

Draft: Groundwater Well Assistance Program Annual Needs Assessment 2026

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EXECUTIVE SUMMARY

This report comprises the Post Oak Savannah Groundwater Conservation District (POSGCD) Groundwater Assistance Program (GWAP) Annual Needs Assessment for 2026, hereafter referred to as GANA. The objective of the GANA is to identify eligible wells where water levels are likely to decline below the elevation of the pump setting within the next 10 years. To be eligible for funding under the GWAP, a well must be: (1) either a low-capacity permitted well or an exempt well used for domestic and/or livestock use, and, (2) completed in any aquifer in the District other than the Trinity Aquifer, Yegua-Jackson Aquifer and river alluvial or terraced formations. POSGCD currently estimates that there are 5,294 eligible wells.

The report identifies high-priority wells based on simulations of a modified pumping future pumping scenario created by GMA 12 to develop its DFCs. The high-priority classification requires that the pump elevation of the well is known. For a well to be classified as a high-priority well, the following two conditions need to be met: (1) its simulated water level in 2026 is greater than 15 ft above the pump elevation, and (2) its simulated water level in 2036 is less than 15 ft above the elevation of its pump elevation.

A primary reason for identifying high-priority wells is to forecast the financial requirements for POSGCD GWAP. The purpose of GWAP is to provide technical and/or financial assistance to well owners to help prevent the loss of water supply in wells caused by regional water level declines for wells that met the GWAP eligibility criteria. Since 2020, POSGCD has lowered the pump in 141 wells. One-hundred-four of the 141 GWAPs are screened in the Carrizo Aquifer. Prior to GWAP-related field investigations, POSGCD estimates that about 55% to 65% of the GWAP wells did not have pump depth information in their database. Moreover, POSGCD does not have the pump setting for about 78% of the 4,089 exempt wells eligible for GWAP and about 50% of the 196 permitted low-capacity wells. The lack of pump information for most of the eligible wells introduces a large amount of uncertainty in predicting the number of wells that will require GWAP assistance in the future.

To help address the problems associated with the missing pump settings for most of the eligible GWAP wells, the report develops and implements a method of analysis for estimating the number of wells without pump setting that would likely be identified as a high-priority well if the pump setting was known. The end-result of application of the analysis method is an estimate of the number of wells that are designated as moderate-priority wells. The report identifies a total of 100 high-priority wells and 42 moderate priority wells. The distribution of these two well groupings among the aquifer type is tabulated below:

Aquifer	Number of Wells		
	High-Priority	Moderate-Priority	Total
Sparta	2	0	2
Queen City	2	0	2
Carrizo	68	26	94
Calvert Bluff	14	16	30
Simsboro	8	0	8
Hooper	6	0	6
TOTAL	100	42	142

The assessment of high-priority and moderate-priority wells is highly dependent on the well construction information and on predictive groundwater modeling. The modeling relies on assumptions regarding well data, future pumping scenarios and the accuracy of historical pumping values. Since these assumptions may not always be valid, some wells that are designated as high-priority or moderate-priority may not require assistance within the next 10 years. Therefore, future GANA reports would benefit from POSGCD efforts to develop accurate model predictions and to maintain a comprehensive and accurate well database. Among the well data that will be highly beneficial to POSGCD management of groundwater resources is to measure water levels in the wells annually. This data will directly help with evaluating compliance with POSGCD Desired Future Conditions and Protective Drawdown Limits and with the development of POSGCD operational groundwater model.

Disclaimer and Study Limitations

The findings contained in this report represent INTERA's professional opinion arrived in accordance with applicable professional standards and based upon analysis of information available at the time the report was produced. The report was prepared at the request of the Post Oak Savannah Groundwater Conservation District (POSGCD) to support on-going assessment of the District's aquifers, groundwater resources, and management policies. This report is a technical analysis and may or may not be partially or wholly consistent with the POSGCD Board's policies or current thinking. Because groundwater management is an adaptive process, updates and changes to the report findings may be appropriate as conditions change and new information becomes available.

There are two important limitations of this study: the assumed pumping distribution and missing information regarding the vertical placement of the well screens. The report's simulated drawdowns are based on GMA 12's PS-4-2-Modified (Version 8) pumping scenario. At the time this report was prepared, this pumping scenario was being considered by GMA 12 for development of the fourth-round DFCs. Because the joint-planning process is ongoing, GMA 12 may ultimately adopt a different pumping scenario before the conclusion of joint planning in 2026. If a different scenario is selected that materially changes the pumping assumptions applicable to this study, the draft will be updated as appropriate. Approximately 80% of the POSGCD registered wells do not have well screen information. In order to include these known well locations and wells into the assessment, assumptions were made on the vertical placement of the unknown well screens based on the placement of known well screens. If future analysis or data shed light indicate meaningful bias in our methodology, will we update the assumptions and analyses as appropriate.

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ACRONYMS AND ABBREVIATIONS

%	percent
AFY	acre-feet per year
BVGCD	Brazos Valley Groundwater Conservation District
DEM	Digital Elevation Model
DFCs	Desired Future Conditions
ft	feet
GAM	groundwater availability models
GANA	Groundwater Assistance Program Annual Needs Assessment
GMA	Groundwater Management Area
gpm	gallons per minute
GWAP	Groundwater Well Assistance Program
ID	identification
NED	National Elevation Dataset
LPGCD	Lost Pines Groundwater Conservation District
POSGCD	Post Oak Savannah Groundwater Conservation District
PS	Pumping Scenario
TWDB	Texas Water Development Board

1.0 INTRODUCTION

This report comprises the Post Oak Savannah Groundwater Conservation District (POSGCD, or “District”) Groundwater Well Assistance Program (GWAP) Annual Needs Assessment for 2026, referred to herein as the GANA. According to the POSGCD GWAP documentation (POSGCD, 2020), the GANA:

“Shall identify high-priority wells that are projected to experience water level declines below the pump within the next 10 years. The projections will be based on an integration of two sources of information. One source will be water level predictions from the GAM. The other source will be adjustments to GAM model predictions based on potential biases in the GAM simulations.”

This report documents the process used to identify high-priority wells and provides a discussion of the tools and assumptions used to make this assessment as well as prioritize the wells based upon their need for assistance over the next 10 years. Finally, the report reviews GANA findings and makes recommendations for improving both the GWAP and the GANA to achieve District goals.

1.1 GWAP Background

GWAP was created to assist owners of exempted and low-capacity permitted wells (typically domestic and livestock) whose water levels are projected to decline below the pump from regional groundwater production in Groundwater Management Area (GMA) 12 over the course of the next decade. GWAP is a proactive program meant to identify high-priority wells in the District projected to experience water level declines below their pump during typical operations from groundwater production in the District and GMA 12. A second objective is to provide technical and/or financial assistance to well owners to help prevent the loss of water supply in high-priority wells. While meant to be proactive, assistance under GWAP may include temporarily restoring a water supply to those well owners should a situation arise where the water level in a well has dropped below the pump before corrective action has taken place.

The following sections describe the methodology used to identify priority wells that should be investigated by POSGCD. The District Water Resource Management Specialist has the primary responsibility of recommending appropriate actions to be taken.

2.0 DATA SOURCES SUPPORTING THE ASSESSMENT

There are several types of data required to perform the GANA. These data include information regarding exempt and permitted POSGCD wells, monitoring well data from the POSGCD Monitoring Well Network, and future predicted aquifer water levels using the groundwater availability models (GAMs) used by the POSGCD to simulate Desired Future Conditions (DFCs) in the relevant POSGCD aquifers. Each of these data sources will be described in the following subsections of this report.

2.1 Eligible Wells

According to the POSGCD GWAP documentation (POSGCD, 2020), to be eligible for assistance in the GWAP, a well must meet the following criteria:

1. Located in Milam or Burleson counties
2. Functional and registered with the District
3. Accessible for monitoring water levels by POSGCD
4. Owner must agree to allow monitoring by POSGCD
5. Either a low-capacity permitted well that produces less than 50 gallons per minute (gpm) OR an exempt well used for domestic and/or livestock use as defined in the District's Rules
6. Completed in any aquifer in the District other than the Trinity Aquifer, Yegua-Jackson Aquifer and river alluvial or terraced formations
7. May not be covered by a mitigation agreement included in a permit issued by the District or required by the State of Texas

POSGCD maintains an online database of all wells registered in the District (<https://posgcd.halff.com>). The HALFF database was used to help identify wells eligible for assistance. Well information needed to determine wells potentially eligible includes whether they are exempt or non-exempt (permitted) status and, if they are permitted, whether they are incapable of producing greater than 50 gpm. Other important well attributes include the aquifer in which the well is completed and well completion details, particularly the pump setting depth. **Table 1** summarizes the total number of exempt wells in the POSGCD HALFF database completed in GWAP-eligible aquifers and indicates how many of those wells have recorded pump setting depths. **Appendix A** provides maps of the locations of the exempt wells that are currently registered by POSGCD in the aquifers relevant to this analysis. **Figure 1** shows the locations of exempt wells completed in the Carrizo Aquifer, also provided in Appendix A.

Table 1 All Exempt Wells in POSGCD in Eligible Aquifers

Aquifer	Has Pump Depth Information	No Pump Information	Total Eligible Exempt Wells
Sparta	198	1041	1239
Queen City	234	1137	1371
Carrizo	183	430	613
Calvert Bluff	225	523	748
Simsboro	112	461	573
Hooper	192	497	689
TOTAL	1,144	4,089	5,233

For this report, a well is considered a low-capacity, permitted well (eligibility requirement #5) if the maximum production pumping capacity of the permitted well in the HALFF database is 50 gpm or less and the well is completed in an eligible aquifer (eligibility requirement #6). If the maximum production capacity of the well is not listed in the database, a well would also be included if the average annual permitted production is less than 81 acre-feet, which is equivalent to pumping continuously at a rate of 50 gpm for an entire year. **Table 2** provides the total number of permitted wells that meet requirements #5 and #6, along with an accounting of how many of those wells have pump depth in the HALFF database. **Table 3** provides the total number of exempt and permitted wells eligible for the GWAP and summarized by aquifer. **Appendix B** shows the locations of the low-capacity permitted wells that are currently registered by POSGCD. **Figure 2** shows the map of low-capacity permitted well locations for the Carrizo Aquifer provided in Appendix B.

Table 2 Permitted wells in POSGCD with an average annual permitted production of 50 gallons per minute or less in eligible aquifers

Aquifer	Has Pump Depth Information	No Pump Depth Information	Total Eligible Permitted (Low Capacity) Wells
Sparta	14	24	38
Queen City	12	18	30
Carrizo	13	5	18
Calvert Bluff	31	23	54
Simsboro	16	18	34
Hooper	12	10	22
TOTAL	98	98	196

Table 3 Number of exempt and permitted wells eligible for the GWAP by aquifer

Aquifer	Total Eligible Exempt Wells	Total Eligible Permitted Wells	Total Eligible Wells
Sparta	212	1,065	1,277
Queen City	235	1,155	1,390
Carrizo	95	435	530
Calvert Bluff	240	546	786
Simsboro	123	479	602
Hooper	202	507	709
TOTAL	1,107	4,187	5,294

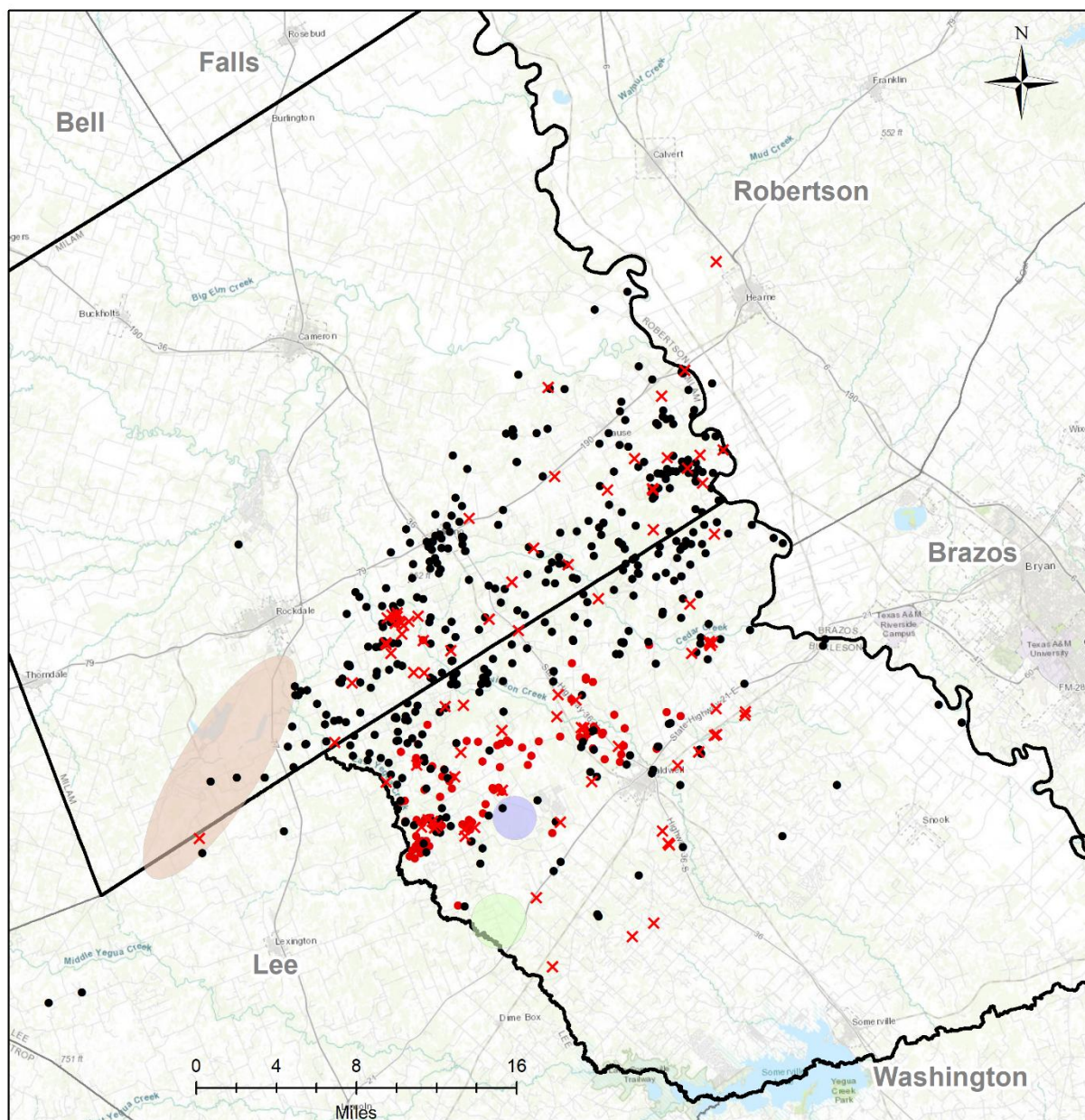
There are 5,294 eligible wells in the POSGCD database of which 5,233 wells are exempt while 196 are low-capacity permitted wells meeting the capacity requirement for eligibility. The depth to the well pump is only known for 22 percent (%) of the exempt wells and 50% of the low-capacity permitted wells.

As will be discussed, if an eligible well is found to be a high-priority well, the POSGCD will attempt to characterize the well completion details through cooperation with the well owner to make it eligible for corrective action. Throughout the analysis, individual wells will be referenced by their POSGCD

identification (ID). Any well owner can obtain the POSGCD ID for a well by contacting the POSGCD office in Milano, Texas.

2.2 Monitoring Network

One of the eligibility requirements for well owners to receive assistance from the GWAP is to agree to allow POSGCD to monitor the water level and or water quality in their well. Depending on its location, the POSGCD may decide to incorporate the well into the POSGCD network of groundwater monitoring wells. **Figure 3** shows the locations and aquifer assignments for 580 wells in the aquifers Sparta, Queen City, Carrizo, Calvert Bluff, Simsboro, Hooper and Yegua-Jackson, currently in the POSGCD network. The POSGCD uses measured water levels from the POSGCD monitoring wells to evaluate the aquifer conditions and to improve its understanding of the groundwater system. One of the evaluations performed by POSGCD is to determine whether the aquifer water levels are in compliance with the DFCs that POSGCD has for its aquifers. Currently, the DFCs are expressed as a maximum amount of water level change that can occur over a 60-year period. The POSGCD also uses the measured water levels to update and improve the capability of groundwater models to predict the impact of future pumping on water level change.



Carrizo

- | | | | |
|---|------------------------|---|-----------------------------------|
|  | 130 Well Field |  | Exempt with Pump Depth (n=89) |
|  | SLR Well Field |  | Exempt without Pump Depth (n=430) |
|  | Vista Ridge Well Field |  | Exempt GWAP (n=95) |
|  | POSGCD Boundary | | |
|  | County Line | | |

Figure 1 Locations of eligible exempt wells completed in the Carrizo Aquifer

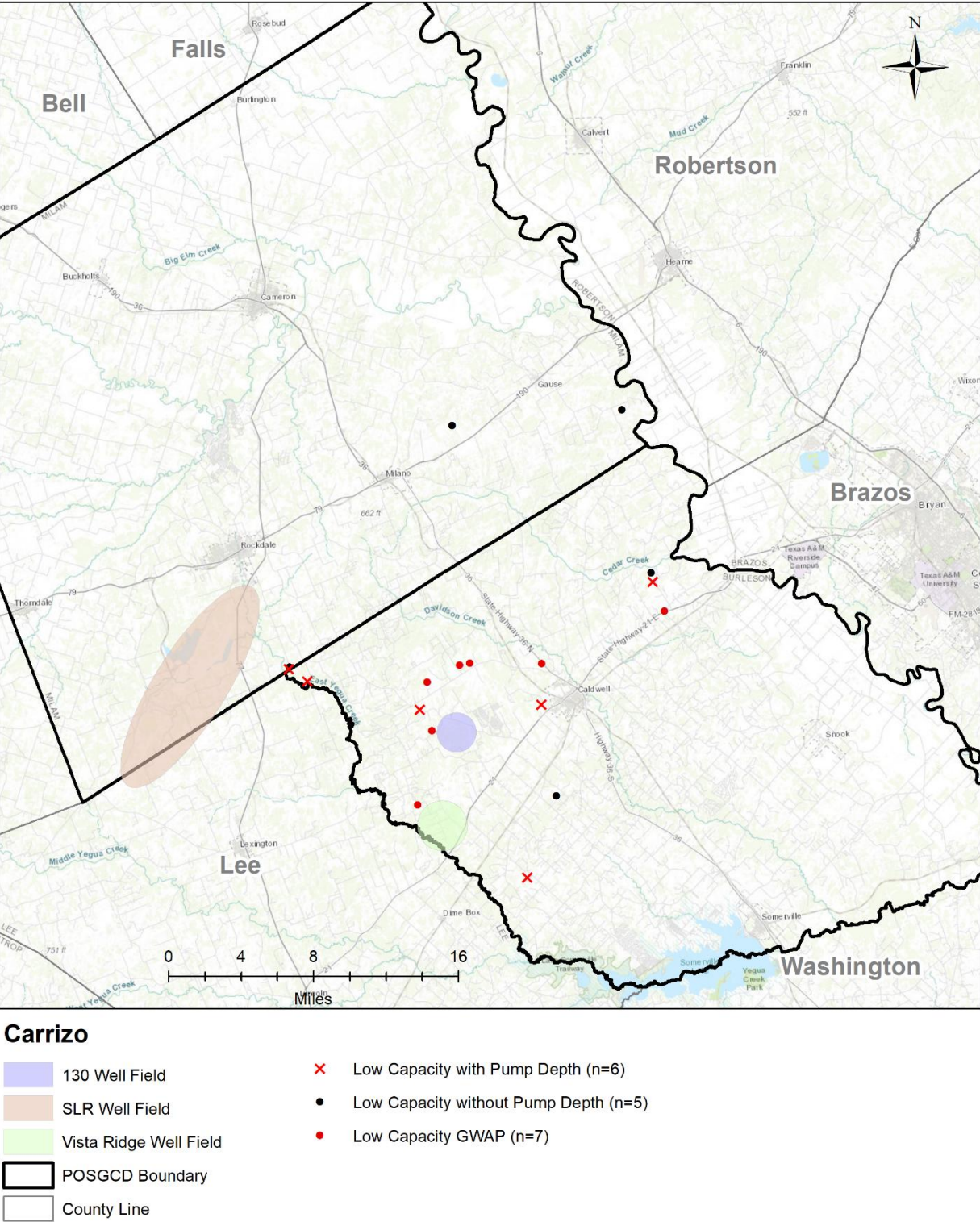


Figure 2 Locations of eligible low-capacity permitted wells completed in the Carrizo Aquifer

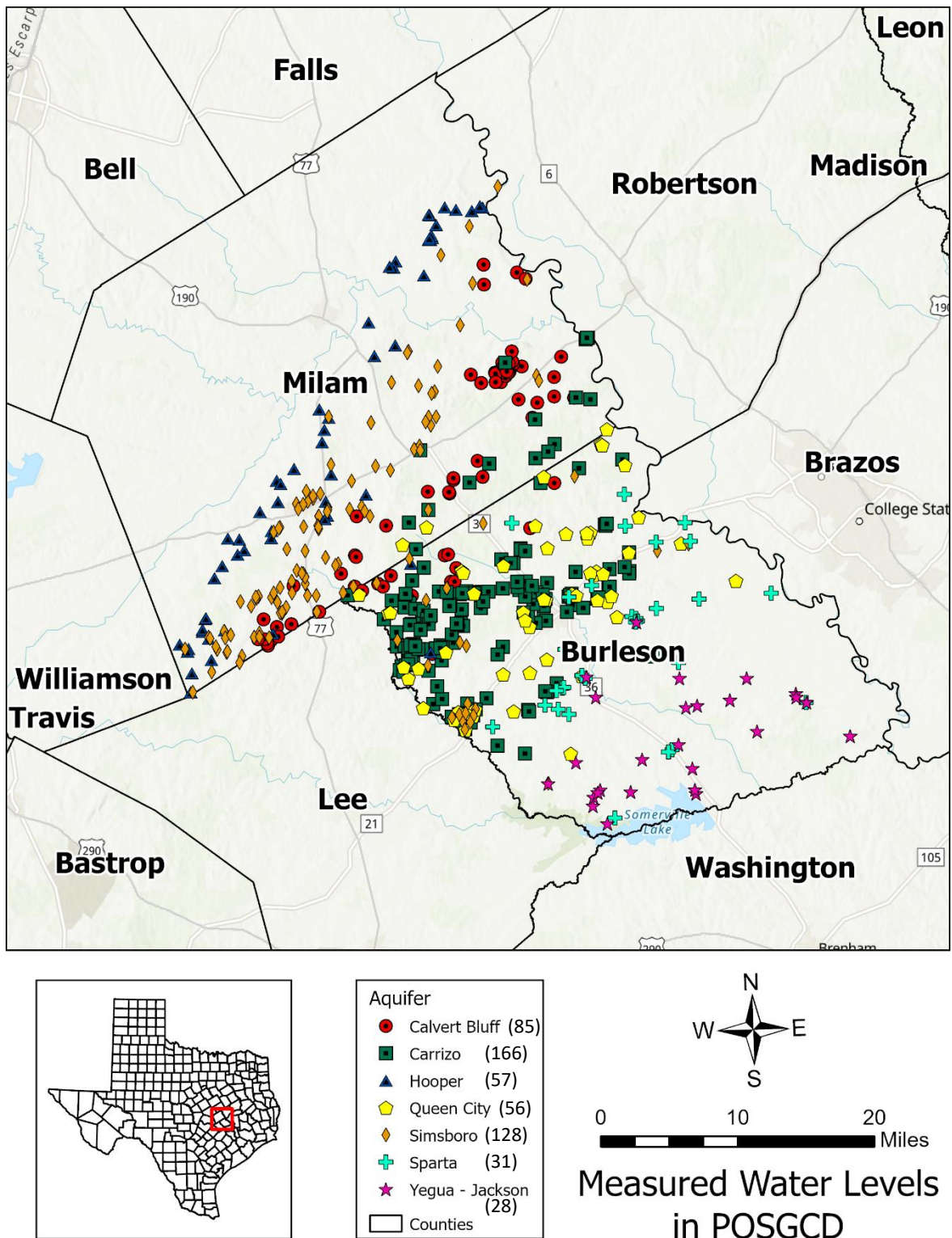


Figure 3 Monitoring wells in POSGCD Groundwater Monitoring Network

2.3 Modeled Groundwater Water Levels

As part of the joint planning process in GMA 12, POSGCD uses the updated Texas Water Development Board (TWDB) Central Queen City, Sparta and Carrizo-Wilcox GAM to simulate changes in water levels in response to future pumping. The updated Queen City, Central Sparta and Carrizo-Wilcox GAM is accepted by the TWDB as the best available science for the region (Young and others, 2018). In 2020, the GMA 12 consultants agreed to incorporate new aquifer test data in the Simsboro in the vicinity of the Vista Ridge Project to improve model parameters in that area. The revised GAM was documented (Young and others, 2020), reviewed by the TWDB, and has been developed with stakeholder review and comment.

In 2021, POSGCD collected measured water levels for the first year of pumping from the Vista Ridge monitoring project. Monitoring wells are shown in Figure 3. The additional data warranted another update to the Central Queen City, Sparta and Carrizo-Wilcox GAM which used the monitoring well data from December 2019 through July 2021. The parameter estimation code PEST++ IES (iterative ensemble smoother) (White and others, 2020) was used to improve the GAM so that it would be a better predictor of water level change caused by pumping from the Vista Ridge wells and other wells in POSGCD.

Table 4 Groundwater Availability Models used by POSGCD to simulate impacts of pumping on water levels as part of the regional planning process

Groundwater Availability Model	Aquifers	Reference
Central Sparta, Queen City, and Carrizo-Wilcox Aquifers	Sparta, Queen City, Calvert Bluff, Simsboro, Hooper	Young and others (2018)
GMA-12 Update to the Central Sparta, Queen City, and Carrizo-Wilcox Aquifers	Sparta, Queen City, Calvert Bluff, Simsboro, Hooper	Young and others (2020)
GMA-12 Update to the update of Central Sparta, Queen City, and Carrizo-Wilcox Aquifers	Sparta, Queen City, Calvert Bluff, Simsboro, Hooper	Young and others (2021)

The POSGCD GWAP documentation (POSGCD, 2021) states that GAMs or modified GAMs will be used to perform GANA annual assessments and that the GAM simulations will include the most recent information on projected pumping in GMA 12. This study used the interim version of POSGCD Operational Model called OPMAN. OPMAN is being developed by POSGCD as part of a project that is co-funded by the Department of Reclamation by updating a portion of the GAM for the central portion of the Sparta/Queen City/Carrizo-Wilcox aquifer that includes Milam and Burleson counties. The well file used with OPMAN is a modified version of the well file from Run PS-4-2-Modified (Version 8), which was used by GMA 12 to support the development and evaluation of Desired Future Conditions (DFCs) being considered during the fourth round of joint planning. For this study, the location of the pumping rates in POSGCD were modified to improve the spatial placement of production associated with the Vista Ridge wellfield.

. At the time this report was prepared, GMA 12's PS-4-2-Modified (Version 8) pumping scenario was being considered by GMA 12 for development of the fourth-round DFCs. Because the joint-planning process is ongoing, GMA 12 may ultimately adopt a different pumping scenario before the conclusion of joint planning in 2026. If a different scenario is selected that materially changes the pumping assumptions applicable to this study, the draft will be updated as appropriate.

Figure 4 shows a time series of the GAM pumping rate totals in the version of PS-4-2-Modified (modified run) used in this analysis. **Table 5** lists the pumping rates in POSCD by aquifer included in the modified run. **Figure 5** and **Figure 6** provide time series plots of the pumping rates by aquifer in the modified run in Lost Pines Groundwater Conservation District (LPGCD) and Brazos Valley Groundwater Conservation District (BVGCD), respectively.

Table 5 Pumping rates in POSGCD aquifers for the OPMAN model

Aquifer	Pumping Rate (acre-feet per year) for OPMAN Model						
	2026	2029	2035	2040	2045	2055	2065
Sparta	4,940	4,880	4,814	5,063	5,313	5,845	6,394
Queen City	12,426	12,449	12,627	12,664	12,701	12,842	13,017
Carrizo	27,738	28,063	28,606	28,971	29,346	30,099	30,854
Calvert Bluff	3,623	3,621	3,643	3,656	3,661	3,702	3,757
Simsboro	66,885	68,146	90,572	92,367	106,066	113,633	123,829
Hooper	1,511	1,837	2,576	3,119	3,664	4,242	4,292

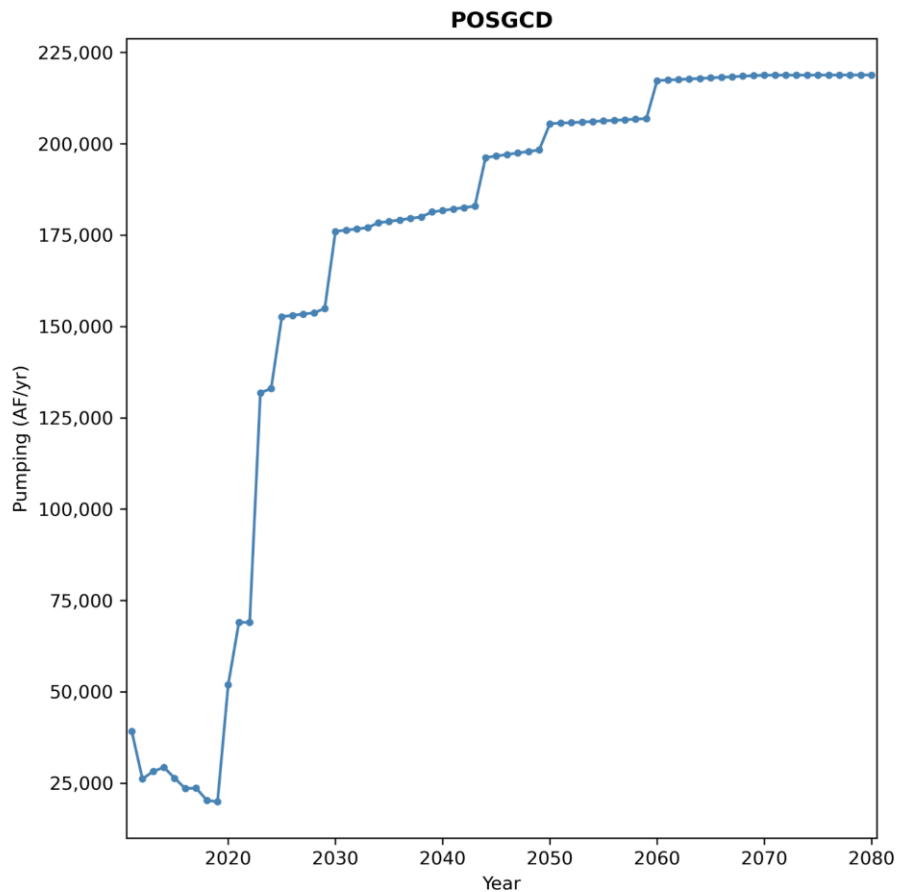


Figure 4 POSGCD pumping rates from the year 2010 to 2080 used in GANA Simulations in 2026

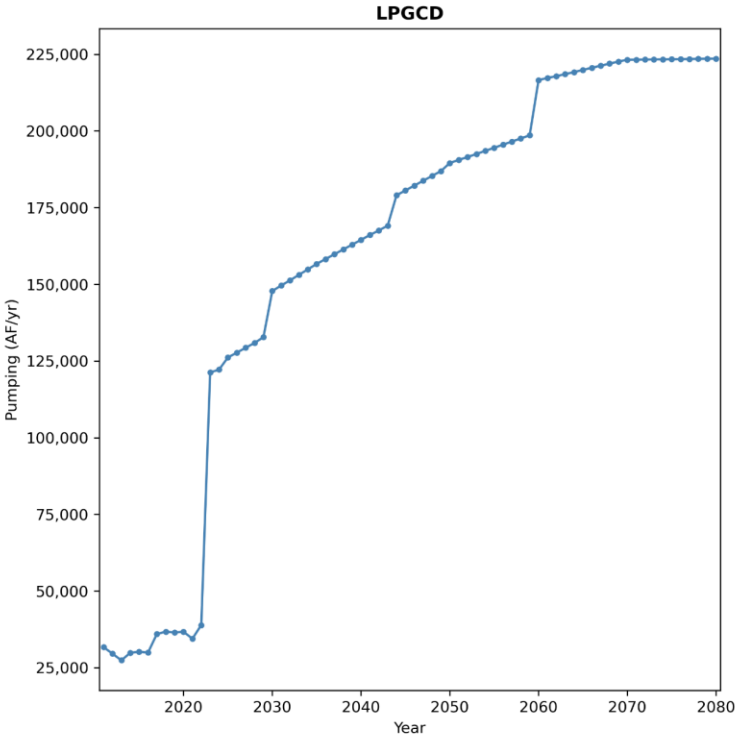


Figure 5 LPGCD pumping rates from the year 2010 to 2080 used in GANA Simulations in 2026

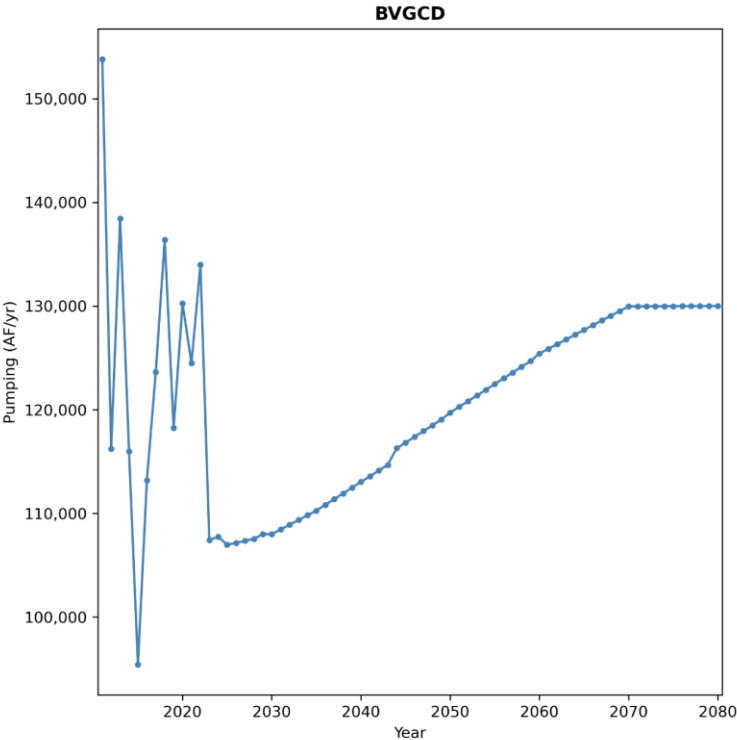


Figure 6 BVGCD pumping rates from the year 2010 to 2080 used in GANA Simulations in 2026

3.0 GWAP ASSESSMENT

3.1 Priority Assessment Methodology

The primary objective of the GWAP assessment is to estimate the number of eligible wells where the water levels will fall below the pump elevation within 10 years. The relevant time frame of interest in this year's assessment for high-priority wells is a 10-year period from December 2026 to December 2036.

