIAM & SHARON EKLUND,			EKLUND, WILLIAM A & SHARON R	48 PASEO DE LA TIERRA	LOT 3 LA TIERRA PHASE 1, T17N R 9E S 6	COUNTY PLAT	407174	3954334	17N.09E.6.431	DOM	0	10/26/1998	750	522.0	228.0	13.5	214.5	94	24.4	203.6	89	6742	BMP	
RG-61551	TOM BLOG,			MEAD, WALTER L JR & EMILY C	29 CALLE ADELINA	T18N R 9E S30 40 AC SE4-SW4, UND INTEREST	COUNTY PLAT	406814	3957522	18N.09E.30.341	DOM	3	2/11/1995	810	580.0	230.0	16.8	213.2	93	29.8	200.2	87	6617	BMP	
RG-61944	ROBERT T RITTER,	Robert and Connie Ritter			10 SHORTHORN LN	Lot 6 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	406049	3953948	17N.08E.12.121	DOM	3	3/25/1995	710	585.0	125.0	13.5	111.5	89	24.4	100.6	81	6625	BMP	
RG-62974	RICHARD S PODMORE,			MORO, RAYMOND & IRIS D	12 DEER CIR	LOT 269 LAS CAMPANAS ESTATES, II	COUNTY PLAT	407852	3951865	17N.09E.18.224	DOM	3	1/11/1996	800	460.0	340.0	5.6	334.4	98	11.8	328.2	97		BMP	
RG-63280	LAURA BETH CLAYTON,			COST, RICHARD & STACEY	19 VUELTA CHAMISA	LOT 10 LA TIERRA PHASE 1, T17N R 9E S 6	COUNTY PLAT	406988	3955542	17N.09E.6.122	DOM	3	10/4/1995	760	490.0	270.0	17.7	252.3	93	30.4	239.6	89	6691	BMP	
RG-64419	SYLVIA SWANSON,	E. Gifford Stack and Sylvia E. Swanson		SWANSON, SYLVIA E & E GIFFORD	97 CHISHOLM TRL	LOT 36 LA TIERRA NUEVA 1, T17N R 8E S 2, 10.030 AC,	COUNTY PLAT	404293	3954920	17N.08E.2.421	DOM	3	5/31/1996	740	500.0	240.0	36.2	203.8	85	53.6	186.4	78	6620	BMP	
RG-65175	GREGORY COLE,			MEAD, WALTER L JR & EMILY C	57 CALLE ADELINA	LOT B-3 45.458 AC, T18N R 9E S30	COUNTY PLAT	407019	3957723	18N.09E.30.324	MUL	3	8/22/1996	800	560.0	240.0	16.8	223.2	93	29.8	210.2	88	6602	BMP	
RG-65180	SUKI GROSECLOSE,	Everett and Susan Groseclose		GROSECLOSE, EVERETT H & SUSAN	57 E GOODNIGHT TRL	LOT 14 LA TIERRA NUEVA, T17N R 8E S 1, 13.942 AC,	COUNTY PLAT	406081	3954653	17N.08E.1.423	SAN	3	5/10/1996	756	530.0	226.0	13.5	212.5	94	24.4	201.6	89	6695	BMP	
RG-65244	MICHAEL LAWRENCE,			TARN, NATHANIEL R TRUSTEE	77 VUELTA MARIA	LOT 27 LAS DOS PHASE 1, T18N R 9E S29 10.856 AC	COUNTY PLAT	408245	3957711	18N.09E.29.314	DOM	3	10/22/1996	800	560.0	240.0	9.1	230.9	96	18.2	221.8	92	6709	BMP	
RG-65566	PHYLLIS L. NEWCOMER,	Dr. Phyllis L. Newcomer		NEWCOMER, PHYLLIS L	79 CHISHOLM TRL	LOT 33 LA TIERRA NUEVA S/D, T17N R 8E S 2, 10.794 AC,	COUNTY PLAT	404331	3955009	17N.08E.2.421	DOM	3	5/5/1998	765	542.0	223.0	36.2	186.8	84	53.6	169.4	76	6620	BMP	
RG-65584	CHARLES HARRISON,	Charles Harrison		HARRISON, CHARLES & RAWSON,	181 CHISHOLM TRL	LOT 51 LA TIERRA NUEVA, T17N R 8E S 2 14.399 AC	COUNTY PLAT	403243	3955504	17N.08E.2.112	DOM	3	8/17/1997	755	535.0	220.0	81.4	138.6	63	102.9	117.1	53	6499	BMP	

Appendix B. Buckman Monitoring Area Well and Well Permit Survey

(gray highlight = well location verified with site-specific data)

NMOSE Well ID	Well Owner(s) listed in NMOSE Database	Confirmed Well Owner	Other Well Names	Parcel Owner Listed in County Parcel Database	Street Address	Lot Description	Address Source	UTM Easting, m, NAD83	UTM Northing, m, NAD83	NMOSE T.R.Sec.qqq	Use	Diver -sion, ac-ft/yr	Drilling Date	Well Depth, ft	Depth to Water, ft	Starting Water Column, ft	Model-Simulated 10-Yr Drawdown, ft	Water Column After 10 Years, ft	Percent Water Column Remaining After 10 Years	Model-Simulated 40-Yr Drawdown, ft	Water Column After 40 Years, ft	Percent Water Column Remaining After 40 Years	Land Surface Elevation, ft amsl	Moni-toring Area	Other IDs
RG-66147	ELISE WHELESS,			WHELESS, ELISE	22 VUELTA SABIO	LOT 49 LA TIERRA PHASE 2, T17N R 9E S 6 12.814 AC	COUNTY PLAT	406478	3954618	17N.09E.6.314	DOM	3	1/22/1997	750	500.0	250.0	13.5	236.5	95	24.4	225.6	90	6702	BMP	
RG-66978	CITY OF SANTA FE/CIP,							403104	3949122	17N.08E.26.111	SAN	3	5/1/1997	890	240.0	650.0	5.3	644.7	99	11.2	638.8	98	6460	BMP	
RG-67134	DAVID KENNEY,			KENNEY, DAVID	146 CALLE JOSEPHINA	T18N R 9E S19 62.502 AC, TR C	COUNTY PLAT	407241	3959929	18N.09E.19.231	DOM	3	5/26/1999	270	60.0	210.0	10.2	199.8	95	21.1	188.9	90	6543	BMP	
RG-67485	LAWRENCE BURKE,		Mariah Ranch					405067	3962076	18N.08E.13.141	DOM	3	11/25/1997	880	420.0	460.0	11.6	448.4	97	24.0	436.0	95	6522	BMP	
RG-68309	DAN MCCOY,			LOGAN, STANLEY & MARJORIE	150 ESTRADA REDONDA	T18N R 9E S32 11.65 AC, LOT 89 LA TIERRA PHASE 3	COUNTY PLAT	408034	3956504	18N.09E.32.133	DOM	3	9/10/1997	700	550.0	150.0	9.1	140.9	94	18.2	131.8	88	6785	BMP	
RG-68712	DENNIS & MARLYS WHITE,			WHITE, MARLYS RUTH	48 E ESTRADA CALABASA	LOT 54 LA TIERRA PHASE 2, T18N R 9E S31 10.134 AC	COUNTY PLAT	407365	3955733	18N.09E.31.434	DOM	3	4/10/1998	740	520.0	220.0	17.7	202.3	92	30.4	189.6	86	6674	BMP	
RG-69121	GREGORY SWENDSEN,			BELL, SUSAN H	185 CALLE JOSEPHINA	T18N R 9E S19 12.50 AC, TR A-1	COUNTY PLAT	406438	3959936	18N.09E.19.131	DOM	3	6/8/1998	760	404.0	356.0	10.2	345.8	97	21.1	334.9	94	6551	BMP	
RG-69782	RICHARD & HELEN WOLFORD,	Richard and Helen Wolford			103 Chisholm Trail	Lot 37 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	404106	3955085	17N.08E.2.233	MUL	3	6/13/1998	785	572.0	213.0	81.4	131.6	62	102.9	110.1	52	6569	BMP	
RG-70634	STEPHEN KIRSCHENBAUM,		Hacienda del Cerezo HDC2	HACIENDA DEL CEREZO LTD		T18N R 9E S 1 NW4-SW4-S2, SW4-, N2-NW4 & LOT 6, T18N R 9E S18 217.113 AC,	COUNTY PLAT	406851	3960801	18N.09E.18.341	DOM	3	2/24/1999	800	426.0	374.0	10.2	363.8	97	21.1	352.9	94	6587	BMP	
RG-71056	SUSAN B. HADLEY,			VELTMANN, JOSEPH R JR	TANO RD	T17N R 9E S 5 5.02 AC LOT 1A,	COUNTY PLAT	409408	3954304	17N.09E.5.442	MUL	3	12/15/1998	923	660.0	263.0	4.4	258.6	98	9.7	253.3	96		BMP	
RG-71298	FRANK P.L. AND LYNNE S. MINAR,	Frank and Lynne Minard		MINARD, FRANK P L & LYNNE S	161 HEADQUARTERS TRL	LOT 70 LA TIERRA NUEVA, T17N R 8E S36 24.159 AC	COUNTY PLAT	405074	3955773	18N.08E.36.334	DOM	3	11/22/1993	700	580.0	120.0	36.2	83.8	70	53.6	66.4	55	6558	BMP	
RG-71558	GAIL & PATRICK CASEY,			FARLEY, TERRANCE C & JOAN C	23 VUELTA YUCCA	T18N R 9E S32 12.75 AC, LOT 81 LA TIERRA PHASE 3	COUNTY PLAT	408429	3955921	18N.09E.32.341	DOM	3	6/11/1999	800	515.0	285.0	9.2	275.8	97	18.0	267.0	94	6781	BMP	
RG-71583	JOYCE LIBUTTI,			HARRIS, JOHN G & M CHRISTINE	13 PASEO DEL PAJARO	T17N R 9E S 5 8.510 AC, TRACT B-3-D	COUNTY PLAT	408803	3954513	17N.09E.5.413	MUL	3	3/17/1999	853	440.0	413.0	7.6	405.4	98	15.4	397.6	96	6857	BMP	
RG-71688	STEPHEN A. GIBSON,			GARCIA, ANGEL E &	71 BLUESTEM DR	T17N R 9E S 8 2.052 AC, LOT 7 COLINAS VERDES	COUNTY PLAT	408702	3953859	17N.09E.8.21	DOM	3	3/28/1999	851	645.0	206.0	7.6	198.4	96	15.4	190.6	93		BMP	
RG-71728	WILLIAM BUCHANAN,	William Buchanan and Ellen Walton			135 Chisholm Trail	Lot 43 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	403821	3954959	17N.08E.2.141	DOM	3	4/21/1999	750	485.0	265.0	81.4	183.6	69	102.9	162.1	61	6526	BMP	
RG-71748	KING BROTHERS RANCH,		Rancho de los Ninos Expl	GONZALES, GEORGE A & CELINE V	57 CALLE HACIENDA	LOT 14 RANCHO DE LOS NINOS SD, T17N R 8E S23 2.500 AC	COUNTY PLAT	403911	3950729	17N.08E.23.21		0	4/13/1999	854	407.8	446.2	9.6	436.6	98	18.3	427.9	96	6575	BMP	
RG-71811	MICHAEL & LEE MORE,			MORE, J MICHAEL & LEE	52 E ESTRADA CALABASA	LOT 55 LA TIERRA PHASE 2, T18N R 9E S31 10.438 AC	COUNTY PLAT	407503	3955730	18N.09E.31.434	DOM	3	5/4/1999	760	465.0	295.0	9.2	285.8	97	18.0	277.0	94	6674	BMP	
RG-72263	JON WOLFE,							407827	3958118	18N.09E.30.244	DOM	3	7/31/1999	820	690.0	130.0	7.8	122.2	94	16.4	113.6	87	6615	BMP	
RG-72292	GEORGE GOZIGIAN,			GOZIGIAN, GEORGE & JEANNE T	30 E ESTRADA CALABASA	LOT 52 LA TIERRA PHASE 2, T18N R 9E S31 10.180 AC	COUNTY PLAT	407022	3955736	18N.09E.31.344	DOM	3	6/30/1999	750	610.0	140.0	17.7	122.3	87	30.4	109.6	78	6649	BMP	
RG-72317	KING BROTHERS RANCH,			GALLEGOS, FRANK & ELIZABETH	16 VIA DE ESTRELLAS	T17N R8E S23 2.500 AC, TRACT 4B-4B1	COUNTY PLAT	403214	3949828	17N.08E.23.31		3	9/28/1999	802	244.0	558.0	9.6	548.4	98	18.3	539.7	97	6526	BMP	
RG-72349	GERALD AND KATHLEEN PETERS,		Wilderness Estates	WILDERNESS ESTATES DEVELOPMENT		T17N R 8E S24 40.00 AC, NW1/4 SE1/4	COUNTY PLAT	405489	3949905	17N.08E.24.411	DOM	3	7/18/1999	740	404.2	335.8	7.8	328.0	98	15.4	320.4	95	6614	BMP	
RG-72551	TOBY LOVATO,							408275	3951460	17N.09E.17.143	DOM	3	11/26/1999	660	255.0	405.0	5.6	399.4	99	11.8	393.2	97		BMP	
RG-72697	PHILIP & BERNADETTE WIEGEL,			DAVIDSON, KENNETH J	157 VUELTA MARIA	LOT 31 LAS DOS PHASE 1, T18N R 9E S29 11.048 AC	COUNTY PLAT	408249	3958113	18N.09E.29.134	DOM	3	10/16/1999	780	400.0	380.0	7.8	372.2	98	16.4	363.6	96	6683	BMP	
RG-72765	MARIE A DUPREE,			WYSS, A WALTER		T17N R 9E S 5 5.19 AC TR B2C,	COUNTY PLAT	408903	3954208	17N.09E.5.43	DOM	3	2/20/2001	1000	660.0	340.0	7.6	332.4	98	15.4	324.6	95	6918	BMP	
RG-72864	FRANK GALLEGOS,			GALLEGOS, FRANK & ELIZABETH	16 VIA DE ESTRELLAS	T17N R8E S23 2.500 AC, TRACT 4B-4B1	COUNTY PLAT	403214	3949828	17N.08E.23.31	DOM	3	11/16/1999	600	396.0	204.0	9.6	194.4	95	18.3	185.7	91	6526	BMP	
RG-72865	ANDREW & LUCINDA LEYBA,			SISNEROS, DIEGO J & DORIN K	6 CAMINO DE REY CIR	T17N R 8E S23 & 26 2.500 AC, TRACT 4C-3	COUNTY PLAT	403151	3949549	17N.08E.23.31	DOM	3	9/30/1999	800	244.0	556.0	5.3	550.7	99	11.2	544.8	98	6498	BMP	
RG-72866	RICHARD AND STEPHNIE PATTERSON, Leyba		600	LEYBA, ANDREW M & LUCINDA M	7 CAMINO DE REY CIR	T17N R 8E S23 & 26 2.5104 AC, LOT 2	COUNTY PLAT	403236	3949568	17N.08E.23.313	DOM	3	4/16/2001	600	33.0	567.0	5.3	561.7	99	11.2	555.8	98	6522	BMP	
RG-73539	ANTHONY MARK,			TRUJILLO, RICARDO &	10 CAMINO LADERA	T17N R 9E S 5 2.523 AC, LOT 2-C-1	COUNTY PLAT	409409	3955317	17N.09E.5.224	DOM	3	10/7/2000	820	527.0	293.0	5.0	288.0	98	11.0	282.0	96	6846	BMP	
RG-73694	RICHARD ROGERS,			DIBACHI, FARZAD TRUSTEE	33 CAMINO MONTUOSO	LOT 75 LA TIERRA PHASE 2, T18N R 9E S31 50.169 AC	COUNTY PLAT	407630	3957111	18N.09E.31.221	DOM	3	6/28/2000	780	485.0	295.0	9.1	285.9	97	18.2	276.8	94	6694	BMP	
RG-74635	MARIA CRISTINA KENNEY,			KENNEY GRANDCHILDRENS	50 CALLE ADELINA	T18N R 9E S30 21.056 AC, TR D	COUNTY PLAT	406823	3958125	18N.09E.30.143	DOM	3	3/8/2003	780	452.0	328.0	13.5	314.5	96	25.8	302.2	92	6575	BMP	
RG-74646	MARTIN LUJAN,			KING BROTHERS RANCH	KING BROTHERS RANCH	T17N R8E S23 77.187 AC, TRACT 3	COUNTY PLAT	403118	3950329	17N.08E.23.131	MUL	3	9/2/2000	600	400.0	200.0	9.6	190.4	95	18.3	181.7	91	6519	BMP	

Appendix B. Buckman Monitoring Area Well and Well Permit Survey

(gray highlight = well location verified with site-specific data)

NMOSE Well ID	Well Owner(s) listed in NMOSE Database	Confirmed Well Owner	Other Well Names	Parcel Owner Listed in County Parcel Database	Street Address	Lot Description	Address Source	UTM Easting, m, NAD83	UTM Northing, m, NAD83	NMOSE T.R.Sec.qqq	Use	Diver -sion, ac-ft/yr	Drilling Date	Well Depth, ft	Depth to Water, ft	Starting Water Column, ft	Model-Simulated 10-Yr Drawdown, ft	Water Column After 10 Years, ft	Percent Water Column Remaining After 10 Years	Model-Simulated 40-Yr Drawdown, ft	Water Column After 40 Years, ft	Percent Water Column Remaining After 40 Years	Land Surface Elevation, ft amsl	Moni-toring Area	Other IDs
RG-74740	GLENN G ROYBAL,			MARES, ANTHONY & MERRILYN	11 AVENIDA DE MERCEDES	T17N R8E S23 2.520 AC, TRACT A-3	COUNTY PLAT	403109	3949325	17N.08E.23.333		0	9/26/2000	600	347.0	253.0	5.3	247.7	98	11.2	241.8	96	6486	BMP	
RG-74741	GLENN G ROYBAL,			COKER, ROBERT & BARBARA COHEN	3 AVENIDA DE MERCEDES	T17N R8E S23 2.520 AC, TRACT A-1	COUNTY PLAT	403117	3949436	17N.08E.23.331		0	9/21/2000	700	284.8	415.2	5.3	410.0	99	11.2	404.0	97	6502	BMP	
RG-74811	ELIZABETH GLASCOCK,	Frank Carter and Toquaiah Jackson		CARTER, FRANK C & TOQUAIAH	180 CHISHOLM TRL	LOT 50 LA TIERRA NUEVA, T17N R 8E S 2 14.846 AC	COUNTY PLAT	403610	3955520	17N.08E.2.111	DOM	3	1/8/2001	860	427.0	433.0	81.4	351.6	81	102.9	330.1	76	6522	BMP	
RG-74926	DEBORAH K. ROMERO, Borrego		Borrego	GONZALES, PATRICIO M &	5 CALLE QUERIDO	LOT 19 RANCHO DE LOS NINOS SD, T17N R 8E S23 2.500 AC	COUNTY PLAT	403984	3950389	17N.08E.23.232	MUL	3	12/8/2000	700	387.0	313.0	9.6	303.4	97	18.3	294.7	94	6566	BMP	
RG-75059	RONALD SCHNEIDER,			BOYD, BRIAN	7 CAMINO MONTUOSO	LOT 18 LA TIERRA PHASE 1, T17N R 9E S31	COUNTY PLAT	407233	3957115	18N.09E.31.211	DOM	3	5/3/2001	820	572.0	248.0	16.8	231.2	93	29.8	218.2	88	6627	BMP	
RG-75069	KENDERDINE CONSTRUCTION	Seymour Grufferman and Sue Kimm			14 Brahma Lane	Lot 57 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	404659	3954875			0	10/4/2001	735	500.0	235.0	36.2	198.8	85	53.6	181.4	77		BMP	
RG-75084	RICHARD A. GALAZ,			GALAZ, RICHARD A & MICHELLE Y	83 PASEO DE ESTRELLAS	LOT 7 RANCHO DE LOS NINOS SD, T17N R 8E S23 2.500 AC	COUNTY PLAT	404179	3950298	17N.08E.23.232	MUL	3	12/4/2000	700	390.0	310.0	9.6	300.4	97	18.3	291.7	94	6536	BMP	
RG-75096	TERRANCE C FARLEY,			FARLEY, TERRANCE C & JOAN C	23 VUELTA YUCCA	T18N R 9E S32 12.75 AC, LOT 81 LA TIERRA PHASE 3	COUNTY PLAT	408429	3955721	18N.09E.32.343	DOM	3	3/23/2001	780	520.0	260.0	9.2	250.8	96	18.0	242.0	93	6808	BMP	
RG-75172	RICHARD C STERTZ,			HUNTER, MICHAEL L & LORI A	22 PASEO DEL VENADO	T17N R 9E S 9 5.010 AC, LOT 4 TR A	COUNTY PLAT	409100	3953485	17N.09E.8.223	MUL	3	2/2/2001	820	609.0	211.0	4.4	206.6	98	9.7	201.3	95		BMP	
RG-75191	GILDA GLASSCOCK WILSON,							406586	3955145	17N.09E.6.132	MUL	3	2/13/2001	760	492.0	268.0	17.7	250.3	93	30.4	237.6	89	6620	BMP	
RG-75232 POD1	SUSAN SEIFERT,			SKY LIMIT LLC		T17N R 8E S23 4.780 AC, PARCEL B	COUNTY PLAT	403565	3950078	17N.08E.23.143	MUL	3	9/30/2002	700	364.0	336.0	9.6	326.4	97	18.3	317.7	95		BMP	
RG-75233 POD1	MICHAEL G MELLOS, APPR			MELLOS, MICHAEL G & CAROLYN O	10 HACIENDA CT	LOT 22 LA VILLA ESCONDIDA, T17N R 8E S23 3.140 AC	COUNTY PLAT	403798	3950154	17N.08E.23.144	MUL	3	5/8/2001	700	375.0	325.0	9.6	315.4	97	18.3	306.7	94		BMP	
RG-75234 POD1	MELISSA PESSARRA, APPR			STANFORD, ANTHONY & LORRAINE	6 HACIENDA CT	LOT 23 LA VILLA ESCONDIDA, T17N R 8E S23 3.090 AC	COUNTY PLAT	403701	3950128	17N.08E.23.143	MUL	3	11/11/2001	700	381.0	319.0	9.6	309.4	97	18.3	300.7	94		BMP	
RG-75236	CAJA DEL RIO, LLC,			BORREGO, ROBERT R & DEBORAH K	2 CALLE CURIOSO	LOT 17 RANCHO DE LOS NINOS SD, T17N R 8E S23 2.500 AC	COUNTY PLAT	404120	3950320	17N.08E.23.232		0	3/10/2001	700	387.0	313.0	9.6	303.4	97	18.3	294.7	94	6536	BMP	
RG-75454 POD1	ALFRED LOPEZ, VALERIE LOPEZ			STANFORD, ANTHONY & LORRAINE	6 HACIENDA CT	LOT 23 LA VILLA ESCONDIDA, T17N R 8E S23 3.090 AC	COUNTY PLAT	403650	3950173	17N.09E.17.113	MUL	3	3/6/2001	700	378.0	322.0	9.6	312.4	97	18.3	303.7	94		BMP	
RG-75455 POD1	GEORGE M COHEN,			BOB DIJANNI CUSTOM HOMES, INC	11 CALLE HACIENDA	L0T 3 LA VILLA ESCONDIDA, T17N R 8E S23 3.370 AC	COUNTY PLAT	403523	3950282	17N.09E.17.112	MUL	3	11/16/2001	700	391.0	309.0	9.6	299.4	97	18.3	290.7	94		BMP	
RG-75456	SKYLIMIT LLC,		Rancho de los Ninos	COHEN, GEORGE M & LINDA S	38 CALLE HACIENDA	LOT 12 LA VILLA ESCONDIDA, T17N R 8E S23 2.750 AC	COUNTY PLAT	403696	3950710	17N.09E.17.114		0	7/18/2001	700	294.7	405.3	9.6	395.7	98	18.3	387.0	95	6564	BMP	
RG-75553	CHAD SNOW,			SNOW, CHAD & RENAE	19 S VUELTA HERRADURA	T18N R 9E S32 14.49 AC, LOT 113 LA TIERRA PHASE 3	COUNTY PLAT	409031	3955722	18N.09E.32.434	DOM	3	4/25/2001	820	584.0	236.0	9.2	226.8	96	18.0	218.0	92	6907	BMP	
RG-75566	JAMES G. BATTERMANN, APPR			MONTOYA, MELISSA J		T17N R 9E S 5 5.05 AC, TR B-4-C	COUNTY PLAT	409003	3954713	17N.09E.5.412	MUL	3	3/8/2002	800	650.0	150.0	9.2	140.8	94	18.0	132.0	88	6863	BMP	
RG-75570	GLENN CONROY,			HACIENDA DEL CEREZO LTD		T18N R 9E S19 & 18 23.086 AC, 9OT 3	COUNTY PLAT	407044	3960134	18N.09E.19.124	DOM	3	3/12/2001	760	422.0	338.0	10.2	327.8	97	21.1	316.9	94	6531	BMP	
RG-75956	MICHAEL W. & MARCIA YOUNG,			MEAD, WALTER L JR & EMILY C	57 CALLE ADELINA	LOT B-3 45.458 AC, T18N R 9E S30	COUNTY PLAT	406616	3957728	18N.09E.30.314	DOM	3	7/17/2001	800	419.0	381.0	16.8	364.2	96	29.8	351.2	92	6572	BMP	
RG-76065	GREG STRATTON,			CRYSTAL INC		T17N R 9E S 5 113.52 AC, LOT 4	COUNTY PLAT	407992	3954926	17N.09E.5.133	MUL	3	8/3/2001	800	522.0	278.0	9.2	268.8	97	18.0	260.0	94	6761	BMP	
RG-76305	JOHN G HARRIS,			COIMBRA, CLIF & CHARAINE	3 LAS KATRINAS RD	T17N R 9E S 5 2.510 AC, TRACT 1D LOT 1	COUNTY PLAT	409408	3954915	17N.09E.5.244	DOM	3	10/18/2001	880	352.0	528.0	5.0	523.0	99	11.0	517.0	98		BMP	
RG-76696	DONALD L & BARBARA E SHIRES,			GALLEGOS, FRANK & ELIZABETH	16 VIA DE ESTRELLAS	T17N R8E S23 & 26 5.993 AC, TRACT 4B-4B2	COUNTY PLAT	403313	3949727	17N.08E.23.314	MUL	3	11/20/2001	560	395.0	165.0	5.3	159.7	97	11.2	153.8	93	6519	BMP	
RG-77195	GERALD A. BECKER,			DIBACHI, FARZAD TRUSTEE	33 CAMINO MONTUOSO	LOT 75 LA TIERRA PHASE 2, T18N R 9E S31 50.169 AC	COUNTY PLAT	407630	3956911	18N.09E.31.223	DOM	3	7/12/2002	805	465.0	340.0	9.1	330.9	97	18.2	321.8	95	6756	BMP	
RG-77258	THERESA MARTINEZ,							408250	3951460	17N.09E.17.134	DOM	3	5/15/2004	700	600.0	100.0	5.6	94.4	94	11.8	88.2	88		BMP	
RG-77426	RICHARD B MCCURDY,			MCCURDY, RICHARD B TRUSTEE	60 E ESTRADA CALABASA	LOT 57 LA TIERRA S/D PH 2, T18N R 9E S31 10.992 AC	COUNTY PLAT	407825	3955729	18N.09E.31.444		3	4/24/2002	800	508.0	292.0	9.2	282.8	97	18.0	274.0	94	6727	BMP	
RG-77553	CAROL METCHICK,	Robert Metchick	Shared Well 2		11 Sundance Drive	Block 1/Lot 12, Sundance Estates	John Miles Smith, 6/19/08 email	410418	3955100	17N.09E.4.231	MUL	3	5/10/2002	900	505.0	395.0	5.0	390.0	99	11.0	384.0	97	6972	TR	
RG-77563	MANANA LLC,			BRILLIANT, B KAY	41 CAMINO HASTA MANANA	T17N R 9E S 5 2.530 AC, LOT 1-B, TRACT A,	COUNTY PLAT	409408	3955115	17N.09E.5.242		0	8/30/2002	800	380.0	420.0	5.0	415.0	99	11.0	409.0	97	6881	BMP	
RG-77758	LETITIA A KRAKOWSKI,			MOTT, JOHN B & LETITIA A	24 VISTA CALABASAS	T17N R 9E S18 5.030 AC NW4, W/IN	COUNTY PLAT	406675	3952247	17N.09E.18.121	DOM	3	3/7/2003	800	224.0	576.0	8.9	567.1	98	17.4	558.6	97		BMP	

