

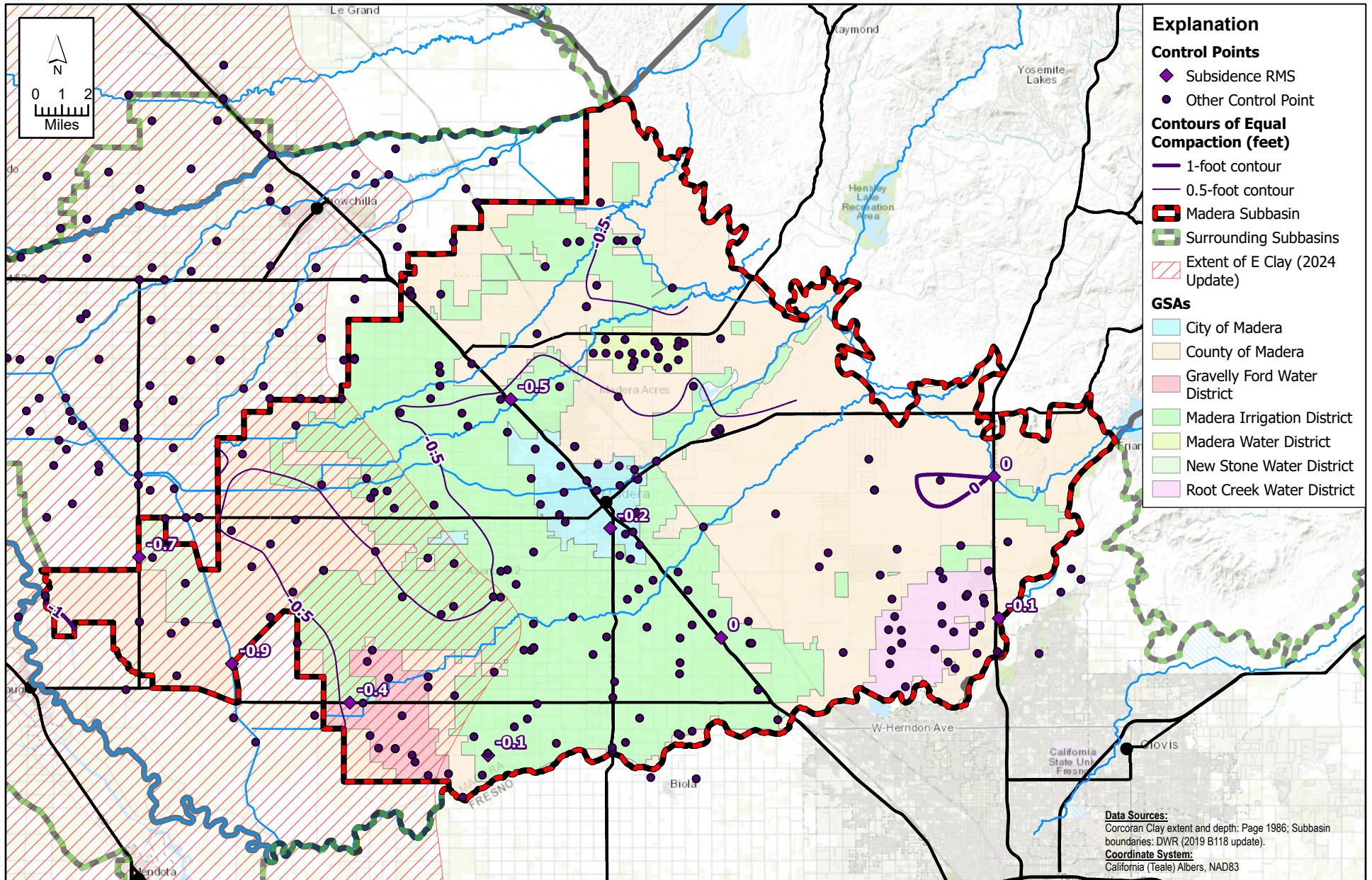
X:\2024\24-010 (1) Davids Eng. - Madera Subbasin 5-Year GSP Update\GIS\MAD\_Five\_Year\_Update\MAD\_Five\_Year\_Update.aprx; RMS\_WL