The assessment uses predicted water levels from the modified run simulation to predict water levels in the eligible wells. In addition to predicted water levels, the GANA must either know, or assume, the elevation of a well's pump. The pump elevation for each well is determined by subtracting the reported pump depth from the surface elevation or an elevation determined from the 10-meter resolution National Elevation Dataset (NED) Digital Elevation Model (DEM). Because wells require some available drawdown to produce water and because of potential for inaccuracies in estimating ground surface elevation at the well and the elevation of the pump setting, we have assumed that the pump cannot properly operate if the regional water level decline drops the water level in the pump to less than 15 feet above the elevation of the pump. For the GANA assessment, the assumption is made that in order for the well to pump, the water column above the pump needs to be at least 15 ft during non-pumping conditions. If the simulated water level is less than 15 feet above the pump elevation, the well is considered a high-priority well.

Because the majority of eligible wells do not have pump depth information on record in the POSGCD database, a second analysis is performed to identify wells that likely would have been identified as high-priority wells if the pump elevations of the wells were known. These wells are classified as moderate-priority wells. One reason for conducting the second analysis is to estimate how many of the wells with no pump elevation information may need corrective action.

3.2 Results

3.2.1 Simulated Drawdown in Relevant Aquifers

To help identify high-priority wells and the time frame these wells may need corrective action, we have analyzed drawdown over two different time periods. The first is a three-year period from 2026 through 2029. The second is a ten-year period from 2026 through 2036. The ten-year period is the timeframe recognized in the GWAP for identifying high-priority wells. The reason we also looked at a three-year period is because we noticed that the drawdown cones propagated quickly and that it may be important to prioritize the sequence in which well investigations are conducted.

Figure 7 through **Figure 12** show the drawdown that occurs between 2026 and 2029 and 2026 and 2036 as simulated by the OPMAN Model based on pumping in the modified run for all qualifying aquifers. These figures identify which wells have pump information in the POSGCD database and which ones do not. For those eligible wells that have pump information, the figures identify if the predicted water level at the well is greater than or less than 15 feet above the pump at the period of interest (2029 or 2036). The figures also identify wells where the simulated water levels in 2026 are less than 15 feet above the

pump elevation. Wells that have water levels below the pump in 2026 are not necessarily considered as high-priority wells because, if both the pump data and the simulated water levels were correct, the well would have stopped operating properly in 2026 and the well owner would have reported the problem to POSGCD or would have lowered the pump. For this report, wells with water levels less than 15 feet above the pump elevation in 2026 are identified as wells of concern.

Table 6 lists the high-priority wells associated with 2029 and 2036, the wells of concern, and the number of GWAP wells by aquifer. GWAP wells are wells for which POSGCD has lowered the pump setting in to accommodate the regional decline in the water level. Appendix F lists the GWAP wells and provides information on the vertical distance that a pump was lowered in a well. Figures 7 through 12 show the locations of the GWAP wells by aquifer.

Table 6 Wells Identified as High-Priority Wells and Wells of Concerns

Aquifer	High-Priority wells (simulated water level is < 15 ft above pump setting)		Wells of Concern (simulated water level is < 15 ft above pump setting in 2025)	GWAP Wells
	2029	2036		
Sparta	0	2	14	0
Queen City	0	2	12	11
Carrizo	25	68	61	104
Calvert Bluff	4	14	17	16
Simsboro	1	8	35	6
Hooper	2	6	4	2
Total	32	100	143	139

Several key observations are organized by aquifer below.

- Sparta Aquifer - Figure 7 shows the drawdown contours for the Sparta Aquifer from 2026 through 2029 and for 2029 through 2036. Maximum drawdown contours for 2029 and 2036 are 0 ft and 40 ft, respectively. For the years 2029 and 2036, 0 and 2 high-priority wells are identified, respectively. Currently, there are no GWAP wells located in the Sparta Aquifer.
- Queen City Aquifer - Figure 8 shows the drawdown contours for the Queen City Aquifer from 2026 through 2029 and for 2026 through 2036. Maximum drawdown contours for 2029 and 2036 are 20 ft and 60 ft, respectively. There are two high-priority wells in 2036. Currently, there are 11 GWAP wells located in the Queen City Aquifer.
- Carrizo Aquifer - Figure 9 shows the drawdown contours for the Carrizo Aquifer from 2026 through 2029 and for 2026 through 2036. The maximum drawdown for the years 2029 and 2036 is 40 ft and 80 ft, respectively. In the 2026 and 2036 analyses, 4 and 19 high-priority wells are identified, respectively. Currently, there are 104 GWAP wells located in the Carrizo Aquifer. The drawdown contours in 2026 and 2036 illustrate the significant impact that Vista Ridge pumping has on regional water levels. The largest drawdown occurs in the vicinity of the Vista Ridge well field and the drawdown values decrease radially outward towards Robertson and Brazos counties.

- Calvert Bluff Aquifer - Figure 10 shows the drawdown contours for the Calvert Bluff Aquifer from 2026 through 2029 and for 2026 through 2036. Maximum drawdown contours for 2029 and 2036 are 40 feet and 100 feet, respectively. For the years 2026 and 2036, there are 4 and 14 high-priority wells, respectively. Currently, there are 16 GWAP wells located in the Calvert Bluff Aquifer. The drawdown contours in 2026 and in 2036 illustrate the significant impact that Vista Ridge pumping has on regional water levels. The largest drawdown occurs in the vicinity of the Vista Ridge well field and the drawdown values decrease radially outward towards Robertson and Brazos counties.
- Simsboro Aquifer - Figure 11 shows the drawdown contours for the Simsboro Aquifer from 2026 through 2029 and for 2026 through 2036. Maximum drawdown contours for 2026 and 2036 are 20 and 80 feet, respectively. For the 2026 and 2036 years, there are 1 and 8 high-priority wells, respectively. Currently, there are 6 GWAP wells located in the Simsboro Aquifer. The drawdown contours in 2026 and in 2036 illustrate the significant impact that Vista Ridge pumping has on regional water levels. The largest drawdown occurs in the vicinity of the Vista Ridge well field and the drawdown values decrease radially outward towards Robertson and Brazos counties.
- Hooper Aquifer - Figure 12 shows the drawdown contours for the Hooper Aquifer from 2026 through 2029 and for 2026 through 2036. Maximum drawdown contours for 2026 and 2036 are 0 and 60 feet, respectively. For the years 2026 and 2036, there are 1 and 5 high-priority wells, respectively. Currently, there are 2 GWAP well located in the Hooper Aquifer.

Appendix C lists the 100 wells identified as high-priority wells and the 151 wells of concern that have simulated water levels in 2026 that are less than 15 feet above the pump elevation.

Appendix D shows the hydrographs of the simulated water levels for the 100 high-priority wells.

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

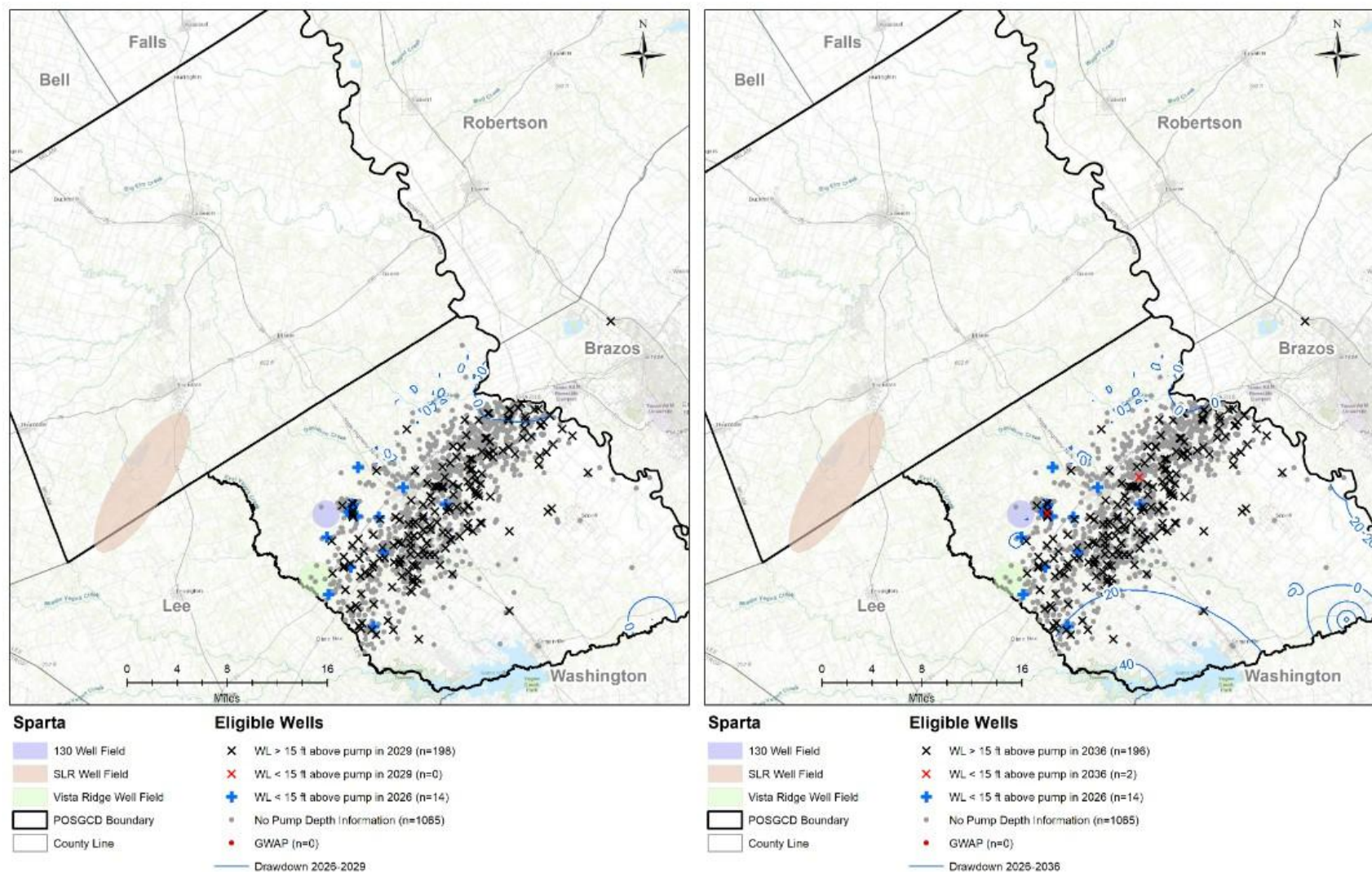


Figure 7 Contours of simulated drawdown from 2026 to 2029 (left) and from 2026 to 2036 (right) in the Sparta Aquifer

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

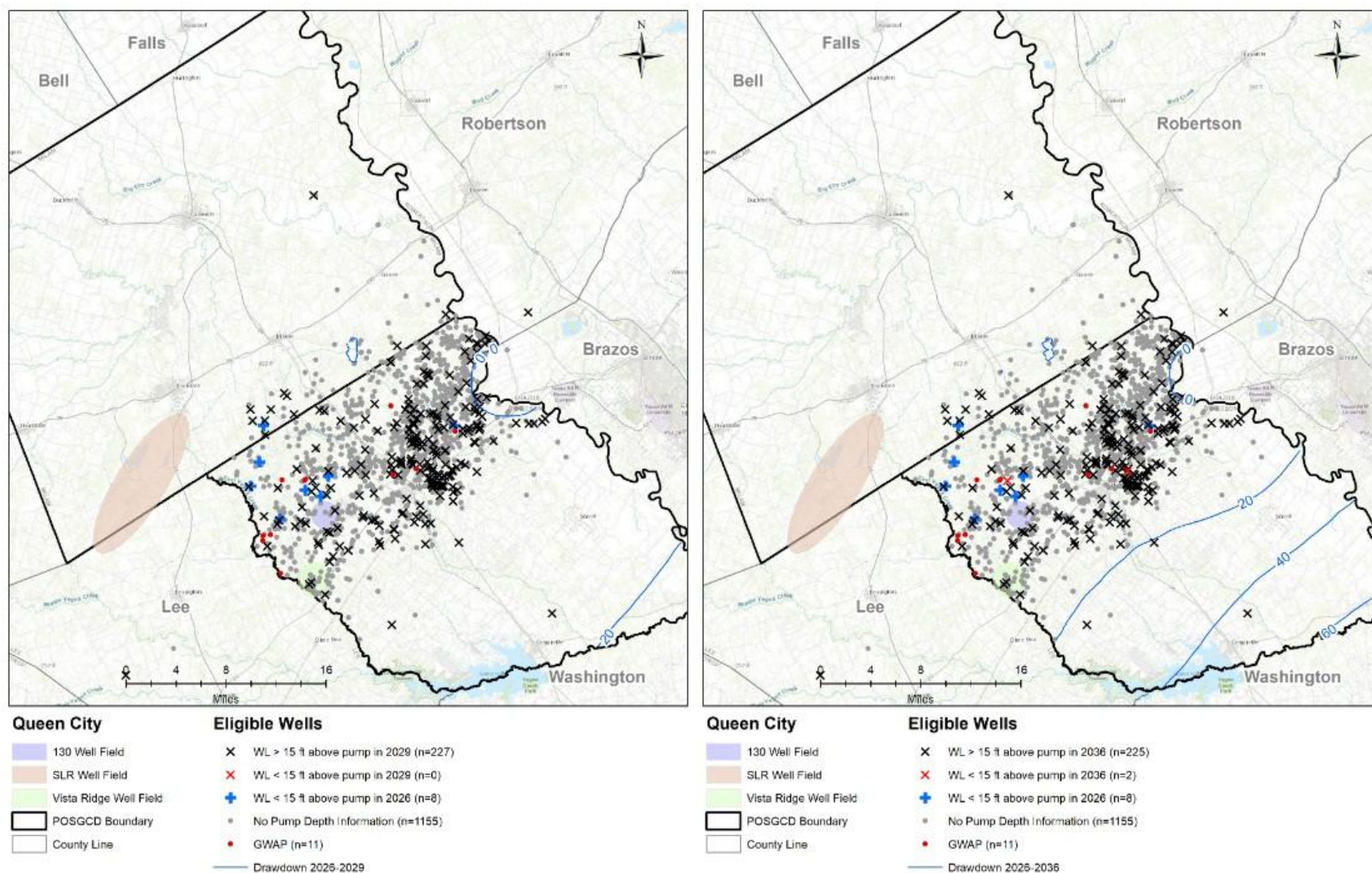


Figure 8 Contours of simulated drawdown from 2026 to 2029 (left) and from 2026 to 2036 (right) in the Queen City Aquifer

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

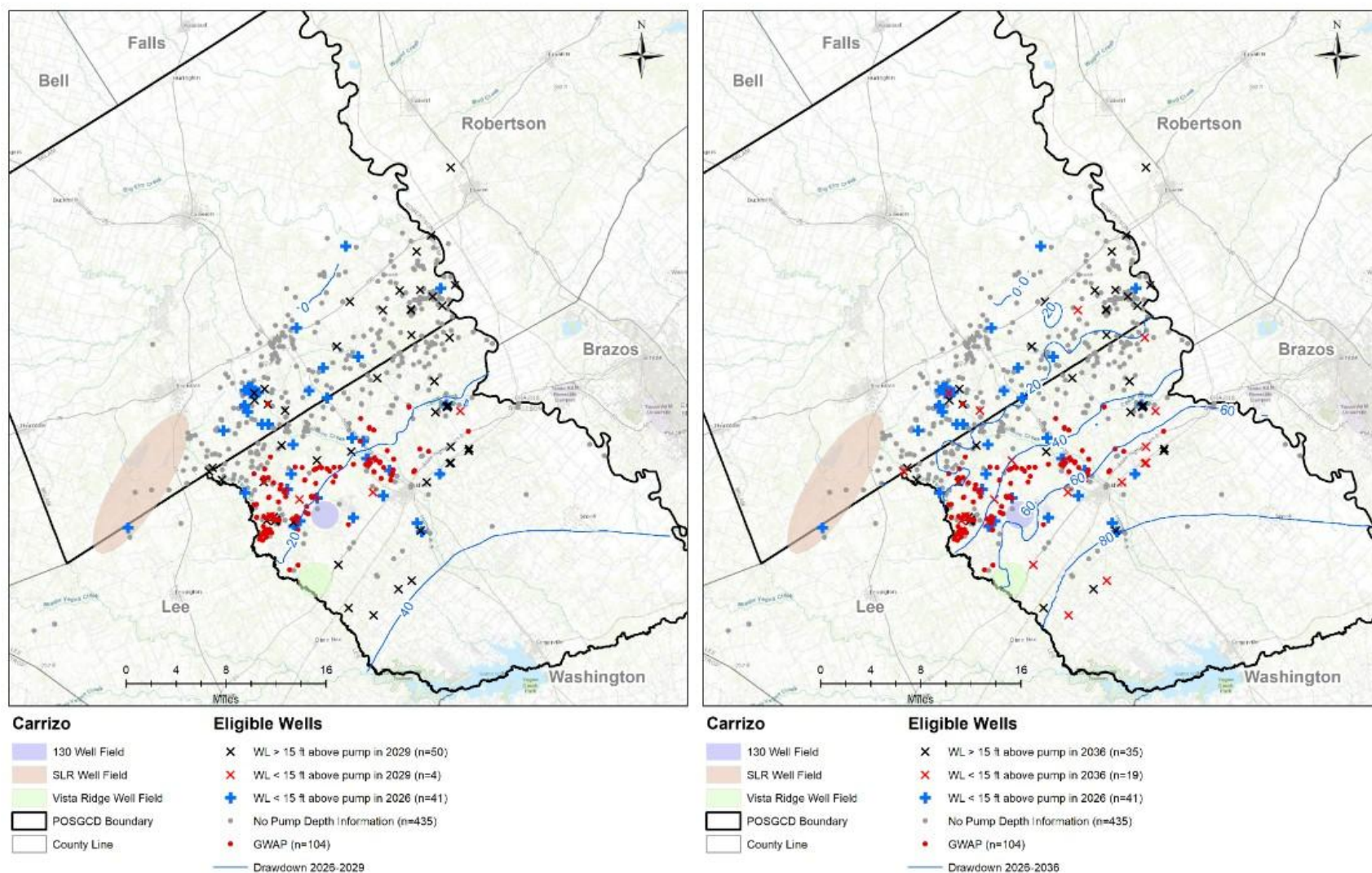


Figure 9 Contours of simulated drawdown from 2026 to 2029 (left) and from 2026 to 2036 (right) in the Carrizo Aquifer

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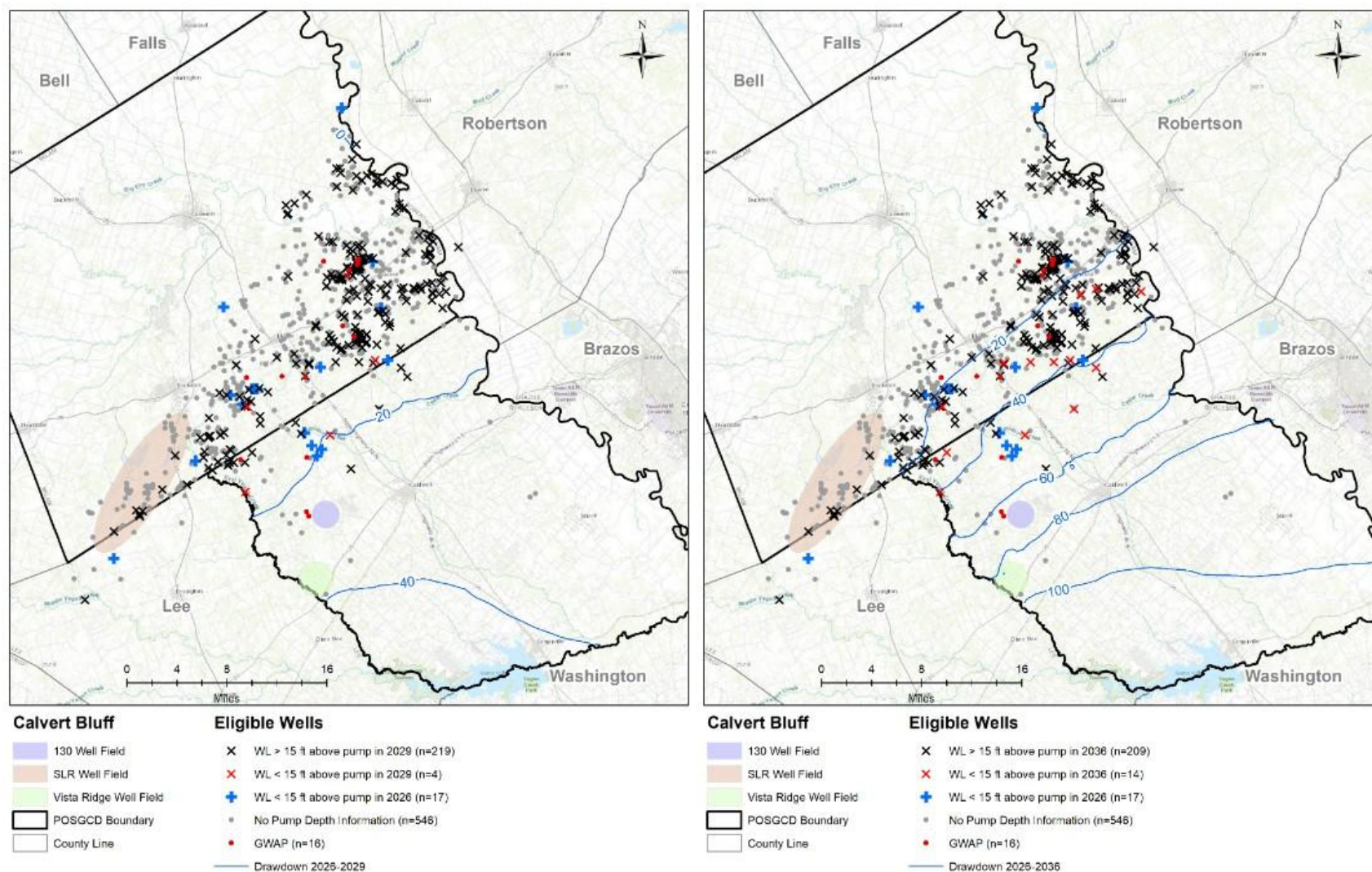


Figure 10 Contours of simulated drawdown from 2026 to 2029 (left) and from 2026 to 2036 (right) in the Calvert Bluff Aquifer

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

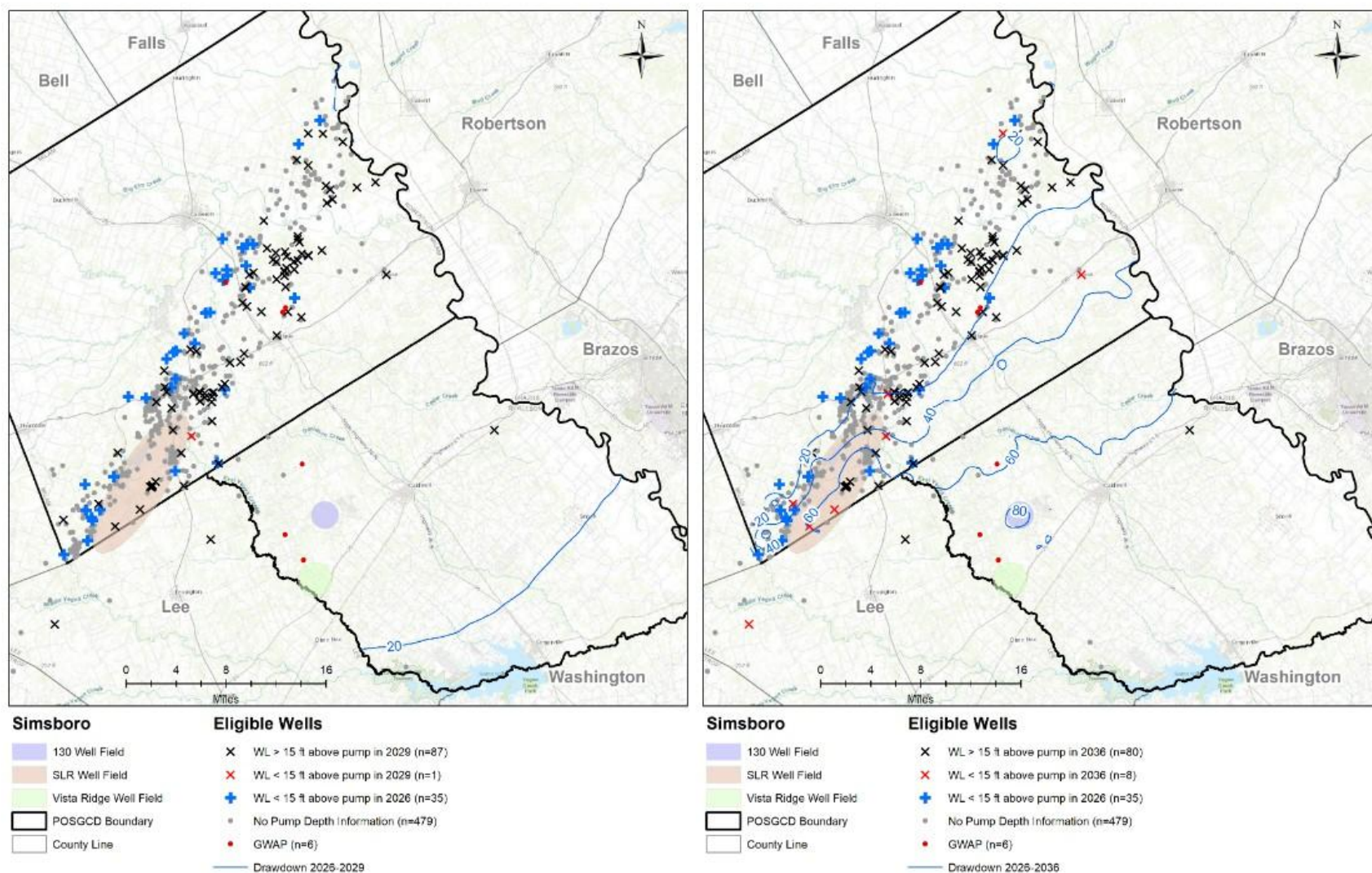


Figure 11 Contours of simulated drawdown from 2026 to 2029 (left) and from 2026 to 2036 (right) in the Simsboro Aquifer

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

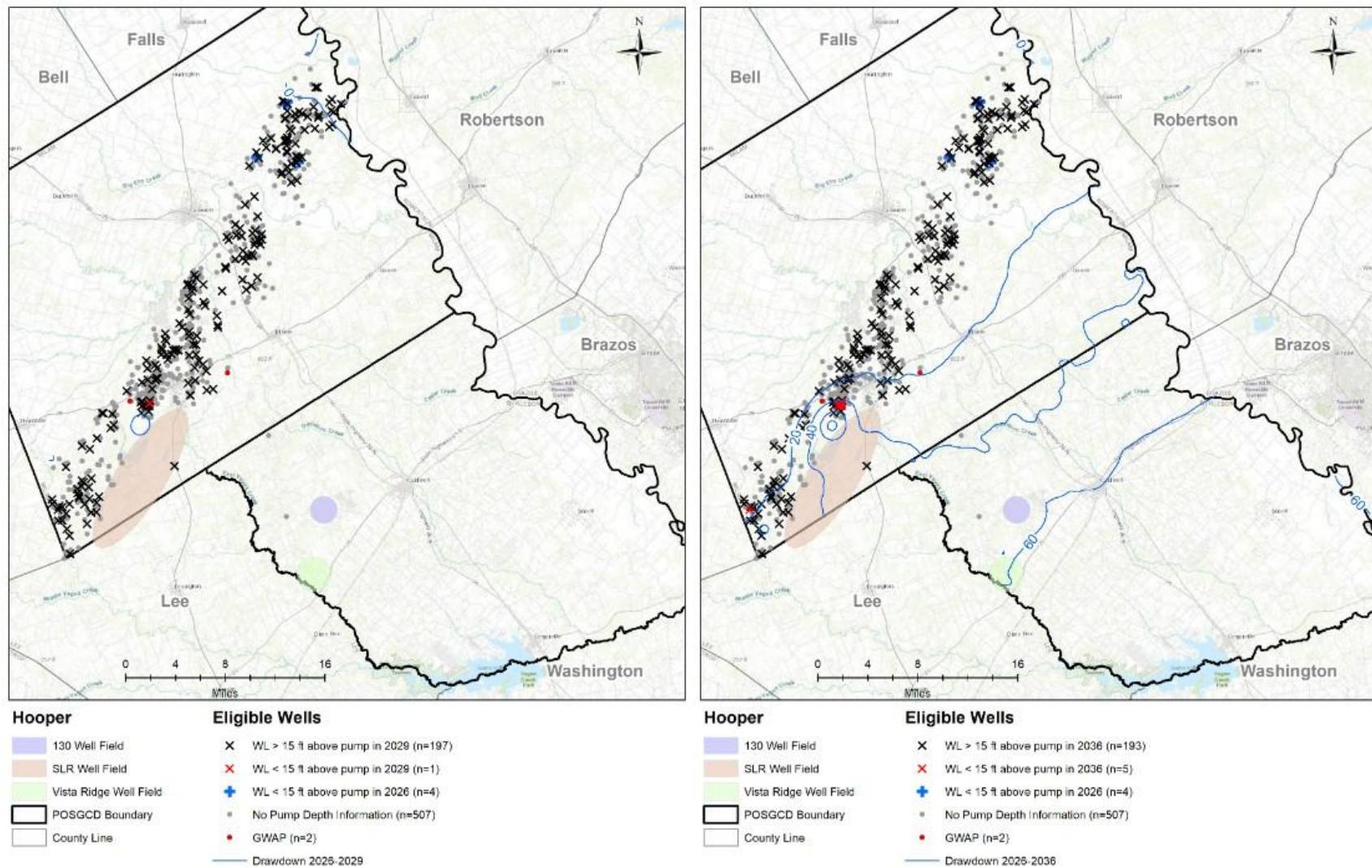


Figure 12 Contours of simulated drawdown from 2026 to 2029 (left) and from 2026 to 2036 (right) in the Hooper Aquifer

3.2.2 High-Priority Wells Based Upon Known Pump Elevations

Changes in water levels from 2026 to 2029 and from 2026 to 2036 were simulated for eligible wells. that have a pump elevation in the POSGCD well database. A well is considered a high-priority well if the following two conditions are met: (1) the simulated water level is greater than 15 ft above the pump elevation in 2026, and (2) the simulated water level is less than 15 ft above the pump elevation in 2036. The information provided in Figures 7 through 12 shows the location of 100 eligible wells that are classified as high-priority. **Table 7** provides the statistics for the elevation difference between the simulated water level and the pump elevation for 2029 and 2036.

Table 7 Simulated water level elevation relative to pump elevation in eligible wells for 2026 through 2029 and for 2026 through 2036.

Aquifer	Eligible Wells w/Pump Info	Year	Simulated Water Level Elevation Relative to Pump Elevation									
			<15 ft above pump	<10 ft above pump	<5 ft above pump	< 2 ft above pump	> 2 ft below pump	> 5 ft below pump	>10 ft below pump	>25 ft below pump	>50 ft below pump	> 100 ft below pump
Sparta	212	2029	0	0	0	0	0	0	0	0	0	0
		2036	2	0	0	0	0	0	0	0	0	0
Queen City	246	2029	0	0	0	0	0	0	0	0	0	0
		2036	2	0	0	0	0	0	0	0	0	0
Carrizo	196	2029	25	20	14	10	4	1	0	0	0	0
		2036	68	60	55	49	45	40	35	18	0	0
Calvert Bluff	256	2029	4	2	1	0	0	0	0	0	0	0
		2036	14	7	6	6	5	4	4	1	0	0
Simsboro	128	2029	1	0	0	0	0	0	0	0	0	0
		2036	8	6	6	4	4	3	2	1	0	0
Hooper	204	2029	2	1	0	0	0	0	0	0	0	0
		2036	6	5	4	3	3	3	2	1	0	0

3.2.3 Treatment of Wells without Pump Information in the Carrizo and Calvert Bluff

A review of the well data shown in Figures 7 through 12 indicates that several Carrizo and Calvert Bluff wells lacking pump setting depth information are located in close proximity to high-priority or GWAP wells. Had pump setting depths been available, some of these wells may have met the criteria for classification as high-priority wells. The estimated number of Carrizo and Calvert Bluff wells without pump information that may have been identified as high-priority wells if their pump setting was known is 42. The calculations to support the estimation of the number of wells are provided in Table 8.

The values presented in Table 8 were determined using the following three-step methodology. The process is described below for the Carrizo aquifer; the same methodology was applied to the Calvert Bluff Aquifer.

Step 1 – Identify the drawdown area that encompasses high-priority and GWAP wells that are impacted by Vista Ridge production.

Carrizo: Figure 13 shows that the area covered by the drawdown contours encompasses 14 high-priority wells, 103 GWAP wells, 18 wells with less than 15 ft of water column above the pump setting depth in 2026, and 14 wells with more than 15 ft of water column above the pump elevation. High-priority wells, wells of concern, and wells with water level 15 ft above the pump depth were summed to obtain the total number of non-GWAP wells with pump setting information available (column a in Table 8).

Step 2 – Calculate the percentage of high-priority wells.

Carrizo: The percentage of high-priority wells was calculated by dividing the number of high-priority wells by the total number of non-GWAP wells with pump information available (column c in Table 8).

Step 3 – Estimate the number of wells without pump setting information that would likely have been classified as high-priority wells.

Carrizo: It was assumed that wells without pump setting information have the same likelihood of being classified as high-priority wells as wells with known pump setting information within the same drawdown area. Therefore, the percentage of high-priority wells calculated in Step 2 was applied to the wells lacking pump setting information to estimate the number of additional high-priority wells. Figure 13 shows that 84 wells within the drawdown area don't have pump setting information (column d in Table 8). The estimated number of these wells that would likely qualify as high-priority wells (column e) was calculated by multiplying the percentage of high-priority wells (column c) by the number of wells without pump setting information (column d), yielding an estimated 26 wells.