Appendix B. Buckman Monitoring Area Well and Well Permit Survey

(gray highlight = well location verified with site-specific data)

NMOSE Well ID	Well Owner(s) listed in NMOSE Database	Confirmed Well Owner	Other Well Names	Parcel Owner Listed in County Parcel Database	Street Address	Lot Description	Address Source	UTM Easting, m, NAD83	UTM Northing, m, NAD83	NMOSE T.R.Sec.qqq	Use	Diver -sion, ac-ft/yr	Drilling Date	Well Depth, ft	Depth to Water, ft	Starting Water Column, ft	Model-Simulated 10-Yr Drawdown, ft	Water Column After 10 Years, ft	Percent Water Column Remaining After 10 Years	Model-Simulated 40-Yr Drawdown, ft	Water Column After 40 Years, ft	Percent Water Column Remaining After 40 Years	Land Surface Elevation, ft amsl	Moni-toring Area	Other IDs
RG-77820	MARY LYNN OLIVER	William L. Oliver, Jr., and Mary Lynn Oliver		OLIVER, WILLIAM L & MARY LYNN	36 Headquarters Trail	LOT 17 LA TIERRA NUEVA, T17N R 8E S 1 11.0904 AC	COUNTY PLAT, 9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	405664	3954590		DOM	3	2/14/2003	780	456.0	324.0	23.5	300.5	93	37.9	286.1	88		BMP	
RG-77912	VICTOR BALLAS,			CONROY, GLENN C & JANE E	166 CALLE JOSEPHINA	T18N R 9E S19 12.50 AC, TR B-1	COUNTY PLAT	407040	3959933	18N.09E.19.142		0	10/16/2002	800	380.0	420.0	10.2	409.8	98	21.1	398.9	95	6542	BMP	
RG-78027	ADRIAN & KRISTIN GRIGGS,	Adrian Griggs and Kristin Martinez			56 Goodnight Trail	Lot 10 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	406232	3954594	17N.08E.1.241	DOM	3	1/3/2003	720	492.0	228.0	13.5	214.5	94	24.4	203.6	89	6614	BMP	
RG-78304	MONTOYA GRANDCHILDREN'S TRUST,			CRYSTAL INC		T17N R 9E S 5 113.52 AC, LOT 4	COUNTY PLAT	408192	3954926	17N.09E.5.134		3	9/15/2004	840	448.0	392.0	9.2	382.8	98	18.0	374.0	95	6798	BMP	
RG-78324	PATRICIA JOHNSTON,			FRANK YARDMAN CONSTRUCTION	110 PASEO DEL CONEJO	T17N R 9E S 5 2.50 AC, TR B-1-A LOT 3-B	COUNTY PLAT	407976	3955044	17N.09E.5.133	DOM	3	9/20/2004	840	462.0	378.0	9.2	368.8	98	18.0	360.0	95	6761	BMP	
RG-78325	MONTOYA GRANDCHILDREN'S TRUST,			ROUNSVILLE, WILLIAM J	28 CONEJO TRL	T17N R 9E S5 6.70 AC, LOT 2	COUNTY PLAT	408690	3955091	17N.09E.5.142		3	12/30/2002	900	535.0	365.0	9.2	355.8	97	18.0	347.0	95		BMP	
RG-78339	RUBEN ARCHULETA,			CRYSTAL INC		T17N R 9E S 5 113.52 AC, LOT 4	COUNTY PLAT	407982	3954124	17N.09E.5.333	DOM	3	1/8/2003	840	582.0	258.0	7.6	250.4	97	15.4	242.6	94	6818	BMP	
RG-78343	RUBEN ARCHULETA,			CRYSTAL INC		T17N R 9E S 5 113.52 AC, LOT 4	COUNTY PLAT	407982	3954124	17N.09E.5.333	DOM	3	9/13/2004	840	438.0	402.0	7.6	394.4	98	15.4	386.6	96	6818	BMP	
RG-78347	RICHARD A MONTOYA,			HUNTER, MICHAEL L & LORI A	22 PASEO DEL VENADO	T17N R 9E S 9 5.010 AC, LOT 4 TR A	COUNTY PLAT	409100	3953485	17N.09E.8.223		3	11/29/2002	800	520.0	280.0	4.4	275.6	98	9.7	270.3	97		BMP	
RG-78348	RUBEN ARCHULETA,			CRYSTAL INC		T17N R 9E S 5 113.52 AC, LOT 4	COUNTY PLAT	407982	3954124	17N.09E.5.333	DOM	3	10/11/2004	840	473.0	367.0	7.6	359.4	98	15.4	351.6	96	6818	BMP	
RG-78354	RUBEN ARCHULETA,			CRYSTAL INC		T17N R 9E S 5 113.52 AC, LOT 4	COUNTY PLAT	407982	3954124	17N.09E.5.333	DOM	3	12/30/2002	900	535.0	365.0	7.6	357.4	98	15.4	349.6	96	6818	BMP	
RG-78355	RUBEN ARCHULETA,			CRYSTAL INC		T17N R 9E S 5 113.52 AC, LOT 4	COUNTY PLAT	407982	3954124	17N.09E.5.333	DOM	3	9/24/2003	840	488.0	352.0	7.6	344.4	98	15.4	336.6	96	6818	BMP	
RG-78415	TIERRA ENTERPRISES LLC,			LARKIN, ROBERT J & BARBARA E	12 INDIGO CT	LOT 8 LA VIDA S/D 3.044 AC, T17N R 9E S19	COUNTY PLAT	407433	3950236	17N.09E.19.214		0	7/3/2003	663	486.0	177.0	5.6	171.4	97	11.8	165.2	93		BMP	
RG-78419	MICHAEL MAC CORQUODALE,			MOREAU, JOAN M	19 W ESTRADA CALABASA	LOT 31 LA TIERRA PHASE 1, T17N R 9E S31	COUNTY PLAT	406399	3956121	18N.09E.31.313	MUL	3	6/20/2003	820	478.0	342.0	17.7	324.3	95	30.4	311.6	91	6692	BMP	
RG-78879	CAROLE D PULLO,			PULLO, CAROLE D	6 PASEO DEL PALOMA	T17N R 9E S 5 2.590 AC, TRACT B-1-D, LOT 1,	COUNTY PLAT	409038	3954118	17N.09E.5.433	MUL	3	7/15/2005	780	575.0	205.0	7.6	197.4	96	15.4	189.6	93	6888	BMP	
RG-78889	STEPHEN ETRE,			WILLIAMS, MARK R & ORLY V	10 SIERRA LAVANDA	T17N R 9E S19 LOT 4-A-4 2.5AC,	COUNTY PLAT	407027	3949809	17N.09E.19.322	MUL	3	1/10/2003	760	423.0	337.0	3.4	333.6	99	7.9	329.1	98		BMP	
RG-78962	ROD HONSTEIN,			HONSTEIN, RODERICK N & ANNE W	46 PASEO DEL PAISANO	T17N R 9E S 5 5.06 AC TR B2B,	COUNTY PLAT	408925	3954349	17N.09E.5.431	DOM	3	4/5/2003	800	571.0	229.0	7.6	221.4	97	15.4	213.6	93	6871	BMP	
RG-79460	WALLACE WHITE JR,			CLIFTON, PERLA	16 PASEO DEL VENADO	T17N R 8E S 8 5.040 AC, LOT 4 TR B	COUNTY PLAT	409269	3953509		MUL	3	3/20/2003	800	486.0	314.0	4.4	309.6	99	9.7	304.3	97		BMP	
RG-79509	PAUL SCHMIDT,					Lot 41, La Tierra		406889	3954249	17N.09E.6.342		0	4/8/2003	800	456.0	344.0	13.5	330.5	96	24.4	319.6	93	6745	BMP	
RG-79511	ELISE W SCHMIDT,			WHELESS, ELISE	37 VUELTA TOMAS	LOT 46 LA TIERRA PHASE 2, T17N R 9E S 6 11.890 AC	COUNTY PLAT	406517	3954287	17N.09E.6.331		0	4/21/2003	800	442.0	358.0	13.5	344.5	96	24.4	333.6	93	6687	BMP	
RG-79512	ELISE W SCHMIDT,			SCHMIDT, ELISE WHELESS & PAUL	20 VUELTA SABIO	LOT 48 LA TIERRA PHASE 2, T17N R 9E S 6 14.815 AC	COUNTY PLAT	406749	3954427	17N.09E.6.312		0	4/14/2003	800	462.0	338.0	13.5	324.5	96	24.4	313.6	93	6718	BMP	
RG-79548	CAROL A JOHNSON,			BALANCE POINT ENTERPRISES	16 PASEO DEL CONEJO	T17N R 9E S 5, TR B-1-A2, 2.67 AC,	COUNTY PLAT	408802	3954107	17N.09E.5.433		3	2/21/2003	840	466.0	374.0	7.6	366.4	98	15.4	358.6	96	6888	BMP	
RG-79574	JAMES NICKELL,			STEWART TITLE GUARANTY CO	2 ESCOPETA CT	T17N R 9E S19 2.511 AC, LOT H-2	COUNTY PLAT	407437	3950606	17N.09E.19.212	MUL	3	5/19/2003	660	474.0	186.0	5.6	180.4	97	11.8	174.2	94		BMP	
RG-79603	CLINTON HORN,			WEATHERFORD, JANICE L &	60 TIERRA GRANDE	T17N R 9E S19 2.450 AC, LOT 15 TIERRA GRANDE S/D	COUNTY PLAT	406897	3949478	17N.09E.19.321	MUL	3	3/14/2003	665	460.0	205.0	3.4	201.6	98	7.9	197.1	96		BMP	
RG-80255	JONATHAN BEAMER,			BEAMER, JONATHAN & FRAN SALKIN		T17N R 9E S18 LOT 3-A 5.0 AC,	COUNTY PLAT	406983	3951951	17N.09E.18.142	DOM	3	11/15/2004	800	455.0	345.0	8.9	336.1	97	17.4	327.6	95	6670	BMP	
RG-80390	ABBIE BEN CORRIZ,			CORRIZ, ABBIE BEN	4654 SAN YSIDRO PL	T17N R 9E S32 2.50 AC, TR 8-A2	COUNTY PLAT	408153	3947295	17N.08E.23.144	MUL	3	7/14/2003	560	382.0	178.0	1.6	176.4	99	4.2	173.8	98	6539	BMP	
RG-80431	RON SMITH,			SUERTE DEL SUR, LLC	160 LOS SUENOS TRL	T17N R 9E S19 35.00 AC, LOT 2	COUNTY PLAT	406629	3950214	17N.09E.19.132	MUL	3	7/17/2003	560	385.0	175.0	5.6	169.4	97	11.8	163.2	93		BMP	
RG-80940	CYNTHIA FOWLER,			HOYT, SUZANNE & LINDA WEIL	127 W ESTRADA CALABASA	T18N R 8E S36 1074.650 AC N2 &, PORT S2 RANCH & HEADQTRS, LIVESTOCK ON ACCT 970001777,	COUNTY PLAT	405718	3956026		DOM	3	10/30/2005	692	352.0	340.0	36.2	303.8	89	53.6	286.4	84	6581	BMP	
RG-81036	GRANT HOLLAND,			BALANCE POINT ENTERPRISES	22 PASEO DEL CONEJO	T17N R 9E S 5, 2.50 AC, TR B-1-A1,	COUNTY PLAT	408763	3954148	17N.09E.5.433	MUL	3	4/2/2004	905	575.0	330.0	7.6	322.4	98	15.4	314.6	95	6888	BMP	
RG-81127	CALLE ALEGRE,							401299	3950384		MUL	3	8/13/2004	700	245.0	455.0	9.9	445.1	98	19.0	436.0	96	6417	BMP	
RG-81323	TIERRA DE LA VIDA LLC,			TIERRA DE LA VIDA, LLC	25 SENDERO DE LA VIDA	LOT 14 TIERRA DE LA VIDA, T17N R 9E S19 2.27 AC	COUNTY PLAT	406990	3949876	17N.09E.19.322	MUL	3	6/12/2004	760	435.0	325.0	5.6	319.4	98	11.8	313.2	96		BMP	

Appendix B. Buckman Monitoring Area Well and Well Permit Survey

(gray highlight = well location verified with site-specific data)

NMOSE Well ID	Well Owner(s) listed in NMOSE Database	Confirmed Well Owner	Other Well Names	Parcel Owner Listed in County Parcel Database	Street Address	Lot Description	Address Source	UTM Easting, m, NAD83	UTM Northing, m, NAD83	NMOSE T.R.Sec.qqq	Use	Diver -sion, ac-ft/yr	Drilling Date	Well Depth, ft	Depth to Water, ft	Starting Water Column, ft	Model-Simulated 10-Yr Drawdown, ft	Water Column After 10 Years, ft	Percent Water Column Remaining After 10 Years	Model-Simulated 40-Yr Drawdown, ft	Water Column After 40 Years, ft	Percent Water Column Remaining After 40 Years	Land Surface Elevation, ft amsl	Moni-toring Area	Other IDs
RG-81771	DEAN PRESTON,			WAGGONER, ALAN S & KAREN	11 PASEO DEL HALCON	T17N R 9E S 5 5.01 AC LOT 1C,	COUNTY PLAT	409208	3954304	17N.09E.5.441	DOM	3	4/16/2004	800	465.0	335.0	4.4	330.6	99	9.7	325.3	97	6926	BMP	
RG-81838	SUZANNE HOYT GARCIA REVOCABLE,			HOYT, SUZANNE & LINDA WEIL	127 W ESTRADA CALABASA	T18N R 8E S36 1074.650 AC N2 &, PORT S2 RANCH & HEADQTRS, LIVESTOCK ON ACCT 970001777,	COUNTY PLAT	405595	3956349	18N.08E.36.411	STK	3	10/8/2004	1100	550.0	550.0	31.5	518.5	94	49.4	500.6	91	6516	BMP	
RG-81854	SUZANNE H GARCIA IRREVOCABLE T,							401428	3961018	18N.08E.16.424		3	4/17/2004	910	724.0	186.0	35.6	150.4	81	55.7	130.3	70	6305	BMP	
RG-81860	SUZANNE HOYT GARCIA REVOCABLE,			HOYT, SUZANNE & LINDA WEIL	127 W ESTRADA CALABASA	T18N R 8E S36 1074.650 AC N2 &, PORT S2 RANCH & HEADQTRS, LIVESTOCK ON ACCT 970001777,	COUNTY PLAT	405416	3956671	18N.08E.36.134	STK	3	7/31/2004	695	398.9	296.1	31.5	264.6	89	49.4	246.7	83	6462	BMP	
RG-81861	SUZANNE HOYT GARCIA REVOCABLE,			HOYT, SUZANNE & LINDA WEIL	127 W ESTRADA CALABASA	T18N R 8E S36 1074.650 AC N2 &, PORT S2 RANCH & HEADQTRS, LIVESTOCK ON ACCT 970001777,	COUNTY PLAT	405388	3955950	18N.08E.36.342	STK	3	9/29/2004	850	460.0	390.0	36.2	353.8	91	53.6	336.4	86	6517	BMP	
RG-82184	JACQUES CONSTANT,		New	EBERSOLE, GARY E & KATHY F	CAMINO LOS SUENOS	T17N R 9E S19 2.50 AC, LOT 2-2 NORTHWEST RANCHES S/D, PHASE 1,	COUNTY PLAT	406339	3950675	17N.09E.19.321	MUL	3	5/14/2004	900	485.0	415.0	5.6	409.4	99	11.8	403.2	97	6690	BMP	
RG-82337	JIM MCELROY,			STERTZ, RICHARD C	25 PASEO DEL CONEJO	T17N R 9E S 5 2.880 AC, TR B-2-D LOT 1	COUNTY PLAT	408740	3954194		DOM	3	5/26/2004	840	432.0	408.0	7.6	400.4	98	15.4	392.6	96	6903	BMP	
RG-82398	HYDE PARK ASSOCIATES LLC,			LA VIDA DEVELOPMENT CORP		T17N R 9E S19 3.573 AC, OPEN SPACE LA VIDA S/D	COUNTY PLAT	407433	3950205	17N.09E.19.232	MUL	3	6/28/2004	660	486.0	174.0	5.6	168.4	97	11.8	162.2	93		BMP	
RG-82635	FRANK YARDMAN,			MARK, ANTHONY	8 CAMINO LADERA	T17N R 9E S 5 5.056 AC, LOT 2-D	COUNTY PLAT	409457	3955356	17N.09E.5.224	DOM	3	10/8/2004	840	465.0	375.0	5.0	370.0	99	11.0	364.0	97	6846	BMP	
RG-83022	RICHARD BARELA,			STERTZ, RICHARD & GINNIE	17 PASEO DEL VENADO	T17N R 9E S 8 5.00 AC, LOT 1 TR C	COUNTY PLAT	409208	3953726		DOM	3	6/29/2004	800	558.0	242.0	4.4	237.6	98	9.7	232.3	96		BMP	
RG-83025	KALOKO LAND CORPORATION,			STERTZ, RICHARD C & MARTHA V	10 VISTA DEL CIELO	LOT 11 LAS CORDILLERAS S/D, PHASE II 5.373 AC, T17N R 9E S 4 & 5,	COUNTY PLAT	409408	3954509	17N.09E.5.424		3	9/23/2005	860	569.0	291.0	4.4	286.6	98	9.7	281.3	97	6938	TR/BMP	
RG-83026	ERIC FREEMAN,			STERTZ, RICHARD C & MARTHA V	10 VISTA DEL CIELO	LOT 11 LAS CORDILLERAS S/D, PHASE II 5.373 AC, T17N R 9E S 4 & 5,	COUNTY PLAT	409408	3954509	17N.09E.5.424		3	9/8/2005	860	447.0	413.0	4.4	408.6	99	9.7	403.3	98	6938	TR/BMP	
RG-83027	KALOKO LAND CORPORATION,			FIRST NATIONAL BANK AS CUSTOD	33 PASEO DEL FONDO	LOT 18 LAS CORDILLERAS S/D, PHASE II 3.597 AC, T17N R 9E S 4 & 5,	COUNTY PLAT	409208	3954709	17N.09E.5.421		3	9/16/2005	860	484.0	376.0	5.0	371.0	99	11.0	365.0	97	6912	TR/BMP	
RG-83782	PRADEEP SAFAYA,			HAPKA, CATHERINE M &	79 HEADQUARTERS TRL	TOT 75 LA TIERRA NUEVA, T17N R 8E S 1	COUNTY PLAT	405381	3955135	17N.08E.1.142	DOM	3	2/10/2005	995	487.0	508.0	36.2	471.8	93	53.6	454.4	89	6641	BMP	
RG-83907	DARCY CRENSHAW,			COWLES, MACON	6 CAMINO CIELO	T17N R 9E S18 2.50 AC, LOT 5-B	COUNTY PLAT	406646	3951877	17N.09E.18.114	DOM	3	10/3/2005	680	476.0	204.0	8.9	195.1	96	17.4	186.6	91		BMP	
RG-83947	PETER DEUBER,							408777	3954335	17N.09E.5.431		0	4/6/2005	840	467.0	373.0	7.6	365.4	98	15.4	357.6	96	6871	BMP	
RG-83952	DIANE BARELA,			BANDARI, HENRIK & KIRKORIAN,	73 PASEO DEL CONEJO	T17N R 9E S 5 3.250 AC, TRACT B-2, LOT 1-B-2,	COUNTY PLAT	408645	3954903		DOM	3	11/5/2005	800	556.0	244.0	9.2	234.8	96	18.0	226.0	93	6800	BMP	
RG-84125	JOEL MCHORSE,			ARENA, DREW C & ELISE PINKOW	44 SONRISA TRL	T17N R 9E S18 23.982 AC, TRACT B	COUNTY PLAT	406830	3951348			3	12/2/2005	800	495.0	305.0	5.6	299.4	98	11.8	293.2	96	6722	BMP	
RG-84708	ROBERT ELLIG,			COYOTE CREEK CONSTRUCTION LLC	114 PASEO DEL CONEJO	T17N R 9E S 5 2.50 AC, TR B-1-A LOT 3-A	COUNTY PLAT	407992	3955126	17N.09E.5.131	DOM	3	7/31/2006	820	426.0	394.0	9.2	384.8	98	18.0	376.0	95	6757	BMP	
RG-84781	REGINA FLORES,			FLORES, RANDY & REGINA	6 VIA DE ESTRELLAS	T17N R8E S23 2.500 AC, TRACT 4B-4A-2A	COUNTY PLAT	403364	3949790	17N.08E.23.314	DOM	3	7/2/2005	580	375.0	205.0	5.3	199.7	97	11.2	193.8	95	6519	BMP	
RG-85496	RON WHITMORE,			MILLER, MARK C	3 VUELTA LINDA	T18N R 9E S32 11.32 AC, LOT 107 LA TIERRA PHASE 3	COUNTY PLAT	408636	3956500	18N.09E.32.144	DOM	3	2/11/2006	800	439.0	361.0	9.1	351.9	97	18.2	342.8	95	6820	BMP	
RG-85584	LEESA KEY,			MONTOYA, RICHARD TRUSTEE OF	TANO RD	T17N R 9E S 5 5.05 AC, TR B-4-A	COUNTY PLAT	408686	3954691	17N.09E.5.322	DOM	3	7/28/2005	840	477.0	363.0	9.2	353.8	97	18.0	345.0	95		BMP	
RG-85585	EDWARD KIRKORIAN,			CRYSTAL INC		T17N R 9E S 5 113.52 AC, LOT 4	COUNTY PLAT	407982	3954124	17N.09E.5.333	DOM	3	7/22/2005	840	448.0	392.0	7.6	384.4	98	15.4	376.6	96	6818	BMP	
RG-85662	KAREN J POWELL,			GREENBERG, MARK &	25 SONRISA TRL	LOT 2 SONRISA S/D 4.047 AC, T17N R 9E S18	COUNTY PLAT	406521	3951582	17N.09E.18.		3	1/27/2006	700	450.0	250.0	8.9	241.1	96	17.4	232.6	93	6647	BMP	
RG-86289	CHARLES UNFRIED,			TEMPLE, HUNTER M & PRISCILLA B	21 VUELTA YUCCA	T18N R 9E S32 11.59 AC, LOT 80 LA TIERRA PHASE 3	COUNTY PLAT	408227	3955725	18N.09E.32.334	DOM	3	2/4/2006	780	488.0	292.0	9.2	282.8	97	18.0	274.0	94	6796	BMP	
RG-86789	ANTHONY PADILLA,			BRILLIANT, B KAY	41 CAMINO HASTA MANANA	T17N R 9E S 5 2.530 AC, LOT 1-B, TRACT A,	COUNTY PLAT	409408	3955115	17N.09E.5.242	DOM	3	5/5/2006	800	517.0	283.0	5.0	278.0	98	11.0	272.0	96		BMP	
RG-87173	VINCENT STENERSON,			STENERSON, VINCENT &	40 CALLE JOSEPHINA	T18N R 9E S30 14.151 AC, LOT 2-C	COUNTY PLAT	407225	3958321	18N.09E.30.231	DOM	3	3/29/2007	750	395.0	355.0	13.5	341.5	96	25.8	329.2	93		BMP	
RG-87265	FARZAD DIBACHI,							407620	3956553	18N.09E.31.243	MUL	3	5/26/2006	800	532.0	268.0	9.1	258.9	97	18.2	249.8	93		BMP	
RG-87519	LANA PARK,			CRYSTAL INC		T17N R 9E S 5 113.52 AC, LOT 4	COUNTY PLAT	408293	3954725	17N.09E.5.221	DOM	1	12/23/2007	780	406.0	374.0	9.2	364.8	98	18.0	356.0	95		BMP	

Appendix B. Buckman Monitoring Area Well and Well Permit Survey

(gray highlight = well location verified with site-specific data)

NMOSE Well ID	Well Owner(s) listed in NMOSE Database	Confirmed Well Owner	Other Well Names	Parcel Owner Listed in County Parcel Database	Street Address	Lot Description	Address Source	UTM Easting, m, NAD83	UTM Northing, m, NAD83	NMOSE T.R.Sec.qqq	Use	Diver -sion, ac-ft/yr	Drilling Date	Well Depth, ft	Depth to Water, ft	Starting Water Column, ft	Model-Simulated 10-Yr Drawdown, ft	Water Column After 10 Years, ft	Percent Water Column Remaining After 10 Years	Model-Simulated 40-Yr Drawdown, ft	Water Column After 40 Years, ft	Percent Water Column Remaining After 40 Years	Land Surface Elevation, ft amsl	Moni-toring Area	Other IDs
RG-87734	THOMAS GONZALES,			KING BROTHERS RANCH	34 PASEO DE ESTRELLAS	T17N R 8E S23 13.287 AC, TRACT 5-1A	COUNTY PLAT	403515	3949722	17N.08E.23.323		0	6/20/2006	600	327.0	273.0	5.3	267.7	98	11.2	261.8	96		BMP	
RG-88268	THOMAS WEHNER,			CRYSTAL INC		T17N R 9E S 5 113.52 AC, LOT 4	COUNTY PLAT	408187	3954525	17N.09E.5.314	DOM	3	1/18/2007	840	505.0	335.0	7.6	327.4	98	15.4	319.6	95		BMP	
RG-88666	RAMON L ROMERO,			KING BROTHERS RANCH	KING BROTHERS RANCH	T17N R8E S23 77.187 AC, TRACT 3	COUNTY PLAT	403114	3950177	17N.08E.23.	DOM	1	4/9/2007	800	362.0	438.0	9.6	428.4	98	18.3	419.7	96		BMP	
RG-88950 POD1	JOSEPH D ALBILLAR,			BRANCH, DENNIS R		T17N R 9E S18 17.400 AC TR D4, NW4	COUNTY PLAT	406850	3952374	17N.09E.18.	DOM	1	4/11/2007	700	375.0	325.0	8.9	316.1	97	17.4	307.6	95		BMP	
RG-89138 POD1	MARK SPAULDING,			SPAULDING, MARK R	40 CALLE JOSEPHINA	T18N R 9E S30 15.103 AC, LOT 2-B	COUNTY PLAT	407121	3958483	18N.09E.30.124	DOM	1	5/25/2007	800	368.0	432.0	13.5	418.5	97	25.8	406.2	94		BMP	
RG-89212 POD1	DAVID ROBB,	William H. Moore		MOORE, WILLIAM H & DOROTHY B	178 CHISHOLM TRL	LOT 52 LA TIERRA NUEVA S/D, T17N R08E S2 17.936 AC	COUNTY PLAT	403225	3955515	17N.08E.2.113	DOM	1	9/5/1983	700	580.0	120.0	81.4	38.6	32	102.9	17.1	14		BMP	
RG-89456	MARK GAYER,			WERNER, JOHN C	4 PASEO DEL HALCON	T17N R 9E S 5, LOT 2A-1	COUNTY PLAT	409164	3954110	17N.09E.5.	DOM	1	9/6/2007	800	569.0	231.0	4.4	226.6	98	9.7	221.3	96		BMP	
	J.A. Ortiz,							401971	3962996	18N.08E.10.143			1961	560	524.0	36.0	17.5	18.5	51	31.9	4.1	11	6370	BMP	M-18
	Eric Sloane,							406835	3956782	18N.09E.31.141			1976	634	491.0	143.0	16.8	126.2	88	29.8	113.2	79	6680	BMP	M-24
	David A. Ater,			PROTHRO, CHARLES V	24 VUELTA SUSANA	LOT 24 LA TIERRA PHASE 1, T18N R 9E S31, 13.634 AC,	COUNTY PLAT	406515	3956726	18N.09E.31.131			1976	727	557.0	170.0	16.8	153.2	90	29.8	140.2	82	6725	BMP	M-23
	Milo Earhard,			BOGLE, GLENN G & SUSAN R	218 PASEO DE LA TIERRA	LOT 16 LA TIERRA PHASE 1, T17N R 9E S31	COUNTY PLAT	406931	3956586	18N.09E.31.143			1976	673	497.0	176.0	16.8	159.2	90	29.8	146.2	83	6680	BMP	M-26
	Norman L. Ringhand,			BOGLE, GLENN G & SUSAN R	218 PASEO DE LA TIERRA	LOT 16 LA TIERRA PHASE 1, T17N R 9E S31	COUNTY PLAT	407046	3956731	18N.09E.31.142			1975	804	460.0	344.0	16.8	327.2	95	29.8	314.2	91	6660	BMP	M-25
	Western Cattle Co.,			NEWCOMER, PHYLLIS L	79 CHISHOLM TRL	LOT 33 LA TIERRA NUEVA S/D, T17N R 8E S 2, 10.794 AC,	COUNTY PLAT	404379	3954619	17N.08E.2.423			1970	1000	574.0	426.0	23.5	402.5	94	37.9	388.1	91	6640	BMP	M-2
	Nuclear Dynamics, Inc.,							399180	3960054	18N.08E.20.231			1970	990	193.0	797.0	77.9	719.1	90	97.9	699.1	88	6065	BMP	M-19
	Nuclear Dynamics, Inc.,							397818	3962287	18N.08E.7.434			1970	1000	65.0	935.0	43.5	891.5	95	61.5	873.5	93	5875	BMP	M-17
	Nuclear Dynamics, Inc.,							401791	3956065	18N.08E.34.332			1970	1985	380.0	1605.0	62.4	1542.6	96	85.1	1519.9	95	6320	BMP	M-21
	Western Cattle Co.,	Edward L. and Donna W. Klopfer		KLOPFER, EDWARD L & DONNA L	40 W ESTRADA CALABASA	T18N R 8E S36 & T17N R 8E S 1, 60.04 AC	COUNTY PLAT	405847	3955481	17N.08E.1.212			-	1500	395.0	1105.0	36.2	1068.8	97	53.6	1051.4	95	6543	BMP	M-1
	Nuclear Dynamics, Inc.,							403103	3952509	17N.08E.11.333			1970	1000	130.0	870.0	18.3	851.7	98	30.9	839.1	96	6445	BMP	M-3
	Summer A. Weld,			CRAWFORD, JOHN F & BETTY	28 ARROYO CALABASAS RD	617N R 9E S18 5.00 AC TR A,	COUNTY PLAT	407591	3952262	17N.09E.18.221			1975	588	543.0	45.0	5.6	39.4	88	11.8	33.2	74	6785	BMP	M-15
	Nuclear Dynamics, Inc.,							401541	3949586	17N.08E.22.331			1970	1000	212.0	788.0	5.4	782.6	99	11.7	776.3	99	6440	BMP	M-4
	Nuclear Dynamics, Inc.,							396671	3964509	18N.07E.1.422			1970	1000	0.0	1000.0	64.5	935.5	94	75.4	924.6	92	5680	BMP	M-16
								395610	3965942				1939	191	0.0	191.0	67.8	123.2	65	73.3	117.7	62	5555	BMP	M-27

Appendix C.

Ten- and 40-year water column projections for Buckman Monitoring Program database wells due to forecasted pumping (Scenario 2, model Layer 2)

Appendix C. Ten- and 40-year water column projections for Buckman Monitoring Program wells due to forecasted pumping (Scenario 2, model layer 2)

NMOSE ID	other ID (NMBGMR/USGS, if any)	name	X, m, UTM83	Y, m, UTM83	location ref	total depth, ft	starting water level date	starting non-pumping water level, ft bgl	recent water level date	recent non-pumping water level, ft bgl	observed water level change (+ rise / - decline), ft	2003-2014 model-simulated water-level change (+ rise / - decline), ft	starting water column, ft	model-simulated 10-yr drawdown, ft	water column after 10 years, ft	percent water column remaining after 10 yrs	model-simulated 40-yr drawdown, ft	water column after 40 yrs, ft	percent water column remaining after 40 yrs	comments
	EB269/355000106092802	SF-2B	395,390	3,966,086	NMBGMR	824	1/14/03	411.94	Dec-2015	15.64	396	115	808	65.9	742.5	92	69.1	739.3	91	
	EB270/355000106092803	SF-2C	395,376	3,966,092	NMBGMR	346	1/14/03	233.84	Dec-2015	36.46	197	115	310	65.9	243.7	79	69.1	240.5	78	
	EB265/355002106093701	SF-3A	395,131	3,966,203	NMBGMR	294	1/14/03	185.73	Dec-2015	-8.14	194	115	302	65.9	236.3	78	69.1	233.1	77	
	EB266/355002106093702	SF-3B	395,137	3,966,202	NMBGMR	169	1/14/03	17.99	Dec-2015	-0.55	19	115	170	65.9	103.7	61	69.1	100.5	59	
	EB267/355002106093703	SF-3C	395,127	3,966,201	NMBGMR	60	1/14/03	17.39	Dec-2015	15.88	2	115	44	65.9	-21.8	-49	69.1	-25.0	-57	
	EB262/355003106094301	SF-4A	395,004	3,966,182	NMBGMR	280	1/14/03	155.30	Dec-2015	-11.66	167	115	292	65.9	225.8	77	69.1	222.6	76	
	EB263/355003106094302	SF-4B	395,004	3,966,182	NMBGMR	130	1/14/03	5.74	Dec-2015	-1.20	7	115	131	65.9	65.3	50	69.1	62.1	47	
	EB264/355003106094303	SF-4C	395,004	3,966,182	NMBGMR	60	1/14/03	12.78	Dec-2015	11.09	2	115	49	65.9	-17.0	-35	69.1	-20.2	-41	
	EB261/355006106094803	SF-5C	394,928	3,966,358	NMBGMR	69	1/14/03	5.95	Dec-2015	3.84	2	115	65	65.9	-0.7	-1	69.1	-3.9	-6	
	EB298/354731106072001	Buckman Deep Piez. (SF-6A)	398,587	3,961,476	NMBGMR	2,440	10/24/03	59.90	Dec-2015	161.14	-101	11	2,279	19.3	2,259.5	99	26.3	2,252.5	99	
	EB299/354731106072002	Buckman Middle Piez. (SF-6B)	398,587	3,961,476	NMBGMR	1,340	10/24/03	164.83	Dec-2015	195.49	-31	11	1,145	19.3	1,125.2	98	26.3	1,118.2	98	
	EB300/354731106072003	Buckman Shallow Piez. (SF-6C)	398,587	3,961,476	NMBGMR	480	10/24/03	186.56	Dec-2015	197.86	-11	11	282	19.3	262.8	93	26.3	255.8	91	
	EB608/354228106044901	Las Campanas Deep Piez.	402,225	3,952,079	NMBGMR	1,990	7/6/05	216.53	Dec-2015	215.95	1	-1	1,774	4.6	1,769.5	100	8.4	1,765.6	100	
	EB609/354228106044902	Las Campanas Middle Piez.	402,225	3,952,079	NMBGMR	1,320	7/6/05	262.92	Dec-2015	251.90	11	-1	1,068	4.6	1,063.5	100	8.4	1,059.7	99	
	EB610/354228106044903	Las Campanas Shallow Piez.	402,225	3,952,079	NMBGMR	450	7/6/05	278.70	Dec-2015	279.64	-1	-1	170	4.6	165.8	97	8.4	161.9	95	
RG-20516-S-5	EB478	Buckman 1	395,333	3,966,270	NMBGMR	1,108	1/31/03	632.1	May-2015	188.50	444	115	920	65.9	853.6	93	69.1	850.4	92	
RG-20516-S-6	EB479	Buckman 2	395,525	3,965,621	NMBGMR	1,593	1/31/03	483.65	May-2015	107.12	377	99	1,486	74.0	1,411.9	95	78.8	1,407.0	95	
RG-20516-S	EB480	Buckman 3	396,172	3,965,366	NMBGMR	1,500	1/31/03	642.25	May-2015	138.67	504	99	1,361	74.0	1,287.3	95	78.8	1,282.5	94	
RG-20516-S-2	EB481	Buckman 4	396,164	3,964,658	NMBGMR	1,219	1/31/03	678.39	May-2015	73.65	605	99	1,145	74.0	1,071.3	94	78.8	1,066.5	93	
RG-20516-S-3	EB482	Buckman 5	396,210	3,964,020	NMBGMR	1,182	1/31/03	652.98	May-2015	154.51	498	42	1,027	43.4	984.1	96	50.1	977.4	95	
RG-20516-S-4	EB483	Buckman 6	396,748	3,965,176	NMBGMR	1,154	1/31/03	669.15	May-2015	136.45	533	79	1,018	59.7	957.9	94	65.6	952.0	94	
RG-20516-S-7	EB484	Buckman 7	395,955	3,966,140	NMBGMR	1,415	1/31/03	758.42	May-2015	167.06	591	115	1,248	65.9	1,182.1	95	69.1	1,178.9	94	
RG-20516-S-8	EB485	Buckman 8	394,780	3,966,031	NMBGMR	910	1/31/03	488.33	May-2015	30.95	457	115	879	65.9	813.2	93	69.1	810.0	92	
RG-20516-S-9	EB486	Buckman 9	396,848	3,965,659	NMBGMR	1,363	11/30/03	669.50	May-2015	181.10	488	79	1,182	59.7	1,122.2	95	65.6	1,116.3	94	
RG-20516-S-10	EB487	Buckman 10	399,250	3,959,720	NMBGMR	2,016	9/23/03	331.90	May-2015	334.97	-3	4	1,681	20.9	1,660.1	99	27.8	1,653.3	98	
RG-20516-S-11	EB488	Buckman 11	400,130	3,957,460	NMBGMR	2,020	7/24/03	271.10	May-2015	396.41	-125	-4	1,624	18.8	1,604.8	99	24.9	1,598.7	98	
RG-20516-S-12	EB489	Buckman 12	401,300	3,956,280	NMBGMR	1,930	7/24/03	239.10	May-2015	399.85	-161	-4	1,530	19.1	1,511.0	99	24.8	1,505.3	98	
RG-20516-S-13	EB490	Buckman 13	402,980	3,955,400	NMBGMR	2,018	7/23/03	296.40	May-2015	315.41	-19	-4	1,703	16.0	1,686.6	99	20.8	1,681.7	99	
RG-21318	EB288	Skillet	397,330	3,966,980	NMBGMR	1,700	1/31/03	219.00	May-2015	197.00	22	57	1,503	38.2	1,464.8	97	42.5	1,460.5	97	
RG-439	EB157	Weil Corral, Artesian	396,449	3,965,653	NMBGMR	325	1/31/03	264.00	May-2015	132.90	131	79	192	59.7	132.4	69	65.6	126.5	66	
RG-16681	EB163	Permit	403,322	3,964,577	NMBGMR	745	9/30/03	695.10	May-2015	697.55	-2	2	47	5.2	42.3	89	10.0	37.4	79	
RG-6386	EB160	Tony's Windmill	405,066	3,959,311	NMBGMR	350	6/6/05	291.89	Jan-2016	294.30	-2	-2	56	6.2	49.5	89	11.4	44.3	80	
RG-29524	EB085	Las Dos 1	407,663	3,958,060	NMBGMR	773	5/11/05	396.66	-	-	-	-1	376	2.3	374.0	99	5.4	371.0	99	
RG-25463	EB287	Pinon-Bogle	407,017	3,956,720	NMBGMR	841	5/26/04	467.52	Jan-2016	471.50	-4	-1	370	4.4	365.1	99	8.4	361.1	98	
RG-438	EB251	Midway Windmill	399,191	3,961,850	NMBGMR	310	4/7/05	254.96	Jan-2016	263.64	-9	11	46	19.3	27.0	58	26.3	20.0	43	table 30-A
RG-29723	EB645	USFS Well	398,694	3,954,689	NMBGMR	693	3/13/04	664.10	Jan-2016	671.97	-8	-2	21	8.6	12.4	59	14.3	6.7	32	table 30-A
RG-30777	EB064	Bernstein	403,595	3,955,119	NMBGMR	663	3/13/04	540.02	Jan-2016	542.47	-2	-4	121	16.0	104.5	87	20.8	99.7	83	
RG-28112		Schmidt	406,645	3,954,327	BMP database verified	701	1/21/09	548.31	Jan-2016	550.65	-2	-1	150	3.4	146.9	98	6.6	143.7	96	
RG-79512		Schmidt 2	406,749	3,954,427	BMP database verified	800	1/21/09	499.63	Jan-2016	528.43	-29	-1	272	3.4	268.1	99	6.6	265.0	98	
RG-24584	EB121	Headquarters, Daniels	405,692	3,955,377	NMBGMR	602	7/23/03	424.95	-	-	-	-2	177	8.1	168.9	95	12.6	164.5	93	
RG-81860		Santa Fe Ranch, Barn Well	405,416	3,956,671	BMP database verified	695	7/2/13	370.66	Jan-2016	370.27	0.4	-2	325	7.5	317.2	98	12.5	312.2	96	
RG-93871		La Tierra Deep Monitoring Well	406,436	3,955,825	BMP database verified	1,200	5/8/13	373.24	Jan-2016	373.83	-1	-1	826	4.4	821.8	99	8.1	818.1	99	
RG-37078		Betts/Weil	405,591	3,954,061	BMP database verified	755	well record	580	-	-	-	-2	175	5.6	169.4	97	9.5	165.5	95	table 30-B
RG-37113		E. Eugene	405,476	3,954,840	BMP database	700	well record	527	-	-	-	-2	173	8.1	164.9	95	12.6	160.4	93	table 30-B
RG-437	EB158	Suzanne Garcia, Dead Dog Windmill	400,343	3,956,715	NMBGMR	700	3/17/06	407.68	-	-	-	-4	292	18.8	273.5	94	24.9	267.4	91	table 30-B
RG-48491		Glascock, Lang	403,827	3,955,337	BMP database verified	730	well record	530	-	-	-	-4	200	16.0	184.0	92	20.8	179.2	90	table 30-B
RG-54066		Karp	403,672	3,954,737	BMP database verified	760	well record	540	-	-	-	-4	220	16.0	204.0	93	20.8	199.2	91	table 30-B
RG-54262		Whitney, Grasso	403,699	3,954,577	BMP database verified	755	well record	535	-	-	-	-2	220	8.2	211.8	96	12.6	207.4	94	table 30-B
RG-55734		Mitchel/Norton	403,477	3,954,854	BMP database verified	740	well record	500	-	-	-	-4	240	16.0	224.0	93	20.8	219.2	91	table 30-B
RG-56282		Walbridge, Berlanti	405,170	3,955,316	BMP database verified	700	well record	520	-	-	-	-2	180	8.1	171.9	95	12.6	167.4	93	table 30-B
RG-59973		Sklar	404,788	3,955,019	BMP database verified	750	well record	540	-	-	-	-2	210	8.1	201.9	96	12.6	197.4	94	table 30-B
RG-60104		Clements, Rand	405,218	3,955,382	BMP database verified	760	well record	580	-	-	-	-2	180	8.1	171.9	95	12.6	167.4	93	table 30-B
RG-60404		Smith	404,936	3,954,130	BMP database verified	760	well record	580	-	-	-	-2	180	5.6	174.4	97	9.5	170.5	95	table 30-B
RG-6128		Lillian Walker	402,245	3,962,216	BMP database	700	well record	525	-	-	-	2	175	9.5	165.5	95	15.9	159.1	91	table 30-B
RG-64419		Swanson, Stack	404,293	3,954,920	BMP database verified	740	well record	500	-	-	-	-2	240	8.1	231.9	97	12.6	227.4	95	table 30-B
RG-65566		Newcomer	404,331	3,955,009	BMP database verified	765	well record	542	-	-	-	-2	223	8.1	214.9	96	12.6	210.4	94	table 30-B
RG-69782		Wolford	404,106	3,955,085	BMP database verified	785	well record	572	-	-	-	-4	213	16.0	197.0	92	20.8	192.2	90	table 30-B
RG-65584		Harrison	403,243	3,955,504	BMP database verified	755	well record	535	-	-	-	-4	220	16.0	204.0	93	20.8	199.2	91	table 30-B
RG-71728		Buchanan	403,821	3,954,959	BMP database verified	750	well record	485	-	-	-	-4	265	16.0	249.0	94	20.8	244.2	92	table 30-B
RG-75069		Kenerdine Constr., Grufferman	404,659	3,954,875	BMP database verified	735	well record	500	-	-	-	-2	235	8.1	226.9	97	12.6	222.4	95	table 30-B
RG-61944		Ritter	406,049	3,953,948	BMP database verified	710	well record	585	-	-	-	-1	125	3.4	121.6	97	6.6	118.4	95	table 30-B
RG-54395		Berger, Babitt	406,245	3,954,574	BMP database verified	740	well record	580	-	-	-	-1	160	3.4	156.6	98	6.6	153.4	96	table 30-B
RG-55206		La Luz/Ortiz	402,036	3,961,412	BMP database	655	well record	580	-	-	-	2	75	9.5	65.5	87	15.9	59.1	79	table 30-A
RG-23806		Eliot Streeper	409,115	3,947,381	NMWRRS	216	well record	163	-	-	-	0	53	0.4	52.6	99	1.1	51.9	98	table 30-A
RG-7248	EB161	Boondock	399,636	3,965,339	NMBGMR	900	well record	434	-	-	-	13	466	14.5	451.5	97	20.3	445.7	96	
RG-77553		Metchick, Tano Road area	410,418	3,955,100	BMP database verified	900	well record	505	-	-	-	-1	395	1.5	393.5	100	3.5	391.5	99	Tano Road area