Table 8 Estimation of Moderate-Priority Carrizo and Calvert Bluff wells that will have a water level less than 15 feet above the pump in 2036 based on the location of high-priority wells and GWAP wells in 2036 shown in Figure 13 and Figure 14

Aquifer	(a) Non-GWAP wells with pump info	(b) High-priority wells	(c) Percent of high- priority wells	(d) Wells with no pump info	(e) Estimated moderate- priority wells
Carrizo	46	14	30	84	26
Calvert Bluff	142	8	6	279	16

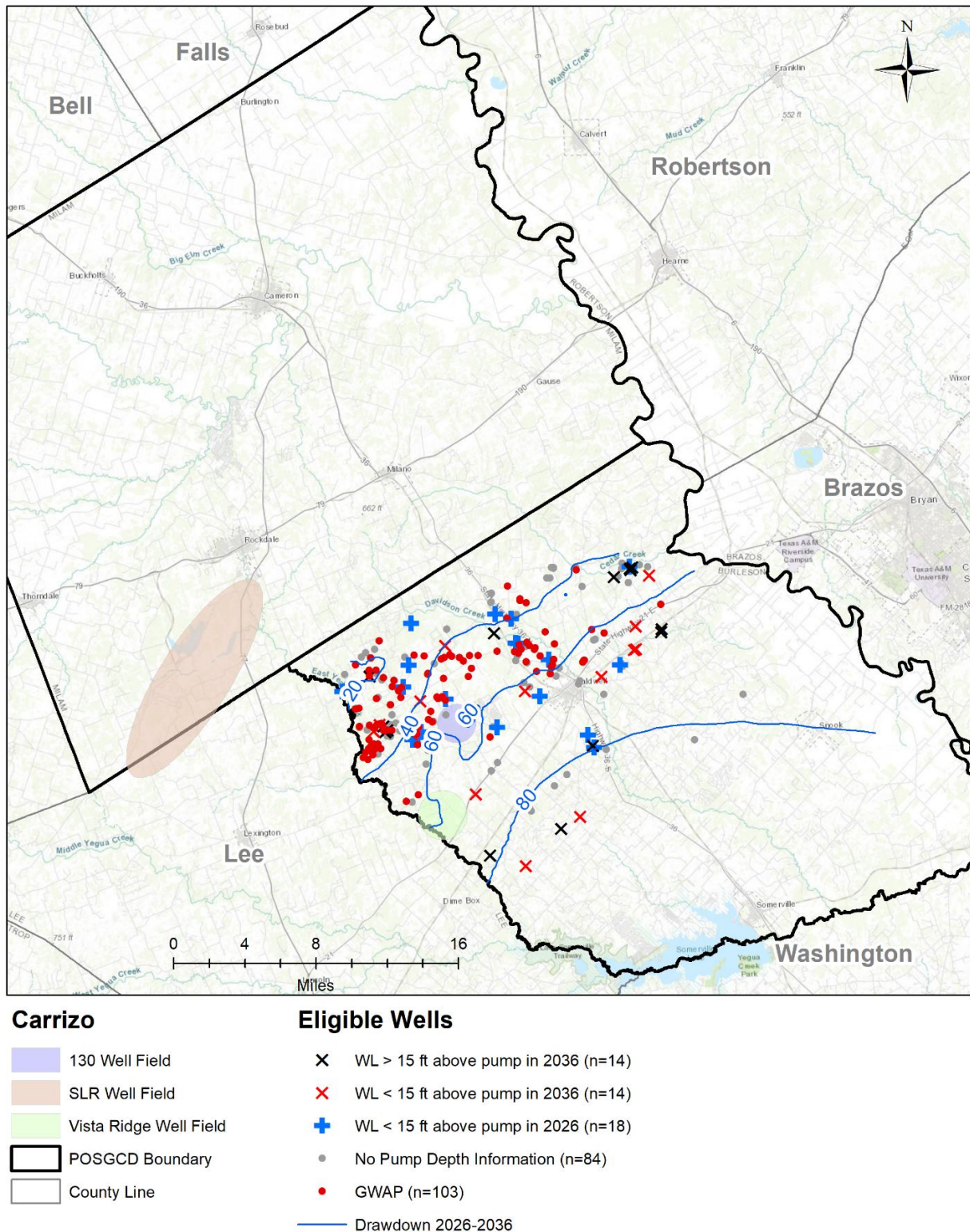


Figure 13 Drawdown in the Carrizo Aquifer from 2026 to 2036 and location of wells grouped based on predicted water level relative to pump setting.

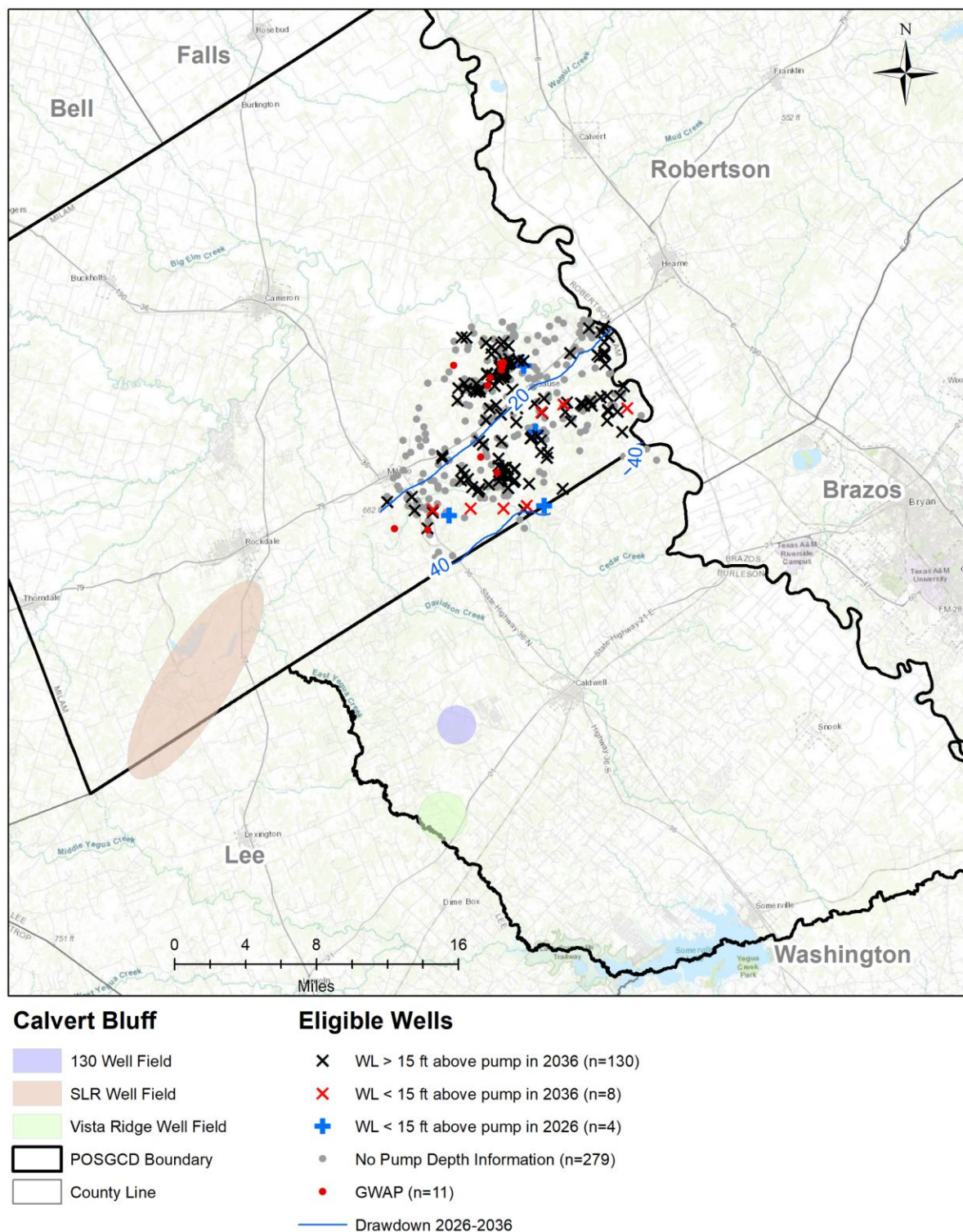


Figure 14 Drawdown in the Calvert Bluff Aquifer from 2026 to 2036 and location of wells grouped based on predicted water level relative to pump setting.

4.0 SUMMARY OF ANALYSES AND RECOMMENDATIONS

GWAP assists well-owners with exempt and permitted low-capacity wells whose water levels are predicted to decline to less than 15 feet above the pump setting prior to 2036 due to regional groundwater production in GMA 12. The report identifies high-priority wells based on simulations of a modified future pumping scenario created by GMA 12 to develop its DFCs. The high-priority classification for a well requires that the pump elevation of the well is known. For a well to be classified as a high-priority, the following two conditions need to be met: (1) its simulated water level in 2026 is greater than 15 ft above the pump elevation, and (2) its simulated water level in 2036 is less than 15 ft above the elevation of its pump elevation. For wells without pump information, the well is designated as a moderate-priority well if there is sufficient cause to believe that the well would be classified as a high-priority well if the pump information were available.

The future water levels are generated from GAM simulations and estimates of future pumping. The incorporation of multiple sources of data and multiple analysis includes several assumptions that introduce error and uncertainty into each well evaluation. Because our analyses are predictive and therefore not certain, some wells that are designated as high-priority wells may not require assistance within the next 10 years.

4.1 Summary of Analyses

This section summarizes the key analysis performed and documented in this report.

- An interim version of the POSGCD Operational Model called OPMAN was used to simulate water levels in POSGCD and surrounding counties using a future pumping scenario called PS-4-2-Modified. Run PS-4-2-Modified was modified to account for anticipated production for some permits. . The modified run generated drawdowns from 2026 to 2036 that can be described as follows:
 - Across most of the Sparta and Queen City aquifers, the drawdown is generally less than 40 ft with maximum drawdowns just above 60 ft.
 - In the Carrizo Aquifer, drawdown in the vicinity of the Vista Ridge well field is between 40 and 80 ft and decreases radially outward towards Milam County.
 - In the Calvert Bluff Aquifer, drawdown in the vicinity of the Vista Ridge well field is between 80 and 100 ft and decreases radially outward towards Milam County.
 - In the Simsboro Aquifer, drawdown in the vicinity of the Vista Ridge well field is greater than 60 ft and decreases radially outward from the well field to about 50 ft at the Milam County line and to 20 ft in the outcrop.
 - In the Hooper Aquifer, the maximum drawdown contour runs northeast to southwest across the Vista Ridge well field and is 60 ft. Across most of the outcrop for the Hooper Aquifer in Milam County, the drawdowns are less than 30 ft but reach up to 40 ft near the SLR well field.
- For all eligible wells with information about the pump settings, a comparison was made between the simulated water level in the well and the elevation of the pump to determine the likelihood of whether there would be sufficient water for pumping the well for the next ten years. A well was classified as a high-priority well if the following two conditions are met: (1) its simulated water level in 2026 is greater than 15 ft above the pump elevation, and (2) its simulated water level in 2036 is less than 15 ft above the elevation of its pump elevation. A total of 100 wells were identified as high-

priority wells. Of the 100 wells, 8 wells are completed in the Simsboro, 68 in the Carrizo, 14 in the Calvert Bluff, 6 in the Hooper, and 2 wells each in the Queen City and Sparta aquifers.

- 37% of the 68 Carrizo wells that would become high-priority wells by 2036 will have already met the criteria by 2029 (n=25).
- For eligible wells without information about the pump settings, wells were classified as moderate-priority wells (n=42) if there was sufficient evidence to believe that the well would be classified as a high-priority well if the pump information were available. The identification of moderate-priority wells was based on estimated drawdown at the well in 2036. In the Carrizo and Calvert Bluff aquifers, 26 and 16 wells were classified as potential candidates for moderate-priority wells, respectively.
- Hydrographs of simulated water levels from 2008 to 2039 were created for the 100 high-priority wells and 143 wells of concern. Wells are classified as wells of concern if their simulated water levels in 2026 are less than 15 ft above their pump setting depth.
- As part of their GWAP, POSGCD staff has assisted 141 wells by either lowering the pump setting or redrilling the well to accommodate recent and future declines in water levels at the well locations. 104 of these wells are located in the Carrizo Aquifer.

4.2 Recommendations

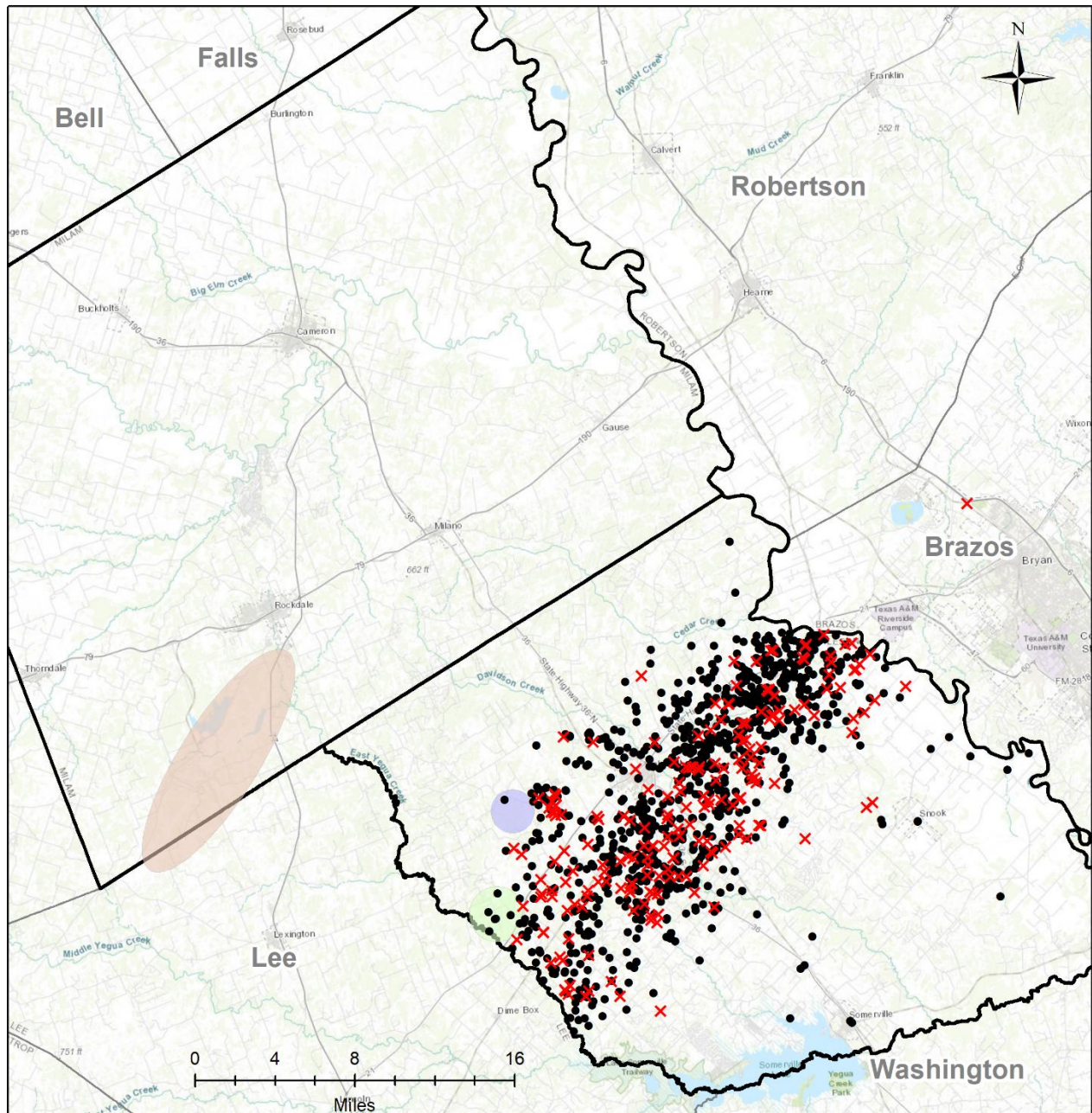
Based on the data, data analysis, and findings presented in the report, the following actions are recommended:

- POSGCD's Water Resource Specialist should verify the eligibility and review the well construction of the 100 high-priority wells, the 363 candidates for 26 moderate-priority wells, and the 143 wells of concern and then consider measuring water levels at these wells to check the accuracy of the simulated water levels.
- Water levels should be measured at each high-priority Carrizo well (or at nearby wells) at least once every four months and the elevation of the pump setting should be verified.
- The OPMAN model should be continually updated using monitoring data so that it will be better suited for predicting the drawdown impacts that will be caused by the pumping of more than 50,000 AFY associated with the Vista Ridge Project and the planned pumping of 50,000 AFY from the SLR well field.
- A methodology should be developed for using measured water level data to help adjust for biases and errors in the simulated water levels.
- POSGCD should develop a practice for checking and quantifying the accuracy of reported pumping for non-exempt permits that do not require monitoring equipment as a condition of the permit.
- POSGCD should continue their efforts in GMA 12 to include an assessment of the impacts of GAM DFC simulations on exempt and lower capacity permitted wells as a consideration for evaluating DFC.
- POSGCD should continue their efforts to perform joint GCD evaluations of large-scale production from wellfields that will likely cause notable drawdown impacts across GCD boundaries production during the next 25 to 50 years.
- POSGCD should strongly promote their Driller Guidance Document for educating landowners about how to best help safeguard the long-term production capacity of a new well against the decline in the water levels in GMA 12 during the next 50-years caused by permitted pumping.

5.0 REFERENCES

- Post Oak Savannah Groundwater Conservation District (POSGCD), 2021. Post Oak Savannah Groundwater Conservation District Groundwater Well Assistance Program (GWAP).
- White, J.T., Hunt, R.J., Fienen, M.N., and Doherty, J.E., 2020, Approaches to Highly Parameterized Inversion: PEST++ Version 5, a Software Suite for Parameter Estimation, Uncertainty Analysis, Management Optimization and Sensitivity Analysis: U.S. Geological Survey Techniques and Methods 7C26, 52 p., <https://doi.org/10.3133/tm7C26>.
- Young, S., Jigmond, M., Jones, T., and Ewing, T. 2018. Groundwater Availability Model for Central Portion of the Sparta, Queen City, and Carrizo-Wilcox Aquifer, prepared for the TWDB, unnumbered report, September 2018
- Young, S., Kushnereit, R. Donnelly, A., Seifert, J., and Deed, N. 2020. GMA 12 Update to the Groundwater Availability Model for the Central Portion of the Sparta, Queen City, and Carrizo-Wilcox Aquifers: Update to Improve Representative of the Transmissive Properties of the Simsboro Aquifer in the Vicinity of the Vista Ridge Well Field, Prepared for GMA 12, November 2020.
- Young, S., Kushnereit, R., Kelly, V. 2020. Groundwater Assistance Program Annual Needs Assessment December 2020.
- Young, S., Kushnereit, R., White, J., and Beal, L. 2021. The Future is Here: Comparing Projected and Actual Impacts of Vista Ridge Project. Presented at Milam and Burleson Counties 2021 Groundwater Summit. Caldwell, Texas. August 12, 2021.

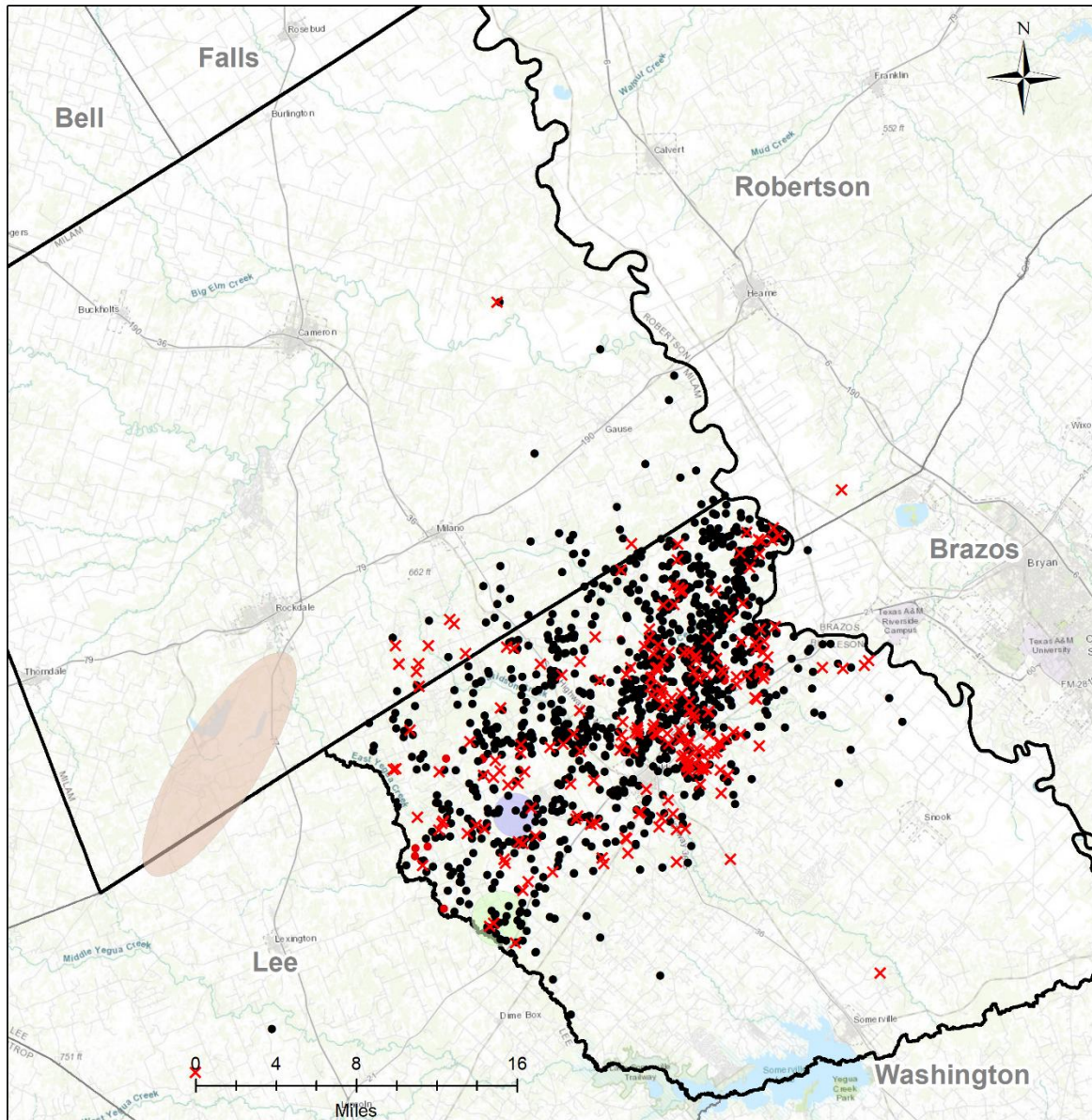
APPENDIX A
LOCATION OF EXEMPT WELLS BY AQUIFER



Sparta

- 130 Well Field
- SLR Well Field
- Vista Ridge Well Field
- POSGCD Boundary
- County Line
- Exempt with Pump Depth (n=198)
- Exempt without Pump Depth (n=1041)
- Exempt GWAP (n=0)

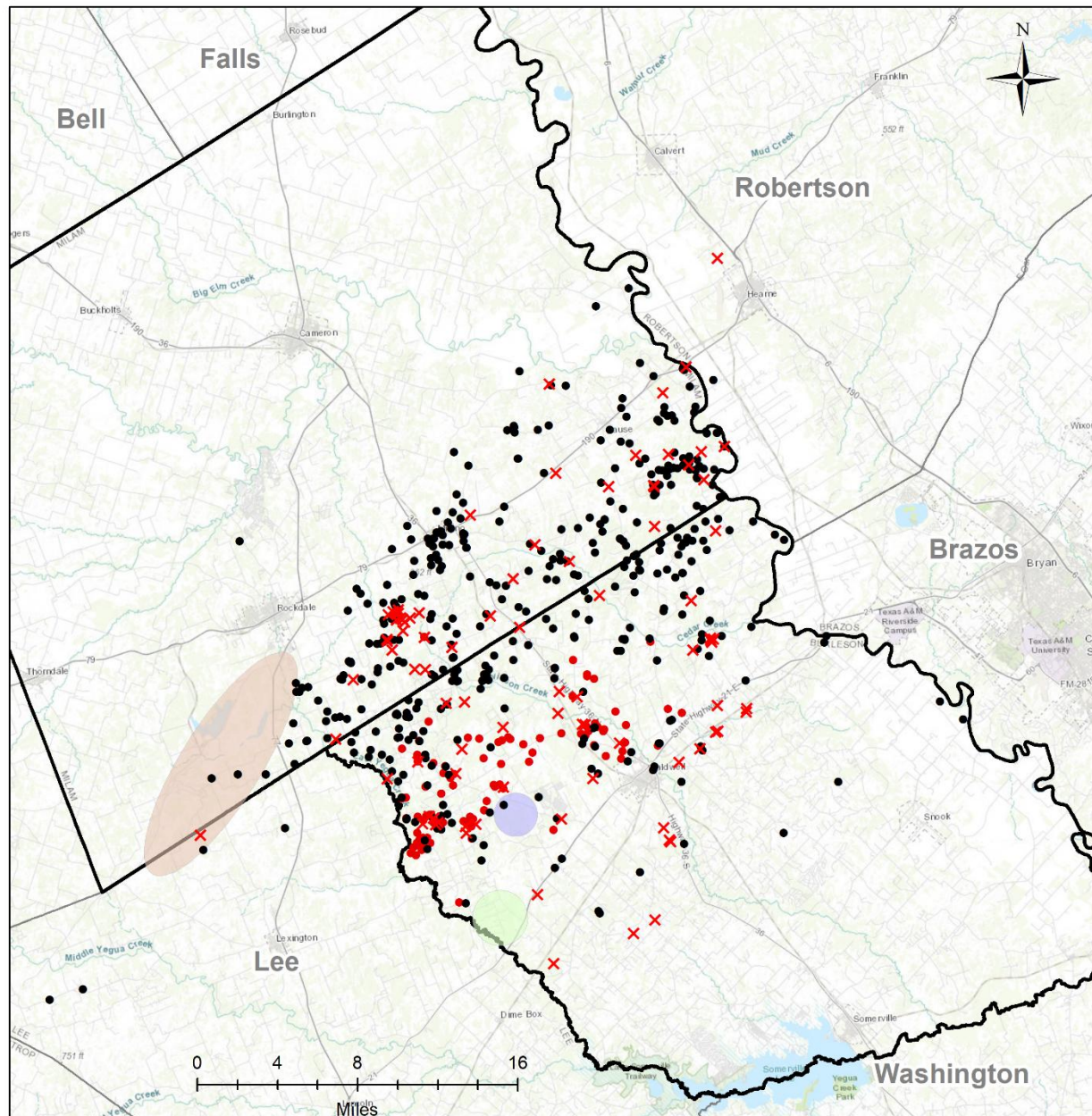
Figure A-1 Location of eligible exempt wells in the Sparta Aquifer



Queen City

- | | |
|--|--|
|  130 Well Field |  Exempt with Pump Depth (n=223) |
|  SLR Well Field |  Exempt without Pump Depth (n=1137) |
|  Vista Ridge Well Field |  Exempt GWAP (n=11) |
|  POSGCD Boundary | |
|  County Line | |

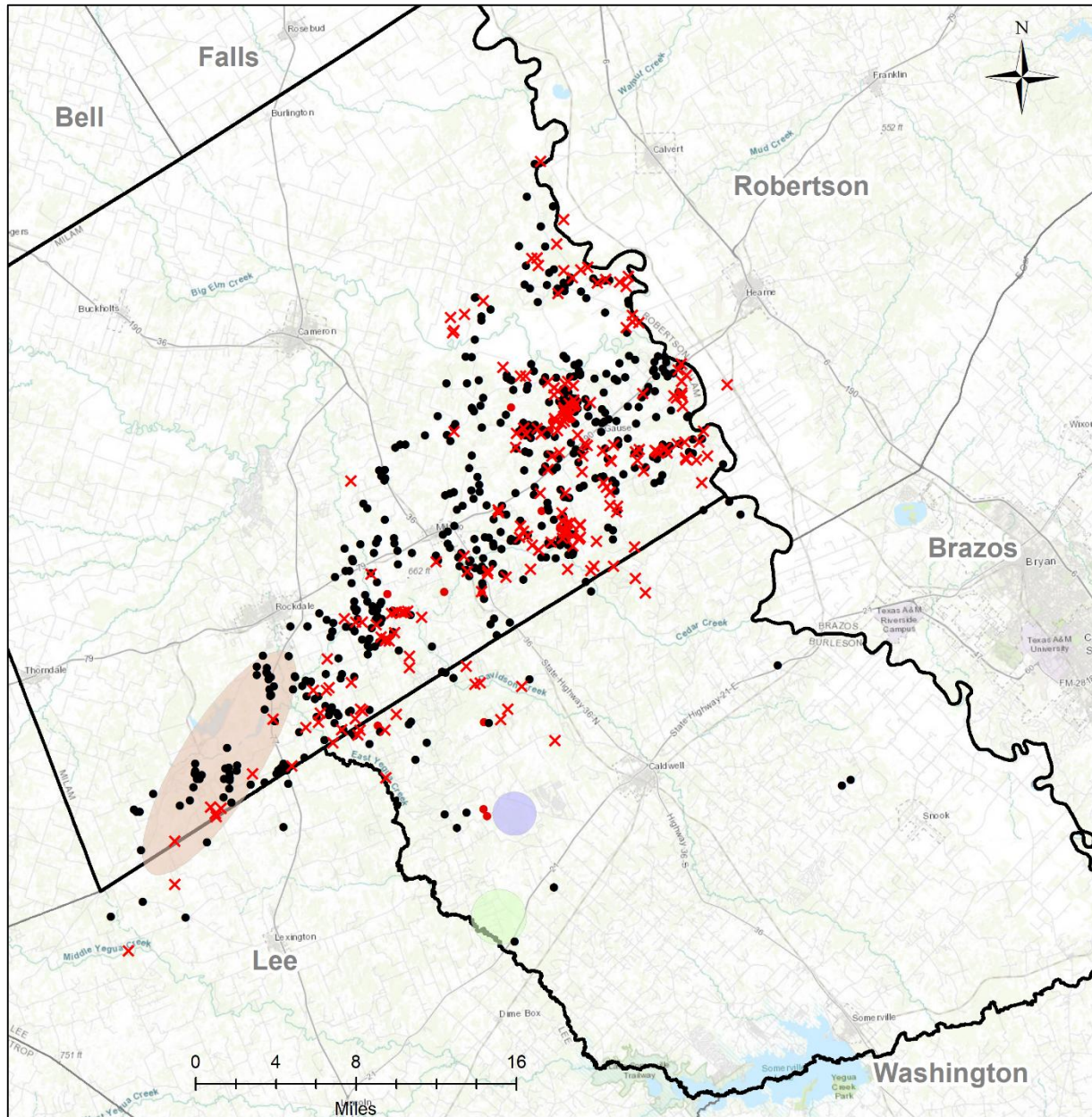
Figure A-2 Location of eligible exempt wells in the Queen City Aquifer



Carrizo

- | | |
|--|---|
|  130 Well Field |  Exempt with Pump Depth (n=89) |
|  SLR Well Field |  Exempt without Pump Depth (n=430) |
|  Vista Ridge Well Field |  Exempt GWAP (n=95) |
|  POSGCD Boundary | |
|  County Line | |

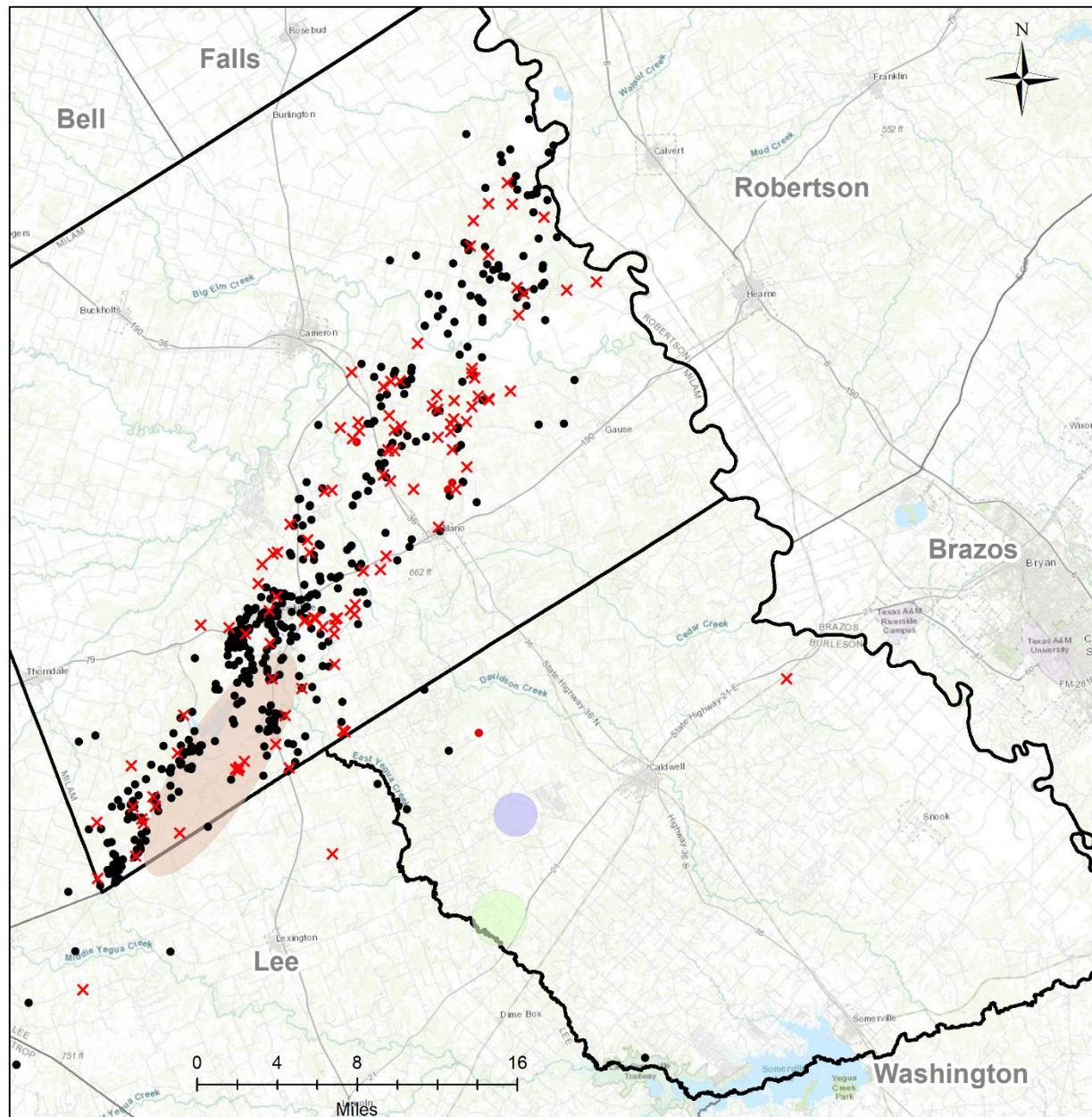
Figure A-3 Location of eligible exempt wells in the Carrizo Aquifer



Calvert Bluff

- | | |
|---|---|
| 130 Well Field | X Exempt with Pump Depth (n=209) |
| SLR Well Field | • Exempt without Pump Depth (n=523) |
| Vista Ridge Well Field | • Exempt GWAP (n=16) |
| POSGCD Boundary | |
| County Line | |