table 30-A, table 30-B - included in findings of hearing examiner, Hearing No. 03-004, OSE File Nos. RG-20516-S-10 thru RG-20516-S-13

Appendix C. Buckman Monitoring Area Well and Well Permit Survey

(gray highlight = well location verified with site-specific data)

NMOSE Well ID	Well Owner(s) listed in NMOSE Database	Confirmed Well Owner	Other Well Names	Parcel Owner Listed in County Parcel Database	Street Address	Lot Description	Address Source	UTM Easting, m, NAD83	UTM Northing, m, NAD83	NMOSE T.R.Sec.qqq	Use	Diver -sion, ac-ft/yr	Drilling Date	Well Depth, ft	Depth to Water, ft	Starting Water Column, ft	Model-Simulated 10-Yr Drawdown, ft	Water Column After 10 Years, ft	Percent Water Column Remaining After 10 Years	Model-Simulated 40-Yr Drawdown, ft	Water Column After 40 Years, ft	Percent Water Column Remaining After 40 Years	Land Surface Elevation, ft amsl	Moni-toring Area	Other IDs
RG-00316	REGINALDO ESPINOZA, III, CHOLENE ESPINOZA, COMMERCIAL RESOURCES INC., JENNIFER JOHNS							401496	3949086		IRR	5.966	3/27/1957	40	20.0	20.0	1.5	18.5	92	3.6	16.4	82		BMP	
RG-00437 CLW	COLLEGE AGRIC. HOME ECON. NEW, Frank Bond		Dead Dog WM					400343	3956715	18N.08E.33.134	STK	3	6/10/1995	700	407.7	292.3	18.8	273.5	94	24.9	267.4	91	6166	BMP	
RG-00438	SUZANNE HOYT GARCIA, TRUSTEE, Robert H. Weil, McKinney		Midway WM					399191	3961850	18N.08E.17.21	STK	3	6/30/1962	310	267.3	42.7	19.3	23.4	55	26.3	16.4	38	6034	BMP	
RG-00439	SUZANNE HOYT GARCIA, TRUSTEE, Robert H. Weil		Artesian, Corral					396449	3965653	19N.07E.36.44	STK	3	8/8/1947	325	171.6	153.5	59.7	93.8	61	65.6	87.9	57	5662	BMP	
RG-04523	RUFINO MRS. GONZALES,			MEAD, WALTER L JR & EMILY C	101 CALLE ADELINA	LOT B-2 44.534 AC, T18N R 9E S30	COUNTY PLAT	406421	3958329	18N.09E.30.131	DOM	3	9/30/1960	170	95.0	75.0	3.8	71.2	95	7.9	67.1	89		BMP	
RG-06128	LILLIAN M. WALKER,							402245	3962216	18N.08E.10.344	DOM	3	4/25/1993	700	525.0	175.0	9.5	165.5	95	15.9	159.1	91	6430	BMP	
RG-06141	SUZANNE HOYT GARCIA, TRUSTEE, Robert H. Weil			LA TIERRA ASSOC INC	RANCH ESTATES RD	T17N R 8E S12 375.855 AC, REMAINDER UNDEVELOPED AREA	COUNTY PLAT	407117	3952667	17N.09E.7.431	STK	3	9/11/1961	560	500.0	60.0	2.4	57.6	96	4.9	55.1	92	6720	BMP	
RG-06275	ROBERT H. WEIL, Western Cattle Co.							403339	3952770	17N.08E.11.332	STK	3	9/5/1961	436	385.0	51.0	4.5	46.5	91	8.0	43.0	84	6480	BMP	
RG-06386	COLLEGE AGRIC. HOME ECON. NEW, Robert H. Weil		Tony's Windmill					405066	3959311	18N.08E.24.33	STK	3	9/13/1961	350	293.9	56.1	6.2	49.9	89	11.4	44.7	80	6397	BMP	
RG-07248	COLLEGE OF AGRIC. & ECON. NEW, Robert H. Weil		Boondock well					399636	3965339	19N.08E.32.44	STK	3	8/3/1975	900	434.0	466.0	14.5	451.5	97	20.3	445.7	96	6150	BMP	
RG-09740	U. S. FOREST SERVICE,		USFS Weir Well					400424	3951041	17N.08E.16.34	SAN	0	9/13/1963	514	461.0	53.0	2.5	50.5	95	5.4	47.6	90	6393	BMP	
RG-14073 -REPAI	U.S. FOREST SERVICE		1100 Ft Well					394978	3956163	18N.07E.35.4	STK	4.83	7/1/1966	1090	996.0	94.0	4.6	89.4	95	9.5	84.5	90	6641	BMP	
RG-14451	W. J. ROUNSEVILLE,			NOVBAKHTIAN, ABDOLREZA, MASOUD	82 PASEO DE LA TIERRA	LOT 5 LA TIERRA S/D PH 1, T17N R9E S 6	COUNTY PLAT	407082	3954847	17N.09E.6.	DOM	3	12/23/1966	614	550.0	64.0	4.4	59.6	93	8.1	55.9	87	6683	BMP	
RG-16681	ROBERT H. WEIL,		Permit					404578	3964298	18N.08E.2.42	PDM	3	6/20/1969	745	574.0	171.0	3.8	167.2	98	8.3	162.7	95		BMP	
RG-17409	ROBERT H WEIL,			POMEROY, CHARLES W & BARBARA	6 COLUMBINE LN	LOT 22 SALVA TIERRA UNIT 1, 2.038 AC, T17N R 9E S8,	COUNTY PLAT	408234	3952574	17N.09E.8.334	DOL	3	1970	1980	466.0	1514.0	1.6	1512.4	100	3.5	1510.5	100	6800	BMP	
RG-17410	ROBERT H WEIL,			SMITH, STEPHEN R	36 PICACHO PEAK DR	LOT 640 LAS CAMPANAS PH V, T17N R 9E S 7 5.029 AC	COUNTY PLAT	406809	3953748	17N.09E.7.123	DOL	3	1970	1000	567.0	433.0	3.4	429.6	99	6.6	426.4	98	6765	BMP	
RG-18385	DR. WILLIAM STENNIS,			MCDOUGALL, RICHARD & MARY	38 N VUELTA HERRADURA	LOT 117 LA TIERRA S/D PHASE 3, 14.07 AC, T18N R 9E S32,	COUNTY PLAT	409233	3955917	18N.09E.32.441	DOM	3	2/26/1971	710	625.0	85.0	1.5	83.5	98	3.5	81.5	96	6914	BMP	
RG-19117	LUDEN. FRITZ, Kris Hotvedt			POLANCO, LEE B	17 WILDFLOWER WAY	T17N R 9E S18 2.51 AC LOT B,	COUNTY PLAT	407542	3951276	17N.09E.18.423	DOM	3	7/12/1971	608	565.0	43.0	1.1	41.9	97	2.7	40.3	94	6790	BMP	
RG-21516	CINCO PARA MANANA, VILLAGE GATE HOLDINGS			MILLER, NEIL Z & SUSANNE B	1 CAMINO DELILAH	T17N R 9E S9 3.380 AC, LOT 1-A	COUNTY PLAT	409481	3953882	17N.09E.5.44S	SAN	0	10/3/1972	220	140.0	80.0	1.3	78.7	98	3.0	77.0	96		BMP	
RG-24203	JOHN D. GUNDZIK MD, A.A. Realty, Al Amiday			BOMSE, PEARL & MARC &	59 SONRISA TRL	LOT 4 5.346 AC, T17N R 9E S18	COUNTY PLAT	406964	3951493	17N.09E.18.322	DOM	3	11/6/1973	777	448.0	329.0	2.4	326.6	99	4.9	324.1	99	6720	BMP	
RG-24364	E. C DE BACA,			NAMINGHA, DANIEL & FRANCES	68 PASEO DE LA TIERRA	LOT 4 LA TIERRA PHASE 1, T17N R 9E S 6	COUNTY PLAT	406977	3954740	17N.09E.6.322	DOM	3	12/29/1973	400	300.0	100.0	4.4	95.6	96	8.1	91.9	92	6701	BMP	
RG-24584 POD1	BOB WEIL, Daniels	Jeanne C. Daniels	Headquarters, Daniels	CREED, JEANNE H	86 Headquarters Trail	T18N R 8E S36 14.58 AC SE4 &, T17N R 8E S 1 NE4 PORT OF	COUNTY PLAT, 9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	405692	3955377	17N.8E.1.2123	DOM	3	4/19/1974	602	426.5	175.5	8.1	167.4	95	12.6	163.0	93	6554	BMP	
RG-24855	ROBET H. WEIL, Kubert		La Tierra	TURNEY, PATRICIA A	87 E ESTRADA CALABASA	LOT 59 LA TIERRA PHASE 2, T18N R 9E S31 10.009 AC	COUNTY PLAT	407931	3956170	18N.09E.32.41	DOM	3	5/16/1974	697	496.4	200.6	2.5	198.1	99	5.3	195.3	97	6722	BMP	
RG-24968	DREW C. & LYNNE D. ARENA,			ARENA, DREW C & ELISE PINKOW	44 SONRISA TRL	T17N R 9E S18 23.982 AC, TRACT B	COUNTY PLAT	407040	3951072	17N.09E.18.324	DOM	3	7/22/1974	697	528.0	169.0	1.6	167.4	99	3.5	165.5	98		BMP	
RG-25463	JEANETTE LILIENTHAL,		La Tierra, Pinon	BOGLE, GLENN G & SUSAN R	218 PASEO DE LA TIERRA	LOT 16 LA TIERRA PHASE 1, T17N R 9E S31	COUNTY PLAT	407017	3956720	18N.09E.31.211	DOM	3	10/22/1974	841	468.3	372.8	4.4	368.4	99	8.4	364.4	98	6664	BMP	
RG-25637	SUSAN MERWIN, W.P. Saunders		La Tierra, South Well	NAMINGHA, DANIEL & FRANCES	68 PASEO DE LA TIERRA	LOT 4 LA TIERRA PHASE 1, T17N R 9E S 6	COUNTY PLAT	407026	3954795	17N.09E.6.114	DOM	0	1975	735	445.9	289.1	4.4	284.8	98	8.1	281.1	97	6708	BMP	
RG-25800	IRIS H WILSON,							401653	3973422	19N.08E..	DOM	3	4/25/1975	153	78.0	75.0	1.4	73.6	98	2.6	72.4	97		BMP	
RG-26125	WILLIAM S. ELKINS,							406010	3957550	18N.09E.25.431	DOM	3	7/5/1975	167	43.0	124.0	4.4	119.6	96	8.4	115.6	93	6600	BMP	
RG-26697	MARK K. JONES,							401478	3960568	18N.08E.	DOM	3	12/15/1975	650	480.0	170.0	10.6	159.4	94	17.1	152.9	90		BMP?	
RG-27928	PETER DYKE,			MACCORQUODALE, MICHAEL & PAM	29 VUELTA MONTUOSO	LOT 29 LA TIERRA PHASE 1, T17N R 9E S31	COUNTY PLAT	406599	3956321	18N.09E.31.312	DOM	3	4/10/2004	900	555.0	345.0	4.4	340.6	99	8.4	336.6	98	6701	BMP	
RG-28007	DON HENRY,			LA TIERRA ASSOC INC	12 HORCADO RANCH RD	LOT 33 LA TIERRA PHASE 1 PARK, NEXT TO T17N R 9E S31, PARK NO TAXABLE VALUE,	COUNTY PLAT	406395	3955740	18N.09E.31.333	DOM	3	12/9/1976	585	385.0	200.0	4.4	195.6	98	8.1	191.9	96	6575	BMP	
RG-28064	STEVEN H. TREMPER,		La Tierra 32-T-1	ANDERSON, JON R & ANNE-DRUE	22 N VUELTA HERRADURA	T18N R 9E S32 11.24 AC, LOT 115 LA TIERRA PHASE 3	COUNTY PLAT	408320	3956006	18N.09E.32.33	DOM	3	12/28/1976	750	529.0	221.0	2.5	218.5	99	5.3	215.7	98	6769	BMP	
RG-28064	STEVEN H. TREMPER,		La Tierra 32-T-2	GREENKER, JEROLD A	12 ESTRADA REDONDA	T18N R 9E S32 10.39 AC, LOT 82 LA TIERRA PHASE 3	COUNTY PLAT	409264	3956135	18N.09E.32.42	DOM	3	2/4/1977	750	533.3	216.7	1.5	215.2	99	3.5	213.2	98	6847	BMP	

Appendix C. Buckman Monitoring Area Well and Well Permit Survey

(gray highlight = well location verified with site-specific data)

NMOSE Well ID	Well Owner(s) listed in NMOSE Database	Confirmed Well Owner	Other Well Names	Parcel Owner Listed in County Parcel Database	Street Address	Lot Description	Address Source	UTM Easting, m, NAD83	UTM Northing, m, NAD83	NMOSE T.R.Sec.qqq	Use	Diver -sion, ac-ft/yr	Drilling Date	Well Depth, ft	Depth to Water, ft	Starting Water Column, ft	Model-Simulated 10-Yr Drawdown, ft	Water Column After 10 Years, ft	Percent Water Column Remaining After 10 Years	Model-Simulated 40-Yr Drawdown, ft	Water Column After 40 Years, ft	Percent Water Column Remaining After 40 Years	Land Surface Elevation, ft amsl	Moni-toring Area	Other IDs
RG-28064 X-2	STEVEN H. TREMPER,		Hilltop	NEIKRUG, MARC AND DOLLY L	59 ESTRADA MAYA	T18N R 9E S32 15.00 AC, LOT 99 LA TIERRA PHASE 3	COUNTY PLAT	409088	3956910	18N.09E.32.222	DOM	3	2/16/1977	727	498.0	229.0	1.5	227.5	99	3.6	225.4	98	6863	BMP	
RG-28064 X-3	STEVEN H. TREMPER,		La Tierra 32-T-4	PHINNEY, ROBERT T & MARGARET	124 ESTRADA REDONDA	T18N R 9E S32 12.25 AC, LOT 93 LA TIERRA S/D, (OLD PHASE 3),	COUNTY PLAT	408163	3956965	18N.09E.32.11	DOM	3	1/12/1977	790	513.0	277.0	2.5	274.5	99	5.5	271.5	98	6750	BMP	
RG-28112	HENRY SANDMEIER, Paul B. Schmidt and Elise Wheless Schmidt					Lot 47, La Tierra		406645	3954327		DOM	3	2/2/1977	701	549.0	152.0	3.4	148.6	98	6.6	145.4	96	6747	BMP	
RG-28299	WILLIS A. SEYFFERT,		La Tierra 32-T-3					409347	3956949	18N.09E.32.22	DOM	3	3/4/1977	765	368.7	396.3	1.5	394.8	100	3.6	392.7	99	6816	BMP	
RG-28345	ROBERT GILL,			GILL, ROBERT I & CHERYL L	11 E ESTRADA CALABASA	LOT 13 LA TIERRA PHASE 1, T17N R 9E S31	COUNTY PLAT	406825	3956116	18N.09E.31.323	DOM	3	3/19/1977	618	522.0	96.0	4.4	91.6	95	8.1	87.9	92		BMP	
RG-29191	SANDRA LAUDEDALE GRAHAM,			GRAHAM, THOMAS R & SANDRA L	15 VUELTA SABIO	LOT 51 LA TIERRA PHASE 2, SEC 6 T17N R9E 10.578 AC	COUNTY PLAT	406386	3954945	17N.09E.6.133	DOM	3	8/17/1977	700	530.0	170.0	4.4	165.6	97	8.1	161.9	95	6654	BMP	
RG-29356	DENNIS R. COOPER,			LICATA, WILLIAM M & CATHERINE	20 LOS PRADOS	T17N R 9E S 8 TR 1-A-2 1.0 AC, PLAT BK 225 PG 037	COUNTY PLAT	409205	3953067	17N.09E.8.421	DOM	3	1/23/1978	730	556.8	173.3	1.3	172.0	99	3.0	170.2	98	6881	BMP	
RG-29359	CROCKER EDWARD E. JR.,			CROMWELL, FLORENCE C &	16 VUELTA LINDA	T18N R 9E S32 10.31 AC, LOT 111 LA TIERRA PHASE 3	COUNTY PLAT	408731	3956429	18N.09E.32.	DOM	3	7/3/1979	715	603.0	112.0	2.5	109.5	98	5.5	106.5	95	6819	BMP	
RG-29524	BARBARA VIGIL,		Las Dos #1	MOONEY, HELEN W	45 MAMIES MILE	LOT 21 LAS DOS PHASE 1, T18N R 9E S30 12.224 AC	COUNTY PLAT	407663	3958060	18N.09E.30.424	DOM	3	10/24/1977	768	389.2	378.8	2.3	376.5	99	5.4	373.5	99	6612	BMP	
RG-29546	BERGERE KENNEY,		Los Dos #2					407940	3960307	18N.09E.19.22	NOT	0	11/3/1977	773	434.3	338.7	2.1	336.6	99	5.0	333.7	99	6674	BMP	
RG-29550	KENNETH N. & WYONA T. JOY							397154	3964185	18N.08E.6.3	DOM	3	10/26/1977	675	535.0	140.0	43.4	96.6	69	50.1	89.9	64	5791	BMP	
RG-29723	U.S. FOREST SERVICE, US Soil Conservation Service		700 Ft Well					398694	3954689	17N.08E.5.3	STK	2	1/1/1940	693	671.4	21.6	8.6	13.0	60	14.3	7.3	34	6486	BMP	
RG-29725	US FOREST SERVICE, US Soil Conservation Service		USFS Headquarters Well					400842	3949932	17N.08E.21.41	STK	2	1/1/1940	350	311.0	39.0	2.5	36.5	94	5.4	33.6	86	6442	BMP	
RG-30162	TODD BAILEY,			BAILEY, TODD J	124 ARROYO CALABASAS RD	T17N R 9E S18 2.5 AC TR 2,	COUNTY PLAT	406269	3951851	17N.09E.18.131	MUL	3	5/29/1978	725	500.0	225.0	2.4	222.6	99	4.9	220.1	98		BMP	
RG-30269	KIRSTIN MCMULLEN,			GALLANT, DANNY & MARCE MILLER	52 CAMINO DOS PERROS	T17N R 9E S18 LOT 3-B 5.0 AC, (OLD TR 3)	COUNTY PLAT	407048	3951873	17N.09E.18.124	MUL	3	4/20/1978	556	475.0	81.0	2.4	78.6	97	4.9	76.1	94		BMP	
RG-30777	BOB WELL,	Tom and Andrea Bernstein	Bernstein, La Tierra Lot 71; IV-1	BERNSTEIN, TOM A & ANDREA E	159 Longhorn Lane	LOT 46 TIERRA NUEVA, T17N R 8E S 2 17.385 AC	COUNTY PLAT, 9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	403595	3955119	17N.08E.36.23	OBS	3	7/15/1978	663	543.1	119.9	16.0	103.9	87	20.8	99.0	83	6550	BMP	
RG-31284	SUZANNE HOYT GARCIA, TRUSTEE,			HOYT, SUZANNE & LINDA WEIL	127 W ESTRADA CALABASA	T18N R 8E S36 1074.650 AC N2 &, PORT S2 RANCH & HEADQTRS, LIVESTOCK ON ACCT 970001777,	COUNTY PLAT	405804	3957152	18N.08E.36.212	DOM	3	10/30/1978	815	515.0	300.0	7.5	292.5	97	12.5	287.5	96	6660	BMP	
RG-31487 EXPL	BOB WEIL, RICHARD CARLYON		La Tierra Lot 16; IV-2	STATE OF NEW MEXICO	STATE PROPERTY	LOT 1 LA TIERRA NUEVA, 10.432 AC T17N R 8E S 1	COUNTY PLAT	405575	3954126	17N.08E.1.433	DOM	3	10/20/1978	785	529.0	256.0	5.6	250.4	98	9.5	246.5	96	6677	BMP	
RG-31845	HIROSHI AND NANCY MURATA,			NOVBAKHTIAN, ABDOLREZA, MASOUD	82 PASEO DE LA TIERRA	LOT 5 LA TIERRA S/D PH 1, T17N R9E S 6	COUNTY PLAT	407082	3954847	17N.09E.6.	DOM	3	4/23/1979	700	580.0	120.0	4.4	115.6	96	8.1	111.9	93	6683	BMP	
RG-31977	BILLY W. ROYBAL,							401605	3970215	19N.08E.	IRR	12	12/20/1979	300	75.0	225.0	3.5	221.5	98	6.3	218.7	97		BMP?	
RG-32871	MARK JONES, Paul B. Schmidt and Elise Wheless Schmidt					Lot 40, La Tierra		406879	3954516		DOM	3	7/19/1979	700	580.0	120.0	3.4	116.6	97	6.6	113.4	94		BMP	
RG-33170	JOHN O. ZINN, Elise Wheless			WHELESS, ELISE	37 VUELTA TOMAS	LOT 46 LA TIERRA PHASE 2, T17N R 9E S 6 11.890 AC	COUNTY PLAT	406489	3954272		DOM	3	9/15/1979	680	540.0	140.0	3.4	136.6	98	6.6	133.4	95		BMP	
RG-33382 EXPL1	RICHARD M. HAGER, ANNIE CONSTANT			NORTHWEST RANCHES LLC	28 CAMINO LOS SUENOS	T17N R 9E S19 2.500 AC, LOT 4	COUNTY PLAT	406448	3950465	17N.09E.19.11	DOM	3	9/8/1979	640	520.0	120.0	1.6	118.4	99	3.5	116.5	97		BMP	
RG-33451	LEONARD E. SHULMAN, M.D.,			KENNEY, NANCY BERGERE & ELLEN,		T18N R 9E S19 62.525 AC, LOT A-2, N2, SW4, SW4 SW4,	COUNTY PLAT	407031	3958929	18N.09E.19.344	DOM	3	10/30/1979	450	200.0	250.0	3.8	246.2	98	7.9	242.1	97		BMP	
RG-33833	BURTON AND PAULA GEYER	Burton L. and Paula Geyer			21 Goodnight Trail West	Lot 19 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	405209	3954630		DOM	3	3/13/1980	700	580.0	120.0	5.6	114.4	95	9.5	110.5	92		BMP	
RG-34804	MARIAM BROWNE,			LEBLANC, STEVEN R & ELLEN A		T16N R10E S21, 30.627 AC	COUNTY PLAT	407399	3951520	17N.09E.18.412	MUL	3	10/3/1980	400	60.0	340.0	2.4	337.6	99	4.9	335.1	99		BMP	
RG-35350	JOACHIM T. WIRTH,			GEORGE, JAMES S & BARBARA	86 PASEO DE LA TIERRA	LOT 6 LA TIERRA PHASE 1, T17N R 9E S 6	COUNTY PLAT	406982	3955141	17N.09E.6.142	PDM	3	12/2/1980	720	375.0	345.0	4.4	340.6	99	8.1	336.9	98		BMP	
RG-35630	JAMES H. WHEELOCK,			HANDELSMAN, STUART	31 VISTA CALABASAS	T17N R 9E S18 5.037 AC TR A, HANSEN & ZILECEA SURVEY	COUNTY PLAT	406749	3952121	17N.09E.18.123	DOM	3	5/12/1986	605	455.0	150.0	2.4	147.6	98	4.9	145.1	97		BMP	