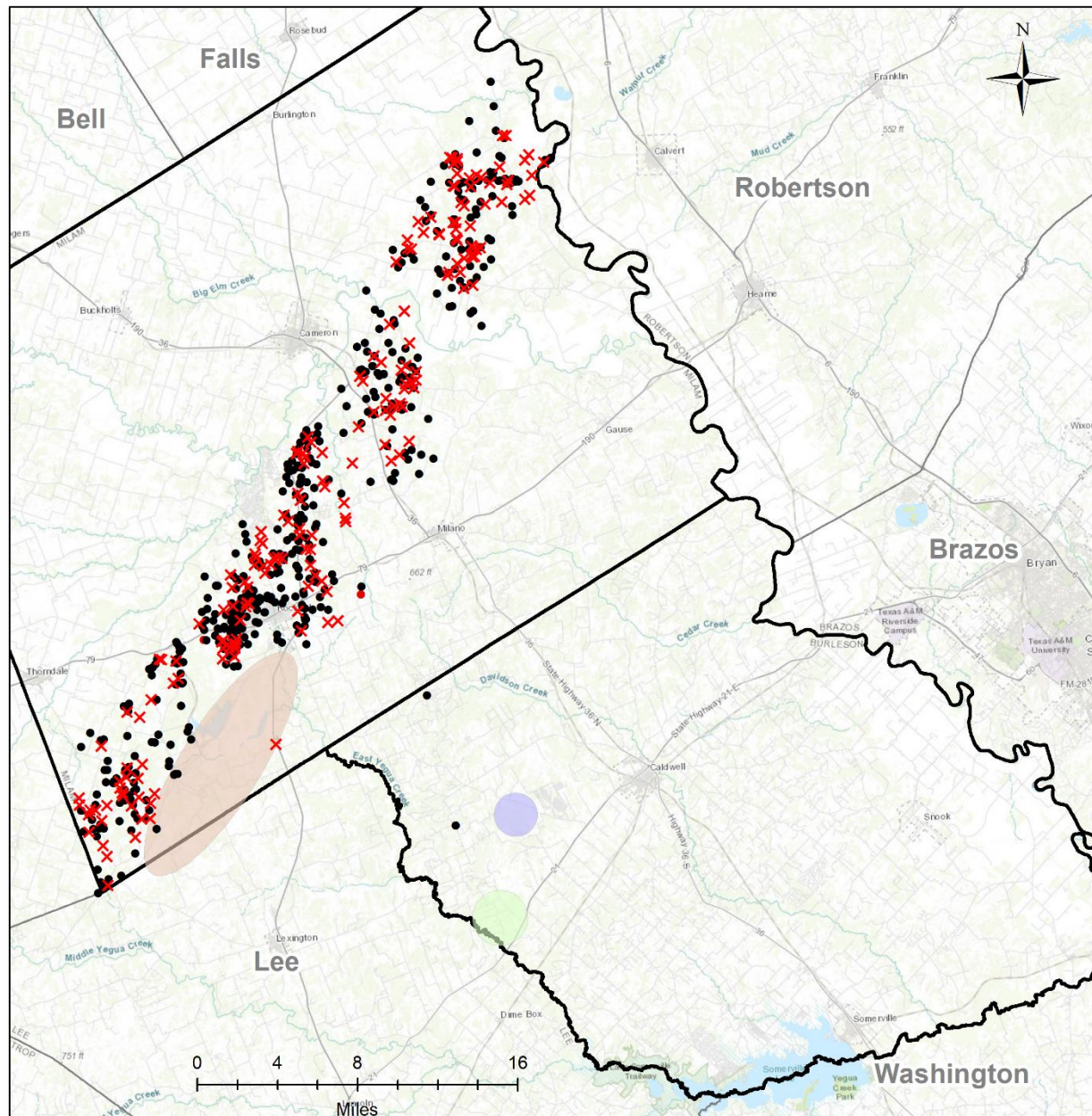
Figure A-4 Location of eligible exempt wells in the Calvert Bluff Aquifer



Simsboro

- | | | | |
|---|------------------------|---|-----------------------------------|
|  | 130 Well Field |  | Exempt with Pump Depth (n=109) |
|  | SLR Well Field |  | Exempt without Pump Depth (n=461) |
|  | Vista Ridge Well Field |  | Exempt GWAP (n=4) |
|  | POSGCD Boundary | | |
|  | County Line | | |

Figure A-5 Location of eligible exempt wells in the Simsboro Aquifer

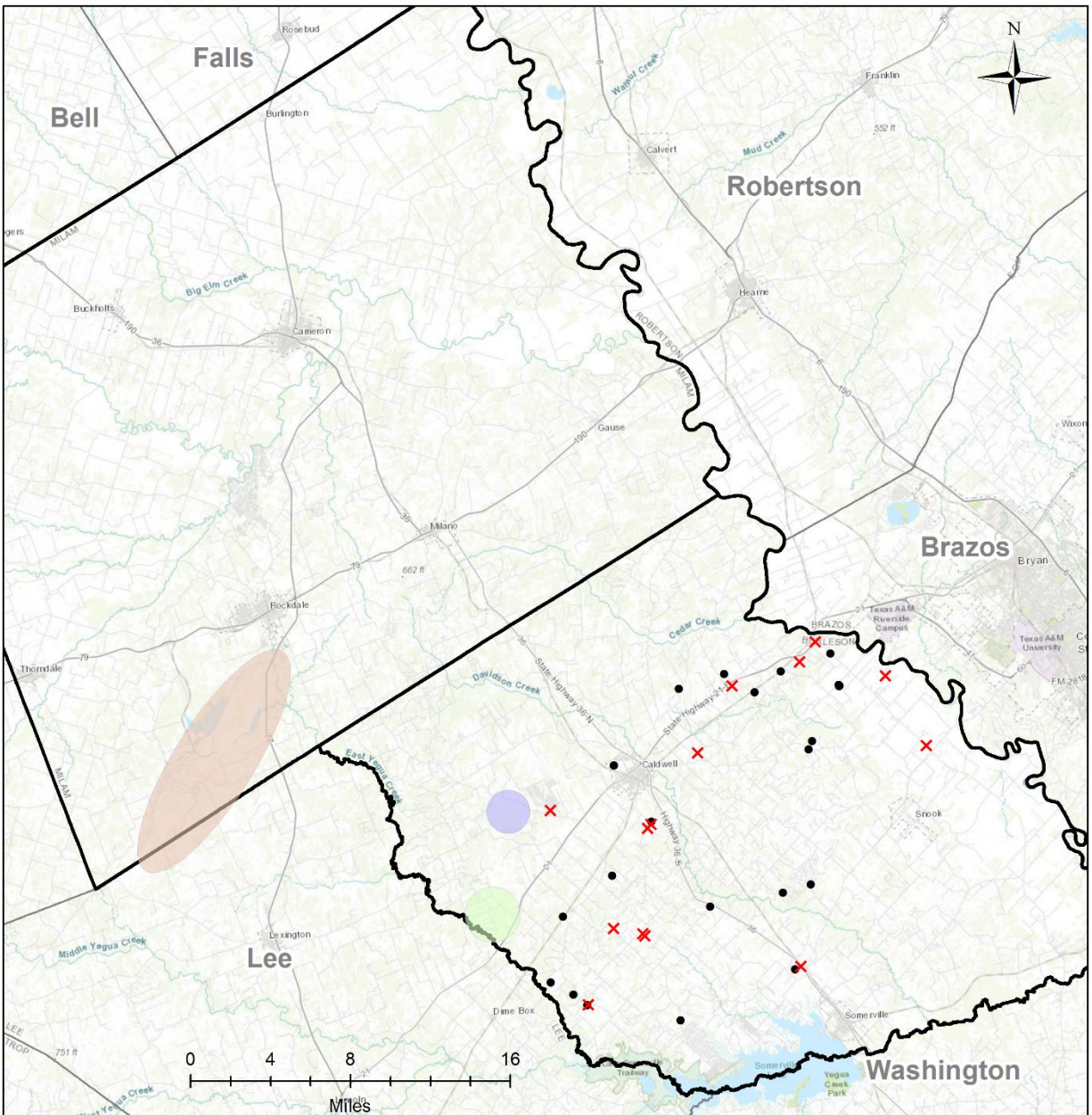


Hooper

- 130 Well Field
- SLR Well Field
- Vista Ridge Well Field
- POSGCD Boundary
- County Line
- x Exempt with Pump Depth (n=190)
- Exempt without Pump Depth (n=497)
- Exempt GWAP (n=2)

Figure A-6 Location of eligible exempt wells in the Hooper Aquifer

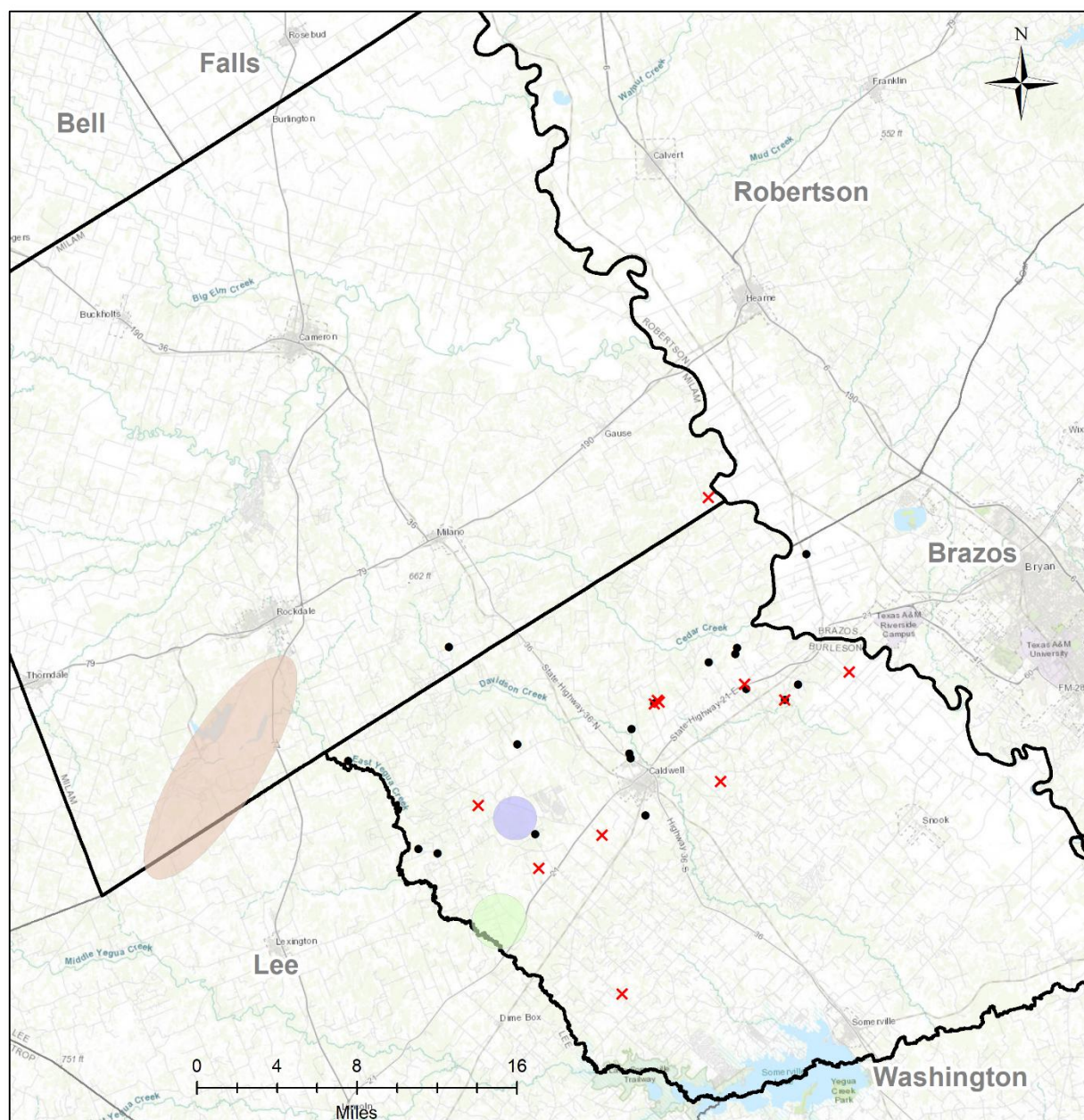
APPENDIX B
LOCATION OF LOW-CAPACITY PERMITTED WELLS BY AQUIFER



Sparta

- | | | | |
|---|------------------------|---|--|
|  | 130 Well Field |  | Low Capacity with Pump Depth (n=14) |
|  | SLR Well Field |  | Low Capacity without Pump Depth (n=24) |
|  | Vista Ridge Well Field |  | Low Capacity GWAP (n=0) |
|  | POSGCD Boundary | | |
|  | County Line | | |

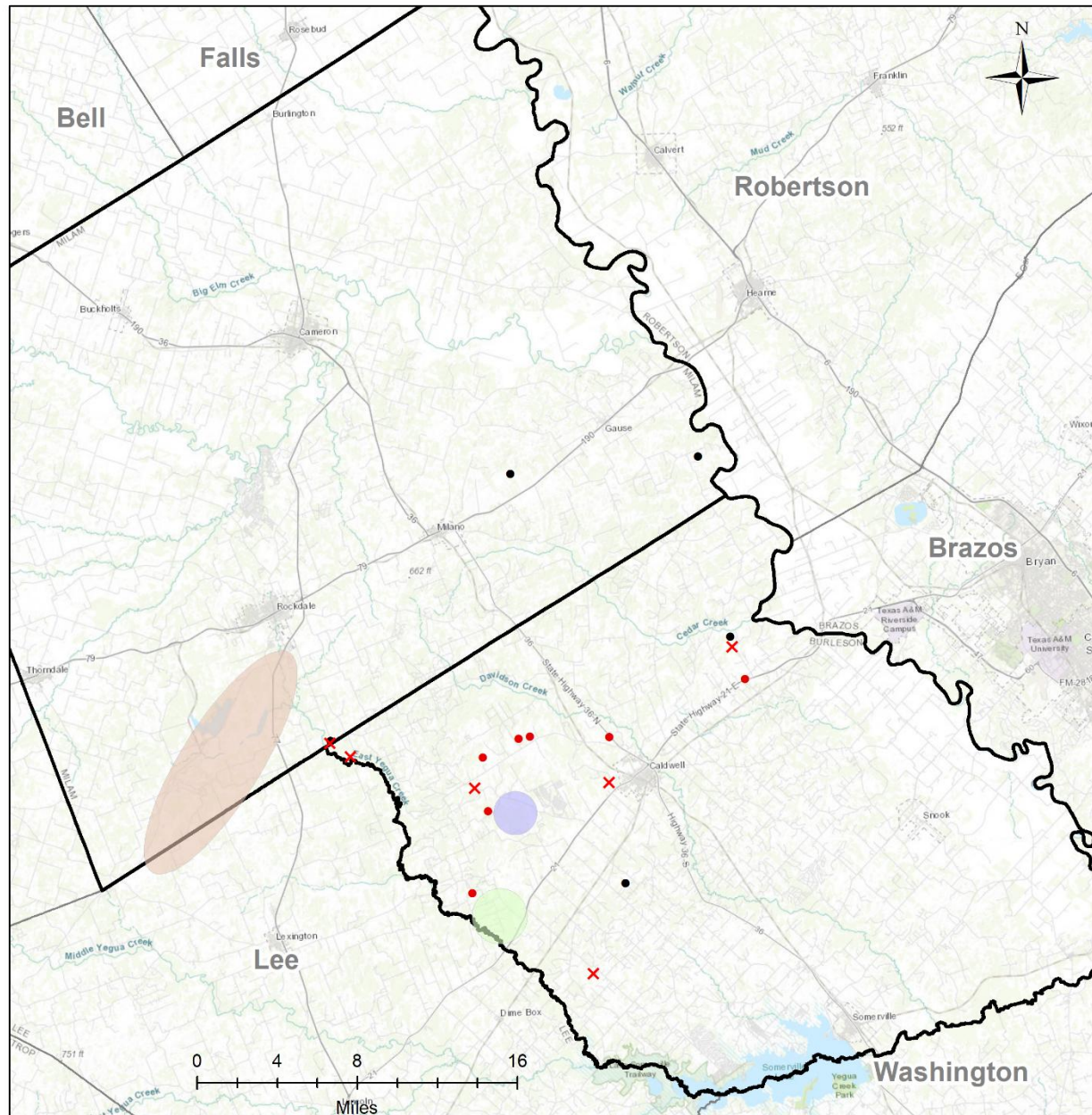
Figure B-1 Location of eligible low-capacity permitted wells in the Sparta Aquifer



Queen City

-  130 Well Field
 SLR Well Field
 Vista Ridge Well Field
 POSGCD Boundary
 County Line
-  Low Capacity with Pump Depth (n=12)
 Low Capacity without Pump Depth (n=18)
 Low Capacity GWAP (n=0)

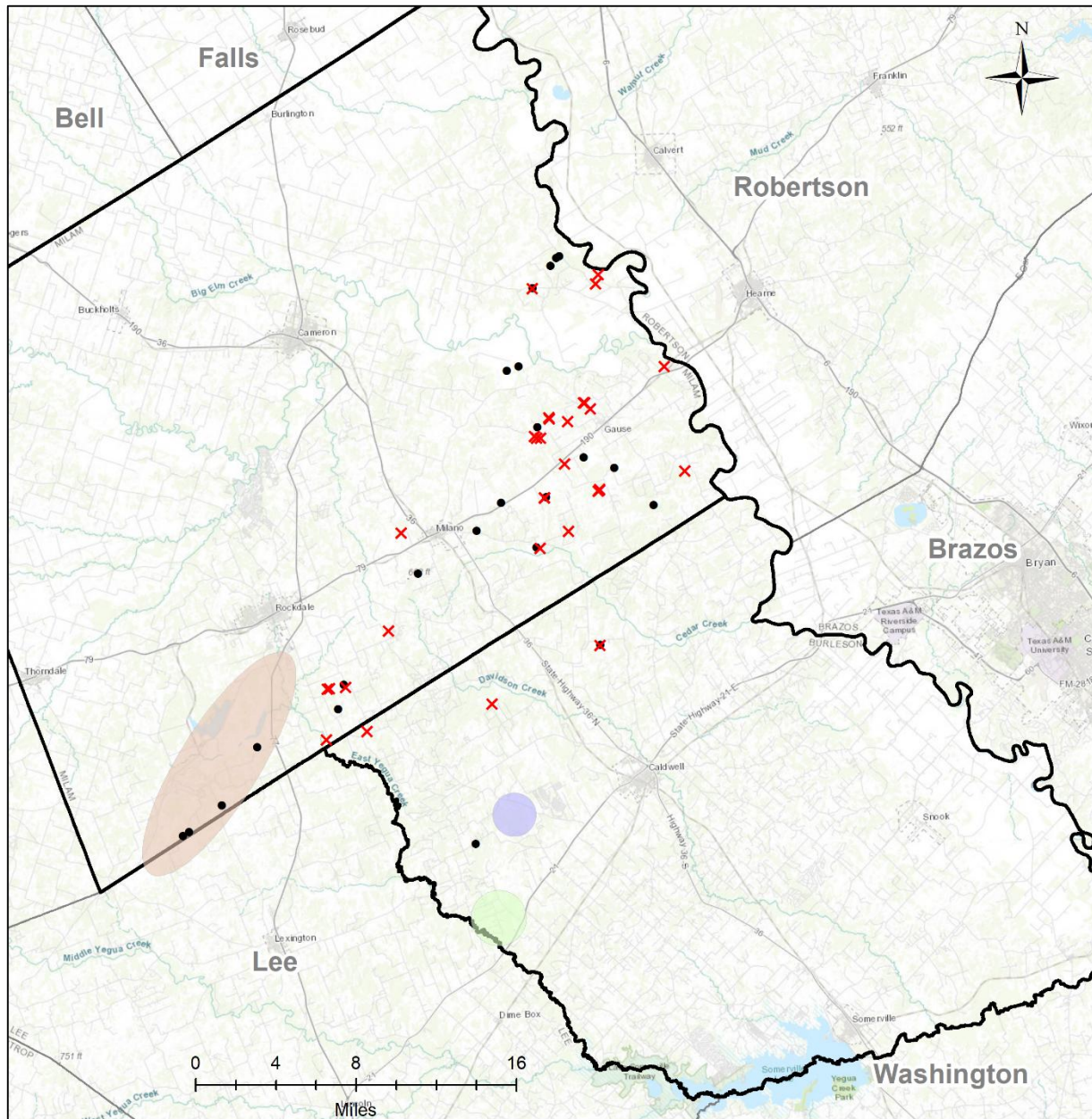
Figure B-2 Location of eligible low-capacity permitted wells in the Queen City Aquifer



Carrizo

- | | |
|--|---|
| 130 Well Field | x Low Capacity with Pump Depth (n=6) |
| SLR Well Field | • Low Capacity without Pump Depth (n=5) |
| Vista Ridge Well Field | • Low Capacity GWAP (n=7) |
| POSGCD Boundary | |
| County Line | |

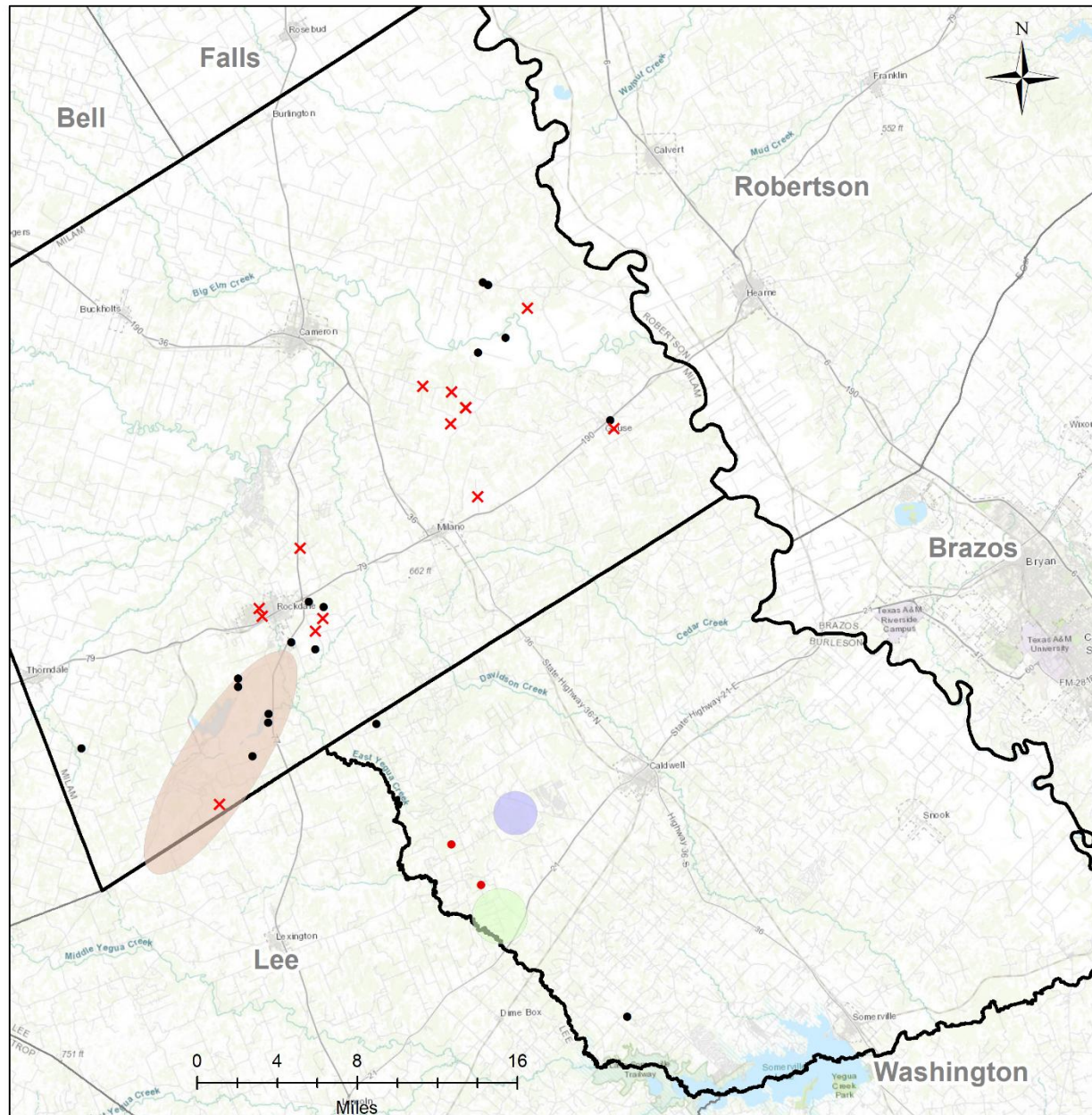
Figure B-3 Location of eligible low-capacity permitted wells in the Carrizo Aquifer



Calvert Bluff

- | | | | |
|---|------------------------|---|--|
|  | 130 Well Field |  | Low Capacity with Pump Depth (n=31) |
|  | SLR Well Field |  | Low Capacity without Pump Depth (n=23) |
|  | Vista Ridge Well Field |  | Low Capacity GWAP (n=0) |
|  | POSGCD Boundary | | |
|  | County Line | | |

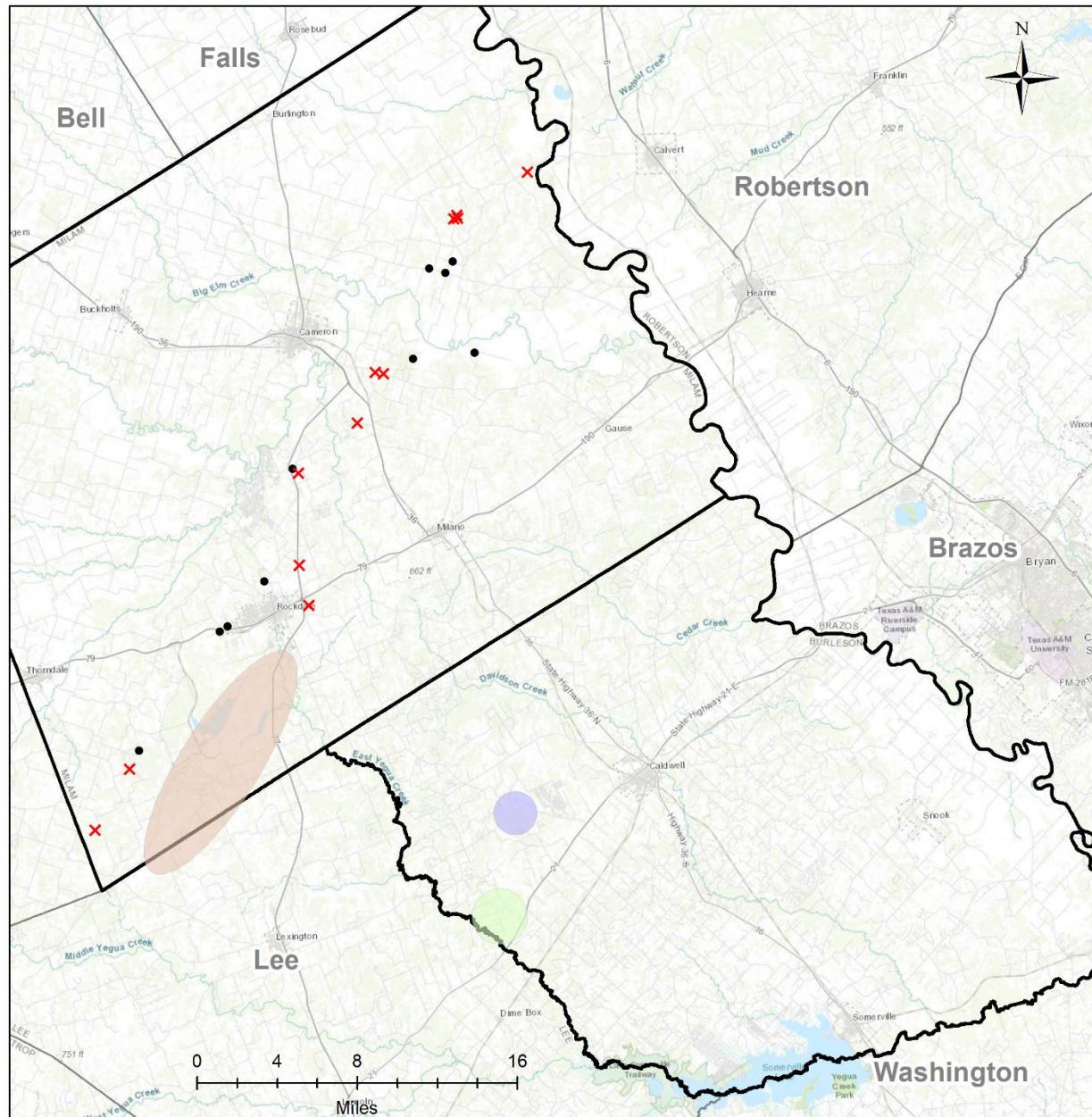
Figure B-4 Location of eligible low-capacity permitted wells in the Calvert Bluff Aquifer



Simsboro

- | | | | |
|---|------------------------|---|--|
|  | 130 Well Field |  | Low Capacity with Pump Depth (n=14) |
|  | SLR Well Field |  | Low Capacity without Pump Depth (n=18) |
|  | Vista Ridge Well Field |  | Low Capacity GWAP (n=2) |
|  | POSGCD Boundary | | |
|  | County Line | | |

Figure B-5 Location of eligible low-capacity permitted wells in the Simsboro Aquifer



Hooper

- | | | | |
|---|------------------------|---|--|
|  | 130 Well Field |  | Low Capacity with Pump Depth (n=12) |
|  | SLR Well Field |  | Low Capacity without Pump Depth (n=10) |
|  | Vista Ridge Well Field |  | Low Capacity GWAP (n=0) |
|  | POSGCD Boundary | | |
|  | County Line | | |

Figure B-6 Location of eligible low-capacity permitted wells in the Hooper Aquifer

APPENDIX C

Tabulation of High-Priority Wells and Wells of Concern

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

Well ID	Aquifer	Water Level is less than 15 feet above Pump in Year			Well of Concern	High-Priority Well
		2026	2029	2036		
PO-000017	Calvert Bluff	0	0	1	no	yes
PO-000475	Carrizo	0	0	1	no	yes
PO-000495	Carrizo	1	1	1	yes	no
PO-000943	Carrizo	1	1	1	yes	no
PO-001076	Carrizo	1	1	1	yes	no
PO-001083	Simsboro	0	0	1	no	yes
PO-001327	Carrizo	0	1	1	no	yes
PO-001328	Carrizo	1	1	1	yes	no
PO-001342	Carrizo	0	0	1	no	yes
PO-001483	Hooper	0	1	1	no	yes
PO-001575	Carrizo	1	1	1	yes	no
PO-001870	Simsboro	0	0	1	no	yes
PO-001883	Simsboro	1	1	1	yes	no
PO-002014	Simsboro	1	1	1	yes	no
PO-002157	Carrizo	0	0	1	no	yes
PO-002173	Simsboro	0	1	1	no	yes
PO-002205	Simsboro	1	1	1	yes	no
PO-002355	Calvert Bluff	1	1	1	yes	no
PO-003440	Carrizo	0	1	1	no	yes
PO-004459	Carrizo	0	0	1	no	yes
PO-004976	Carrizo	0	0	1	no	yes
PO-005114	Carrizo	1	1	1	yes	no
PO-005218	Carrizo	0	0	1	no	yes
PO-005228	Carrizo	1	1	1	yes	no
PO-005231	Carrizo	1	1	1	yes	no
PO-005236	Queen City	1	1	1	yes	no
PO-005480	Carrizo	0	0	1	no	yes
PO-005489	Queen City	1	1	1	yes	no
PO-005754	Carrizo	1	1	1	yes	no
PO-005759	Carrizo	0	1	1	no	yes
PO-005767	Carrizo	1	1	1	yes	no
PO-005810	Carrizo	1	1	1	yes	no
PO-005817	Carrizo	1	1	1	yes	no
PO-006058	Carrizo	1	1	1	yes	no
PO-006225	Simsboro	1	1	1	yes	no
PO-006250	Simsboro	1	1	1	yes	no
PO-006278	Calvert Bluff	1	1	1	yes	no
PO-006308	Queen City	0	0	1	no	yes
PO-006350	Carrizo	0	0	1	no	yes

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

Well ID	Aquifer	Water Level is less than 15 feet above Pump in Year			Well of Concern	High-Priority Well
		2026	2029	2036		
PO-006415	Carrizo	0	0	1	no	yes
PO-006427	Sparta	1	1	1	yes	no
PO-006471	Weches	1	1	1	yes	no
PO-006551	Carrizo	0	0	1	no	yes
PO-006658	Carrizo	0	1	1	no	yes
PO-006796	Simsboro	0	0	1	no	yes
PO-006815	Carrizo	1	1	1	yes	no
PO-006861	Sparta	1	1	1	yes	no
PO-006950	Weches	1	1	1	yes	no
PO-007055	Calvert Bluff	0	0	1	no	yes
PO-007242	Simsboro	1	1	1	yes	no
PO-007285	Carrizo	1	1	1	yes	no
PO-007332	Carrizo	0	0	1	no	yes
PO-007363	Simsboro	1	1	1	yes	no
PO-007378	Simsboro	0	0	1	no	yes
PO-007395	Carrizo	1	1	1	yes	no
PO-007442	Simsboro	1	1	1	yes	no
PO-007491	Hooper	0	1	1	no	yes
PO-007511	Calvert Bluff	1	1	1	yes	no
PO-007641	Simsboro	1	1	1	yes	no
PO-007759	Sparta	1	1	1	yes	no
PO-007765	Carrizo	0	0	1	no	yes
PO-008053	Carrizo	0	1	1	no	yes
PO-008054	Carrizo	0	1	1	no	yes
PO-008067	Simsboro	0	0	1	no	yes
PO-008075	Calvert Bluff	1	1	1	yes	no
PO-008086	Simsboro	1	1	1	yes	no
PO-008095	Calvert Bluff	0	1	1	no	yes
PO-008111	Carrizo	0	1	1	no	yes
PO-008147	Carrizo	0	0	1	no	yes
PO-008172	Hooper	0	0	1	no	yes
PO-008207	Hooper	1	1	1	yes	no
PO-008219	Carrizo	0	0	1	no	yes
PO-008223	Carrizo	0	1	1	no	yes
PO-008255	Simsboro	0	0	1	no	yes
PO-008271	Carrizo	1	1	1	yes	no
PO-008322	Carrizo	1	1	1	yes	no
PO-008326	Carrizo	0	0	1	no	yes
PO-008336	Weches	1	1	1	yes	no

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

Well ID	Aquifer	Water Level is less than 15 feet above Pump in Year			Well of Concern	High-Priority Well
		2026	2029	2036		
PO-008338	Carrizo	0	1	1	no	yes
PO-008478	Calvert Bluff	1	1	1	yes	no
PO-008659	Carrizo	1	1	1	yes	no
PO-008700	Queen City	1	1	1	yes	no
PO-008739	Simsboro	1	1	1	yes	no
PO-008793	Carrizo	1	1	1	yes	no
PO-008794	Carrizo	0	1	1	no	yes
PO-008805	Carrizo	0	1	1	no	yes
PO-008811	Sparta	1	1	1	yes	no
PO-008826	Carrizo	0	0	1	no	yes
PO-008827	Queen City	1	1	1	yes	no
PO-008868	Calvert Bluff	0	1	1	no	yes
PO-008884	Carrizo	0	0	1	no	yes
PO-008885	Carrizo	0	0	1	no	yes
PO-008908	Carrizo	1	1	1	yes	no
PO-008922	Carrizo	0	0	1	no	yes
PO-008923	Carrizo	1	1	1	yes	no
PO-008956	Carrizo	0	0	1	no	yes
PO-008959	Calvert Bluff	0	0	1	no	yes
PO-008964	Carrizo	1	1	1	yes	no
PO-008965	Carrizo	0	0	1	no	yes
PO-008971	Calvert Bluff	0	1	1	no	yes
PO-009005	Sparta	1	1	1	yes	no
PO-009032	Carrizo	0	1	1	no	yes
PO-009033	Queen City	1	1	1	yes	no
PO-009084	Carrizo	1	1	1	yes	no
PO-009134	Carrizo	1	1	1	yes	no
PO-009138	Carrizo	1	1	1	yes	no
PO-009197	Calvert Bluff	0	0	1	no	yes
PO-009241	Hooper	1	1	1	yes	no
PO-009242	Carrizo	0	1	1	no	yes
PO-009260	Carrizo	0	0	1	no	yes
PO-009261	Calvert Bluff	0	0	1	no	yes
PO-009273	Hooper	0	0	1	no	yes
PO-009288	Sparta	1	1	1	yes	no
PO-009332	Carrizo	1	1	1	yes	no
PO-009362	Carrizo	0	0	1	no	yes
PO-009369	Carrizo	0	0	1	no	yes
PO-009372	Queen City	1	1	1	yes	no

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

Well ID	Aquifer	Water Level is less than 15 feet above Pump in Year			Well of Concern	High-Priority Well
		2026	2029	2036		
PO-009377	Simsboro	1	1	1	yes	no
PO-009385	Carrizo	1	1	1	yes	no
PO-009388	Queen City	1	1	1	yes	no
PO-009395	Carrizo	1	1	1	yes	no
PO-009428	Calvert Bluff	1	1	1	yes	no
PO-009431	Carrizo	0	0	1	no	yes
PO-009434	Carrizo	1	1	1	yes	no
PO-009435	Carrizo	1	1	1	yes	no
PO-009462	Carrizo	1	1	1	yes	no
PO-009469	Simsboro	1	1	1	yes	no
PO-009470	Sparta	1	1	1	yes	no
PO-009474	Sparta	0	0	1	no	yes
PO-009479	Carrizo	1	1	1	yes	no
PO-009495	Simsboro	0	0	1	no	yes
PO-009527	Hooper	1	1	1	yes	no
PO-009529	Queen City	0	0	1	no	yes
PO-009530	Calvert Bluff	0	1	1	no	yes
PO-009558	Sparta	1	1	1	yes	no
PO-009570	Carrizo	1	1	1	yes	no
PO-009572	Carrizo	0	1	1	no	yes
PO-009592	Calvert Bluff	0	0	1	no	yes
PO-009595	Simsboro	1	1	1	yes	no
PO-009604	Calvert Bluff	0	0	1	no	yes
PO-009607	Calvert Bluff	1	1	1	yes	no
PO-009608	Simsboro	1	1	1	yes	no
PO-009609	Carrizo	0	0	1	no	yes
PO-009647	Carrizo	0	1	1	no	yes
PO-009657	Calvert Bluff	0	0	1	no	yes
PO-009658	Simsboro	1	1	1	yes	no
PO-009698	Simsboro	1	1	1	yes	no
PO-009721	Carrizo	0	0	1	no	yes
PO-009724	Calvert Bluff	1	1	1	yes	no
PO-009753	Simsboro	1	1	1	yes	no
PO-009754	Simsboro	1	1	1	yes	no
PO-009769	Simsboro	1	1	1	yes	no
PO-009772	Simsboro	1	1	1	yes	no
PO-009786	Carrizo	0	1	1	no	yes
PO-009787	Carrizo	1	1	1	yes	no
PO-009807	Carrizo	1	1	1	yes	no

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

Well ID	Aquifer	Water Level is less than 15 feet above Pump in Year			Well of Concern	High-Priority Well
		2026	2029	2036		
PO-010874	Sparta	1	1	1	yes	no
PO-010896	Simsboro	1	1	1	yes	no
PO-010906	Simsboro	1	1	1	yes	no
PO-010918	Carrizo	1	1	1	yes	no
PO-010952	Carrizo	0	1	1	no	yes
PO-010967	Carrizo	0	1	1	no	yes
PO-010970	Carrizo	1	1	1	yes	no
PO-010979	Carrizo	0	1	1	no	yes
PO-010984	Simsboro	1	1	1	yes	no
PO-011013	Simsboro	1	1	1	yes	no
PO-011134	Simsboro	1	1	1	yes	no
PO-011136	Queen City	1	1	1	yes	no
PO-011143	Simsboro	1	1	1	yes	no
PO-011146	Queen City	1	1	1	yes	no
PO-011160	Calvert Bluff	1	1	1	yes	no
PO-011170	Carrizo	0	0	1	no	yes
PO-011255	Simsboro	1	1	1	yes	no
PO-011271	Simsboro	1	1	1	yes	no
PO-011273	Simsboro	1	1	1	yes	no
PO-011278	Simsboro	1	1	1	yes	no
PO-011279	Carrizo	0	0	1	no	yes
PO-011280	Carrizo	1	1	1	yes	no
PO-011288	Carrizo	1	1	1	yes	no
PO-011303	Simsboro	1	1	1	yes	no
PO-011310	Calvert Bluff	1	1	1	yes	no
PO-011312	Simsboro	1	1	1	yes	no
PO-011316	Calvert Bluff	1	1	1	yes	no
PO-011317	Carrizo	1	1	1	yes	no
PO-011329	Carrizo	1	1	1	yes	no
PO-011330	Carrizo	1	1	1	yes	no
PO-011337	Carrizo	1	1	1	yes	no
PO-011351	Calvert Bluff	1	1	1	yes	no
PO-011370	Carrizo	0	0	1	no	yes
PO-011373	Carrizo	0	1	1	no	yes
PO-011380	Carrizo	0	0	1	no	yes
PO-011383	Carrizo	0	1	1	no	yes
PO-011384	Carrizo	1	1	1	yes	no
PO-011385	Queen City	1	1	1	yes	no
PO-011389	Carrizo	1	1	1	yes	no

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

Well ID	Aquifer	Water Level is less than 15 feet above Pump in Year			Well of Concern	High-Priority Well
		2026	2029	2036		
PO-011402	Carrizo	0	1	1	no	yes
PO-011403	Carrizo	1	1	1	yes	no
PO-011410	Carrizo	1	1	1	yes	no
PO-011411	Calvert Bluff	1	1	1	yes	no
PO-011432	Sparta	1	1	1	yes	no
PO-011441	Carrizo	0	0	1	no	yes
PO-011444	Calvert Bluff	1	1	1	yes	no
PO-011488	Carrizo	0	1	1	no	yes
PO-011490	Calvert Bluff	1	1	1	yes	no
PO-011493	Carrizo	1	1	1	yes	no
PO-011494	Calvert Bluff	1	1	1	yes	no
PO-011495	Carrizo	0	0	1	no	yes
PO-011510	Carrizo	1	1	1	yes	no
PO-011514	Carrizo	1	1	1	yes	no
PO-011526	Carrizo	1	1	1	yes	no
PO-011529	Carrizo	1	1	1	yes	no
PO-011531	Simsboro	1	1	1	yes	no
PO-011546	Calvert Bluff	0	0	1	no	yes
PO-011550	Calvert Bluff	1	1	1	yes	no
PO-011554	Queen City	1	1	1	yes	no
PO-011558	Simsboro	1	1	1	yes	no
PO-011566	Carrizo	0	0	1	no	yes
PO-011568	Carrizo	0	0	1	no	yes
PO-011600	Sparta	0	0	1	no	yes
PO-011605	Carrizo	1	1	1	yes	no
PO-011606	Hooper	1	1	1	yes	no
PO-011609	Sparta	1	1	1	yes	no
PO-011610	Sparta	1	1	1	yes	no
PO-011623	Calvert Bluff	1	1	1	yes	no
PO-011650	Calvert Bluff	0	0	1	no	yes
PO-011654	Carrizo	1	1	1	yes	no
PO-011659	Hooper	0	0	1	no	yes
PO-011705	Carrizo	0	0	1	no	yes
PO-011713	Carrizo	1	1	1	yes	no
PO-011753	Carrizo	1	1	1	yes	no
PO-011785	Carrizo	0	0	1	no	yes
PO-011797	Queen City	1	1	1	yes	no
PO-011815	Carrizo	1	1	1	yes	no
PO-011846	Carrizo	1	1	1	yes	no

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

Well ID	Aquifer	Water Level is less than 15 feet above Pump in Year			Well of Concern	High- Priority Well
		2026	2029	2036		
PO-011856	Carrizo	1	1	1	yes	no
PO-011869	Carrizo	1	1	1	yes	no
PO-011872	Carrizo	1	1	1	yes	no
PO-011875	Carrizo	0	0	1	no	yes
PO-011927	Carrizo	0	0	1	no	yes
PO-011937	Carrizo	1	1	1	yes	no
PO-011998	Carrizo	0	0	1	no	yes
PO-012020	Carrizo	1	1	1	yes	no
PO-012024	Carrizo	0	1	1	no	yes
PO-012026	Carrizo	0	0	1	no	yes
PO-012050	Carrizo	0	1	1	no	yes
PO-012053	Sparta	1	1	1	yes	no
PO-012063	Carrizo	0	0	1	no	yes
PO-012175	Hooper	0	0	1	no	yes
PO-012192	Carrizo	0	0	1	no	yes
PO-012294	Carrizo	1	1	1	yes	no
PO-012296	Sparta	1	1	1	yes	no

APPENDIX D

Hydrographs for High-Priority Wells

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

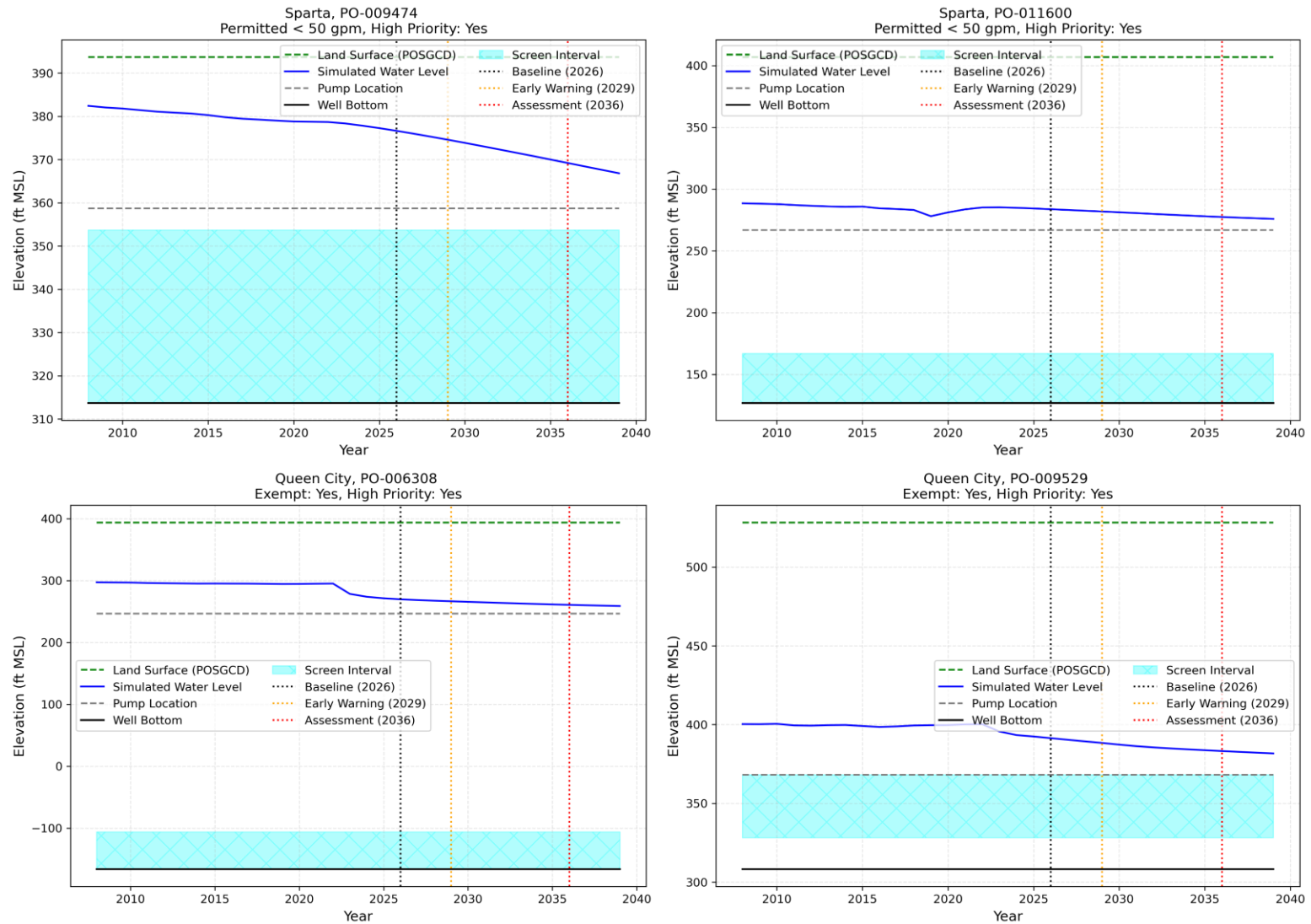


Figure D-1 Simulated water levels for high-priority wells PO-009474 and PO-0011600 in Sparta, and PO-006308 and PO-009529 located in the Queen City Aquifers

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

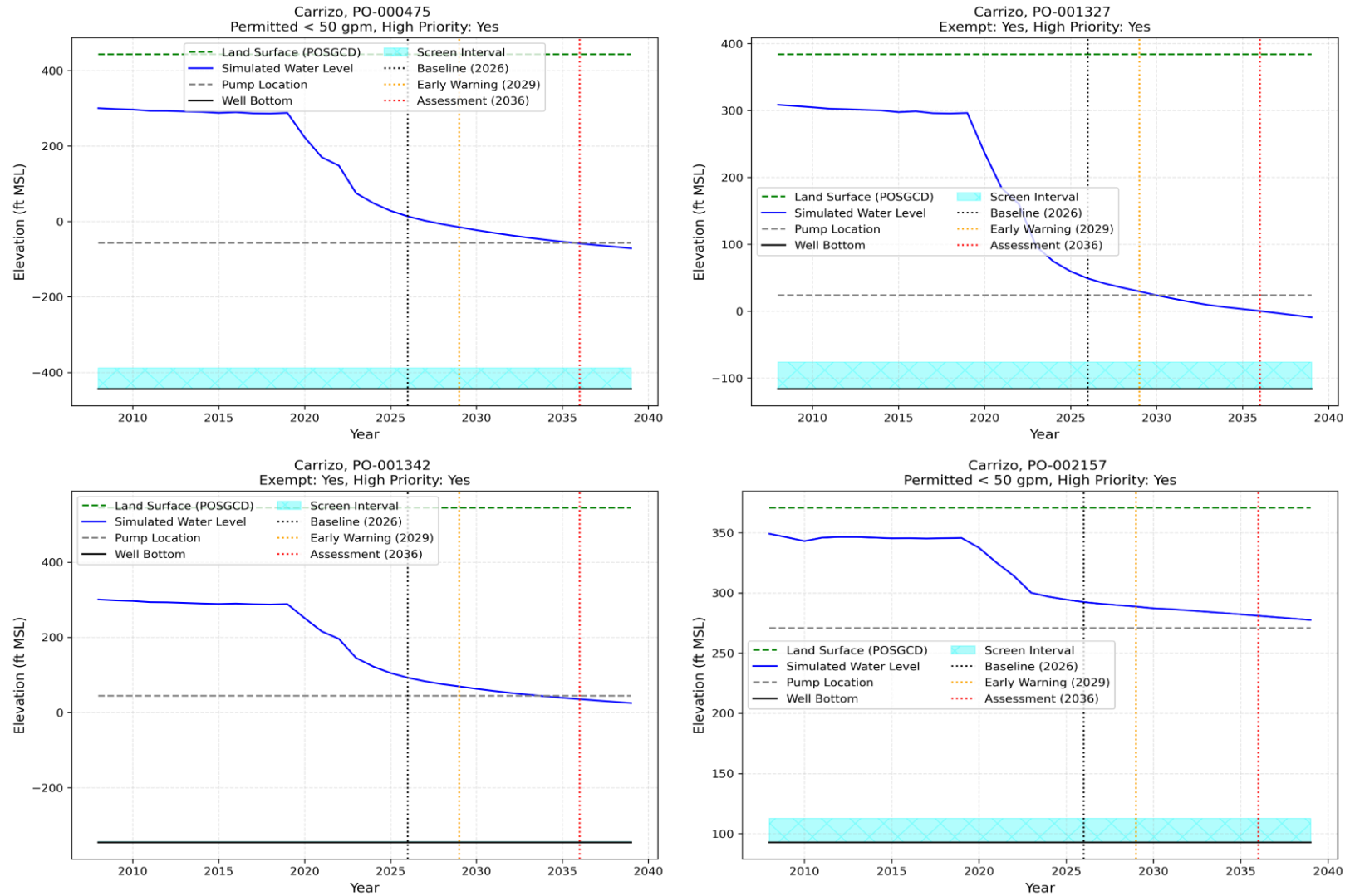


Figure D-2 Simulated water levels for high-priority wells PO-000475, PO-001327, PO-001342 and PO-002157 located in the Carrizo Aquifer

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

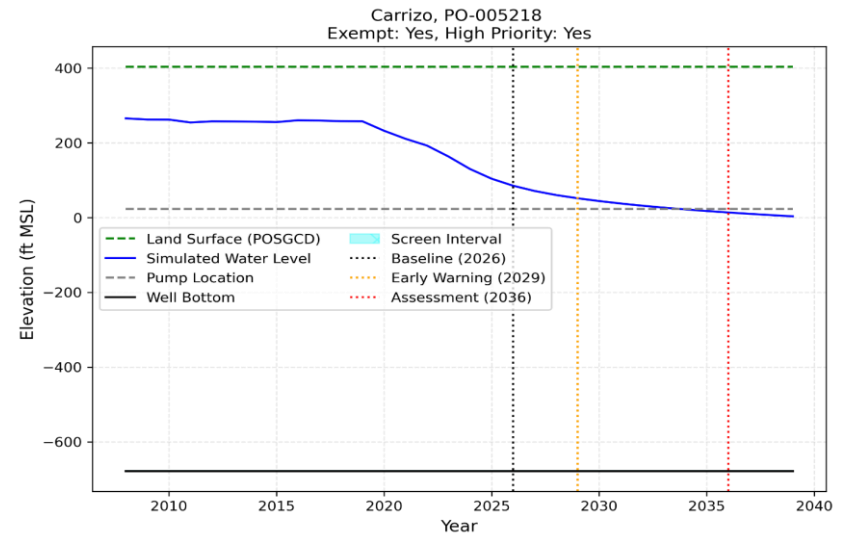
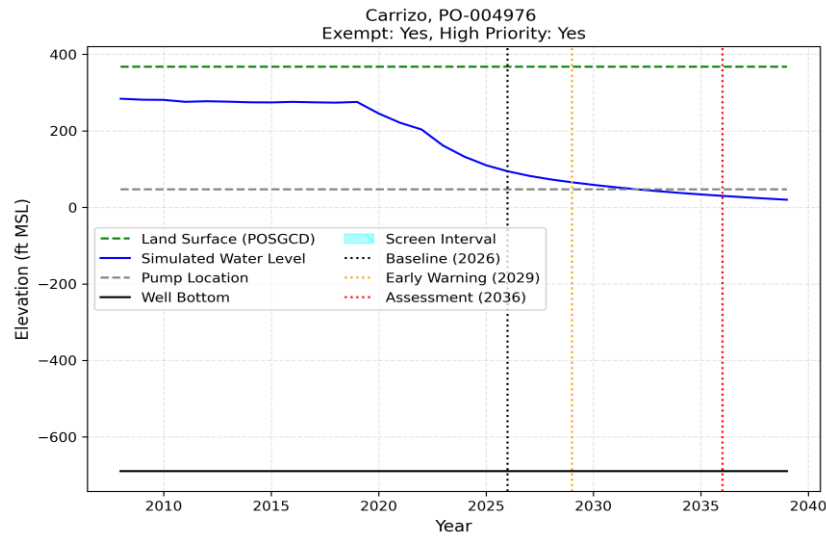
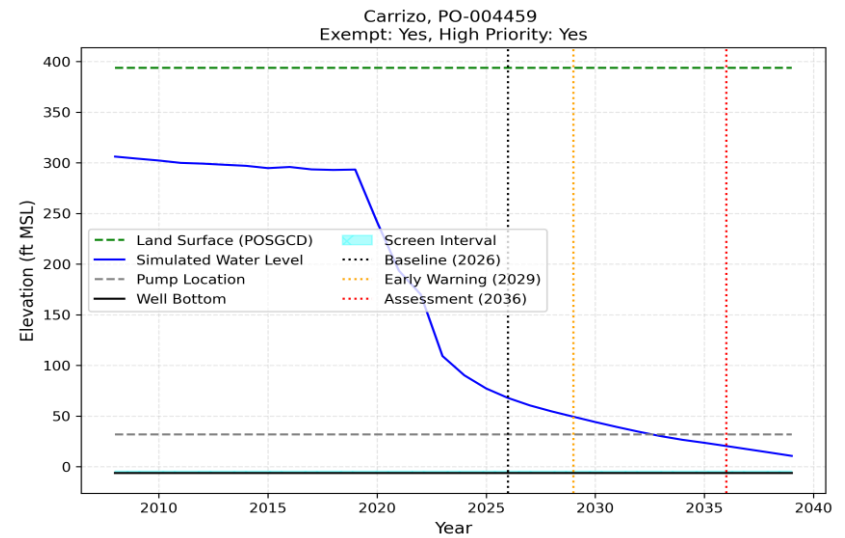
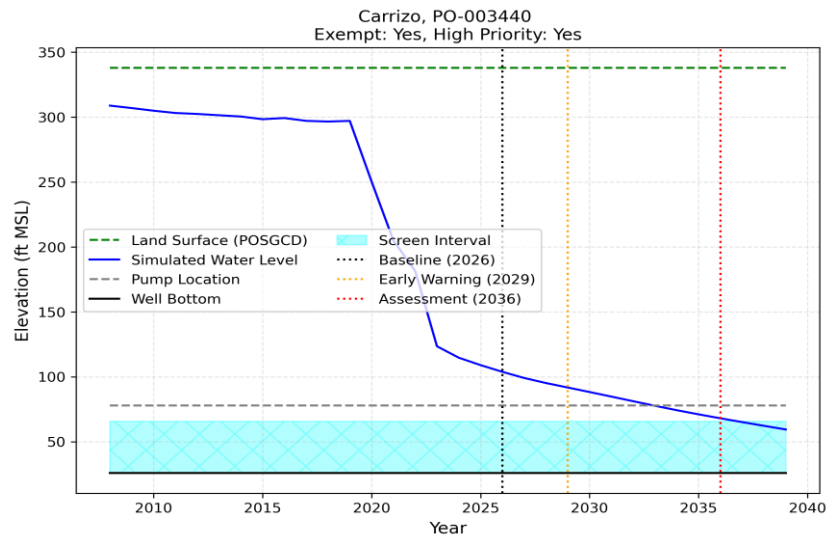


Figure D-3 Simulated water levels for high-priority wells PO-003440, PO-004459, PO-004976 and PO-005218 located in the Carrizo Aquifer

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

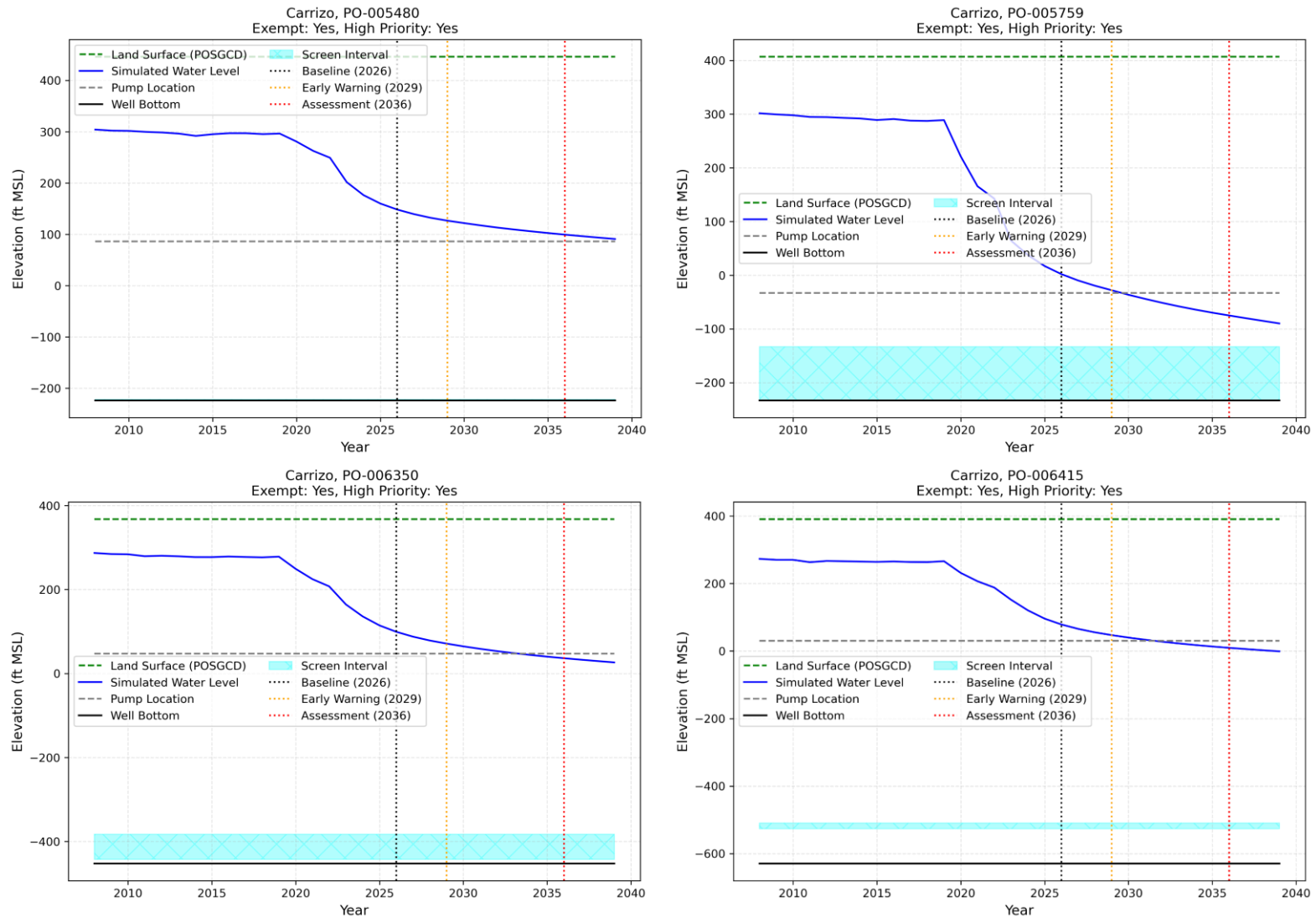


Figure D-4 Simulated water levels for high-priority wells PO-005480, PO-005759, PO-006350 and PO-006415 located in the Carrizo Aquifer

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

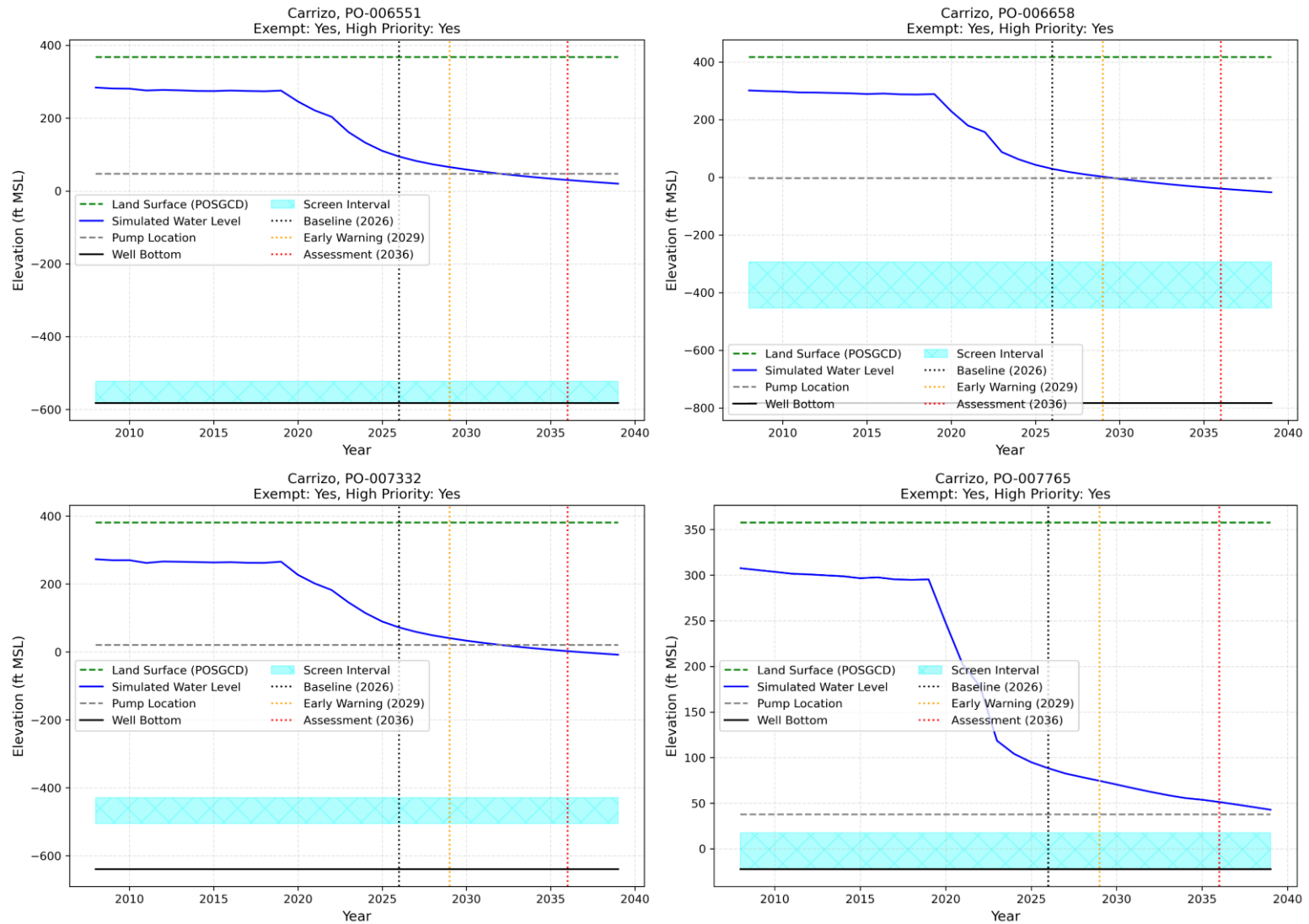


Figure D-5 Simulated water levels for high-priority wells PO-006551, PO-006658, PO-007332 and PO-007765 located in the Carrizo Aquifer

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

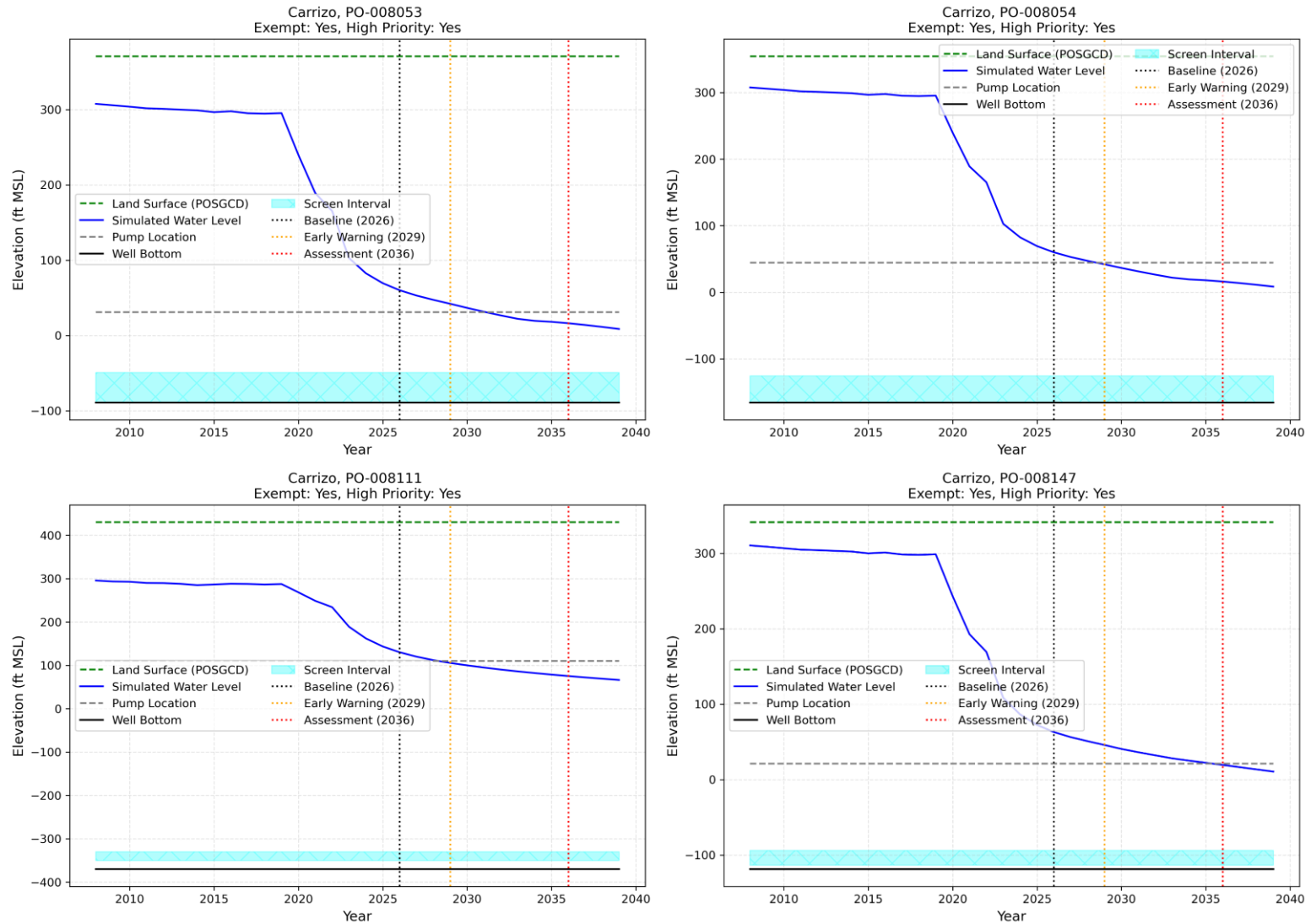


Figure D-6 Simulated water levels for high-priority wells PO-008053, PO-008054, PO-008111 and PO-008147 located in the Carrizo Aquifer