Appendix C. Buckman Monitoring Area Well and Well Permit Survey

(gray highlight = well location verified with site-specific data)

NMOSE Well ID	Well Owner(s) listed in NMOSE Database	Confirmed Well Owner	Other Well Names	Parcel Owner Listed in County Parcel Database	Street Address	Lot Description	Address Source	UTM Easting, m, NAD83	UTM Northing, m, NAD83	NMOSE T.R.Sec.qqq	Use	Diver -sion, ac-ft/yr	Drilling Date	Well Depth, ft	Depth to Water, ft	Starting Water Column, ft	Model-Simulated 10-Yr Drawdown, ft	Water Column After 10 Years, ft	Percent Water Column Remaining After 10 Years	Model-Simulated 40-Yr Drawdown, ft	Water Column After 40 Years, ft	Percent Water Column Remaining After 40 Years	Land Surface Elevation, ft amsl	Moni-toring Area	Other IDs
RG-35802	YARKO KOZIY,							395871	3958899	17N.09E.18.233	DOM	3	3/24/1981	720	600.0	120.0	8.6	111.4	93	14.3	105.7	88		BMP	
RG-36031	DAVID GARRISON,			GARRISON, DAVID	138 ESTRADA REDONDA	T18N R 9E S32 16.63 AC, LOT 91 LA TIERRA PHASE 3	COUNTY PLAT	408142	3956772	18N.09E.32.	DOM	3	4/27/1981	700	620.0	80.0	2.5	77.5	97	5.5	74.5	93		BMP	
RG-37078 CLW	BOB WEIL, ROLAND BETTS	Roland and Lois Betts			6 Headquarters Trail	Lot 2 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	405591	3954061	17N.08E.1.413	DOM	0	12/15/1993	755	580.0	175.0	5.6	169.4	97	9.5	165.5	95	6693	BMP	
RG-37113	EUGENE E., TRUSTEE BECK,			LINCOLN, CYNTHIA H TRUST		LOT 76 LA TIERRA NUEVA, T17N R 8E S 1	COUNTY PLAT	405476	3954840	17N.08E.1.	DOM	3	11/25/1981	700	527.0	173.0	8.1	164.9	95	12.6	160.4	93	6668	BMP	
RG-37164	ROBERT MARCUS,		Mountain Vista	ROUNSVILLE, WILLIAM J	82 PASEO DE LA TIERRA	T17N R 9E S5 184.91 AC, TRACT A, LIVESTOCK ON ACCT 970001905,	COUNTY PLAT	408098	3955429	17N.09E.5.11	DOM	3	12/1/1981	950	604.7	345.3	2.5	342.8	99	5.3	340.0	98	6919	BMP	
RG-37582	GLORIA GAUGHAN,							399421	3950816	17N.09E.18.22	DOM	3	2/12/1982	700	550.0	150.0	2.5	147.5	98	5.4	144.6	96		BMP	
RG-37817	DAVID C NELSON,			GEORGE, JAMES S & BARBARA	86 PASEO DE LA TIERRA	LOT 6 LA TIERRA PHASE 1, T17N R 9E S 6	COUNTY PLAT	406685	3955076	17N.09E.6.	DOM	3	4/23/1982	720	600.0	120.0	4.4	115.6	96	8.1	111.9	93	6683	BMP	
RG-37879	MARCIA J. WILSON,			RIMBEAUX, B C	44 VALLECITO RD	LOT 17 VALLECITO DE LA TIERRA, T17N R 9E S18 2.97 AC	COUNTY PLAT	407450	3951838	17N.08E.17.443	DOM	3	6/1/1982	600	460.0	140.0	2.4	137.6	98	4.9	135.1	96		BMP	
RG-40491	FRANCIS MURPHY	Francis Michael Murphy and Joan-Ann Ryan-Murphy		MURPHY, FRANCIS M & JOAN ANN	34 CHISHOLM TRL	LOT 26 LA TIERRA NUEVA, T17N R 8E S 1 10.869 AC	COUNTY PLAT	404883	3954138		DOM	3	9/16/1983	730	590.0	140.0	5.6	134.4	96	9.5	130.5	93		BMP	
RG-40722	KATHLEEN MLOTOK,							403884	3956473	18N.08E.35.	DOM	3	9/9/1983	756	603.0	153.0	12.7	140.3	92	18.2	134.8	88		BMP	
RG-40978	COURTLANDT & KATRINA BARNES,			BARNES, COURTLANDT D & KATRINA	2 WILDFLOWER WAY	T17N R 9E S18 10 AC SE4 PORT,	COUNTY PLAT	407745	3951291	17N.09E.18.424	DOM	3	1/26/1984	720	600.0	120.0	1.1	118.9	99	2.7	117.3	98		BMP	
RG-41872	EDWARD E. JR. CROCKER,			NAVA, GREGORY	29 ESTRADA MAYA	T18N R 9E S32 10.89 AC, LOT 97 LA TIERRA PHASE 3	COUNTY PLAT	408842	3957099	18N.09E.32.211	DOM	3	2/19/1984	730	550.0	180.0	2.5	177.5	99	5.5	174.5	97	6783	BMP	
RG-42335	RANDLOW SMITH,			RIMBEAUX, B C	44 VALLECITO RD	LOT 17 VALLECITO DE LA TIERRA, T17N R 9E S18 2.97 AC	COUNTY PLAT	407450	3951838	17N.09E.1.332	DOM	3	8/7/1984	740	550.0	190.0	2.4	187.6	99	4.9	185.1	97		BMP	
RG-42618	CHARLES S. VON STADE	Eleanor T. and Charles S. von Stade			42 Chisholm Trail	Lot 28 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	404814	3954123		DOM	3	10/18/1984	605	520.0	85.0	5.6	79.4	93	9.5	75.5	89		BMP	
RG-46386	DANIEL FORMAN,			CITY OF SANTA FE	CITY PROPERTY	CITY PROPERTY, MAPPING PURPOSE ONLY	COUNTY PLAT	411114	3953865	17N.09E.18.414	DOM	3	10/16/1986	605	380.0	225.0	0.8	224.2	100	2.1	222.9	99		BMP	
RG-48491	DARLENE STREIT,	Michael and Tami Lang		LANG, MICHAEL S & TAMI	173 CHISHOLM TRL	LOT 49 LA TIERRA NUEVA, T17N R 8E S 2 15.425 AC	COUNTY PLAT	403827	3955337	17N.08E.2.121	DOM	3	11/24/1987	730	530.0	200.0	16.0	184.0	92	20.8	179.2	90	6564	BMP	
RG-48897	WLATER L. & EMILY C. MEAD,			MEAD, WALTER L JR & EMILY C	29 CALLE ADELINA	T18N R 9E S30 40 AC SE4-SW4, UND INTEREST	COUNTY PLAT	406915	3957423	18N.09E.30.34	DOM	3	4/11/1988	800	580.0	220.0	4.4	215.6	98	8.4	211.6	96	6638	BMP	
RG-48897 X2	WLATER L. & EMILY C. MEAD,			MEAD, WALTER L JR & EMILY C	29 CALLE ADELINA	T18N R 9E S30 40 AC SE4-SW4, UND INTEREST	COUNTY PLAT	407014	3957522	18N.09E.30.342	DOM	3	11/14/1996	760	422.0	338.0	4.4	333.6	99	8.4	329.6	98	6617	BMP	
RG-49717	GLORIA GAUGHAM,			CHRIST, RONALD TRUSTEE OF	40 CAMINO CIELO	T17N R 9E S18 2.907 AC, LOT 4-A CIELO AZUL	COUNTY PLAT	406273	3952251	17N.09E.18.	DOM	3	9/6/1988	700	600.0	100.0	2.4	97.6	98	4.9	95.1	95		BMP	
RG-49952	JOSEPH MORSE	Florence and Joseph Morse			25 Goodnight Trail	Lot 20, La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	405546	3954603		DOM	3	12/22/1988	710	540.0	170.0	5.6	164.4	97	9.5	160.5	94		BMP	
RG-50395	TAYLOR A DALE,			BRANCH, DENNIS R		T17N R 9E S18 17.400 AC TR D4, NW4	COUNTY PLAT	406939	3952352	17N.09E.18.112	DOM	3	3/12/1989	700	480.0	220.0	2.4	217.6	99	4.9	215.1	98		BMP	
RG-50735	EUGENE D HIGGINS,			SCULLIN, MARC & CYNTHIA	136 ARROYO CALABASAS RD	T17N R 9E S18 2.5 AC TR 1,	COUNTY PLAT	406269	3951935	17N.09E.18.11	MUL	3	5/11/1989	700	500.0	200.0	2.4	197.6	99	4.9	195.1	98	6644	BMP	
RG-50944	DENNIS & ELLEN SANDERS,			BT HOMES INC		T17N R 9E S12 252.0120 AC, TR 14 W OF TAOS HWY	COUNTY PLAT	414355	3953833	17N.09E.18.1	DOM	0	7/1/1989	700	580.0	120.0	0.3	119.7	100	1.0	119.0	99		BMP	
RG-51854	RAY WINN	William A. and Janet F. Moffett			44 Chisholm Trail	Lot 29 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	404642	3954152		DOM	3	2/15/1990	695	590.0	105.0	5.6	99.4	95	9.5	95.5	91		BMP	
RG-52506	WILLIAM AGNEW	Tucker Family Trust - Cecil R. Tucker/Janice W. Tucker			20 Goodnight Trail West		9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	405241	3954362		DOM	3	8/7/1990	730	627.0	103.0	5.6	97.4	95	9.5	93.5	91		BMP	
RG-52780 CLW	RICHARD BRENNER, VALLECITO HOMEOWNERS ASSOC		Vallecitos #1	LUDIN, FRITZ		T17N R 9E S18 10 AC NE4-SE4,	COUNTY PLAT	407446	3951438	17N.09E.18.412	DOM	3	12/23/1996	735	496.0	239.0	2.4	236.6	99	4.9	234.1	98	6718	BMP	
RG-52938	JACK & JUNE SMITH,			MILLER, MARK C	3 VUELTA LINDA	T18N R 9E S32 11.32 AC, LOT 107 LA TIERRA PHASE 3	COUNTY PLAT	408537	3956601	18N.09E.32.14	DOM	3	9/26/1990	1000	650.0	350.0	2.5	347.5	99	5.5	344.5	98	6802	BMP	

Appendix C. Buckman Monitoring Area Well and Well Permit Survey

(gray highlight = well location verified with site-specific data)

NMOSE Well ID	Well Owner(s) listed in NMOSE Database	Confirmed Well Owner	Other Well Names	Parcel Owner Listed in County Parcel Database	Street Address	Lot Description	Address Source	UTM Easting, m, NAD83	UTM Northing, m, NAD83	NMOSE T.R.Sec.qqq	Use	Diver -sion, ac-ft/yr	Drilling Date	Well Depth, ft	Depth to Water, ft	Starting Water Column, ft	Model-Simulated 10-Yr Drawdown, ft	Water Column After 10 Years, ft	Percent Water Column Remaining After 10 Years	Model-Simulated 40-Yr Drawdown, ft	Water Column After 40 Years, ft	Percent Water Column Remaining After 40 Years	Land Surface Elevation, ft amsl	Moni-toring Area	Other IDs
RG-53071	LEROY BACA,							400288	3949351	17N.08E.21.343	DOM	3	10/10/1990	440	261.0	179.0	1.5	177.5	99	3.6	175.4	98		BMP	
RG-53404	MARC NEIKRUG,			FISCHER, CYNTHIA F & KURT	17 SONRISA TRL	LOT 4 SONRISA S/D 5.010 AC, T17N R 9E S18	COUNTY PLAT	406265	3951450	17N.09E.18.311	MUL	3	7/10/1991	800	410.0	390.0	2.4	387.6	99	4.9	385.1	99		BMP	
RG-53581	PATRICIA & J. SIGMUND FORMAN,			LUDIN, FRITZ		T17N R 9E S18 10 AC NE4-SE4,	COUNTY PLAT	407446	3951438	17N.09E.18.412	MUL	3	6/14/1991	700	580.0	120.0	2.4	117.6	98	4.9	115.1	96		BMP	
RG-53658	BRIAN K. GONZALES,			BLOG, THOMAS M & ANNE E	43 VUELTA MARIA	LOT 24 LAS DOS PHASE 1, T18N R 9E S30 13.177 AC, PER DEATH CERT & ATTY R FOX,	COUNTY PLAT	407484	3957507	18N.09E.30.432	DOM	3	5/7/1991	720	520.0	200.0	2.5	197.5	99	5.5	194.5	97		BMP	
RG-53984	HERSCHEL COBB,			LOVE RANCH PARTNERS LLC		T17N R 9E S18, TR D, 20.00 AC,	COUNTY PLAT	407467	3951068	17N.09E.18.423	MUL	3	8/7/1991	735	500.0	235.0	1.1	233.9	100	2.7	232.3	99		BMP	
RG-53998	PETER GOODWIN,			LOVE RANCH PARTNERS LLC		T17N R 9E S18, TR D, 20.00 AC,	COUNTY PLAT	407467	3951068	17N.09E.18.423	MUL	3	7/15/1991	735	500.0	235.0	1.1	233.9	100	2.7	232.3	99		BMP	
RG-53999	ROBERT & CAROL CARUTHERS,			LOVE RANCH PARTNERS LLC		T17N R 9E S18, TR D, 20.00 AC,	COUNTY PLAT	407467	3951068	17N.09E.18.423	MUL	3	6/30/1991	700	500.0	200.0	1.1	198.9	99	2.7	197.3	99		BMP	
RG-54000	CANDIS NELSON,			LOVE RANCH PARTNERS LLC		T17N R 9E S18, TR D, 20.00 AC,	COUNTY PLAT	407467	3951068	17N.09E.18.423	MUL	3	7/9/1991	730	500.0	230.0	1.1	228.9	100	2.7	227.3	99		BMP	
RG-54001	B. C. RIMBEAUX,			LOVE RANCH PARTNERS LLC		T17N R 9E S18, TR D, 20.00 AC,	COUNTY PLAT	407467	3951068	17N.09E.18.423	MUL	3	9/5/1991	718	500.0	218.0	1.1	216.9	99	2.7	215.3	99		BMP	
RG-54066	JAMES KARP,	James and Arlene Karp		BERNSTEIN, TOM A & ANDREA E	11 Longhorn Lane	Lot 42 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	403672	3954737	17N.08E.2.142	DOM	3	7/31/1991	760	540.0	220.0	16.0	204.0	93	20.8	199.2	91	6549	BMP	
RG-54262	WELLS W. WHITNEY,	Philip Grasso			17 Longhorn Lane	Lot 41 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	403699	3954577	17N.08E.2.223	DOM	3	11/8/1991	755	535.0	220.0	8.2	211.8	96	12.6	207.4	94	6531	BMP	
RG-54319	JEROME MARSHAK,			KENNEY GRANDCHILDRENS	50 CALLE ADELINA	T18N R 9E S30 21.056 AC, TR D	COUNTY PLAT	406823	3958125	18N.09E.30.143	DOM	3	9/19/1991	715	560.0	155.0	3.8	151.2	98	7.9	147.1	95	6575	BMP	
RG-54395	CLAY BERGER,	John L. Babitt			38 Goodnight Trail	Lot 9 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	406245	3954574	17N.08E.1.421	DOM	3	9/25/1991	740	580.0	160.0	3.4	156.6	98	6.6	153.4	96	6646	BMP	
RG-54655	WILLIAM C. III HARKER,			ELTON, DEBBIE		T17N R 9E S18 5 AC LOT 4A, AS PER DEATH CERTIFICATE, #091019,	COUNTY PLAT	406979	3951747		MUL	3	12/23/1991	700	580.0	120.0	2.4	117.6	98	4.9	115.1	96	6681	BMP	
RG-54919	PING & DEBORAH LEE,			MURATA, HIROSHI & NANCY	22 VUELTA CHAMISA	LOT 8 LA TIERRA PHASE 1, T17N R 9E S 6	COUNTY PLAT	406788	3955542	17N.09E.6.121	DOM	3	3/8/1992	660	500.0	160.0	4.4	155.6	97	8.1	151.9	95	6622	BMP	
RG-54938	WILLIAM & JOANNA SEITZ,			MEAD, WALTER L JR & EMILY C	57 CALLE ADELINA	LOT B-3 45.458 AC, T18N R 9E S30	COUNTY PLAT	406616	3957928	18N.09E.30.312	DOM	3	3/7/1992	700	550.0	150.0	3.8	146.2	97	7.9	142.1	95	6555	BMP	
RG-55206	LA LUZ GROUP, LLC,							402036	3961412	18N.08E.15.143	DOM	0	9/28/1992	655	580.0	75.0	9.5	65.5	87	15.9	59.1	79	6394	BMP	
RG-55696 CLW	R. L. BURKE,			MCCURDY, RICHARD B TRUSTEE	60 E ESTRADA CALABASA	LOT 57 LA TIERRA S/D PH 2, T18N R 9E S31 10.992 AC	COUNTY PLAT	407825	3955729	18N.09E.31.444	DOM	0	4/14/1993	850	685.0	165.0	2.5	162.5	98	5.3	159.7	97	6727	BMP	
RG-55734	JILL & MITCHEL, PAUL NORTON,	Jill A. Norton			138 Chisholm Trail	Lot 44 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	403477	3954854	17N.08E.2.124	DOM	3	8/19/1992	740	500.0	240.0	16.0	224.0	93	20.8	219.2	91	6558	BMP	
RG-55885	CUSTOM PROPERTIES OF SANTA FE, JAMES D. WARREN	William L. Oliver, Jr., and Mary Lynn Oliver			54 Headquarters Trail	Lot 78 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	405763	3954711	17N.08E.1.233	DOM	3	8/25/1992	750	530.0	220.0	8.1	211.9	96	12.6	207.4	94	6622	BMP	
RG-56282	CLIFF WALBRIDGE,	Donald and Karen Berlanti Revocable Trust		BERLANTI, DONALD V & KAREN L	171 HEADQUARTERS TRL	LOT 69 LA TIERRA NUEVA, T17N R 8E S 1 27.273 AC	COUNTY PLAT	405170	3955316	17N.08E.1.123	DOM	3	12/18/1992	700	520.0	180.0	8.1	171.9	95	12.6	167.4	93	6620	BMP	
RG-56667	DON & DEBBIE WOODIN,			LOVE RANCH PARTNERS LLC		T17N R 9E S18, TR C, 20.20 AC,	COUNTY PLAT	407065	3951041	17N.09E.18.431	MUL	3	4/3/1993	725	630.0	95.0	1.6	93.4	98	3.5	91.5	96		BMP	
RG-56804	MYRON G. RIGHTMAN,							408252	3958516	18N.09E.29.114	DOM	3	3/3/1993	705	420.0	285.0	2.3	282.7	99	5.4	279.6	98		BMP	
RG-56880	PRICILLA TEMPLE,			UNFRIED, CHARLES O JR & NANCY	17 VUELTA YUCCA	T18N R 9E S32 13.30 AC, LOT 79 LA TIERRA PHASE 3	COUNTY PLAT	408027	3955725	18N.09E.32.333	DOM	3	3/12/1993	755	578.0	177.0	2.5	174.5	99	5.3	171.7	97	6766	BMP	
RG-57586	JAIME TRUJILLO,							408250	3951460	17N.09E.17.134	MUL	3	7/1/1993	700	500.0	200.0	1.6	198.4	99	3.5	196.5	98		BMP	
RG-57619	ERIC A. SAMLER,			WAGNER, LINDA J	34 RABBITBRUSH	LOT 11 LA VIDA S/D 2.012 AC, T17N R 9E S19	COUNTY PLAT	407031	3950240	17N.09E.19.124	MUL	3	2/18/1994	643	481.0	162.0	1.6	160.4	99	3.5	158.5	98		BMP	
RG-57851	SUSAN GARDNER, Trujillo		Guesthouse	TRUJILLO, RICARDO B	16 CAMINO LADERA	T17N R 9E S 5 LOT 1-D 5.060 AC,	COUNTY PLAT	409294	3955311	17N.09E.5.412	DOM	3	9/29/1993	864	520.0	344.0	1.5	342.5	100	3.5	340.5	99	6863	BMP	
RG-57909 EXPL	PETER ORDWAY,							407646	3956147	18N.09E.31.423	DOM	0	8/10/1993	900	550.0	350.0	2.5	347.5	99	5.3	344.7	98	6729	BMP	
RG-57968	SARA VACHA,			SCHNEIDER, DAVID J &	16 CAMINO CALABASAS	T17N R 9E S18 LOT 1 2.50 AC,	COUNTY PLAT	407856	3952235	17N.09E.18.222	DOM	3	8/21/1993	700	540.0	160.0	1.6	158.4	99	3.5	156.5	98		BMP	
RG-58366	HACIENDA DEL CEREZO LTD.,		HDC1	HACIENDA DEL CEREZO LTD		T18N R 9E S 1 NW4-SW4-S2, SW4-, N2-NW4 & LOT 6, T18N R 9E S18 217.113 AC,	COUNTY PLAT	406473	3960061	18N.09E.19.113	SAN	3	1/6/1994	945	396.0	549.0	3.3	545.7	99	7.3	541.7	99	6551	BMP	

Appendix C. Buckman Monitoring Area Well and Well Permit Survey

(gray highlight = well location verified with site-specific data)

NMOSE Well ID	Well Owner(s) listed in NMOSE Database	Confirmed Well Owner	Other Well Names	Parcel Owner Listed in County Parcel Database	Street Address	Lot Description	Address Source	UTM Easting, m, NAD83	UTM Northing, m, NAD83	NMOSE T.R.Sec.qqq	Use	Diver -sion, ac-ft/yr	Drilling Date	Well Depth, ft	Depth to Water, ft	Starting Water Column, ft	Model-Simulated 10-Yr Drawdown, ft	Water Column After 10 Years, ft	Percent Water Column Remaining After 10 Years	Model-Simulated 40-Yr Drawdown, ft	Water Column After 40 Years, ft	Percent Water Column Remaining After 40 Years	Land Surface Elevation, ft amsl	Moni-toring Area	Other IDs
RG-58534	CARRIE LEE KAYE,			ROSENZWOG, JANET		LOT 16 VALLECITO DE LA TIERRA, T17N R 9E S18	COUNTY PLAT	407475	3951869	17N.09E.18.223	DOM	0		800	500.0	300.0	1.6	298.4	99	3.5	296.5	99		BMP	
RG-59101	DAVID C. ZERBST,			GRANT, PETER A & JOAN C		T17N R 9E S18 5.0765 AC, LOT A-4	COUNTY PLAT	407454	3952239	17N.09E.18.212	MUL	3	3/16/1994	750	445.0	305.0	2.4	302.6	99	4.9	300.1	98		BMP	
RG-59195	MICHAEL HURLOCKER,		Los Suenos Expl	JANS, NEIL A & IRENE L	10 E CLOUD MARCH	T17N R 8E S13 2.727 AC, LOS SUENOS S/D LOT 8	COUNTY PLAT	406047	3951057	17N.08E.13.441	MUL	3	3/25/1994	845	448.7	396.3	1.6	394.7	100	3.5	392.8	99	6661	BMP	
RG-59213	MICHAEL & BARBARA OGG,	Barbara and Michael J. Ogg		OGG, MICHAEL J & BARBARA DOROB	209 HEADQUARTERS TRL	LOT 66 LA TIERRA NUEVA, T17N R 8E S 2 17.704 AC	COUNTY PLAT	404678	3955430	17N.08E.2.222	DOM	3	4/6/1994	750	500.0	250.0	8.1	241.9	97	12.6	237.4	95	6508	BMP	
RG-59386	GABRIELLE BURKE,							405044	3961179	18N.08E.13.312	DOM	0	1/15/1995	905	480.0	425.0	4.3	420.7	99	9.3	415.7	98	6516	BMP	
RG-59388	ROBERT & NANCY LEHRER,	Robert and Nancy Lehrer		LEHRER, ROBERT M & NANCY M	240 HEADQUARTERS TRL	LOT 61 LA TIERRA NUEVA, T17N R 8E S 2 12.643 AC	COUNTY PLAT	404339	3954999	17N.08E.2.222	DOM	3	4/15/1994	800	505.0	295.0	8.1	286.9	97	12.6	282.4	96	6508	BMP	
RG-59728	HELEN LOUISE SWANKY,			JACOBS, LAURENCE S & KATHERINE	60 LA SERENA TRL	T17N R 9E S19 2.992 AC, LOT 9 LA SERENA S/D	COUNTY PLAT	407035	3950641	17N.09E.18.34	DOM	0	5/4/1994	855	485.0	370.0	1.6	368.4	100	3.5	366.5	99		BMP	
RG-59973	LOUIS & BARBARA SKLAR,	Louis S. and Barbara Sklar			19 Brahma Ln	Lot 60 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	404788	3955019	17N.08E.2.122	DOM	3	8/10/1994	750	540.0	210.0	8.1	201.9	96	12.6	197.4	94	6511	BMP	
RG-60104	LEONARD & BARBARA RAND THE RAN,	Len and Barbara Rand		RAND, LEONARD M & BARBARA E	111 HEADQUARTERS TRL	LOT 73 LA TIERRA NUEVA S/D, T17N R 8E S 1	COUNTY PLAT	405218	3955382	17N.08E.1.142	DOM	3	1/20/1995	760	580.0	180.0	8.1	171.9	95	12.6	167.4	93	6641	BMP	
RG-60135	RICHARD FALLOWS,			MOTODA, DARYL M & JEANETTE W	5 TERARY CT	T17N R 8E S13 4.001 AC, LOT 5 EL PRADO S/D	COUNTY PLAT	406154	3952301	17N.08E.13.222	MUL	3	8/30/1994	800	465.0	335.0	2.4	332.6	99	4.9	330.1	99	6690	BMP	
RG-60136	RICHARD FALLOWS,		El Prado Test Well	MARX, JAMES F &	10 LUPINE CT	T17N R 8E S13 4.081 AC, LOT 4 EL PRADO S/D	COUNTY PLAT	406139	3952312	17N.08E.13.242	MUL	3	8/21/1994	810	488.8	321.2	2.4	318.9	99	4.9	316.3	98	6680	BMP	
RG-60137	RICHARD FALLOWS,		El Prado ELP2	MOTODA, DARYL M & JEANETTE W	5 TERARY CT	T17N R 8E S13 4.001 AC, LOT 5 EL PRADO S/D	COUNTY PLAT	406179	3952187	17N.08E.13.224	MUL	3	8/26/1994	830	481.8	348.2	2.4	345.9	99	4.9	343.3	99	6686	BMP	
RG-60138	RICHARD FALLOWS,		El Prado ELP3	MARCELLUS, GARY W & LINDA	35 COPPERMALLOW RD	T17N R 8E S13 4.292 AC, LOT 11 EL PRADO S/D	COUNTY PLAT	406081	3951925	17N.08E.13.241	MUL	3	9/4/1994	820	448.2	371.8	2.4	369.4	99	4.9	366.9	99	6642	BMP	
RG-60404	SHERYL M LARNER,	Richard and Staci Smith			21 Chisholm Trail	Lot 25 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	404936	3954130	17N.08E.1.331	DOM	3	12/17/1994	760	580.0	180.0	5.6	174.4	97	9.5	170.5	95	6647	BMP	
RG-61535	WILLIAM & SHARON EKLUND,			EKLUND, WILLIAM A & SHARON R	48 PASEO DE LA TIERRA	LOT 3 LA TIERRA PHASE 1, T17N R 9E S 6	COUNTY PLAT	407174	3954334	17N.09E.6.431	DOM	0	10/26/1998	750	522.0	228.0	3.4	224.6	98	6.6	221.4	97	6742	BMP	
RG-61551	TOM BLOG,			MEAD, WALTER L JR & EMILY C	29 CALLE ADELINA	T18N R 9E S30 40 AC SE4-SW4, UND INTEREST	COUNTY PLAT	406814	3957522	18N.09E.30.341	DOM	3	2/11/1995	810	580.0	230.0	4.4	225.6	98	8.4	221.6	96	6617	BMP	
RG-61944	ROBERT T RITTER,	Robert and Connie Ritter			10 SHORTHORN LN	Lot 6 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	406049	3953948	17N.08E.12.121	DOM	3	3/25/1995	710	585.0	125.0	3.4	121.6	97	6.6	118.4	95	6625	BMP	
RG-62974	RICHARD S PODMORE,			MORO, RAYMOND & IRIS D	12 DEER CIR	LOT 269 LAS CAMPANAS ESTATES, II	COUNTY PLAT	407852	3951865	17N.09E.18.224	DOM	3	1/11/1996	800	460.0	340.0	1.6	338.4	100	3.5	336.5	99		BMP	
RG-63280	LAURA BETH CLAYTON,			COST, RICHARD & STACEY	19 VUELTA CHAMISA	LOT 10 LA TIERRA PHASE 1, T17N R 9E S 6	COUNTY PLAT	406988	3955542	17N.09E.6.122	DOM	3	10/4/1995	760	490.0	270.0	4.4	265.6	98	8.1	261.9	97	6691	BMP	
RG-64419	SYLVIA SWANSON,	E. Gifford Stack and Sylvia E. Swanson		SWANSON, SYLVIA E & E GIFFORD	97 CHISHOLM TRL	LOT 36 LA TIERRA NUEVA 1, T17N R 8E S 2, 10.030 AC,	COUNTY PLAT	404293	3954920	17N.08E.2.421	DOM	3	5/31/1996	740	500.0	240.0	8.1	231.9	97	12.6	227.4	95	6620	BMP	
RG-65175	GREGORY COLE,			MEAD, WALTER L JR & EMILY C	57 CALLE ADELINA	LOT B-3 45.458 AC, T18N R 9E S30	COUNTY PLAT	407019	3957723	18N.09E.30.324	MUL	3	8/22/1996	800	560.0	240.0	4.4	235.6	98	8.4	231.6	97	6602	BMP	
RG-65180	SUKI GROSECLOSE,	Everett and Susan Groseclose		GROSECLOSE, EVERETT H & SUSAN	57 E GOODNIGHT TRL	LOT 14 LA TIERRA NUEVA, T17N R 8E S 1, 13.942 AC,	COUNTY PLAT	406081	3954653	17N.08E.1.423	SAN	3	5/10/1996	756	530.0	226.0	3.4	222.6	98	6.6	219.4	97	6695	BMP	
RG-65244	MICHAEL LAWRENCE,			TARN, NATHANIEL R TRUSTEE	77 VUELTA MARIA	LOT 27 LAS DOS PHASE 1, T18N R 9E S29 10.856 AC	COUNTY PLAT	408245	3957711	18N.09E.29.314	DOM	3	10/22/1996	800	560.0	240.0	2.5	237.5	99	5.5	234.5	98	6709	BMP	
RG-65566	PHYLLIS L. NEWCOMER,	Dr. Phyllis L. Newcomer		NEWCOMER, PHYLLIS L	79 CHISHOLM TRL	LOT 33 LA TIERRA NUEVA S/D, T17N R 8E S 2, 10.794 AC,	COUNTY PLAT	404331	3955009	17N.08E.2.421	DOM	3	5/5/1998	765	542.0	223.0	8.1	214.9	96	12.6	210.4	94	6620	BMP	
RG-65584	CHARLES HARRISON,	Charles Harrison		HARRISON, CHARLES & RAWSON,	181 CHISHOLM TRL	LOT 51 LA TIERRA NUEVA, T17N R 8E S 2 14.399 AC	COUNTY PLAT	403243	3955504	17N.08E.2.112	DOM	3	8/17/1997	755	535.0	220.0	16.0	204.0	93	20.8	199.2	91	6499	BMP	
RG-66147	ELISE WHELESS,			WHELESS, ELISE	22 VUELTA SABIO	LOT 49 LA TIERRA PHASE 2, T17N R 9E S 6 12.814 AC	COUNTY PLAT	406478	3954618	17N.09E.6.314	DOM	3	1/22/1997	750	500.0	250.0	3.4	246.6	99	6.6	243.4	97	6702	BMP	
RG-66978	CITY OF SANTA FE/CIP,							403104	3949122	17N.08E.26.111	SAN	3	5/1/1997	890	240.0	650.0	1.5	648.5	100	3.4	646.6	99	6460	BMP	
RG-67134	DAVID KENNEY,			KENNEY, DAVID	146 CALLE JOSEPHINA	T18N R 9E S19 62.502 AC, TR C	COUNTY PLAT	407241	3959929	18N.09E.19.231	DOM	3	5/26/1999	270	60.0	210.0	3.3	206.7	98	7.3	202.7	97	6543	BMP	
RG-67485	LAWRENCE BURKE,		Mariah Ranch					405067	3962076	18N.08E.13.141	DOM	3	11/25/1997	880	420.0	460.0	4.3	455.7	99	9.3	450.7	98	6522	BMP	

Appendix C. Buckman Monitoring Area Well and Well Permit Survey

(gray highlight = well location verified with site-specific data)

NMOSE Well ID	Well Owner(s) listed in NMOSE Database	Confirmed Well Owner	Other Well Names	Parcel Owner Listed in County Parcel Database	Street Address	Lot Description	Address Source	UTM Easting, m, NAD83	UTM Northing, m, NAD83	NMOSE T.R.Sec.qqq	Use	Diver -sion, ac-ft/yr	Drilling Date	Well Depth, ft	Depth to Water, ft	Starting Water Column, ft	Model-Simulated 10-Yr Drawdown, ft	Water Column After 10 Years, ft	Percent Water Column Remaining After 10 Years	Model-Simulated 40-Yr Drawdown, ft	Water Column After 40 Years, ft	Percent Water Column Remaining After 40 Years	Land Surface Elevation, ft amsl	Moni-toring Area	Other IDs
RG-68309	DAN MCCOY,			LOGAN, STANLEY & MARJORIE	150 ESTRADA REDONDA	T18N R 9E S32 11.65 AC, LOT 89 LA TIERRA PHASE 3	COUNTY PLAT	408034	3956504	18N.09E.32.133	DOM	3	9/10/1997	700	550.0	150.0	2.5	147.5	98	5.5	144.5	96	6785	BMP	
RG-68712	DENNIS & MARLYS WHITE,			WHITE, MARLYS RUTH	48 E ESTRADA CALABASA	LOT 54 LA TIERRA PHASE 2, T18N R 9E S31 10.134 AC	COUNTY PLAT	407365	3955733	18N.09E.31.434	DOM	3	4/10/1998	740	520.0	220.0	4.4	215.6	98	8.1	211.9	96	6674	BMP	
RG-69121	GREGORY SWENDSEN,			BELL, SUSAN H	185 CALLE JOSEPHINA	T18N R 9E S19 12.50 AC, TR A-1	COUNTY PLAT	406438	3959936	18N.09E.19.131	DOM	3	6/8/1998	760	404.0	356.0	3.3	352.7	99	7.3	348.7	98	6551	BMP	
RG-69782	RICHARD & HELEN WOLFORD,	Richard and Helen Wolford			103 Chisholm Trail	Lot 37 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	404106	3955085	17N.08E.2.233	MUL	3	6/13/1998	785	572.0	213.0	16.0	197.0	92	20.8	192.2	90	6569	BMP	
RG-70634	STEPHEN KIRSCHENBAUM,		Hacienda del Cerezo HDC2	HACIENDA DEL CEREZO LTD		T18N R 9E S 1 NW4-SW4-S2, SW4-, N2-NW4 & LOT 6, T18N R 9E S18 217.113 AC,	COUNTY PLAT	406851	3960801	18N.09E.18.341	DOM	3	2/24/1999	800	426.0	374.0	3.3	370.7	99	7.3	366.7	98	6587	BMP	
RG-71056	SUSAN B. HADLEY,			VELTMANN, JOSEPH R JR	TANO RD	T17N R 9E S 5 5.02 AC LOT 1A,	COUNTY PLAT	409408	3954304	17N.09E.5.442	MUL	3	12/15/1998	923	660.0	263.0	1.3	261.7	100	3.0	260.0	99		BMP	
RG-71298	FRANK P.L. AND LYNNE S. MINAR,	Frank and Lynne Minard		MINARD, FRANK P L & LYNNE S	161 HEADQUARTERS TRL	LOT 70 LA TIERRA NUEVA, T17N R 8E S36 24.159 AC	COUNTY PLAT	405074	3955773	18N.08E.36.334	DOM	3	11/22/1993	700	580.0	120.0	8.1	111.9	93	12.6	107.4	90	6558	BMP	
RG-71558	GAIL & PATRICK CASEY,			FARLEY, TERRANCE C & JOAN C	23 VUELTA YUCCA	T18N R 9E S32 12.75 AC, LOT 81 LA TIERRA PHASE 3	COUNTY PLAT	408429	3955921	18N.09E.32.341	DOM	3	6/11/1999	800	515.0	285.0	2.5	282.5	99	5.3	279.7	98	6781	BMP	
RG-71583	JOYCE LIBUTTI,			HARRIS, JOHN G & M CHRISTINE	13 PASEO DEL PAJARO	T17N R 9E S 5 8.510 AC, TRACT B-3-D	COUNTY PLAT	408803	3954513	17N.09E.5.413	MUL	3	3/17/1999	853	440.0	413.0	2.1	410.9	99	4.5	408.5	99	6857	BMP	
RG-71688	STEPHEN A. GIBSON,			GARCIA, ANGEL E &	71 BLUESTEM DR	T17N R 9E S 8 2.052 AC, LOT 7 COLINAS VERDES	COUNTY PLAT	408702	3953859	17N.09E.8.21	DOM	3	3/28/1999	851	645.0	206.0	2.1	203.9	99	4.5	201.5	98		BMP	
RG-71728	WILLIAM BUCHANAN,	William Buchanan and Ellen Walton			135 Chisholm Trail	Lot 43 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	403821	3954959	17N.08E.2.141	DOM	3	4/21/1999	750	485.0	265.0	16.0	249.0	94	20.8	244.2	92	6526	BMP	
RG-71748	KING BROTHERS RANCH,		Rancho de los Ninos Expl	GONZALES, GEORGE A & CELINE V	57 CALLE HACIENDA	LOT 14 RANCHO DE LOS NINOS SD, T17N R 8E S23 2.500 AC	COUNTY PLAT	403911	3950729	17N.08E.23.21		0	4/13/1999	854	407.8	446.2	2.5	443.7	99	5.1	441.1	99	6575	BMP	
RG-71811	MICHAEL & LEE MORE,			MORE, J MICHAEL & LEE	52 E ESTRADA CALABASA	LOT 55 LA TIERRA PHASE 2, T18N R 9E S31 10.438 AC	COUNTY PLAT	407503	3955730	18N.09E.31.434	DOM	3	5/4/1999	760	465.0	295.0	2.5	292.5	99	5.3	289.7	98	6674	BMP	
RG-72263	JON WOLFE,							407827	3958118	18N.09E.30.244	DOM	3	7/31/1999	820	690.0	130.0	2.3	127.7	98	5.4	124.6	96	6615	BMP	
RG-72292	GEORGE GOZIGIAN,			GOZIGIAN, GEORGE & JEANNE T	30 E ESTRADA CALABASA	LOT 52 LA TIERRA PHASE 2, T18N R 9E S31 10.180 AC	COUNTY PLAT	407022	3955736	18N.09E.31.344	DOM	3	6/30/1999	750	610.0	140.0	4.4	135.6	97	8.1	131.9	94	6649	BMP	
RG-72317	KING BROTHERS RANCH,			GALLEGOS, FRANK & ELIZABETH	16 VIA DE ESTRELLAS	T17N R8E S23 2.500 AC, TRACT 4B-4B1	COUNTY PLAT	403214	3949828	17N.08E.23.31		3	9/28/1999	802	244.0	558.0	2.5	555.5	100	5.1	552.9	99	6526	BMP	
RG-72349	GERALD AND KATHLEEN PETERS,		Wilderness Estates	WILDERNESS ESTATES DEVELOPMENT		T17N R 8E S24 40.00 AC, NW1/4 SE1/4	COUNTY PLAT	405489	3949905	17N.08E.24.411	DOM	3	7/18/1999	740	404.2	335.8	2.1	333.7	99	4.4	331.4	99	6614	BMP	
RG-72551	TOBY LOVATO,							408275	3951460	17N.09E.17.143	DOM	3	11/26/1999	660	255.0	405.0	1.6	403.4	100	3.5	401.5	99		BMP	
RG-72697	PHILIP & BERNADETTE WIEGEL,			DAVIDSON, KENNETH J	157 VUELTA MARIA	LOT 31 LAS DOS PHASE 1, T18N R 9E S29 11.048 AC	COUNTY PLAT	408249	3958113	18N.09E.29.134	DOM	3	10/16/1999	780	400.0	380.0	2.3	377.7	99	5.4	374.6	99	6683	BMP	
RG-72765	MARIE A DUPREE,			WYSS, A WALTER		T17N R 9E S 5 5.19 AC TR B2C,	COUNTY PLAT	408903	3954208	17N.09E.5.43	DOM	3	2/20/2001	1000	660.0	340.0	2.1	337.9	99	4.5	335.5	99	6918	BMP	
RG-72864	FRANK GALLEGOS,			GALLEGOS, FRANK & ELIZABETH	16 VIA DE ESTRELLAS	T17N R8E S23 2.500 AC, TRACT 4B-4B1	COUNTY PLAT	403214	3949828	17N.08E.23.31	DOM	3	11/16/1999	600	396.0	204.0	2.5	201.5	99	5.1	198.9	97	6526	BMP	
RG-72865	ANDREW & LUCINDA LEYBA,			SISNEROS, DIEGO J & DORIN K	6 CAMINO DE REY CIR	T17N R 8E S23 & 26 2.500 AC, TRACT 4C-3	COUNTY PLAT	403151	3949549	17N.08E.23.31	DOM	3	9/30/1999	800	244.0	556.0	1.5	554.5	100	3.4	552.6	99	6498	BMP	
RG-72866	RICHARD AND STEPHNIE PATTERSON, Leyba		600	LEYBA, ANDREW M & LUCINDA M	7 CAMINO DE REY CIR	T17N R 8E S23 & 26 2.5104 AC, LOT 2	COUNTY PLAT	403236	3949568	17N.08E.23.313	DOM	3	4/16/2001	600	33.0	567.0	1.5	565.5	100	3.4	563.6	99	6522	BMP	
RG-73539	ANTHONY MARK,			TRUJILLO, RICARDO &	10 CAMINO LADERA	T17N R 9E S 5 2.523 AC, LOT 2-C-1	COUNTY PLAT	409409	3955317	17N.09E.5.224	DOM	3	10/7/2000	820	527.0	293.0	1.5	291.5	99	3.5	289.5	99	6846	BMP	
RG-73694	RICHARD ROGERS,			DIBACHI, FARZAD TRUSTEE	33 CAMINO MONTUOSO	LOT 75 LA TIERRA PHASE 2, T18N R 9E S31 50.169 AC	COUNTY PLAT	407630	3957111	18N.09E.31.221	DOM	3	6/28/2000	780	485.0	295.0	2.5	292.5	99	5.5	289.5	98	6694	BMP	
RG-74635	MARIA CRISTINA KENNEY,			KENNEY GRANDCHILDRENS	50 CALLE ADELINA	T18N R 9E S30 21.056 AC, TR D	COUNTY PLAT	406823	3958125	18N.09E.30.143	DOM	3	3/8/2003	780	452.0	328.0	3.8	324.2	99	7.9	320.1	98	6575	BMP	
RG-74646	MARTIN LUJAN,			KING BROTHERS RANCH	KING BROTHERS RANCH	T17N R8E S23 77.187 AC, TRACT 3	COUNTY PLAT	403118	3950329	17N.08E.23.131	MUL	3	9/2/2000	600	400.0	200.0	2.5	197.5	99	5.1	194.9	97	6519	BMP	
RG-74740	GLENN G ROYBAL,			MARES, ANTHONY & MERRILYN	11 AVENIDA DE MERCEDES	T17N R8E S23 2.520 AC, TRACT A-3	COUNTY PLAT	403109	3949325	17N.08E.23.333		0	9/26/2000	600	347.0	253.0	1.5	251.5	99	3.4	249.6	99	6486	BMP	
RG-74741	GLENN G ROYBAL,			COKER, ROBERT & BARBARA COHEN	3 AVENIDA DE MERCEDES	T17N R8E S23 2.520 AC, TRACT A-1	COUNTY PLAT	403117	3949436	17N.08E.23.331		0	9/21/2000	700	284.8	415.2	1.5	413.7	100	3.4	411.8	99	6502	BMP	
RG-74811	ELIZABETH GLASCOCK,	Frank Carter and Toquaiah Jackson		CARTER, FRANK C & TOQUAIAH	180 CHISHOLM TRL	LOT 50 LA TIERRA NUEVA, T17N R 8E S 2 14.846 AC	COUNTY PLAT	403610	3955520	17N.08E.2.111	DOM	3	1/8/2001	860	427.0	433.0	16.0	417.0	96	20.8	412.2	95	6522	BMP	