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

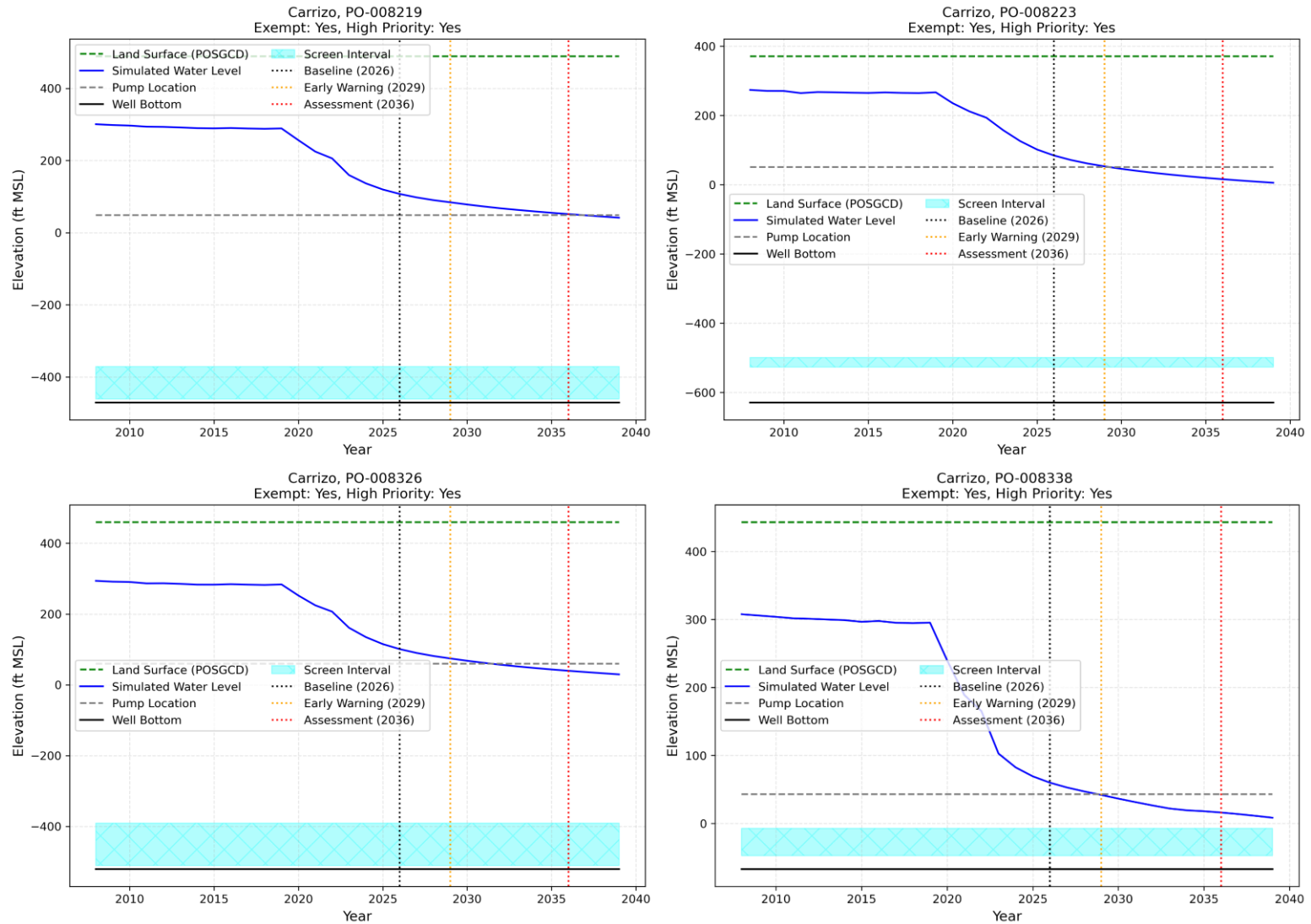


Figure D-7 Simulated water levels for high-priority wells PO-008219, PO-008223, PO-008326 and PO-008338 located in the Carrizo Aquifer

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

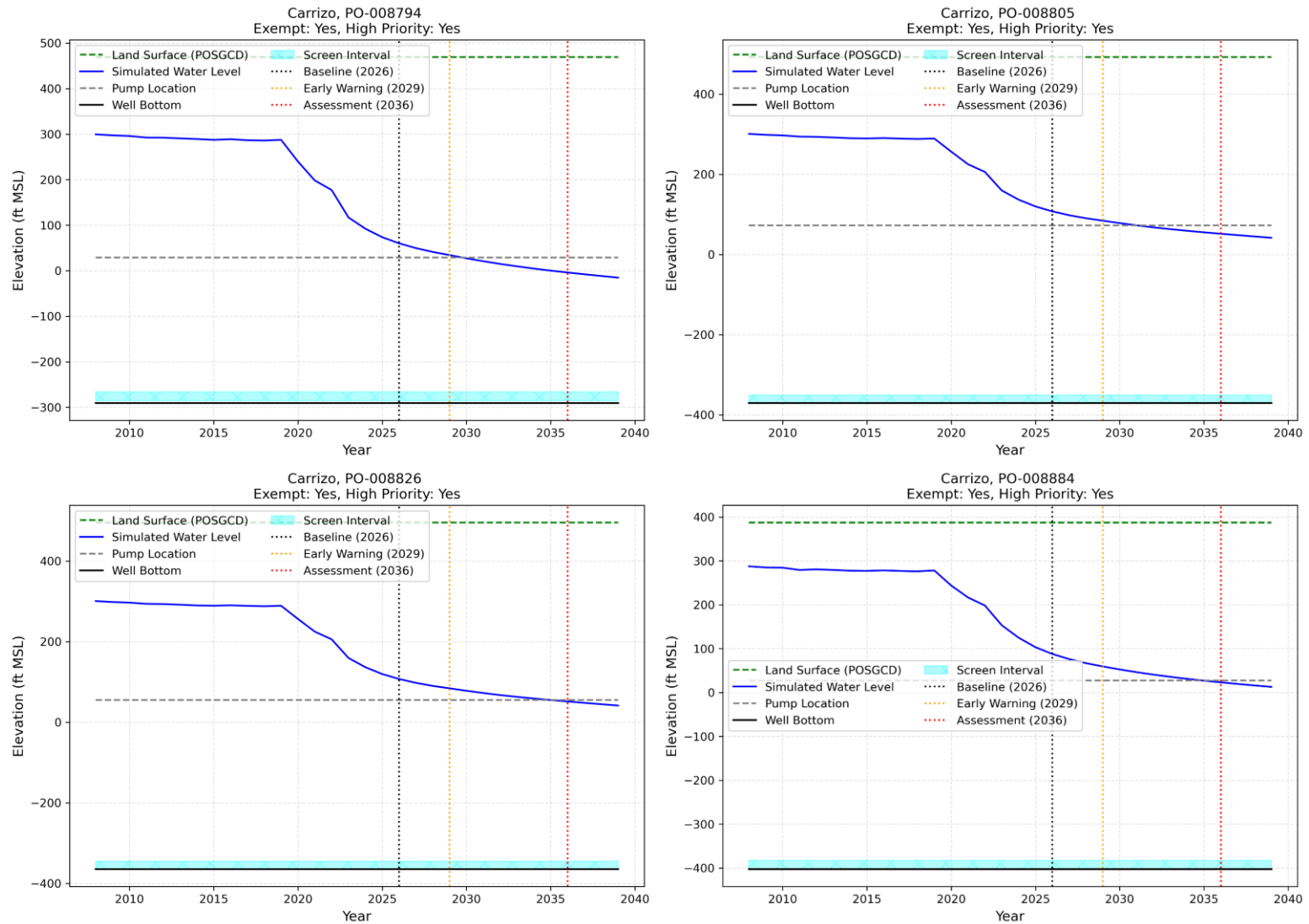


Figure D-8 Simulated water levels for high-priority wells PO-008794, PO-008805, PO-008826 and PO-008848 located in the Carrizo Aquifer

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

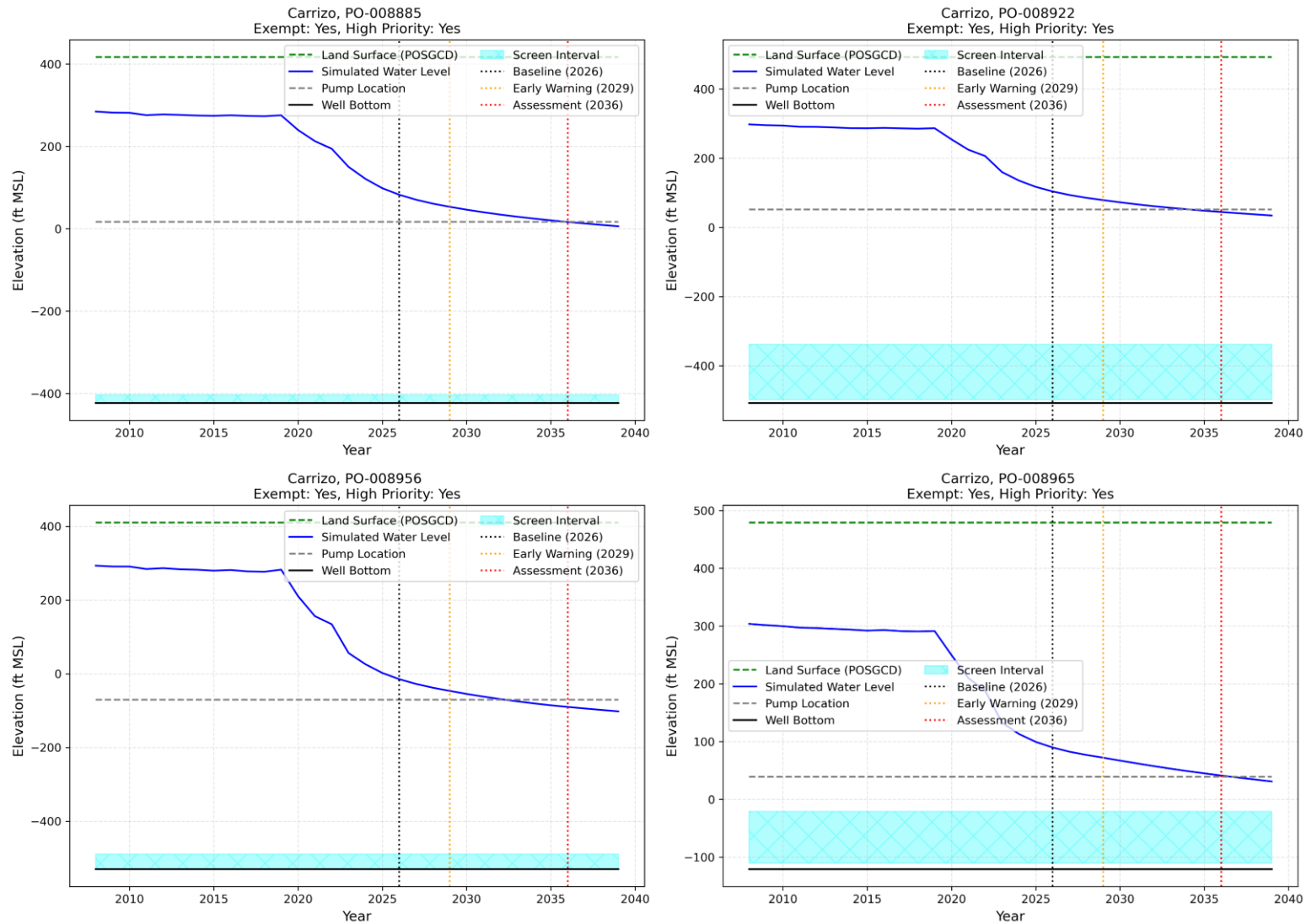


Figure D-9 Simulated water levels for high-priority wells PO-008885, PO-008922, PO-008956 and PO-008965 located in the Carrizo Aquifer

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

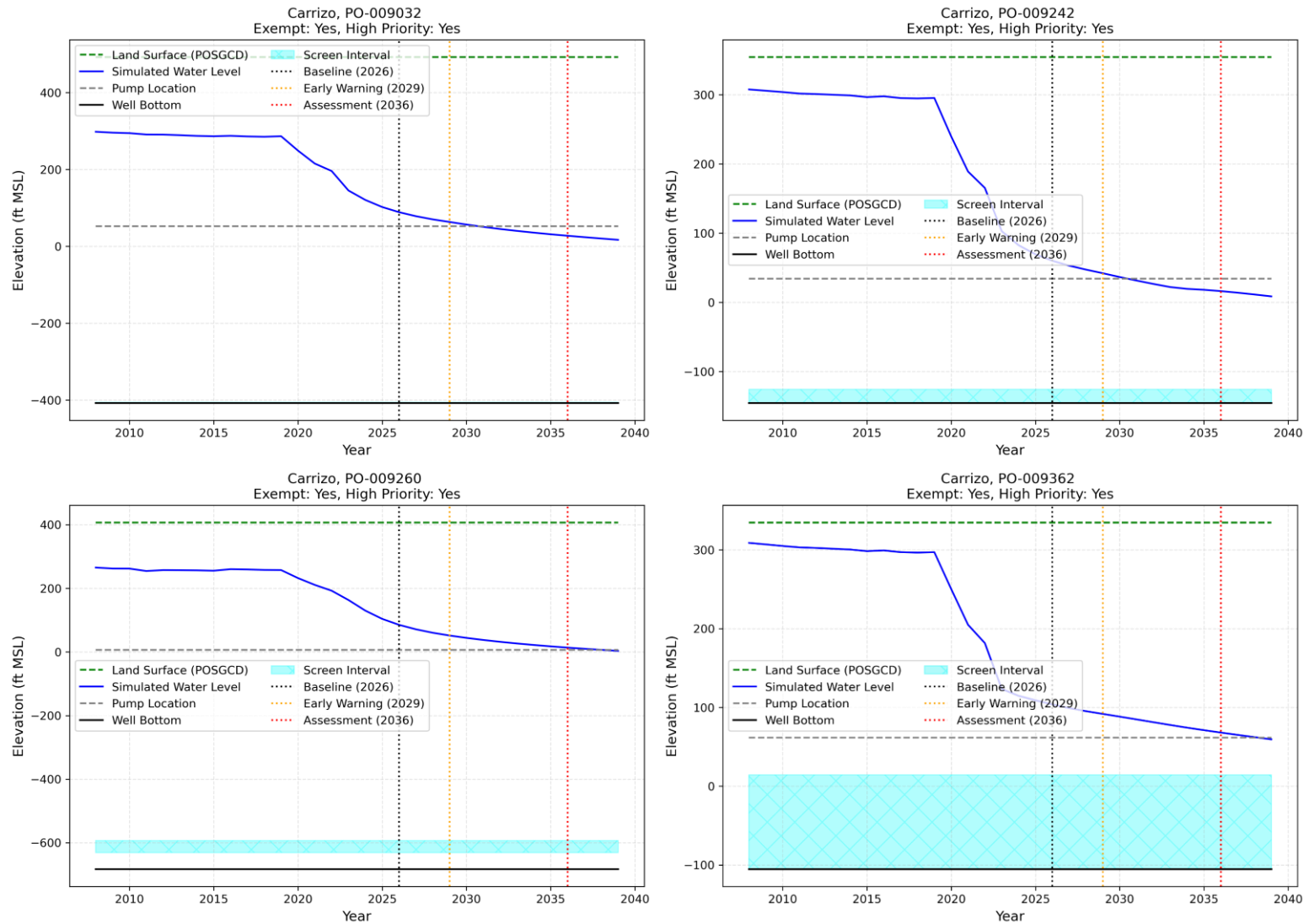


Figure D-10 Simulated water levels for high-priority wells PO-009032, PO-009242, PO-009260 and PO-009362 located in the Carrizo Aquifer

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

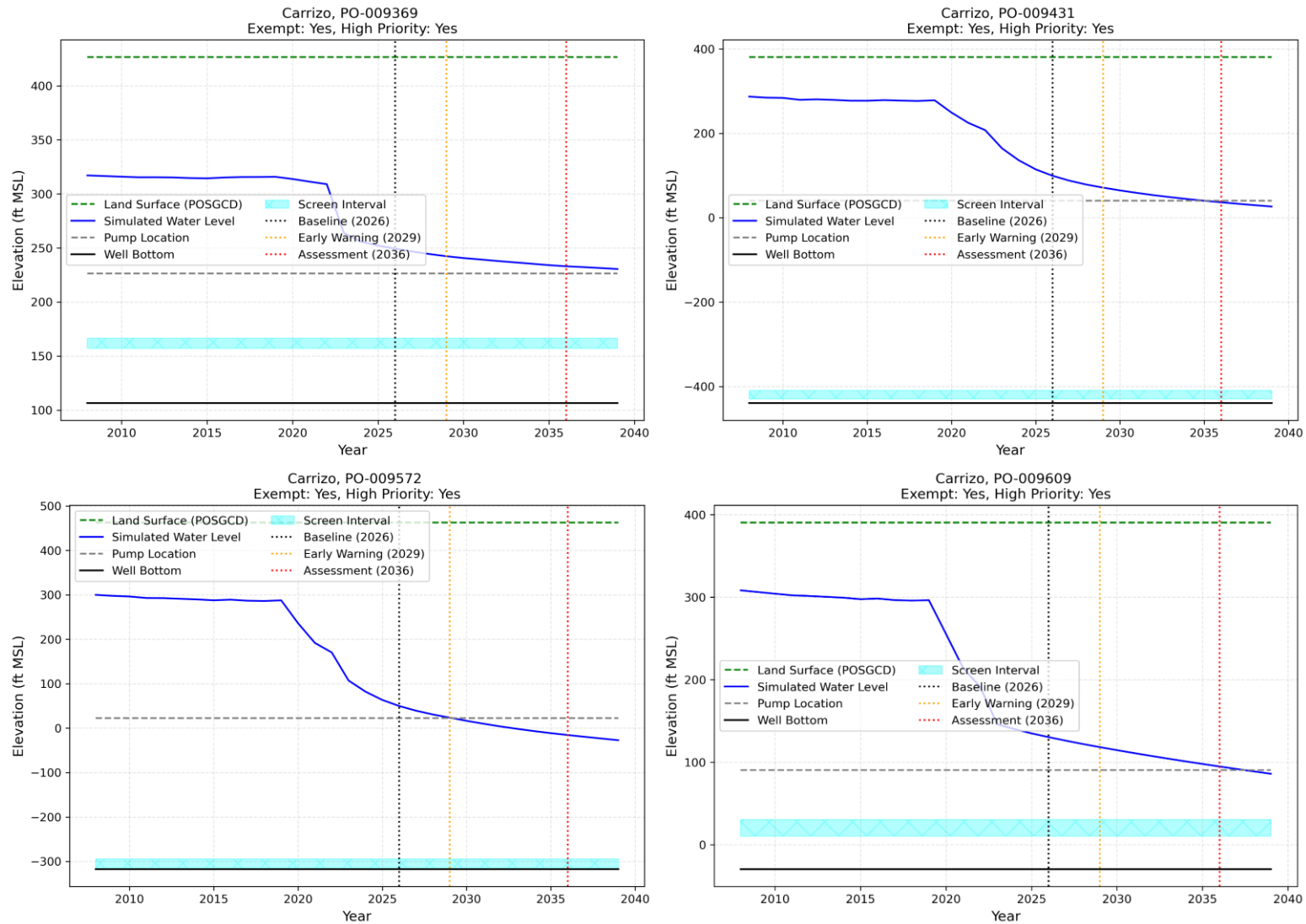


Figure D-11 Simulated water levels for high-priority wells PO-009369, PO-009431, PO-009572 and PO-009609 located in the Carrizo Aquifer

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

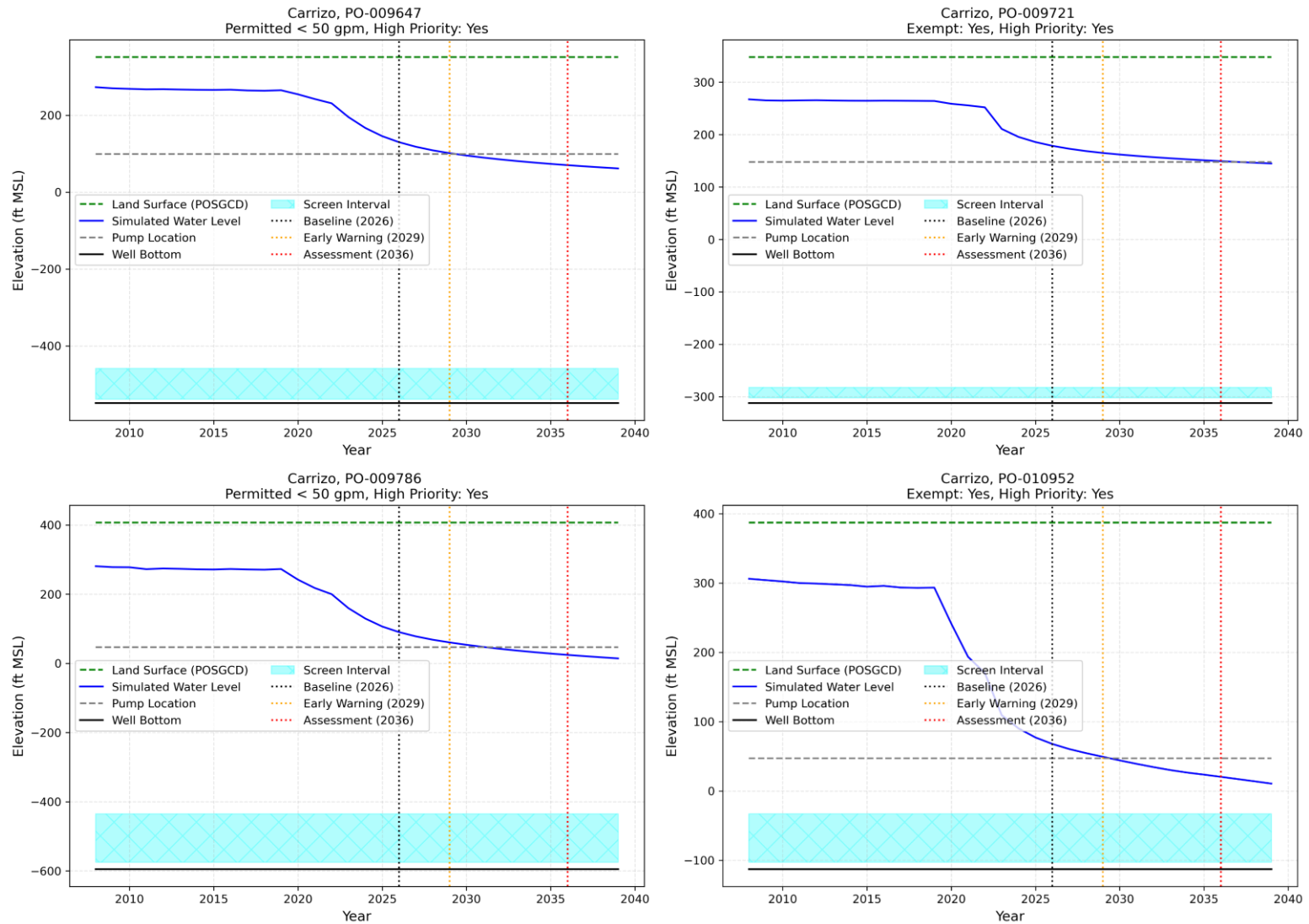


Figure D-12 Simulated water levels for high-priority wells PO-009647, PO-009721, PO-009786 and PO-010952 located in the Carrizo Aquifer

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

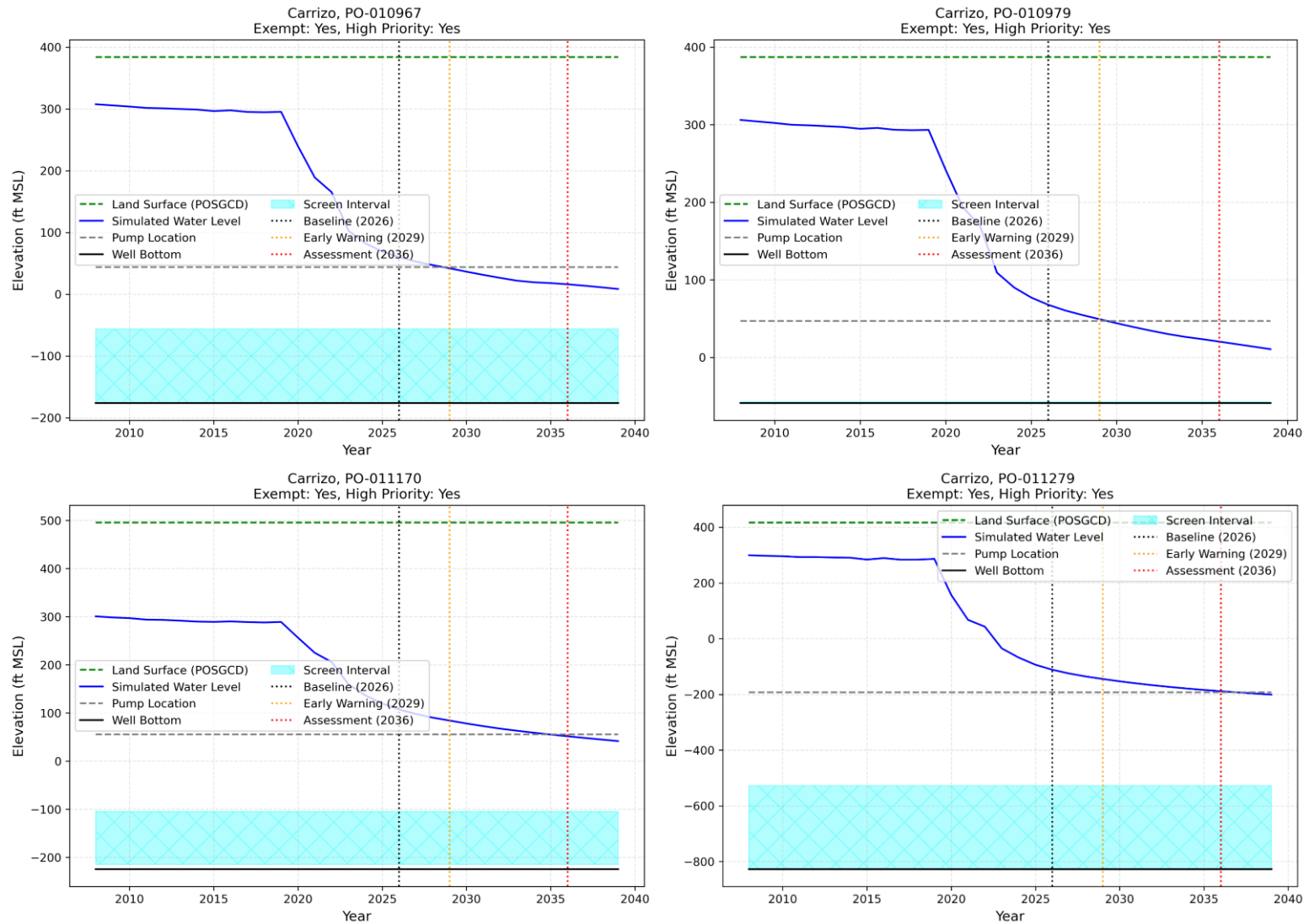


Figure D-13 Simulated water levels for high-priority wells PO-010967, PO-010979, PO-011170 and PO-011279 located in the Carrizo Aquifer

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

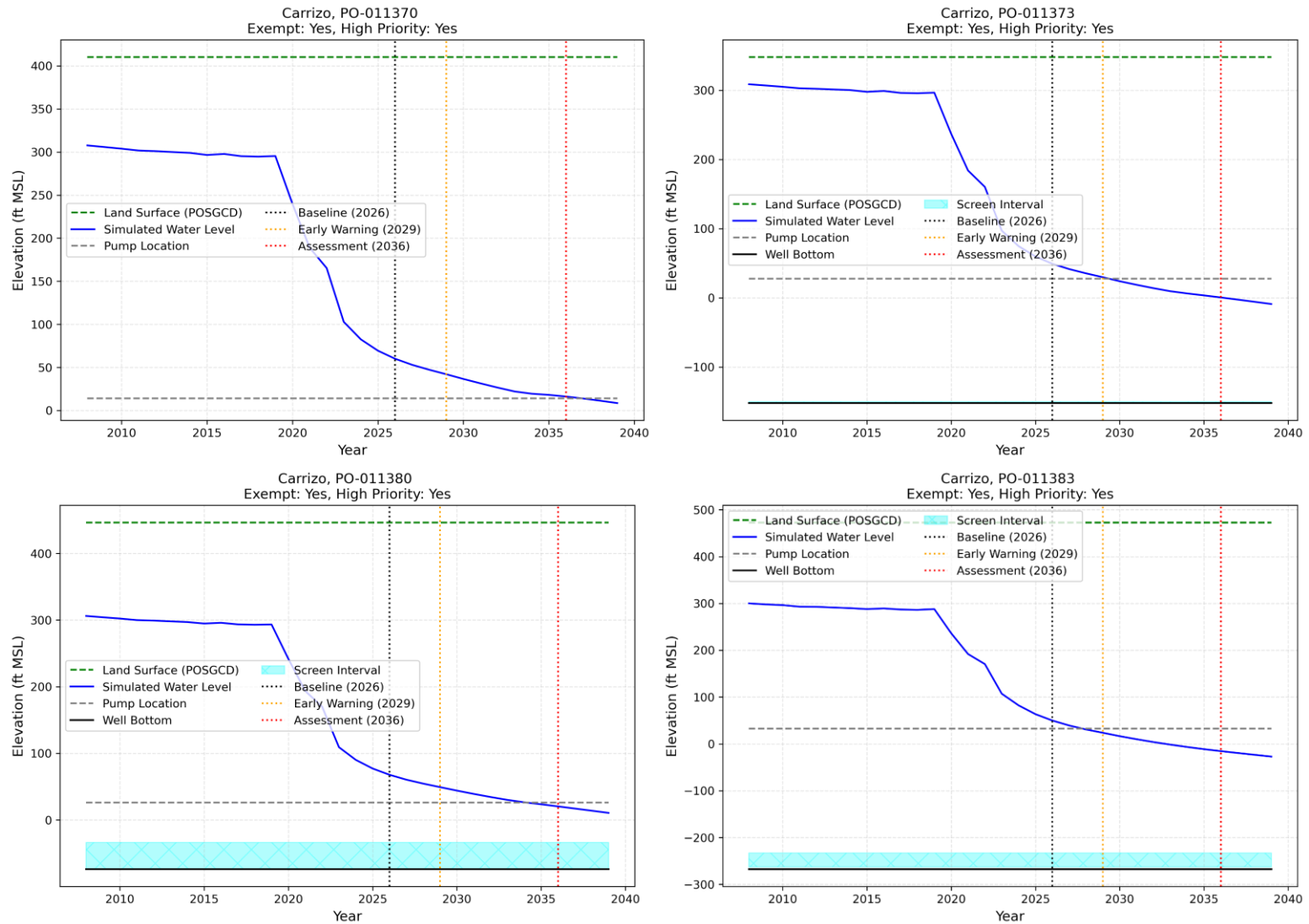


Figure D-14 Simulated water levels for high-priority wells PO-011370, PO-011373, PO-011380 and PO-011383 located in the Carrizo Aquifer

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

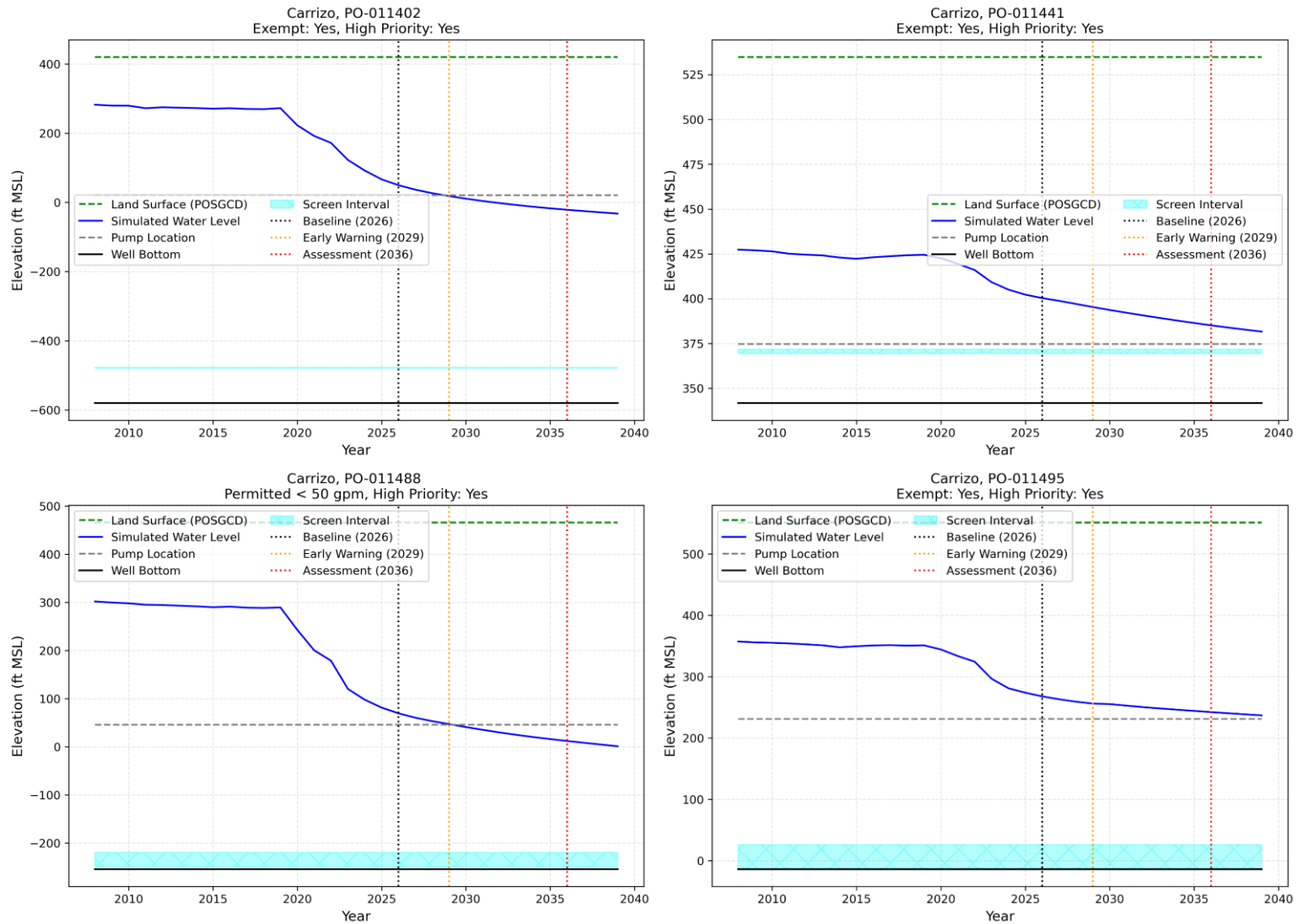


Figure D-15 Simulated water levels for high-priority wells PO-011402, PO-011441, PO-011488 and PO-011495 located in the Carrizo Aquifer