Appendix C. Buckman Monitoring Area Well and Well Permit Survey

(gray highlight = well location verified with site-specific data)

NMOSE Well ID	Well Owner(s) listed in NMOSE Database	Confirmed Well Owner	Other Well Names	Parcel Owner Listed in County Parcel Database	Street Address	Lot Description	Address Source	UTM Easting, m, NAD83	UTM Northing, m, NAD83	NMOSE T.R.Sec.qqq	Use	Diver -sion, ac-ft/yr	Drilling Date	Well Depth, ft	Depth to Water, ft	Starting Water Column, ft	Model-Simulated 10-Yr Drawdown, ft	Water Column After 10 Years, ft	Percent Water Column Remaining After 10 Years	Model-Simulated 40-Yr Drawdown, ft	Water Column After 40 Years, ft	Percent Water Column Remaining After 40 Years	Land Surface Elevation, ft amsl	Moni-toring Area	Other IDs
RG-74926	DEBORAH K. ROMERO, Borrego		Borrego	GONZALES, PATRICIO M &	5 CALLE QUERIDO	LOT 19 RANCHO DE LOS NINOS SD, T17N R 8E S23 2.500 AC	COUNTY PLAT	403984	3950389	17N.08E.23.232	MUL	3	12/8/2000	700	387.0	313.0	2.5	310.5	99	5.1	307.9	98	6566	BMP	
RG-75059	RONALD SCHNEIDER,			BOYD, BRIAN	7 CAMINO MONTUOSO	LOT 18 LA TIERRA PHASE 1, T17N R 9E S31	COUNTY PLAT	407233	3957115	18N.09E.31.211	DOM	3	5/3/2001	820	572.0	248.0	4.4	243.6	98	8.4	239.6	97	6627	BMP	
RG-75069	KENDERDINE CONSTRUCTION	Seymour Grufferman and Sue Kimm			14 Brahma Lane	Lot 57 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	404659	3954875			0	10/4/2001	735	500.0	235.0	8.1	226.9	97	12.6	222.4	95		BMP	
RG-75084	RICHARD A. GALAZ,			GALAZ, RICHARD A & MICHELLE Y	83 PASEO DE ESTRELLAS	LOT 7 RANCHO DE LOS NINOS SD, T17N R 8E S23 2.500 AC	COUNTY PLAT	404179	3950298	17N.08E.23.232	MUL	3	12/4/2000	700	390.0	310.0	2.5	307.5	99	5.1	304.9	98	6536	BMP	
RG-75096	TERRANCE C FARLEY,			FARLEY, TERRANCE C & JOAN C	23 VUELTA YUCCA	T18N R 9E S32 12.75 AC, LOT 81 LA TIERRA PHASE 3	COUNTY PLAT	408429	3955721	18N.09E.32.343	DOM	3	3/23/2001	780	520.0	260.0	2.5	257.5	99	5.3	254.7	98	6808	BMP	
RG-75172	RICHARD C STERTZ,			HUNTER, MICHAEL L & LORI A	22 PASEO DEL VENADO	T17N R 9E S 9 5.010 AC, LOT 4 TR A	COUNTY PLAT	409100	3953485	17N.09E.8.223	MUL	3	2/2/2001	820	609.0	211.0	1.3	209.7	99	3.0	208.0	99		BMP	
RG-75191	GILDA GLASSCOCK WILSON,							406586	3955145	17N.09E.6.132	MUL	3	2/13/2001	760	492.0	268.0	4.4	263.6	98	8.1	259.9	97	6620	BMP	
RG-75232 POD1	SUSAN SEIFERT,			SKY LIMIT LLC		T17N R 8E S23 4.780 AC, PARCEL B	COUNTY PLAT	403565	3950078	17N.08E.23.143	MUL	3	9/30/2002	700	364.0	336.0	2.5	333.5	99	5.1	330.9	98		BMP	
RG-75233 POD1	MICHAEL G MELLOS, APPR			MELLOS, MICHAEL G & CAROLYN O	10 HACIENDA CT	LOT 22 LA VILLA ESCONDIDA, T17N R 8E S23 3.140 AC	COUNTY PLAT	403798	3950154	17N.08E.23.144	MUL	3	5/8/2001	700	375.0	325.0	2.5	322.5	99	5.1	319.9	98		BMP	
RG-75234 POD1	MELISSA PESSARRA, APPR			STANFORD, ANTHONY & LORRAINE	6 HACIENDA CT	LOT 23 LA VILLA ESCONDIDA, T17N R 8E S23 3.090 AC	COUNTY PLAT	403701	3950128	17N.08E.23.143	MUL	3	11/11/2001	700	381.0	319.0	2.5	316.5	99	5.1	313.9	98		BMP	
RG-75236	CAJA DEL RIO, LLC,			BORREGO, ROBERT R & DEBORAH K	2 CALLE CURIOSO	LOT 17 RANCHO DE LOS NINOS SD, T17N R 8E S23 2.500 AC	COUNTY PLAT	404120	3950320	17N.08E.23.232		0	3/10/2001	700	387.0	313.0	2.5	310.5	99	5.1	307.9	98	6536	BMP	
RG-75454 POD1	ALFRED LOPEZ, VALERIE LOPEZ			STANFORD, ANTHONY & LORRAINE	6 HACIENDA CT	LOT 23 LA VILLA ESCONDIDA, T17N R 8E S23 3.090 AC	COUNTY PLAT	403650	3950173	17N.09E.17.113	MUL	3	3/6/2001	700	378.0	322.0	2.5	319.5	99	5.1	316.9	98		BMP	
RG-75455 POD1	GEORGE M COHEN,			BOB DIJANNI CUSTOM HOMES, INC	11 CALLE HACIENDA	L0T 3 LA VILLA ESCONDIDA, T17N R 8E S23 3.370 AC	COUNTY PLAT	403523	3950282	17N.09E.17.112	MUL	3	11/16/2001	700	391.0	309.0	2.5	306.5	99	5.1	303.9	98		BMP	
RG-75456	SKYLIMIT LLC,		Rancho de los Ninos	COHEN, GEORGE M & LINDA S	38 CALLE HACIENDA	LOT 12 LA VILLA ESCONDIDA, T17N R 8E S23 2.750 AC	COUNTY PLAT	403696	3950710	17N.09E.17.114		0	7/18/2001	700	294.7	405.3	2.5	402.8	99	5.1	400.2	99	6564	BMP	
RG-75553	CHAD SNOW,			SNOW, CHAD & RENAE	19 S VUELTA HERRADURA	T18N R 9E S32 14.49 AC, LOT 113 LA TIERRA PHASE 3	COUNTY PLAT	409031	3955722	18N.09E.32.434	DOM	3	4/25/2001	820	584.0	236.0	2.5	233.5	99	5.3	230.7	98	6907	BMP	
RG-75566	JAMES G. BATTERMANN, APPR			MONTOYA, MELISSA J		T17N R 9E S 5 5.05 AC, TR B-4-C	COUNTY PLAT	409003	3954713	17N.09E.5.412	MUL	3	3/8/2002	800	650.0	150.0	2.5	147.5	98	5.3	144.7	96	6863	BMP	
RG-75570	GLENN CONROY,			HACIENDA DEL CEREZO LTD		T18N R 9E S19 & 18 23.086 AC, 9OT 3	COUNTY PLAT	407044	3960134	18N.09E.19.124	DOM	3	3/12/2001	760	422.0	338.0	3.3	334.7	99	7.3	330.7	98	6531	BMP	
RG-75956	MICHAEL W. & MARCIA YOUNG,			MEAD, WALTER L JR & EMILY C	57 CALLE ADELINA	LOT B-3 45.458 AC, T18N R 9E S30	COUNTY PLAT	406616	3957728	18N.09E.30.314	DOM	3	7/17/2001	800	419.0	381.0	4.4	376.6	99	8.4	372.6	98	6572	BMP	
RG-76065	GREG STRATTON,			CRYSTAL INC		T17N R 9E S 5 113.52 AC, LOT 4	COUNTY PLAT	407992	3954926	17N.09E.5.133	MUL	3	8/3/2001	800	522.0	278.0	2.5	275.5	99	5.3	272.7	98	6761	BMP	
RG-76305	JOHN G HARRIS,			COIMBRA, CLIF & CHARAINE	3 LAS KATRINAS RD	T17N R 9E S 5 2.510 AC, TRACT 1D LOT 1	COUNTY PLAT	409408	3954915	17N.09E.5.244	DOM	3	10/18/2001	880	352.0	528.0	1.5	526.5	100	3.5	524.5	99		BMP	
RG-76696	DONALD L & BARBARA E SHIRES,			GALLEGOS, FRANK & ELIZABETH	16 VIA DE ESTRELLAS	T17N R8E S23 & 26 5.993 AC, TRACT 4B-4B2	COUNTY PLAT	403313	3949727	17N.08E.23.314	MUL	3	11/20/2001	560	395.0	165.0	1.5	163.5	99	3.4	161.6	98	6519	BMP	
RG-77195	GERALD A. BECKER,			DIBACHI, FARZAD TRUSTEE	33 CAMINO MONTUOSO	LOT 75 LA TIERRA PHASE 2, T18N R 9E S31 50.169 AC	COUNTY PLAT	407630	3956911	18N.09E.31.223	DOM	3	7/12/2002	805	465.0	340.0	2.5	337.5	99	5.5	334.5	98	6756	BMP	
RG-77258	THERESA MARTINEZ,							408250	3951460	17N.09E.17.134	DOM	3	5/15/2004	700	600.0	100.0	1.6	98.4	98	3.5	96.5	96		BMP	
RG-77426	RICHARD B MCCURDY,			MCCURDY, RICHARD B TRUSTEE	60 E ESTRADA CALABASA	LOT 57 LA TIERRA S/D PH 2, T18N R 9E S31 10.992 AC	COUNTY PLAT	407825	3955729	18N.09E.31.444		3	4/24/2002	800	508.0	292.0	2.5	289.5	99	5.3	286.7	98	6727	BMP	
RG-77553	CAROL METCHICK,	Robert Metchick	Shared Well 2		11 Sundance Drive	Block 1/Lot 12, Sundance Estates	John Miles Smith, 6/19/08 email	410418	3955100	17N.09E.4.231	MUL	3	5/10/2002	900	505.0	395.0	1.5	393.5	100	3.5	391.5	99	6972	TR	
RG-77563	MANANA LLC,			BRILLIANT, B KAY	41 CAMINO HASTA MANANA	T17N R 9E S 5 2.530 AC, LOT 1-B, TRACT A,	COUNTY PLAT	409408	3955115	17N.09E.5.242		0	8/30/2002	800	380.0	420.0	1.5	418.5	100	3.5	416.5	99	6881	BMP	
RG-77758	LETITIA A KRAKOWSKI,			MOTT, JOHN B & LETITIA A	24 VISTA CALABASAS	T17N R 9E S18 5.030 AC NW4, W/IN	COUNTY PLAT	406675	3952247	17N.09E.18.121	DOM	3	3/7/2003	800	224.0	576.0	2.4	573.6	100	4.9	571.1	99		BMP	
RG-77820	MARY LYNN OLIVER	William L. Oliver, Jr., and Mary Lynn Oliver		OLIVER, WILLIAM L & MARY LYNN	36 Headquarters Trail	LOT 17 LA TIERRA NUEVA, T17N R 8E S 1 11.0904 AC	COUNTY PLAT, 9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	405664	3954590		DOM	3	2/14/2003	780	456.0	324.0	5.6	318.4	98	9.5	314.5	97		BMP	
RG-77912	VICTOR BALLAS,			CONROY, GLENN C & JANE E	166 CALLE JOSEPHINA	T18N R 9E S19 12.50 AC, TR B-1	COUNTY PLAT	407040	3959933	18N.09E.19.142		0	10/16/2002	800	380.0	420.0	3.3	416.7	99	7.3	412.7	98	6542	BMP	

Appendix C. Buckman Monitoring Area Well and Well Permit Survey

(gray highlight = well location verified with site-specific data)

NMOSE Well ID	Well Owner(s) listed in NMOSE Database	Confirmed Well Owner	Other Well Names	Parcel Owner Listed in County Parcel Database	Street Address	Lot Description	Address Source	UTM Easting, m, NAD83	UTM Northing, m, NAD83	NMOSE T.R.Sec.qqq	Use	Diver -sion, ac-ft/yr	Drilling Date	Well Depth, ft	Depth to Water, ft	Starting Water Column, ft	Model-Simulated 10-Yr Drawdown, ft	Water Column After 10 Years, ft	Percent Water Column Remaining After 10 Years	Model-Simulated 40-Yr Drawdown, ft	Water Column After 40 Years, ft	Percent Water Column Remaining After 40 Years	Land Surface Elevation, ft amsl	Moni-toring Area	Other IDs
RG-78027	ADRIAN & KRISTIN GRIGGS,	Adrian Griggs and Kristin Martinez			56 Goodnight Trail	Lot 10 La Tierra Nueva	9/2/04 Charles Harrison submittal to Louis O'Dell, NMOSE	406232	3954594	17N.08E.1.241	DOM	3	1/3/2003	720	492.0	228.0	3.4	224.6	98	6.6	221.4	97	6614	BMP	
RG-78304	MONTOYA GRANDCHILDREN'S TRUST,			CRYSTAL INC		T17N R 9E S 5 113.52 AC, LOT 4	COUNTY PLAT	408192	3954926	17N.09E.5.134		3	9/15/2004	840	448.0	392.0	2.5	389.5	99	5.3	386.7	99	6798	BMP	
RG-78324	PATRICIA JOHNSTON,			FRANK YARDMAN CONSTRUCTION	110 PASEO DEL CONEJO	T17N R 9E S 5 2.50 AC, TR B-1-A LOT 3-B	COUNTY PLAT	407976	3955044	17N.09E.5.133	DOM	3	9/20/2004	840	462.0	378.0	2.5	375.5	99	5.3	372.7	99	6761	BMP	
RG-78325	MONTOYA GRANDCHILDREN'S TRUST,			ROUNSVILLE, WILLIAM J	28 CONEJO TRL	T17N R 9E S5 6.70 AC, LOT 2	COUNTY PLAT	408690	3955091	17N.09E.5.142		3	12/30/2002	900	535.0	365.0	2.5	362.5	99	5.3	359.7	99		BMP	
RG-78339	RUBEN ARCHULETA,			CRYSTAL INC		T17N R 9E S 5 113.52 AC, LOT 4	COUNTY PLAT	407982	3954124	17N.09E.5.333	DOM	3	1/8/2003	840	582.0	258.0	2.1	255.9	99	4.5	253.5	98	6818	BMP	
RG-78343	RUBEN ARCHULETA,			CRYSTAL INC		T17N R 9E S 5 113.52 AC, LOT 4	COUNTY PLAT	407982	3954124	17N.09E.5.333	DOM	3	9/13/2004	840	438.0	402.0	2.1	399.9	99	4.5	397.5	99	6818	BMP	
RG-78347	RICHARD A MONTOYA,			HUNTER, MICHAEL L & LORI A	22 PASEO DEL VENADO	T17N R 9E S 9 5.010 AC, LOT 4 TR A	COUNTY PLAT	409100	3953485	17N.09E.8.223		3	11/29/2002	800	520.0	280.0	1.3	278.7	100	3.0	277.0	99		BMP	
RG-78348	RUBEN ARCHULETA,			CRYSTAL INC		T17N R 9E S 5 113.52 AC, LOT 4	COUNTY PLAT	407982	3954124	17N.09E.5.333	DOM	3	10/11/2004	840	473.0	367.0	2.1	364.9	99	4.5	362.5	99	6818	BMP	
RG-78354	RUBEN ARCHULETA,			CRYSTAL INC		T17N R 9E S 5 113.52 AC, LOT 4	COUNTY PLAT	407982	3954124	17N.09E.5.333	DOM	3	12/30/2002	900	535.0	365.0	2.1	362.9	99	4.5	360.5	99	6818	BMP	
RG-78355	RUBEN ARCHULETA,			CRYSTAL INC		T17N R 9E S 5 113.52 AC, LOT 4	COUNTY PLAT	407982	3954124	17N.09E.5.333	DOM	3	9/24/2003	840	488.0	352.0	2.1	349.9	99	4.5	347.5	99	6818	BMP	
RG-78415	TIERRA ENTERPRISES LLC,			LARKIN, ROBERT J & BARBARA E	12 INDIGO CT	LOT 8 LA VIDA S/D 3.044 AC, T17N R 9E S19	COUNTY PLAT	407433	3950236	17N.09E.19.214		0	7/3/2003	663	486.0	177.0	1.6	175.4	99	3.5	173.5	98		BMP	
RG-78419	MICHAEL MAC CORQUODALE,			MOREAU, JOAN M	19 W ESTRADA CALABASA	LOT 31 LA TIERRA PHASE 1, T17N R 9E S31	COUNTY PLAT	406399	3956121	18N.09E.31.313	MUL	3	6/20/2003	820	478.0	342.0	4.4	337.6	99	8.1	333.9	98	6692	BMP	
RG-78879	CAROLE D PULLO,			PULLO, CAROLE D	6 PASEO DEL PALOMA	T17N R 9E S 5 2.590 AC, TRACT B-1-D, LOT 1,	COUNTY PLAT	409038	3954118	17N.09E.5.433	MUL	3	7/15/2005	780	575.0	205.0	2.1	202.9	99	4.5	200.5	98	6888	BMP	
RG-78889	STEPHEN ETRE,			WILLIAMS, MARK R & ORLY V	10 SIERRA LAVANDA	T17N R 9E S19 LOT 4-A-4 2.5AC,	COUNTY PLAT	407027	3949809	17N.09E.19.322	MUL	3	1/10/2003	760	423.0	337.0	1.0	336.0	100	2.5	334.5	99		BMP	
RG-78962	ROD HONSTEIN,			HONSTEIN, RODERICK N & ANNE W	46 PASEO DEL PAISANO	T17N R 9E S 5 5.06 AC TR B2B,	COUNTY PLAT	408925	3954349	17N.09E.5.431	DOM	3	4/5/2003	800	571.0	229.0	2.1	226.9	99	4.5	224.5	98	6871	BMP	
RG-79460	WALLACE WHITE JR,			CLIFTON, PERLA	16 PASEO DEL VENADO	T17N R 8E S 8 5.040 AC, LOT 4 TR B	COUNTY PLAT	409269	3953509		MUL	3	3/20/2003	800	486.0	314.0	1.3	312.7	100	3.0	311.0	99		BMP	
RG-79509	PAUL SCHMIDT,					Lot 41, La Tierra		406889	3954249	17N.09E.6.342		0	4/8/2003	800	456.0	344.0	3.4	340.6	99	6.6	337.4	98	6745	BMP	
RG-79511	ELISE W SCHMIDT,			WHELESS, ELISE	37 VUELTA TOMAS	LOT 46 LA TIERRA PHASE 2, T17N R 9E S 6 11.890 AC	COUNTY PLAT	406517	3954287	17N.09E.6.331		0	4/21/2003	800	442.0	358.0	3.4	354.6	99	6.6	351.4	98	6687	BMP	
RG-79512	ELISE W SCHMIDT,			SCHMIDT, ELISE WHELESS & PAUL	20 VUELTA SABIO	LOT 48 LA TIERRA PHASE 2, T17N R 9E S 6 14.815 AC	COUNTY PLAT	406749	3954427	17N.09E.6.312		0	4/14/2003	800	462.0	338.0	3.4	334.6	99	6.6	331.4	98	6718	BMP	
RG-79548	CAROL A JOHNSON,			BALANCE POINT ENTERPRISES	16 PASEO DEL CONEJO	T17N R 9E S 5, TR B-1-A2, 2.67 AC,	COUNTY PLAT	408802	3954107	17N.09E.5.433		3	2/21/2003	840	466.0	374.0	2.1	371.9	99	4.5	369.5	99	6888	BMP	
RG-79574	JAMES NICKELL,			STEWART TITLE GUARANTY CO	2 ESCOPETA CT	T17N R 9E S19 2.511 AC, LOT H-2	COUNTY PLAT	407437	3950606	17N.09E.19.212	MUL	3	5/19/2003	660	474.0	186.0	1.6	184.4	99	3.5	182.5	98		BMP	
RG-79603	CLINTON HORN,			WEATHERFORD, JANICE L &	60 TIERRA GRANDE	T17N R 9E S19 2.450 AC, LOT 15 TIERRA GRANDE S/D	COUNTY PLAT	406897	3949478	17N.09E.19.321	MUL	3	3/14/2003	665	460.0	205.0	1.0	204.0	100	2.5	202.5	99		BMP	
RG-80255	JONATHAN BEAMER,			BEAMER, JONATHAN & FRAN SALKIN		T17N R 9E S18 LOT 3-A 5.0 AC,	COUNTY PLAT	406983	3951951	17N.09E.18.142	DOM	3	11/15/2004	800	455.0	345.0	2.4	342.6	99	4.9	340.1	99	6670	BMP	
RG-80390	ABBIE BEN CORRIZ,			CORRIZ, ABBIE BEN	4654 SAN YSIDRO PL	T17N R 9E S32 2.50 AC, TR 8-A2	COUNTY PLAT	408153	3947295	17N.08E.23.144	MUL	3	7/14/2003	560	382.0	178.0	0.5	177.5	100	1.4	176.6	99	6539	BMP	
RG-80431	RON SMITH,			SUERTE DEL SUR, LLC	160 LOS SUENOS TRL	T17N R 9E S19 35.00 AC, LOT 2	COUNTY PLAT	406629	3950214	17N.09E.19.132	MUL	3	7/17/2003	560	385.0	175.0	1.6	173.4	99	3.5	171.5	98		BMP	
RG-80940	CYNTHIA FOWLER,			HOYT, SUZANNE & LINDA WEIL	127 W ESTRADA CALABASA	T18N R 8E S36 1074.650 AC N2 &, PORT S2 RANCH & HEADQTRS, LIVESTOCK ON ACCT 970001777,	COUNTY PLAT	405718	3956026		DOM	3	10/30/2005	692	352.0	340.0	8.1	331.9	98	12.6	327.4	96	6581	BMP	
RG-81036	GRANT HOLLAND,			BALANCE POINT ENTERPRISES	22 PASEO DEL CONEJO	T17N R 9E S 5, 2.50 AC, TR B-1-A1,	COUNTY PLAT	408763	3954148	17N.09E.5.433	MUL	3	4/2/2004	905	575.0	330.0	2.1	327.9	99	4.5	325.5	99	6888	BMP	
RG-81127	CALLE ALEGRE,							401299	3950384		MUL	3	8/13/2004	700	245.0	455.0	2.6	452.4	99	5.4	449.6	99	6417	BMP	
RG-81323	TIERRA DE LA VIDA LLC,			TIERRA DE LA VIDA, LLC	25 SENDERO DE LA VIDA	LOT 14 TIERRA DE LA VIDA, T17N R 9E S19 2.27 AC	COUNTY PLAT	406990	3949876	17N.09E.19.322	MUL	3	6/12/2004	760	435.0	325.0	1.6	323.4	100	3.5	321.5	99		BMP	
RG-81771	DEAN PRESTON,			WAGGONER, ALAN S & KAREN	11 PASEO DEL HALCON	T17N R 9E S 5 5.01 AC LOT 1C,	COUNTY PLAT	409208	3954304	17N.09E.5.441	DOM	3	4/16/2004	800	465.0	335.0	1.3	333.7	100	3.0	332.0	99	6926	BMP	
RG-81838	SUZANNE HOYT GARCIA REVOCABLE,			HOYT, SUZANNE & LINDA WEIL	127 W ESTRADA CALABASA	T18N R 8E S36 1074.650 AC N2 &, PORT S2 RANCH & HEADQTRS, LIVESTOCK ON ACCT 970001777,	COUNTY PLAT	405595	3956349	18N.08E.36.411	STK	3	10/8/2004	1100	550.0	550.0	7.5	542.5	99	12.5	537.5	98	6516	BMP	
RG-81854	SUZANNE H GARCIA IRREVOCABLE T,							401428	3961018	18N.08E.16.424		3	4/17/2004	910	724.0	186.0	10.6	175.4	94	17.1	168.9	91	6305	BMP	