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

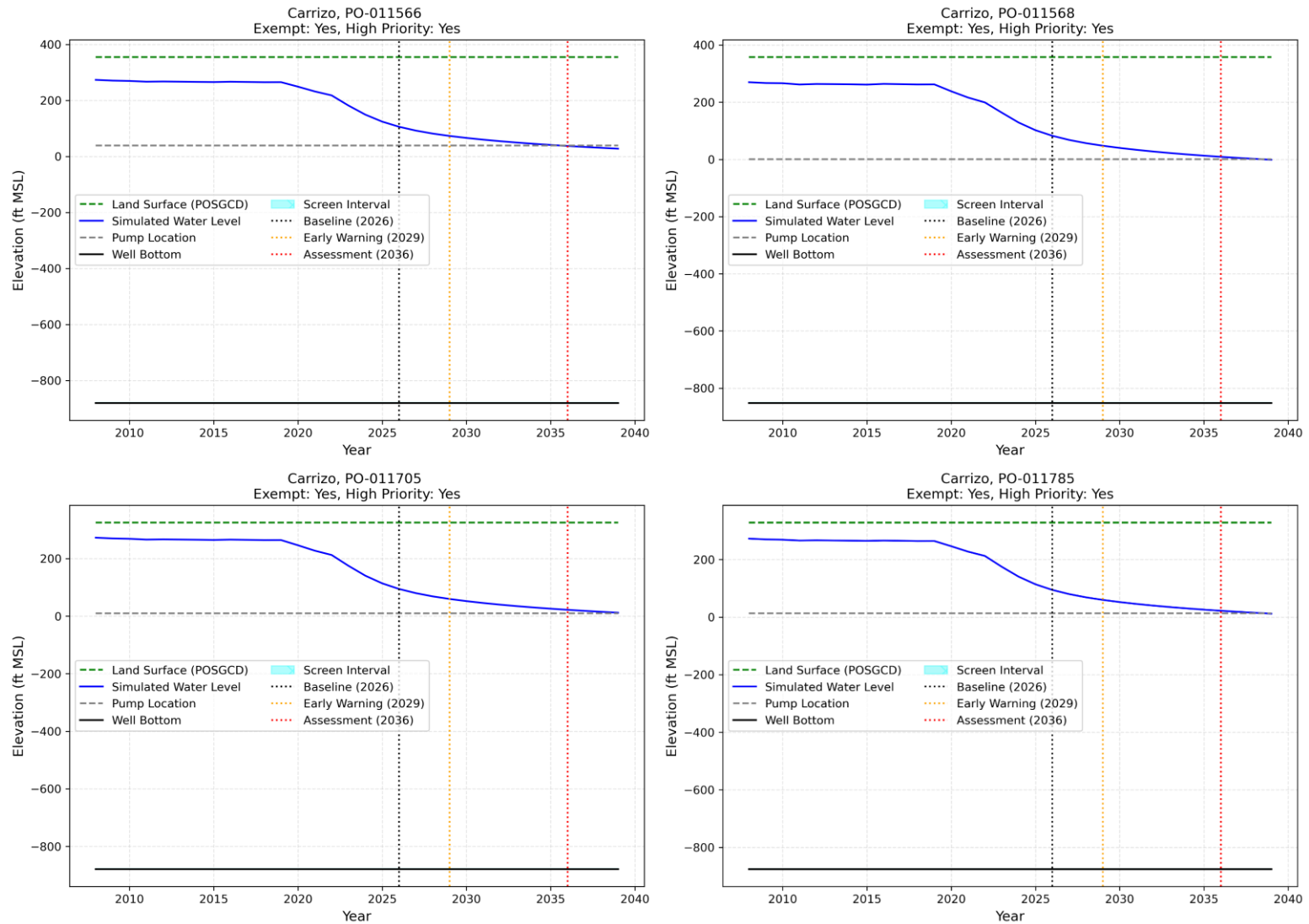


Figure D-16 Simulated water levels for high-priority wells PO-011566, PO-011568, PO-011705 and PO-011785 located in the Carrizo Aquifer

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

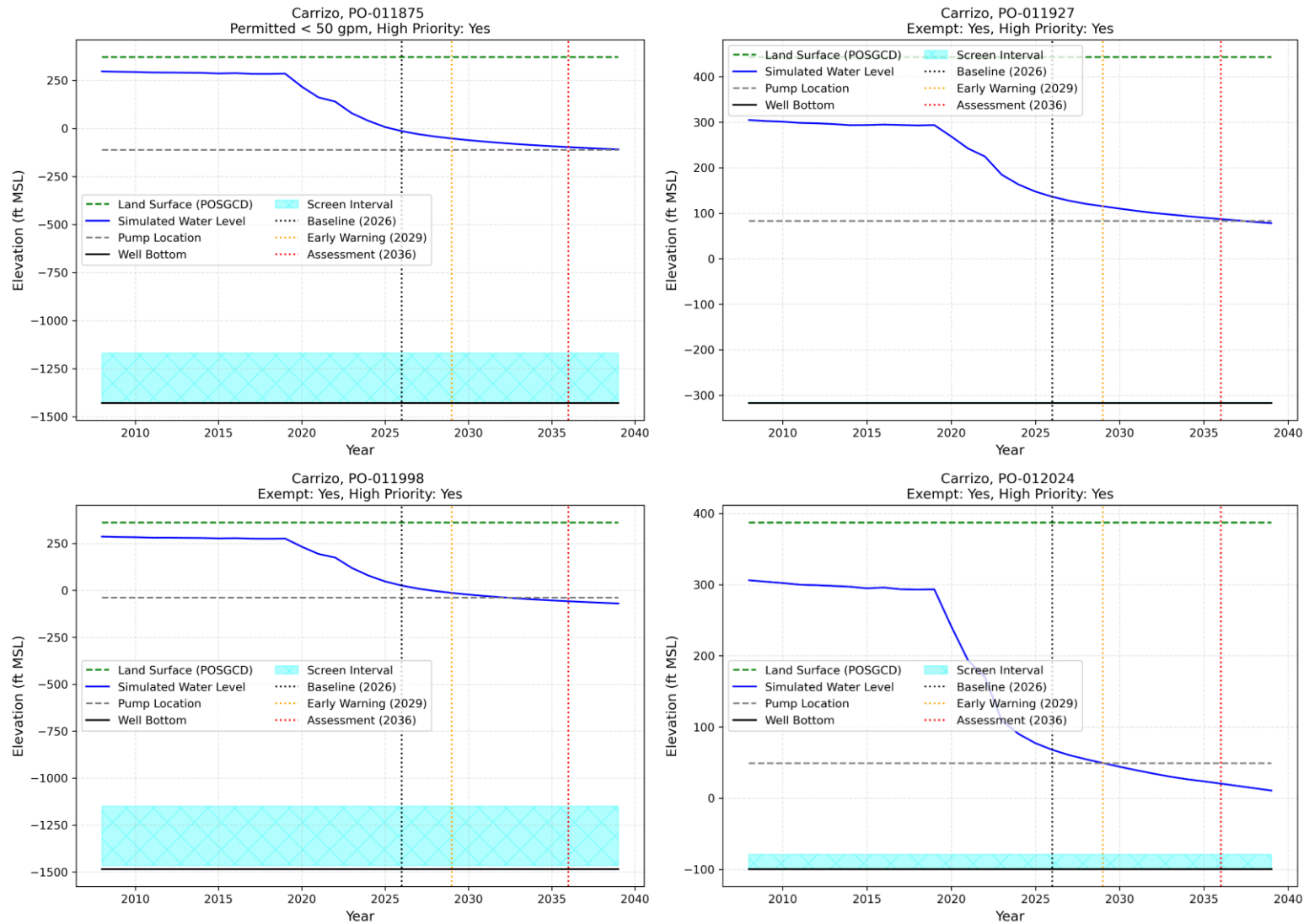


Figure D-17 Simulated water levels for high-priority wells PO-011875, PO-011927, PO-011998 and PO-012024 located in the Carrizo Aquifer

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

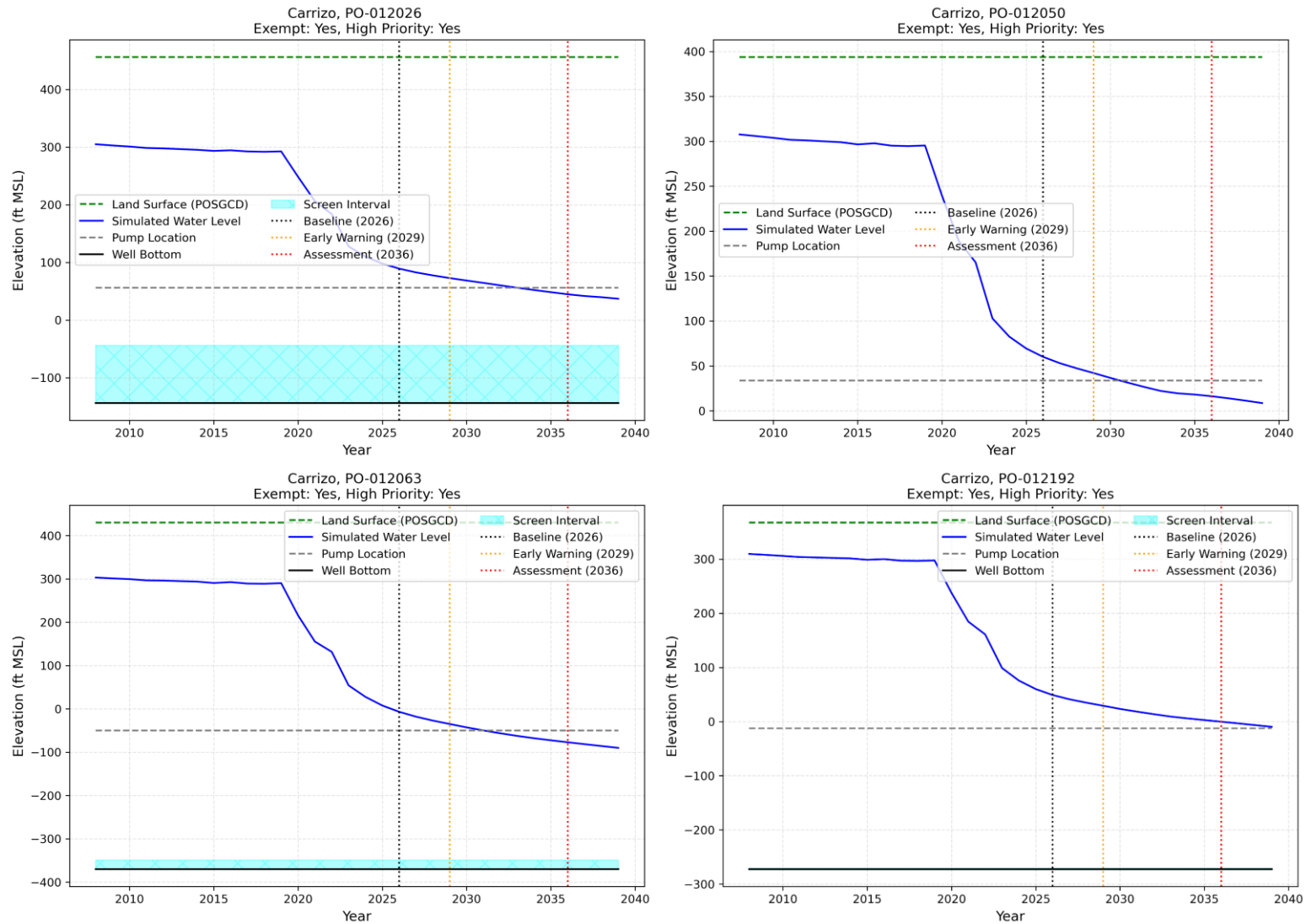


Figure D-18 Simulated water levels for high-priority wells PO-012026, PO-012050, PO-012063 and PO-012192 located in the Carrizo Aquifer

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

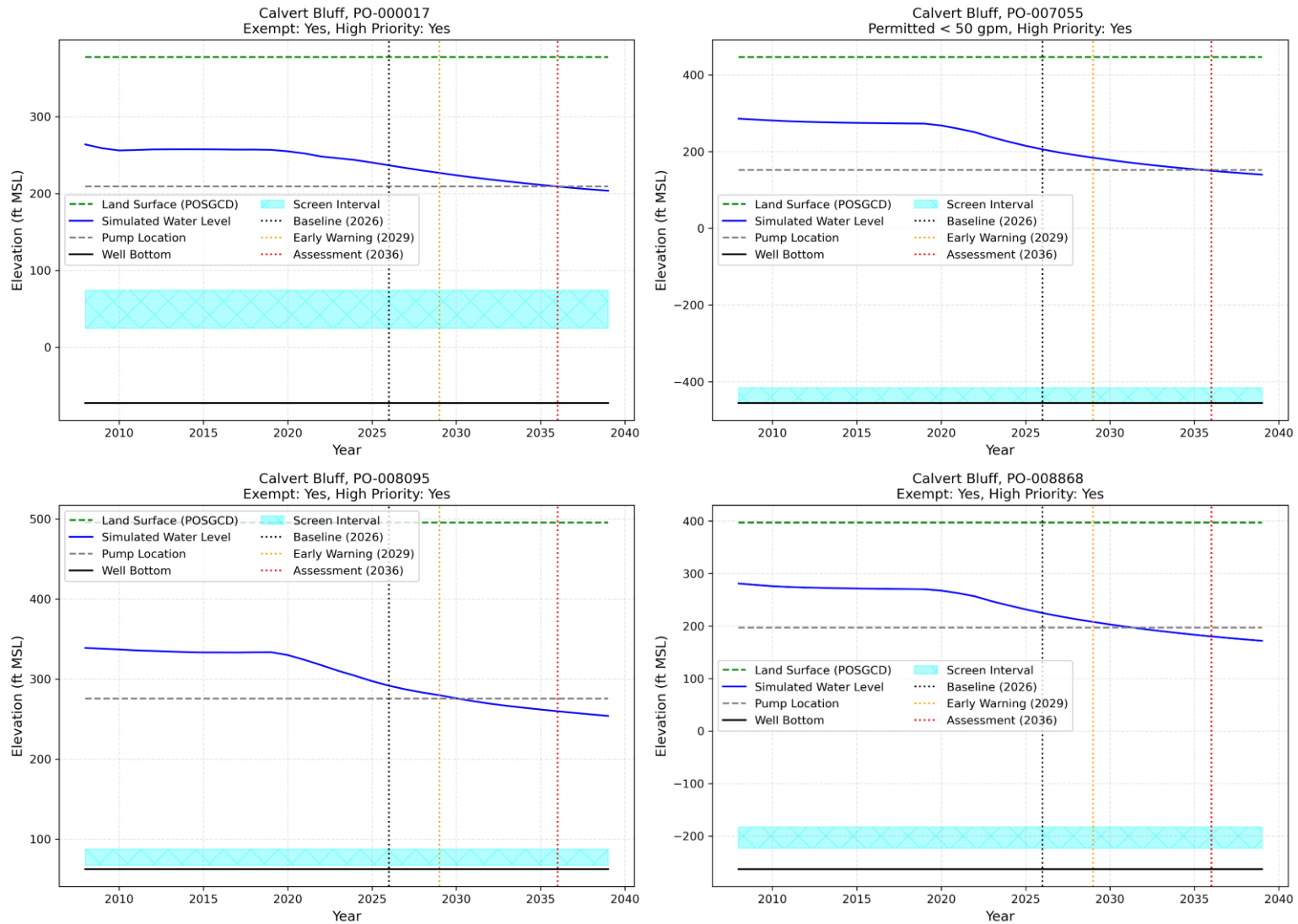


Figure D-19 Simulated water levels for high-priority wells PO-000017, PO-007055, PO-008095 and PO-008868 located in the Calvert Bluff Aquifer

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

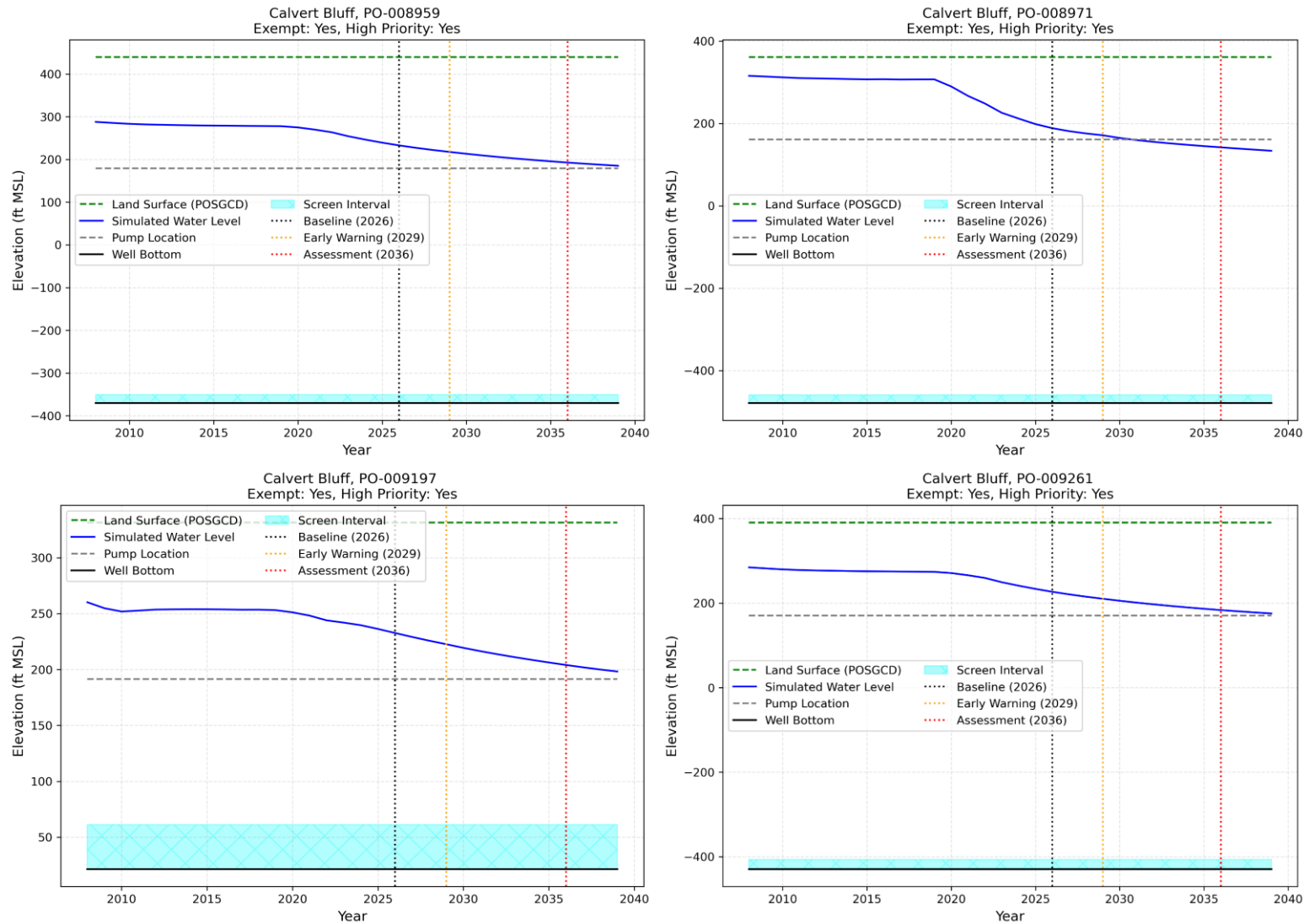


Figure D-20 Simulated water levels for high-priority wells PO-008959, PO-008971, PO-009197 and PO-009261 located in the Calvert Bluff Aquifer

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

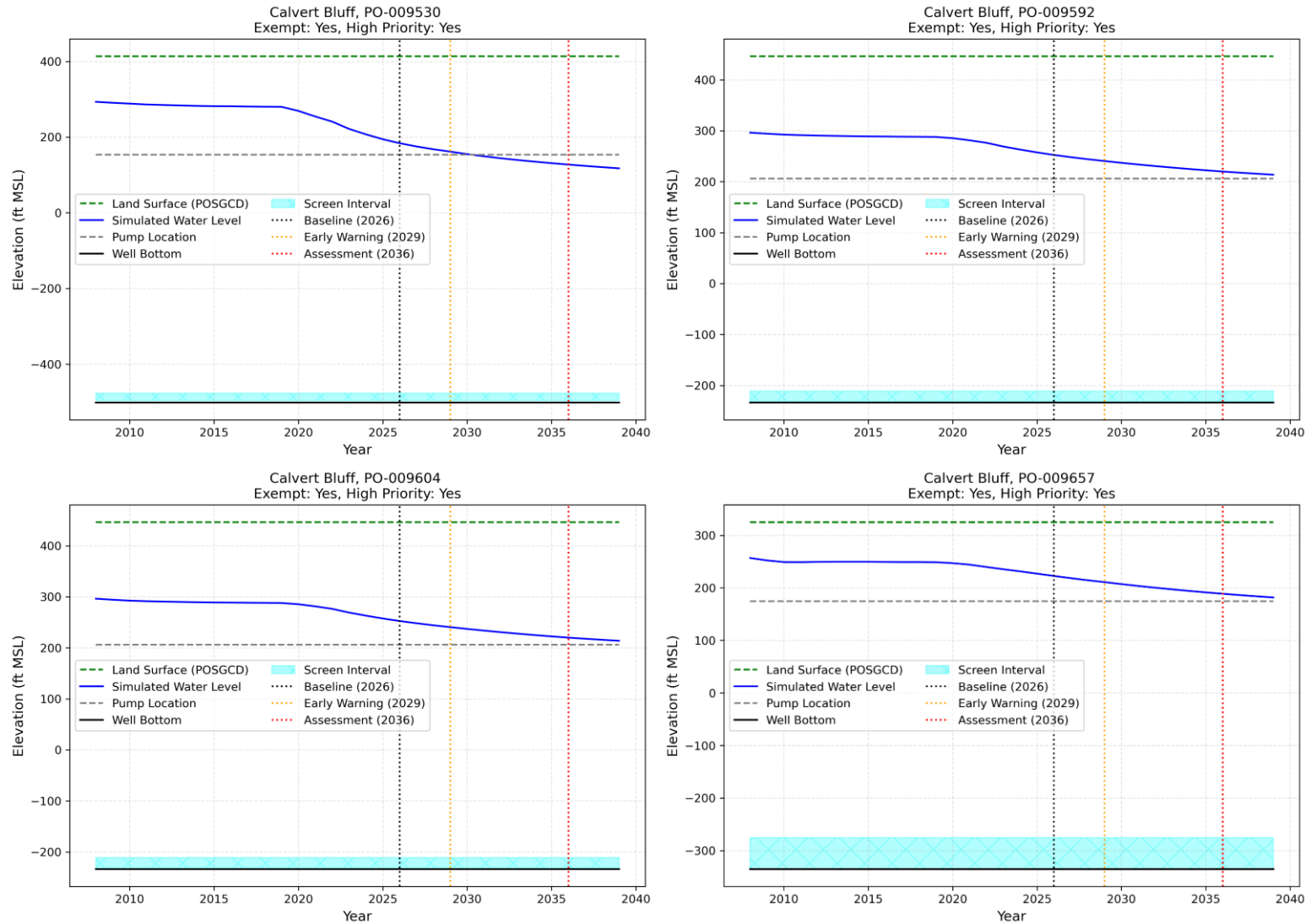


Figure D-21 Simulated water levels for high-priority wells PO-009530, PO-009592, PO-009604 and PO-009657 located in the Calvert Bluff Aquifer

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

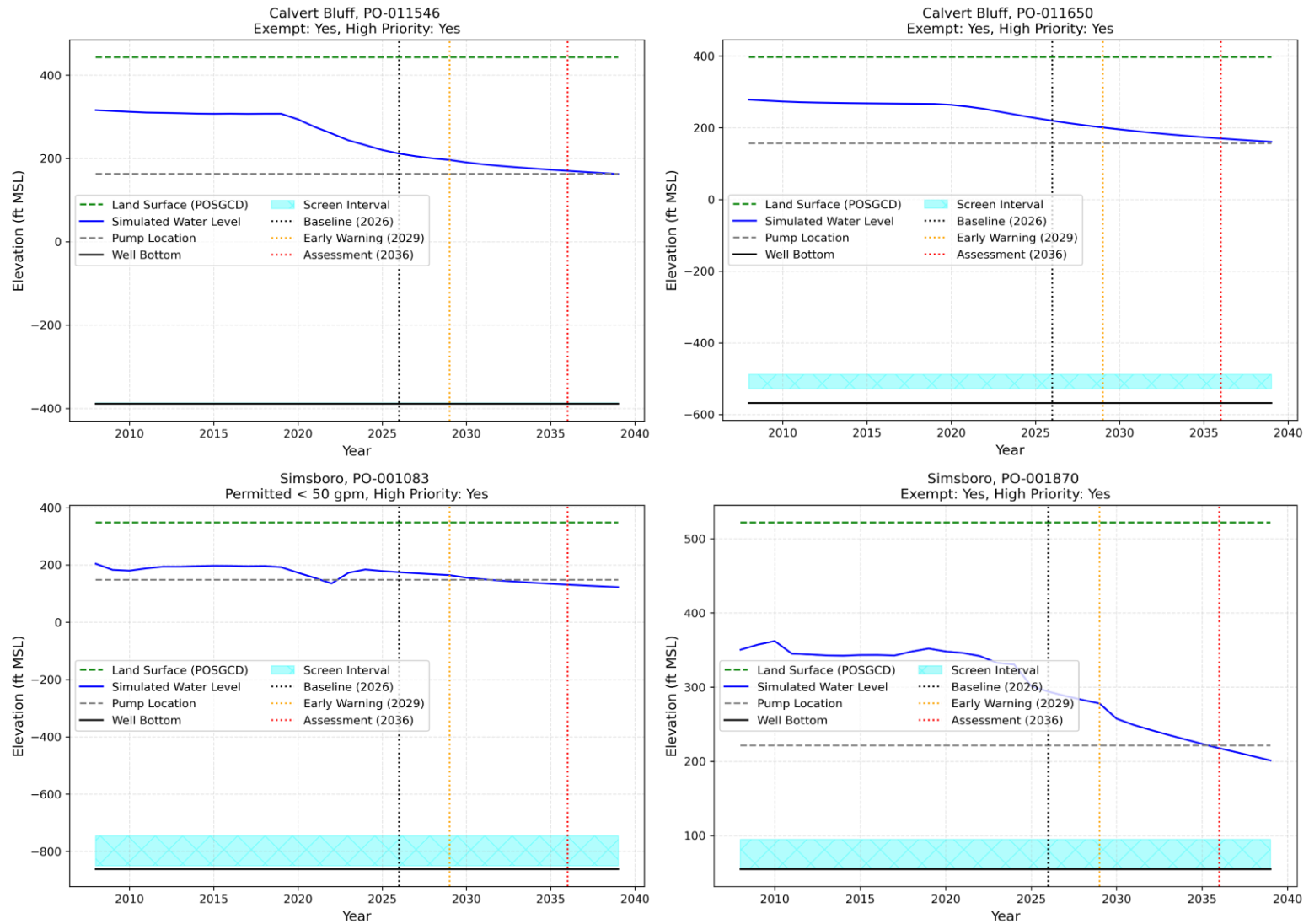


Figure D-22 Simulated water levels for high-priority wells PO-011546 and PO-011650 in the Calvert Bluff and PO-001083 and PO-001870 located in the Simsboro Aquifers

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

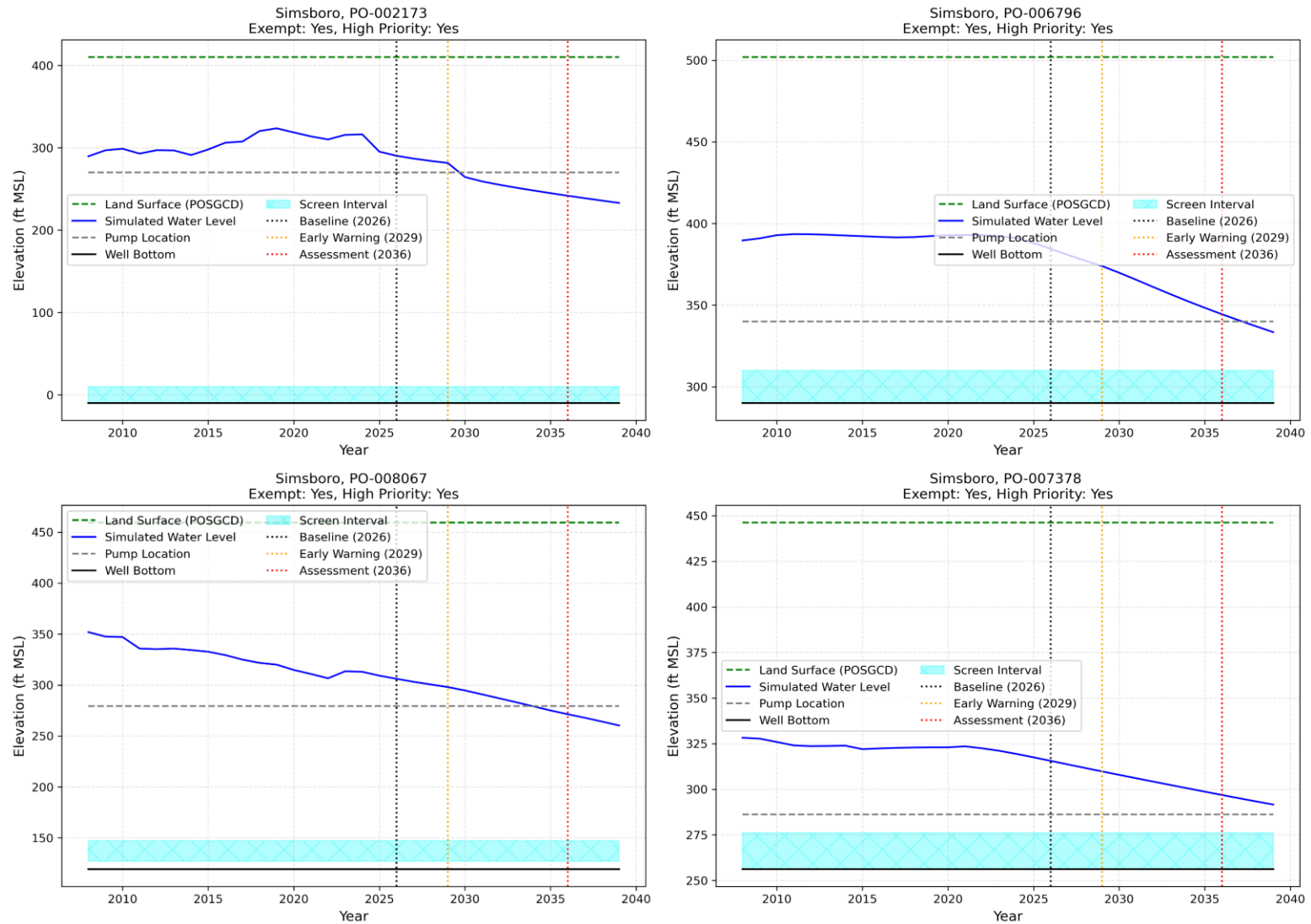


Figure D-23 Simulated water levels for high-priority wells PO-002173, PO-006796, PO-008067 and PO-007378 located in the Simsboro Aquifer

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

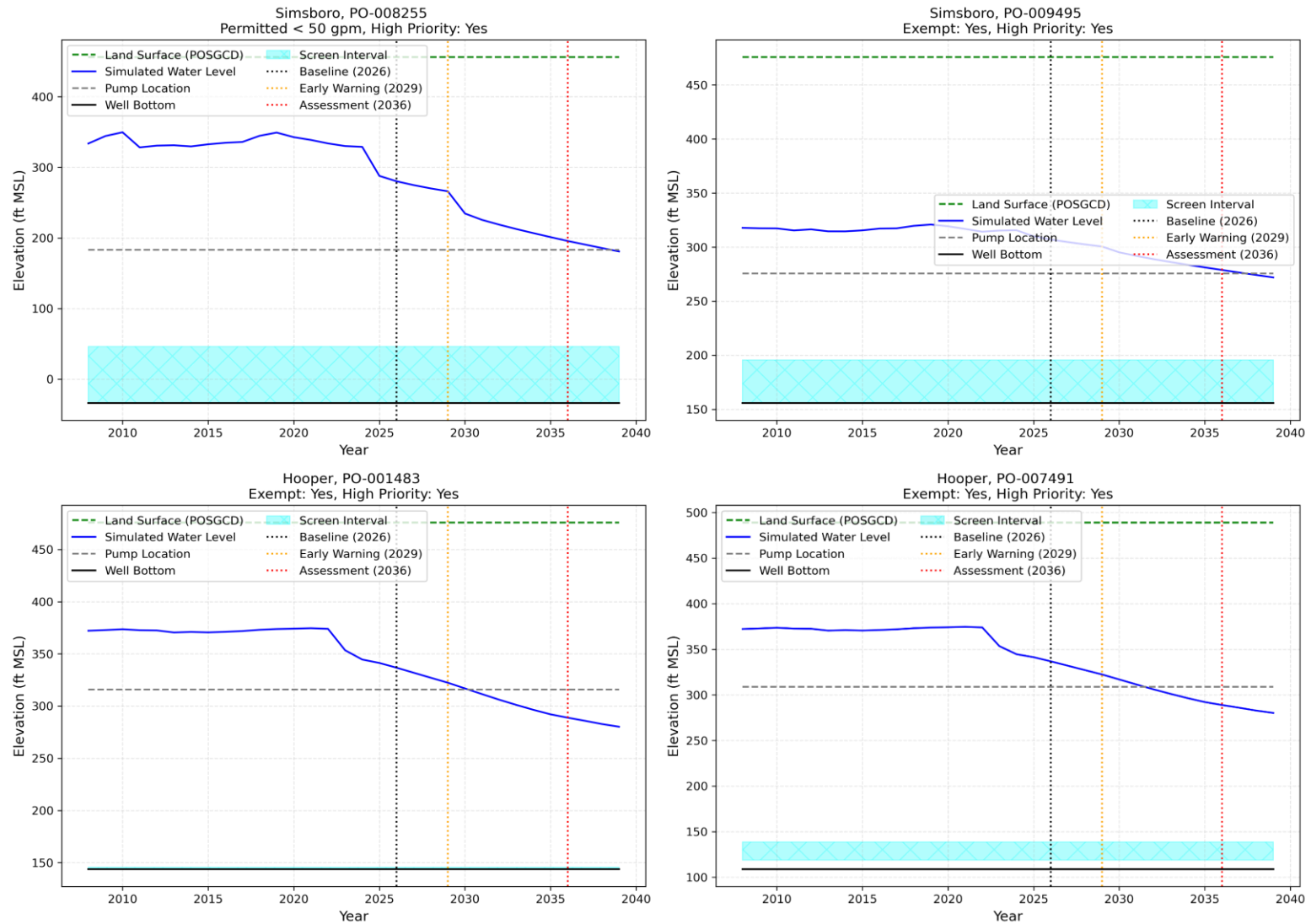


Figure D-24 Simulated water levels for high-priority wells PO-008255 and PO-009495 in the Simsboro and PO-001483 and PO-007491 located in the Hooper Aquifers