Appendix C. Buckman Monitoring Area Well and Well Permit Survey

(gray highlight = well location verified with site-specific data)

NMOSE Well ID	Well Owner(s) listed in NMOSE Database	Confirmed Well Owner	Other Well Names	Parcel Owner Listed in County Parcel Database	Street Address	Lot Description	Address Source	UTM Easting, m, NAD83	UTM Northing, m, NAD83	NMOSE T.R.Sec.qqq	Use	Diver -sion, ac-ft/yr	Drilling Date	Well Depth, ft	Depth to Water, ft	Starting Water Column, ft	Model-Simulated 10-Yr Drawdown, ft	Water Column After 10 Years, ft	Percent Water Column Remaining After 10 Years	Model-Simulated 40-Yr Drawdown, ft	Water Column After 40 Years, ft	Percent Water Column Remaining After 40 Years	Land Surface Elevation, ft amsl	Moni-toring Area	Other IDs
RG-81860	SUZANNE HOYT GARCIA REVOCABLE,			HOYT, SUZANNE & LINDA WEIL	127 W ESTRADA CALABASA	T18N R 8E S36 1074.650 AC N2 &, PORT S2 RANCH & HEADQTRS, LIVESTOCK ON ACCT 970001777,	COUNTY PLAT	405416	3956671	18N.08E.36.134	STK	3	7/31/2004	695	398.9	296.1	7.5	288.6	97	12.5	283.6	96	6462	BMP	
RG-81861	SUZANNE HOYT GARCIA REVOCABLE,			HOYT, SUZANNE & LINDA WEIL	127 W ESTRADA CALABASA	T18N R 8E S36 1074.650 AC N2 &, PORT S2 RANCH & HEADQTRS, LIVESTOCK ON ACCT 970001777,	COUNTY PLAT	405388	3955950	18N.08E.36.342	STK	3	9/29/2004	850	460.0	390.0	8.1	381.9	98	12.6	377.4	97	6517	BMP	
RG-82184	JACQUES CONSTANT,		New	EBERSOLE, GARY E & KATHY F	CAMINO LOS SUENOS	T17N R 9E S19 2.50 AC, LOT 2-2 NORTHWEST RANCHES S/D, PHASE 1,	COUNTY PLAT	406339	3950675	17N.09E.19.321	MUL	3	5/14/2004	900	485.0	415.0	1.6	413.4	100	3.5	411.5	99	6690	BMP	
RG-82337	JIM MCELROY,			STERTZ, RICHARD C	25 PASEO DEL CONEJO	T17N R 9E S 5 2.880 AC, TR B-2-D LOT 1	COUNTY PLAT	408740	3954194		DOM	3	5/26/2004	840	432.0	408.0	2.1	405.9	99	4.5	403.5	99	6903	BMP	
RG-82398	HYDE PARK ASSOCIATES LLC,			LA VIDA DEVELOPMENT CORP		T17N R 9E S19 3.573 AC, OPEN SPACE LA VIDA S/D	COUNTY PLAT	407433	3950205	17N.09E.19.232	MUL	3	6/28/2004	660	486.0	174.0	1.6	172.4	99	3.5	170.5	98		BMP	
RG-82635	FRANK YARDMAN,			MARK, ANTHONY	8 CAMINO LADERA	T17N R 9E S 5 5.056 AC, LOT 2-D	COUNTY PLAT	409457	3955356	17N.09E.5.224	DOM	3	10/8/2004	840	465.0	375.0	1.5	373.5	100	3.5	371.5	99	6846	BMP	
RG-83022	RICHARD BARELA,			STERTZ, RICHARD & GINNIE	17 PASEO DEL VENADO	T17N R 9E S 8 5.00 AC, LOT 1 TR C	COUNTY PLAT	409208	3953726		DOM	3	6/29/2004	800	558.0	242.0	1.3	240.7	99	3.0	239.0	99		BMP	
RG-83025	KALOKO LAND CORPORATION,			STERTZ, RICHARD C & MARTHA V	10 VISTA DEL CIELO	LOT 11 LAS CORDILLERAS S/D, PHASE II 5.373 AC, T17N R 9E S 4 & 5,	COUNTY PLAT	409408	3954509	17N.09E.5.424		3	9/23/2005	860	569.0	291.0	1.3	289.7	100	3.0	288.0	99	6938	TR/BMP	
RG-83026	ERIC FREEMAN,			STERTZ, RICHARD C & MARTHA V	10 VISTA DEL CIELO	LOT 11 LAS CORDILLERAS S/D, PHASE II 5.373 AC, T17N R 9E S 4 & 5,	COUNTY PLAT	409408	3954509	17N.09E.5.424		3	9/8/2005	860	447.0	413.0	1.3	411.7	100	3.0	410.0	99	6938	TR/BMP	
RG-83027	KALOKO LAND CORPORATION,			FIRST NATIONAL BANK AS CUSTOD	33 PASEO DEL FONDO	LOT 18 LAS CORDILLERAS S/D, PHASE II 3.597 AC, T17N R 9E S 4 & 5,	COUNTY PLAT	409208	3954709	17N.09E.5.421		3	9/16/2005	860	484.0	376.0	1.5	374.5	100	3.5	372.5	99	6912	TR/BMP	
RG-83782	PRADEEP SAFAYA,			HAPKA, CATHERINE M &	79 HEADQUARTERS TRL	TOT 75 LA TIERRA NUEVA, T17N R 8E S 1	COUNTY PLAT	405381	3955135	17N.08E.1.142	DOM	3	2/10/2005	995	487.0	508.0	8.1	499.9	98	12.6	495.4	98	6641	BMP	
RG-83907	DARCY CRENSHAW,			COWLES, MACON	6 CAMINO CIELO	T17N R 9E S18 2.50 AC, LOT 5-B	COUNTY PLAT	406646	3951877	17N.09E.18.114	DOM	3	10/3/2005	680	476.0	204.0	2.4	201.6	99	4.9	199.1	98		BMP	
RG-83947	PETER DEUBER,							408777	3954335	17N.09E.5.431		0	4/6/2005	840	467.0	373.0	2.1	370.9	99	4.5	368.5	99	6871	BMP	
RG-83952	DIANE BARELA,			BANDARI, HENRIK & KIRKORIAN,	73 PASEO DEL CONEJO	T17N R 9E S 5 3.250 AC, TRACT B-2, LOT 1-B-2,	COUNTY PLAT	408645	3954903		DOM	3	11/5/2005	800	556.0	244.0	2.5	241.5	99	5.3	238.7	98	6800	BMP	
RG-84125	JOEL MCHORSE,			ARENA, DREW C & ELISE PINKOW	44 SONRISA TRL	T17N R 9E S18 23.982 AC, TRACT B	COUNTY PLAT	406830	3951348			3	12/2/2005	800	495.0	305.0	1.6	303.4	99	3.5	301.5	99	6722	BMP	
RG-84708	ROBERT ELLIG,			COYOTE CREEK CONSTRUCTION LLC	114 PASEO DEL CONEJO	T17N R 9E S 5 2.50 AC, TR B-1-A LOT 3-A	COUNTY PLAT	407992	3955126	17N.09E.5.131	DOM	3	7/31/2006	820	426.0	394.0	2.5	391.5	99	5.3	388.7	99	6757	BMP	
RG-84781	REGINA FLORES,			FLORES, RANDY & REGINA	6 VIA DE ESTRELLAS	T17N R8E S23 2.500 AC, TRACT 4B-4A-2A	COUNTY PLAT	403364	3949790	17N.08E.23.314	DOM	3	7/2/2005	580	375.0	205.0	1.5	203.5	99	3.4	201.6	98	6519	BMP	
RG-85496	RON WHITMORE,			MILLER, MARK C	3 VUELTA LINDA	T18N R 9E S32 11.32 AC, LOT 107 LA TIERRA PHASE 3	COUNTY PLAT	408636	3956500	18N.09E.32.144	DOM	3	2/11/2006	800	439.0	361.0	2.5	358.5	99	5.5	355.5	98	6820	BMP	
RG-85584	LEESA KEY,			MONTOYA, RICHARD TRUSTEE OF	TANO RD	T17N R 9E S 5 5.05 AC, TR B-4-A	COUNTY PLAT	408686	3954691	17N.09E.5.322	DOM	3	7/28/2005	840	477.0	363.0	2.5	360.5	99	5.3	357.7	99		BMP	
RG-85585	EDWARD KIRKORIAN,			CRYSTAL INC		T17N R 9E S 5 113.52 AC, LOT 4	COUNTY PLAT	407982	3954124	17N.09E.5.333	DOM	3	7/22/2005	840	448.0	392.0	2.1	389.9	99	4.5	387.5	99	6818	BMP	
RG-85662	KAREN J POWELL,			GREENBERG, MARK &	25 SONRISA TRL	LOT 2 SONRISA S/D 4.047 AC, T17N R 9E S18	COUNTY PLAT	406521	3951582	17N.09E.18.		3	1/27/2006	700	450.0	250.0	2.4	247.6	99	4.9	245.1	98	6647	BMP	
RG-86289	CHARLES UNFRIED,			TEMPLE, HUNTER M & PRISCILLA B	21 VUELTA YUCCA	T18N R 9E S32 11.59 AC, LOT 80 LA TIERRA PHASE 3	COUNTY PLAT	408227	3955725	18N.09E.32.334	DOM	3	2/4/2006	780	488.0	292.0	2.5	289.5	99	5.3	286.7	98	6796	BMP	
RG-86789	ANTHONY PADILLA,			BRILLIANT, B KAY	41 CAMINO HASTA MANANA	T17N R 9E S 5 2.530 AC, LOT 1-B, TRACT A,	COUNTY PLAT	409408	3955115	17N.09E.5.242	DOM	3	5/5/2006	800	517.0	283.0	1.5	281.5	99	3.5	279.5	99		BMP	
RG-87173	VINCENT STENERSON,			STENERSON, VINCENT &	40 CALLE JOSEPHINA	T18N R 9E S30 14.151 AC, LOT 2-C	COUNTY PLAT	407225	3958321	18N.09E.30.231	DOM	3	3/29/2007	750	395.0	355.0	3.8	351.2	99	7.9	347.1	98		BMP	
RG-87265	FARZAD DIBACHI,							407620	3956553	18N.09E.31.243	MUL	3	5/26/2006	800	532.0	268.0	2.5	265.5	99	5.5	262.5	98		BMP	
RG-87519	LANA PARK,			CRYSTAL INC		T17N R 9E S 5 113.52 AC, LOT 4	COUNTY PLAT	408293	3954725	17N.09E.5.221	DOM	1	12/23/2007	780	406.0	374.0	2.5	371.5	99	5.3	368.7	99		BMP	
RG-87734	THOMAS GONZALES,			KING BROTHERS RANCH	34 PASEO DE ESTRELLAS	T17N R 8E S23 13.287 AC, TRACT 5-1A	COUNTY PLAT	403515	3949722	17N.08E.23.323		0	6/20/2006	600	327.0	273.0	1.5	271.5	99	3.4	269.6	99		BMP	
RG-88268	THOMAS WEHNER,			CRYSTAL INC		T17N R 9E S 5 113.52 AC, LOT 4	COUNTY PLAT	408187	3954525	17N.09E.5.314	DOM	3	1/18/2007	840	505.0	335.0	2.1	332.9	99	4.5	330.5	99		BMP	
RG-88666	RAMON L ROMERO,			KING BROTHERS RANCH	KING BROTHERS RANCH	T17N R8E S23 77.187 AC, TRACT 3	COUNTY PLAT	403114	3950177	17N.08E.23.	DOM	1	4/9/2007	800	362.0	438.0	2.5	435.5	99	5.1	432.9	99		BMP	
RG-88950 POD1	JOSEPH D ALBILLAR,			BRANCH, DENNIS R		T17N R 9E S18 17.400 AC TR D4, NW4	COUNTY PLAT	406850	3952374	17N.09E.18.	DOM	1	4/11/2007	700	375.0	325.0	2.4	322.6	99	4.9	320.1	98		BMP	
RG-89138 POD1	MARK SPAULDING,			SPAULDING, MARK R	40 CALLE JOSEPHINA	T18N R 9E S30 15.103 AC, LOT 2-B	COUNTY PLAT	407121	3958483	18N.09E.30.124	DOM	1	5/25/2007	800	368.0	432.0	3.8	428.2	99	7.9	424.1	98		BMP	

Appendix C. Buckman Monitoring Area Well and Well Permit Survey

(gray highlight = well location verified with site-specific data)

NMOSE Well ID	Well Owner(s) listed in NMOSE Database	Confirmed Well Owner	Other Well Names	Parcel Owner Listed in County Parcel Database	Street Address	Lot Description	Address Source	UTM Easting, m, NAD83	UTM Northing, m, NAD83	NMOSE T.R.Sec.qqq	Use	Diver -sion, ac-ft/yr	Drilling Date	Well Depth, ft	Depth to Water, ft	Starting Water Column, ft	Model-Simulated 10-Yr Drawdown, ft	Water Column After 10 Years, ft	Percent Water Column Remaining After 10 Years	Model-Simulated 40-Yr Drawdown, ft	Water Column After 40 Years, ft	Percent Water Column Remaining After 40 Years	Land Surface Elevation, ft amsl	Moni-toring Area	Other IDs
RG-89212 POD1	DAVID ROBB,	William H. Moore		MOORE, WILLIAM H & DOROTHY B	178 CHISHOLM TRL	LOT 52 LA TIERRA NUEVA S/D, T17N R08E S2 17.936 AC	COUNTY PLAT	403225	3955515	17N.08E.2.113	DOM	1	9/5/1983	700	580.0	120.0	16.0	104.0	87	20.8	99.2	83		BMP	
RG-89456	MARK GAYER,			WERNER, JOHN C	4 PASEO DEL HALCON	T17N R 9E S 5, LOT 2A-1	COUNTY PLAT	409164	3954110	17N.09E.5.	DOM	1	9/6/2007	800	569.0	231.0	1.3	229.7	99	3.0	228.0	99		BMP	
	J.A. Ortiz,							401971	3962996	18N.08E.10.143			1961	560	524.0	36.0	9.0	27.0	75	15.1	20.9	58	6370	BMP	M-18
	Eric Sloane,							406835	3956782	18N.09E.31.141			1976	634	491.0	143.0	4.4	138.6	97	8.4	134.6	94	6680	BMP	M-24
	David A. Ater,			PROTHRO, CHARLES V	24 VUELTA SUSANA	LOT 24 LA TIERRA PHASE 1, T18N R 9E S31, 13.634 AC,	COUNTY PLAT	406515	3956726	18N.09E.31.131			1976	727	557.0	170.0	4.4	165.6	97	8.4	161.6	95	6725	BMP	M-23
	Milo Earhard,			BOGLE, GLENN G & SUSAN R	218 PASEO DE LA TIERRA	LOT 16 LA TIERRA PHASE 1, T17N R 9E S31	COUNTY PLAT	406931	3956586	18N.09E.31.143			1976	673	497.0	176.0	4.4	171.6	98	8.4	167.6	95	6680	BMP	M-26
	Norman L. Ringhand,			BOGLE, GLENN G & SUSAN R	218 PASEO DE LA TIERRA	LOT 16 LA TIERRA PHASE 1, T17N R 9E S31	COUNTY PLAT	407046	3956731	18N.09E.31.142			1975	804	460.0	344.0	4.4	339.6	99	8.4	335.6	98	6660	BMP	M-25
	Western Cattle Co.,			NEWCOMER, PHYLLIS L	79 CHISHOLM TRL	LOT 33 LA TIERRA NUEVA S/D, T17N R 8E S 2, 10.794 AC,	COUNTY PLAT	404379	3954619	17N.08E.2.423			1970	1000	574.0	426.0	5.6	420.4	99	9.5	416.5	98	6640	BMP	M-2
	Nuclear Dynamics, Inc.,							399180	3960054	18N.08E.20.231			1970	990	193.0	797.0	20.9	776.1	97	27.8	769.2	97	6065	BMP	M-19
	Nuclear Dynamics, Inc.,							397818	3962287	18N.08E.7.434			1970	1000	65.0	935.0	19.3	915.7	98	26.3	908.7	97	5875	BMP	M-17
	Nuclear Dynamics, Inc.,							401791	3956065	18N.08E.34.332			1970	1985	380.0	1605.0	13.3	1591.7	99	18.7	1586.3	99	6320	BMP	M-21
	Western Cattle Co.,	Edward L. and Donna W. Klopfer		KLOPFER, EDWARD L & DONNA L	40 W ESTRADA CALABASA	T18N R 8E S36 & T17N R 8E S 1, 60.04 AC	COUNTY PLAT	405847	3955481	17N.08E.1.212			-	1500	395.0	1105.0	8.1	1096.9	99	12.6	1092.4	99	6543	BMP	M-1
	Nuclear Dynamics, Inc.,							403103	3952509	17N.08E.11.333			1970	1000	130.0	870.0	4.5	865.5	99	8.0	862.0	99	6445	BMP	M-3
	Summer A. Weld,			CRAWFORD, JOHN F & BETTY	28 ARROYO CALABASAS RD	617N R 9E S18 5.00 AC TR A,	COUNTY PLAT	407591	3952262	17N.09E.18.221			1975	588	543.0	45.0	1.6	43.4	97	3.5	41.5	92	6785	BMP	M-15
	Nuclear Dynamics, Inc.,							401541	3949586	17N.08E.22.331			1970	1000	212.0	788.0	1.5	786.5	100	3.6	784.4	100	6440	BMP	M-4
	Nuclear Dynamics, Inc.,							396671	3964509	18N.07E.1.422			1970	1000	0.0	1000.0	59.7	940.3	94	65.6	934.4	93	5680	BMP	M-16
								395610	3965942				1939	191	0.0	191.0	65.9	125.1	66	69.1	121.9	64	5555	BMP	M-27