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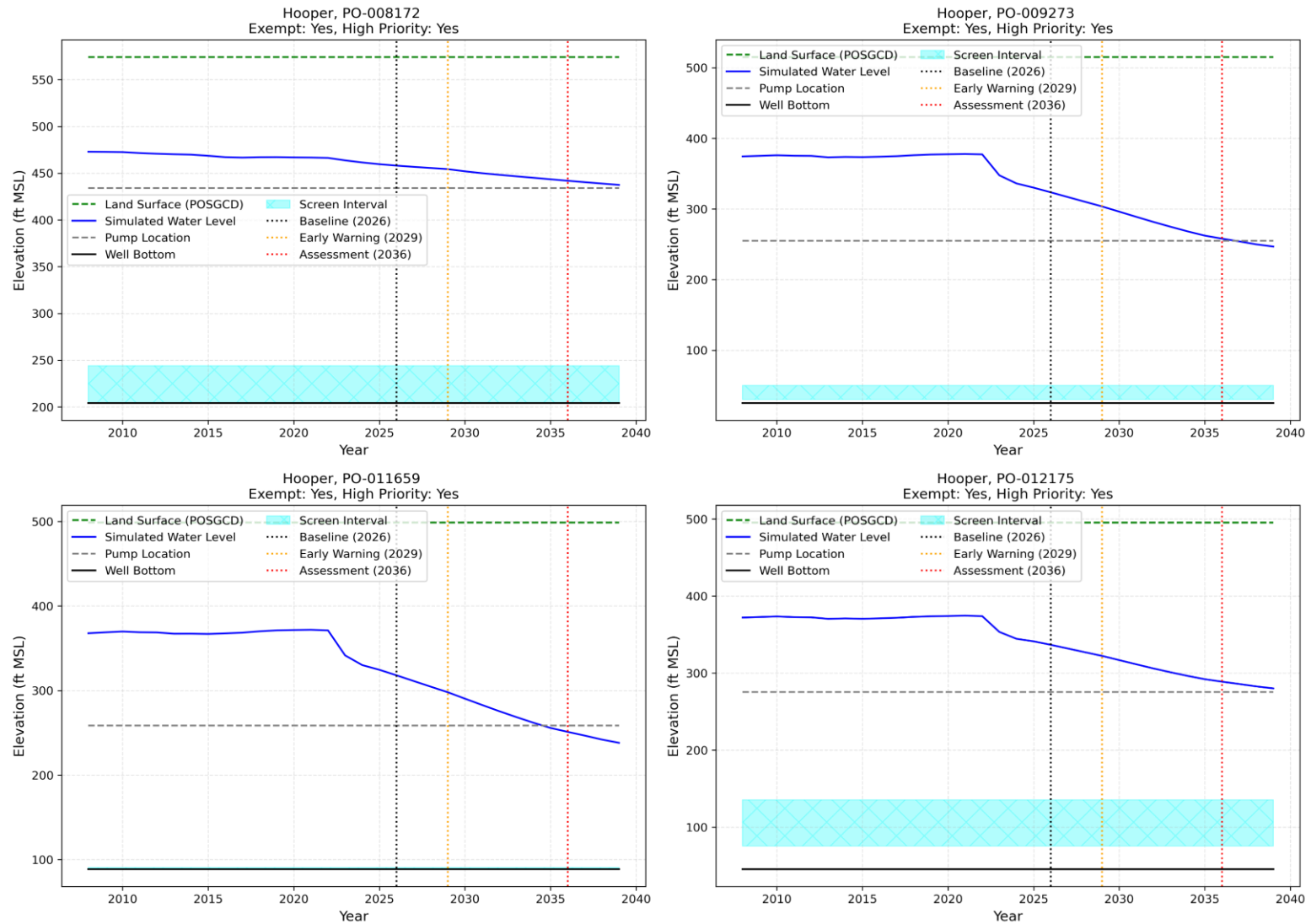


Figure D-25 Simulated water levels for high-priority wells PO-008172, PO-009273, PO-00011659 and PO-012175 located in the Hooper Aquifer

APPENDIX E

Listing of Wells with No Pump Depth Information that are Candidates for Moderate Priority Wells

Well ID	Aquifer
PO-000001	Calvert Bluff
PO-000005	Calvert Bluff
PO-000007	Calvert Bluff
PO-000009	Calvert Bluff
PO-000011	Calvert Bluff
PO-000012	Calvert Bluff
PO-000028	Calvert Bluff
PO-000040	Calvert Bluff
PO-000058	Calvert Bluff
PO-000059	Calvert Bluff
PO-000060	Calvert Bluff
PO-000067	Calvert Bluff
PO-000068	Calvert Bluff
PO-000070	Calvert Bluff
PO-000073	Calvert Bluff
PO-000078	Calvert Bluff
PO-000079	Calvert Bluff
PO-000090	Calvert Bluff
PO-000091	Calvert Bluff
PO-000092	Calvert Bluff
PO-000103	Calvert Bluff
PO-000119	Calvert Bluff
PO-000131	Calvert Bluff
PO-000132	Calvert Bluff
PO-000134	Calvert Bluff
PO-000135	Calvert Bluff
PO-000136	Calvert Bluff
PO-000302	Carrizo
PO-000315	Carrizo
PO-000321	Carrizo
PO-000325	Carrizo
PO-000393	Carrizo
PO-000426	Calvert Bluff
PO-000427	Calvert Bluff
PO-000488	Carrizo
PO-000493	Carrizo
PO-000496	Carrizo
PO-000497	Carrizo
PO-000504	Carrizo
PO-000506	Carrizo

Well ID	Aquifer
PO-000508	Carrizo
PO-000510	Carrizo
PO-000513	Carrizo
PO-000525	Carrizo
PO-000625	Carrizo
PO-000920	Carrizo
PO-000938	Carrizo
PO-001343	Calvert Bluff
PO-001345	Calvert Bluff
PO-001367	Calvert Bluff
PO-001378	Calvert Bluff
PO-001448	Calvert Bluff
PO-001452	Calvert Bluff
PO-001457	Calvert Bluff
PO-001475	Calvert Bluff
PO-001476	Calvert Bluff
PO-001482	Calvert Bluff
PO-001625	Calvert Bluff
PO-001626	Calvert Bluff
PO-001627	Calvert Bluff
PO-001629	Calvert Bluff
PO-001630	Calvert Bluff
PO-001633	Calvert Bluff
PO-001634	Calvert Bluff
PO-001635	Calvert Bluff
PO-001636	Calvert Bluff
PO-001637	Calvert Bluff
PO-001638	Calvert Bluff
PO-001734	Calvert Bluff
PO-001736	Calvert Bluff
PO-001737	Calvert Bluff
PO-001738	Calvert Bluff
PO-001741	Calvert Bluff
PO-001742	Calvert Bluff
PO-001743	Calvert Bluff
PO-001749	Calvert Bluff
PO-001750	Calvert Bluff
PO-001751	Calvert Bluff
PO-001752	Calvert Bluff
PO-001753	Calvert Bluff

Well ID	Aquifer
PO-001754	Calvert Bluff
PO-001755	Calvert Bluff
PO-001756	Calvert Bluff
PO-001759	Calvert Bluff
PO-001762	Calvert Bluff
PO-001764	Calvert Bluff
PO-001765	Calvert Bluff
PO-001766	Calvert Bluff
PO-001767	Calvert Bluff
PO-001769	Calvert Bluff
PO-001771	Calvert Bluff
PO-001772	Calvert Bluff
PO-001773	Calvert Bluff
PO-001774	Calvert Bluff
PO-001776	Calvert Bluff
PO-001778	Calvert Bluff
PO-001780	Calvert Bluff
PO-001781	Calvert Bluff
PO-001783	Calvert Bluff
PO-001784	Calvert Bluff
PO-001785	Calvert Bluff
PO-001787	Calvert Bluff
PO-001788	Calvert Bluff
PO-001790	Calvert Bluff
PO-001791	Calvert Bluff
PO-001793	Calvert Bluff
PO-001796	Calvert Bluff
PO-001847	Calvert Bluff
PO-001855	Calvert Bluff
PO-001864	Calvert Bluff
PO-001867	Calvert Bluff
PO-001917	Calvert Bluff
PO-001918	Calvert Bluff
PO-001919	Calvert Bluff
PO-001922	Calvert Bluff
PO-001923	Calvert Bluff
PO-001924	Calvert Bluff
PO-001925	Calvert Bluff
PO-001926	Calvert Bluff
PO-001927	Calvert Bluff

Well ID	Aquifer
PO-001929	Calvert Bluff
PO-001932	Calvert Bluff
PO-001933	Calvert Bluff
PO-001938	Calvert Bluff
PO-001939	Calvert Bluff
PO-001940	Calvert Bluff
PO-001960	Calvert Bluff
PO-002121	Calvert Bluff
PO-002124	Calvert Bluff
PO-002128	Calvert Bluff
PO-002131	Calvert Bluff
PO-002134	Calvert Bluff
PO-002136	Calvert Bluff
PO-002137	Calvert Bluff
PO-002140	Calvert Bluff
PO-002263	Calvert Bluff
PO-002267	Calvert Bluff
PO-002268	Calvert Bluff
PO-002294	Calvert Bluff
PO-002295	Calvert Bluff
PO-002334	Calvert Bluff
PO-002335	Calvert Bluff
PO-002344	Calvert Bluff
PO-002345	Calvert Bluff
PO-002347	Calvert Bluff
PO-002348	Calvert Bluff
PO-002349	Calvert Bluff
PO-002352	Calvert Bluff
PO-002353	Calvert Bluff
PO-002354	Calvert Bluff
PO-002357	Calvert Bluff
PO-002359	Calvert Bluff
PO-002360	Calvert Bluff
PO-002361	Calvert Bluff
PO-002362	Calvert Bluff
PO-002365	Calvert Bluff
PO-002366	Calvert Bluff
PO-002384	Calvert Bluff
PO-002385	Calvert Bluff
PO-002394	Calvert Bluff

Well ID	Aquifer
PO-002400	Calvert Bluff
PO-002403	Calvert Bluff
PO-002422	Calvert Bluff
PO-002426	Calvert Bluff
PO-002428	Calvert Bluff
PO-002429	Calvert Bluff
PO-002430	Calvert Bluff
PO-002431	Calvert Bluff
PO-002432	Calvert Bluff
PO-002433	Calvert Bluff
PO-002435	Calvert Bluff
PO-002437	Calvert Bluff
PO-002438	Calvert Bluff
PO-002439	Calvert Bluff
PO-002454	Calvert Bluff
PO-002605	Calvert Bluff
PO-002606	Calvert Bluff
PO-002608	Calvert Bluff
PO-002609	Calvert Bluff
PO-002610	Calvert Bluff
PO-002620	Calvert Bluff
PO-002621	Calvert Bluff
PO-002622	Calvert Bluff
PO-002626	Calvert Bluff
PO-002628	Calvert Bluff
PO-002632	Calvert Bluff
PO-002633	Calvert Bluff
PO-002635	Calvert Bluff
PO-002636	Calvert Bluff
PO-002637	Calvert Bluff
PO-002638	Calvert Bluff
PO-002640	Calvert Bluff
PO-002641	Calvert Bluff
PO-002643	Calvert Bluff
PO-002646	Calvert Bluff
PO-002647	Calvert Bluff
PO-002648	Calvert Bluff
PO-002649	Calvert Bluff
PO-002650	Calvert Bluff
PO-002651	Calvert Bluff

Well ID	Aquifer
PO-002652	Calvert Bluff
PO-002654	Calvert Bluff
PO-002655	Calvert Bluff
PO-002656	Calvert Bluff
PO-002657	Calvert Bluff
PO-002658	Calvert Bluff
PO-002660	Calvert Bluff
PO-002661	Calvert Bluff
PO-002663	Calvert Bluff
PO-002664	Calvert Bluff
PO-002665	Calvert Bluff
PO-002666	Calvert Bluff
PO-002667	Calvert Bluff
PO-002668	Calvert Bluff
PO-002669	Calvert Bluff
PO-002670	Calvert Bluff
PO-002671	Calvert Bluff
PO-002672	Calvert Bluff
PO-002788	Carrizo
PO-003430	Carrizo
PO-003437	Carrizo
PO-003447	Carrizo
PO-003475	Carrizo
PO-003983	Carrizo
PO-004954	Carrizo
PO-004955	Carrizo
PO-004963	Carrizo
PO-004971	Carrizo
PO-004975	Carrizo
PO-004998	Carrizo
PO-005008	Carrizo
PO-005080	Carrizo
PO-005098	Carrizo
PO-005102	Carrizo
PO-005109	Carrizo
PO-005113	Carrizo
PO-005214	Carrizo
PO-005224	Carrizo
PO-005244	Carrizo
PO-005246	Carrizo

Well ID	Aquifer
PO-005249	Carrizo
PO-005343	Carrizo
PO-005348	Carrizo
PO-005371	Carrizo
PO-005384	Calvert Bluff
PO-005485	Carrizo
PO-005490	Carrizo
PO-005716	Carrizo
PO-005717	Carrizo
PO-005718	Carrizo
PO-005728	Carrizo
PO-005730	Carrizo
PO-005781	Carrizo
PO-005813	Carrizo
PO-005814	Carrizo
PO-006086	Calvert Bluff
PO-006087	Calvert Bluff
PO-006147	Calvert Bluff
PO-006219	Calvert Bluff
PO-006220	Calvert Bluff
PO-006223	Calvert Bluff
PO-006332	Calvert Bluff
PO-006403	Calvert Bluff
PO-006404	Calvert Bluff
PO-006437	Calvert Bluff
PO-006438	Calvert Bluff
PO-006495	Calvert Bluff
PO-006584	Calvert Bluff
PO-006585	Calvert Bluff
PO-006690	Calvert Bluff
PO-006817	Carrizo
PO-006834	Calvert Bluff
PO-006845	Calvert Bluff
PO-007048	Calvert Bluff
PO-007108	Calvert Bluff
PO-007160	Calvert Bluff
PO-007210	Calvert Bluff
PO-007229	Calvert Bluff
PO-007230	Calvert Bluff
PO-007246	Carrizo

Well ID	Aquifer
PO-007286	Carrizo
PO-007313	Calvert Bluff
PO-007396	Calvert Bluff
PO-007438	Carrizo
PO-007448	Calvert Bluff
PO-007497	Calvert Bluff
PO-007498	Calvert Bluff
PO-007499	Calvert Bluff
PO-007545	Carrizo
PO-007652	Calvert Bluff
PO-007658	Calvert Bluff
PO-007659	Calvert Bluff
PO-008012	Calvert Bluff
PO-008047	Calvert Bluff
PO-008173	Calvert Bluff
PO-008205	Calvert Bluff
PO-008377	Calvert Bluff
PO-008407	Calvert Bluff
PO-008481	Calvert Bluff
PO-008697	Calvert Bluff
PO-008842	Calvert Bluff
PO-008988	Carrizo
PO-009003	Calvert Bluff
PO-009291	Carrizo
PO-009386	Carrizo
PO-009429	Calvert Bluff
PO-009430	Calvert Bluff
PO-009467	Calvert Bluff
PO-009746	Calvert Bluff
PO-010975	Calvert Bluff
PO-011036	Calvert Bluff
PO-011105	Calvert Bluff
PO-011148	Calvert Bluff
PO-011187	Calvert Bluff
PO-011342	Carrizo
PO-011377	Calvert Bluff
PO-011387	Carrizo
PO-011388	Carrizo
PO-011395	Calvert Bluff
PO-011415	Calvert Bluff

Well ID	Aquifer
PO-011416	Calvert Bluff
PO-011448	Calvert Bluff
PO-011496	Calvert Bluff
PO-011513	Calvert Bluff
PO-011519	Carrizo
PO-011527	Calvert Bluff
PO-011585	Calvert Bluff
PO-011607	Carrizo
PO-011708	Carrizo
PO-011712	Carrizo
PO-011771	Carrizo
PO-011823	Carrizo
PO-011853	Calvert Bluff
PO-011857	Carrizo
PO-011858	Carrizo
PO-011882	Calvert Bluff
PO-011883	Carrizo
PO-011885	Carrizo
PO-011886	Calvert Bluff
PO-011922	Carrizo
PO-011955	Calvert Bluff
PO-011959	Calvert Bluff
PO-011994	Calvert Bluff
PO-012000	Calvert Bluff
PO-012003	Calvert Bluff
PO-012055	Calvert Bluff
PO-012077	Carrizo
PO-012231	Calvert Bluff
PO-012277	Calvert Bluff
PO-012278	Calvert Bluff
PO-012323	Carrizo
PO-012339	Carrizo
PO-012344	Calvert Bluff
PO-012354	Calvert Bluff
PO-012368	Calvert Bluff
PO-012378	Calvert Bluff
PO-012381	Calvert Bluff
PO-012407	Carrizo
PO-012431	Calvert Bluff
PO-012436	Carrizo

Well ID	Aquifer
PO-012542	Carrizo
PO-012543	Carrizo
PO-012644	Carrizo

APPENDIX F

Tabulation of Wells Assisted Serviced Under the Groundwater Well Assistance Program (GWAP)

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

District ID	Aquifer	Latitude	Longitude	Well Elevation (ft. amsl)	Well Depth (ft. bgs)	Top of Screen (ft. bgs)	Bottom of Screen (ft. bgs)	K-Packer Depth (ft. bgs)	Old Pump Depth (ft. bgs)	New Pump Depth (ft. bgs)	Assistance Type
PO-011621	Simsboro	30.45348	-96.8368	351	2120	2070	2120		320	600	Pump Lowered
PO-011622	Carrizo	30.4477	-96.8443	318	980	920	980		210	504	Pump Lowered
PO-008767	Simsboro	30.48356	-96.8604	407	2230	1800	2100		462	565	Pump Lowered
PO-006910	Simsboro	30.56483	-96.8347	492	2200	1750	1764		400	609	Pump Lowered
PO-011811	Carrizo	30.56075	-96.8351	509	750	748	749	549	420	600	Pump Lowered
PO-005360	Carrizo	30.62726	-96.6888	272	677	675	676	387	200	360	Pump Lowered
PO-011382	Queen City	30.439	-96.8678	325	121	119	120		400	400	Pump Lowered
PO-012008	Carrizo	30.54582	-96.8322	538	845	620	715		520	609	Pump Lowered
PO-008956	Carrizo	30.49305	-96.7748	410	940	899	940	710	320	480	Pump Lowered
PO-000475	Carrizo	30.50683	-96.829	443	887	831	887	782	320	500	Pump Lowered
PO-006405	Carrizo	30.50437	-96.8445	456	780	690	770	690	360	500	Pump Lowered
PO-005759	Carrizo	30.49744	-96.8436	407	640	540	640	540	280	440	Pump Lowered
PO-009125	Calvert Bluff	30.50353	-96.829	407	920	880	900	817	240	440	Pump Lowered
PO-003444	Carrizo	30.48346	-96.893	348	492	411	463	403	160	380	Pump Lowered
PO-008073	Carrizo	30.54542	-96.729	390	1001	802	895	791	220	420	Pump Lowered

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

District ID	Aquifer	Latitude	Longitude	Well Elevation (ft. amsl)	Well Depth (ft. bgs)	Top of Screen (ft. bgs)	Bottom of Screen (ft. bgs)	K-Packer Depth (ft. bgs)	Old Pump Depth (ft. bgs)	New Pump Depth (ft. bgs)	Assistance Type
PO-005475	Carrizo	30.56363	-96.7432	377	813	733	793	628	180	400	Pump Lowered
PO-001331	Carrizo	30.50268	-96.8836	364	500	450	500	409	168	380	Pump Lowered
PO-008668	Carrizo	30.55983	-96.7922	486	722	680	722	617	315	500	Pump Lowered
PO-012192	Carrizo	30.47755	-96.8909	367	640	638	639		380	380	Pump Lowered
PO-001120	Carrizo	30.59692	-96.6098	351	1252	1104	1252	500	124	360	Pump Lowered
PO-009067	Carrizo	30.55872	-96.8017	472	970	840	960	830	220	480	Pump Lowered
PO-009090	Carrizo	30.56755	-96.7449	394	800	710	721	710	200	400	Pump Lowered
PO-005002	Queen City	30.59739	-96.6276	374	554	552	553		99999	380	Pump Lowered
PO-009135	Carrizo	30.48639	-96.89	354	480	430	450	389	260	360	Pump Lowered
PO-004965	Carrizo	30.56727	-96.7115	354	1048	1013	1048	964	140	360	Pump Lowered
PO-006658	Carrizo	30.50865	-96.8326	417	1200	710	870		260	420	Pump Lowered
PO-005725	Carrizo	30.55033	-96.8875	417	522	442	502	435	200	420	Pump Lowered
PO-005821	Calvert Bluff	30.50863	-96.8318	427	890	855	885	750	280	420	Pump Lowered
PO-008246	Carrizo	30.60357	-96.7428	427	780	755	775	671	200	420	Pump Lowered
PO-009260	Carrizo	30.55202	-96.6853	407	1090	1000	1038	890	240	400	Pump Lowered

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

District ID	Aquifer	Latitude	Longitude	Well Elevation (ft. amsl)	Well Depth (ft. bgs)	Top of Screen (ft. bgs)	Bottom of Screen (ft. bgs)	K-Packer Depth (ft. bgs)	Old Pump Depth (ft. bgs)	New Pump Depth (ft. bgs)	Assistance Type
PO-011361	Carrizo	30.56208	-96.7495	407		407	407	728	260	400	Pump Lowered
PO-007222	Carrizo	30.57752	-96.72	367	850	840	850		200	360	Pump Lowered
PO-011797	Queen City	30.54578	-96.8322	538	700	560	566		280	525	Pump Lowered
PO-011370	Carrizo	30.4863	-96.8785	410		410	410	398	340	396	Pump Lowered
PO-009683	Carrizo	30.60167	-96.7371	436	760	735	755	693	240	420	Pump Lowered
PO-009787	Carrizo	30.50152	-96.8448	436	675	655	675	655	280	420	Pump Lowered
PO-008885	Carrizo	30.55358	-96.7388	417	840	820	840	810	240	400	Pump Lowered
PO-007206	Carrizo	30.54628	-96.8317	538	680	610	670	610	340	520	Pump Lowered
PO-009388	Queen City	30.54713	-96.8311	538	680	600	670	600	360	520	Pump Lowered
PO-009434	Carrizo	30.50264	-96.842	459	635	615	635	494	240	440	Pump Lowered
PO-000943	Carrizo	30.4885	-96.8437	440	840	800	840	719	300	420	Pump Lowered
PO-005178	Carrizo	30.57812	-96.676	420	1014	979	1014	804	210	400	Pump Lowered
PO-007332	Carrizo	30.54316	-96.7164	381	1020	809	885	799	220	360	Pump Lowered
PO-008147	Carrizo	30.47946	-96.8953	341	460	435	455	393	200	320	Pump Lowered
PO-009572	Carrizo	30.52576	-96.8231	463	780	757	777	673	280	440	Pump Lowered

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

District ID	Aquifer	Latitude	Longitude	Well Elevation (ft. amsl)	Well Depth (ft. bgs)	Top of Screen (ft. bgs)	Bottom of Screen (ft. bgs)	K-Packer Depth (ft. bgs)	Old Pump Depth (ft. bgs)	New Pump Depth (ft. bgs)	Assistance Type
PO-009570	Carrizo	30.50139	-96.8503	443	620	575	615	470	260	420	Pump Lowered
PO-012109	Calvert Bluff	30.72307	-96.7758	423	988	937	967	580	280	400	Pump Lowered
PO-005218	Carrizo	30.5535	-96.6836	404	1082	1080	1081	998	210	380	Pump Lowered
PO-001327	Carrizo	30.48459	-96.8878	384	500	460	500	440	260	360	Pump Lowered
PO-011380	Carrizo	30.50067	-96.8675	446	520	480	520		315	420	Pump Lowered
PO-008884	Carrizo	30.5606	-96.7458	387	790	770	790	760	200	360	Pump Lowered
PO-012095	Carrizo	30.5894	-96.7554	387	730	728	729	500	180	360	Pump Lowered
PO-011373	Carrizo	30.48855	-96.8876	348	500	498	499		140	320	Pump Lowered
PO-008794	Carrizo	30.52723	-96.8188	469	760	735	755	693	280	440	Pump Lowered
PO-006415	Carrizo	30.54849	-96.7152	390	1020	900	917	800	200	360	Pump Lowered
PO-008053	Carrizo	30.49016	-96.8847	371	460	420	460	379	160	340	Pump Lowered
PO-011024	Carrizo	30.50271	-96.8839	351	520	460	520		320	320	Pump Lowered
PO-004459	Carrizo	30.50658	-96.8771	394	400	398	399		300	362	Pump Lowered
PO-011383	Carrizo	30.52692	-96.8239	472	740	705	735	663	240	440	Pump Lowered
PO-012050	Carrizo	30.49003	-96.8811	394		394	394		99999	360	Pump Lowered

Post Oak Savannah GCD Groundwater Well Assistance Program Annual Needs Assessment 2026

District ID	Aquifer	Latitude	Longitude	Well Elevation (ft. amsl)	Well Depth (ft. bgs)	Top of Screen (ft. bgs)	Bottom of Screen (ft. bgs)	K-Packer Depth (ft. bgs)	Old Pump Depth (ft. bgs)	New Pump Depth (ft. bgs)	Assistance Type
PO-009242	Carrizo	30.49367	-96.8894	354	500	480	500	379	160	320	Pump Lowered
PO-009332	Carrizo	30.5155	-96.8303	495	850	810	840	726	280	460	Pump Lowered
PO-007765	Carrizo	30.50529	-96.8887	358	380	340	380		100	320	Pump Lowered
PO-008965	Carrizo	30.52738	-96.8582	479	600	500	590	500	260	440	Pump Lowered
PO-005767	Carrizo	30.50107	-96.8716	404	500	380	391	367	255	363	Pump Lowered
PO-009431	Carrizo	30.56948	-96.7376	381	820	790	810	748	200	340	Pump Lowered
PO-002108	Calvert Bluff	30.66625	-96.9074	482	860	858	859		189	440	Pump Lowered
PO-006816	Carrizo	30.5416	-96.864	463	583	581	582	497	231	420	Pump Lowered
PO-008338	Carrizo	30.4853	-96.8849	443	510	450	490		340	400	Pump Lowered
PO-006049	Carrizo	30.54394	-96.8742	404	533	493	533		200	360	Pump Lowered
PO-010967	Carrizo	30.4868	-96.8844	384	560	440	560		180	340	Pump Lowered
PO-008054	Carrizo	30.48924	-96.8834	354	520	480	520	379	180	310	Pump Lowered
PO-001342	Carrizo	30.542	-96.8172	545	890	888	889	785	320	500	Pump Lowered
PO-009786	Carrizo	30.55784	-96.7254	407	1002	842	982	762	220	360	Pump Lowered
PO-010979	Carrizo	30.50637	-96.8788	387	446	444	445	361	240	340	Pump Lowered

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PO-010952	Carrizo	30.50103	-96.8754	387	500	420	490	420	200	340	Pump Lowered
PO-006551	Carrizo	30.5636	-96.7306	367	950	890	950		150	320	Pump Lowered
PO-004976	Carrizo	30.5647	-96.73	367	1057	1055	1056	975	120	320	Pump Lowered
PO-006350	Carrizo	30.56661	-96.7355	367	820	750	810		180	320	Pump Lowered
PO-005816	Carrizo	30.54565	-96.8872	430	338	304	311	304	210	382	Pump Lowered
PO-008219	Carrizo	30.55793	-96.8191	489	960	860	950	810	260	440	Pump Lowered
PO-008223	Carrizo	30.55479	-96.7126	371	1000	870	897	790	200	320	Pump Lowered
PO-008922	Carrizo	30.55991	-96.7839	492	1000	830	990	830	300	440	Pump Lowered
PO-009032	Carrizo	30.54964	-96.7905	492	900	898	899		262	440	Pump Lowered
PO-001328	Carrizo	30.50556	-96.8814	374	467	465	466	346	260	320	Pump Lowered
PO-011170	Carrizo	30.55891	-96.816	495	720	600	710	590	280	440	Pump Lowered
PO-005231	Carrizo	30.54277	-96.7937	495	915	873	894	684	260	440	Pump Lowered
PO-008826	Carrizo	30.56102	-96.8108	495	860	840	860	559	300	440	Pump Lowered
PO-012026	Carrizo	30.52157	-96.8683	456	600	500	600		360	400	Pump Lowered
PO-001777	Calvert Bluff	30.79853	-96.7993	387	416	414	415		99999	330	Pump Lowered

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PO-008326	Carrizo	30.56283	-96.7659	459	980	850	970	850	220	400	Pump Lowered
PO-009061	Carrizo	30.56028	-96.8856	459	520	480	520	419	240	400	Pump Lowered
PO-006815	Carrizo	30.53556	-96.8572	440	563	542	563	479	240	380	Pump Lowered
PO-007614	Calvert Bluff	30.79944	-96.7519	420	460	435	455		240	360	Pump Lowered
PO-008923	Carrizo	30.52428	-96.816	486	780	754	774	670	260	420	Pump Lowered
PO-009765	Carrizo	30.5616	-96.8445	509	604	564	604		300	440	Pump Lowered
PO-009752	Calvert Bluff	30.79608	-96.7531	449	435	405	425		300	380	Pump Lowered
PO-007057	Queen City	30.62951	-96.7135	410		410	410	384	200	340	Pump Lowered
PO-008805	Carrizo	30.55986	-96.8091	492	863	843	863	662	300	420	Pump Lowered
PO-007661	Calvert Bluff	30.57142	-96.9188	453	900	849	879		300	380	Pump Lowered
PO-001390	Calvert Bluff	30.57158	-96.8293	515	1120	980	1110		340	440	Pump Lowered
PO-011937	Carrizo	30.52157	-96.8683	456	438	410	429.2258	358	260	380	Pump Lowered
PO-007773	Calvert Bluff	30.78752	-96.765	436	430	405	424	384	260	360	Pump Lowered
PO-011435	Carrizo	30.52695	-96.8813	397	420	418	419		200	320	Pump Lowered
PO-003440	Carrizo	30.50461	-96.8981	338	312	272	312		80	260	Pump Lowered

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PO-008271	Carrizo	30.53277	-96.8601	459	535	425	525	425	220	380	Pump Lowered
PO-000085	Calvert Bluff	30.66667	-96.8597	486	851	849	850		99999	400	Pump Lowered
PO-005480	Carrizo	30.61574	-96.7543	446	670	668	669		99999	360	Pump Lowered
PO-012116	Calvert Bluff	30.78133	-96.7674	387	480	440	480		200	300	Pump Lowered
PO-005817	Carrizo	30.50421	-96.8757	449	486	416	437	371	240	360	Pump Lowered
PO-009609	Carrizo	30.51972	-96.8981	390	420	360	380	339	160	300	Pump Lowered
PO-008964	Carrizo	30.50075	-96.8739	390	500	390	490	390	220	300	Pump Lowered
PO-011385	Queen City	30.47749	-96.8908	367		367	367		180	275	Pump Lowered
PO-011893	Queen City	30.55519	-96.6813	400	800	620	800		305	305	Pump Lowered
PO-005489	Queen City	30.54721	-96.8624	456	280	278	279		99999	360	Pump Lowered
PO-006330	Calvert Bluff	30.79857	-96.7546	443	410	384	404		260	340	Pump Lowered
PO-012022	Simsboro	30.74649	-96.851	502	788	786	787	640	399	399	Pump Lowered
PO-012151	Carrizo	30.63528	-96.8789	505	550	440	512		400	400	Pump Lowered
PO-007393	Carrizo	30.57392	-96.877	469	440	420	440	400	220	360	Pump Lowered
PO-008111	Carrizo	30.60472	-96.7428	430	800	760	780	676	220	320	Pump Lowered

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PO-006660	Simsboro	30.7414	-96.8549	476	740	715	735		280	365	Pump Lowered
PO-002659	Calvert Bluff	30.79354	-96.7539	472	470	430	450		260	360	Pump Lowered
PO-005230	Carrizo	30.55511	-96.9002	466	497	495	496		200	340	Pump Lowered
PO-012204	Queen City	30.54976	-96.7134	387	685	620	680		260	260	Pump Lowered
PO-008024	Yegua - Jackson	30.38194	-96.5956	308	296	276	296		180	180	Pump Lowered
PO-005810	Carrizo	30.53652	-96.8658	427	358	318	351	318	160	294	Pump Lowered
PO-001928	Calvert Bluff	30.7101	-96.7611	433	718	698	718	630	180	300	Pump Lowered
PO-011384	Carrizo	30.48124	-96.886	423		423	423		180	287	Pump Lowered
PO-008149	Calvert Bluff	30.66495	-96.8282	502	770	739	759	739	340	365	Pump Lowered
PO-010970	Carrizo	30.55034	-96.7138	381		381	381		200	238	Redrilled
PO-011376	Queen City	30.48306	-96.8905	384	253	233	253		240	240	Pump Lowered
PO-011330	Carrizo	30.51917	-96.9011	344	220	218	219		180	196	Pump Lowered
PO-006950	Weches	30.56354	-96.8143	453		453	453		99999	293	Pump Lowered
PO-005228	Carrizo	30.55004	-96.8809	423	295	275	295		160	260	Pump Lowered
PO-002217	Hooper	30.66724	-96.9308	469	938	918	922	670	180	300	Pump Lowered

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PO-012294	Carrizo	30.5556	-96.7982	489	942	832	932		300	300	Pump Lowered
PO-005114	Carrizo	30.57502	-96.6642	417	1193	1191	1192		120	180	Pump Lowered
PO-001483	Hooper	30.6377	-97.0639	476	332	330	331		99999	160	Pump Lowered
PO-009239	Queen City	30.48408	-96.8801	420	44	42	43		100	100	Pump Lowered
PO-011489	Carrizo	30.44263	-96.8556	348	710	708	709		420		Pump Lowered
PO-012650	Simsboro	30.77774	-96.9308	430		430	430		99999		Pump Lowered