**FIGURE 3-1**



**Proposed Groundwater Level Representative Monitoring Sites**

*Madera Subbasin  
Groundwater Sustainability Plan - First Plan Amendment*

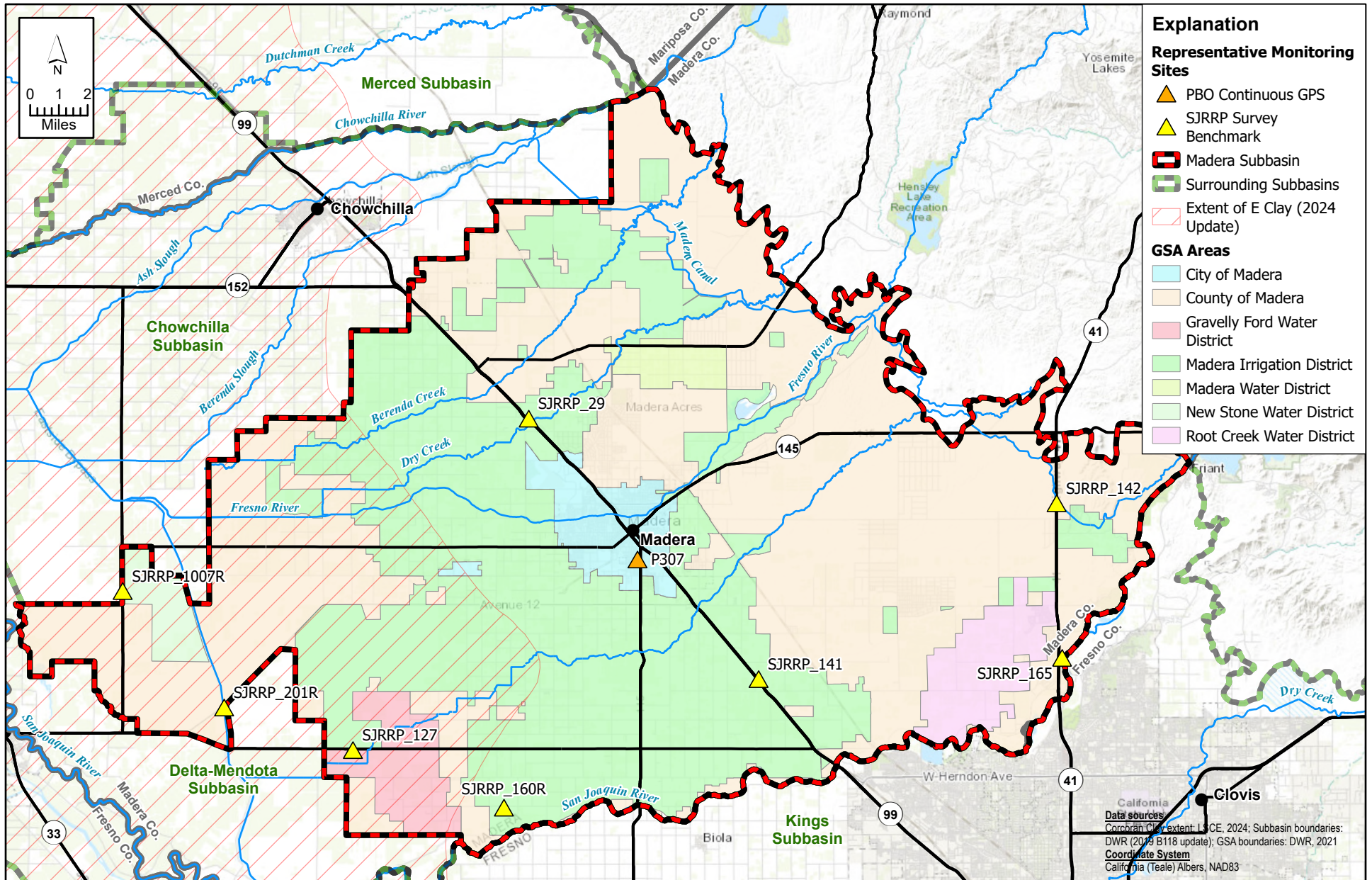


X:\2024\24-010 (1) Davids Eng. - Madera Subbasin 5-Year GSP Update\MODEL\MCSim\_v2\_GIS\_20231101\MCSim\_v2\_20231101.aprx; SUBS\_September 2030



**FIGURE 3-2**  
**Simulated Contours of Equal Compaction:**  
**September 2023 through September 2030**

*Madera Subbasin*  
*Groundwater Sustainability Plan - First Plan Amendment*

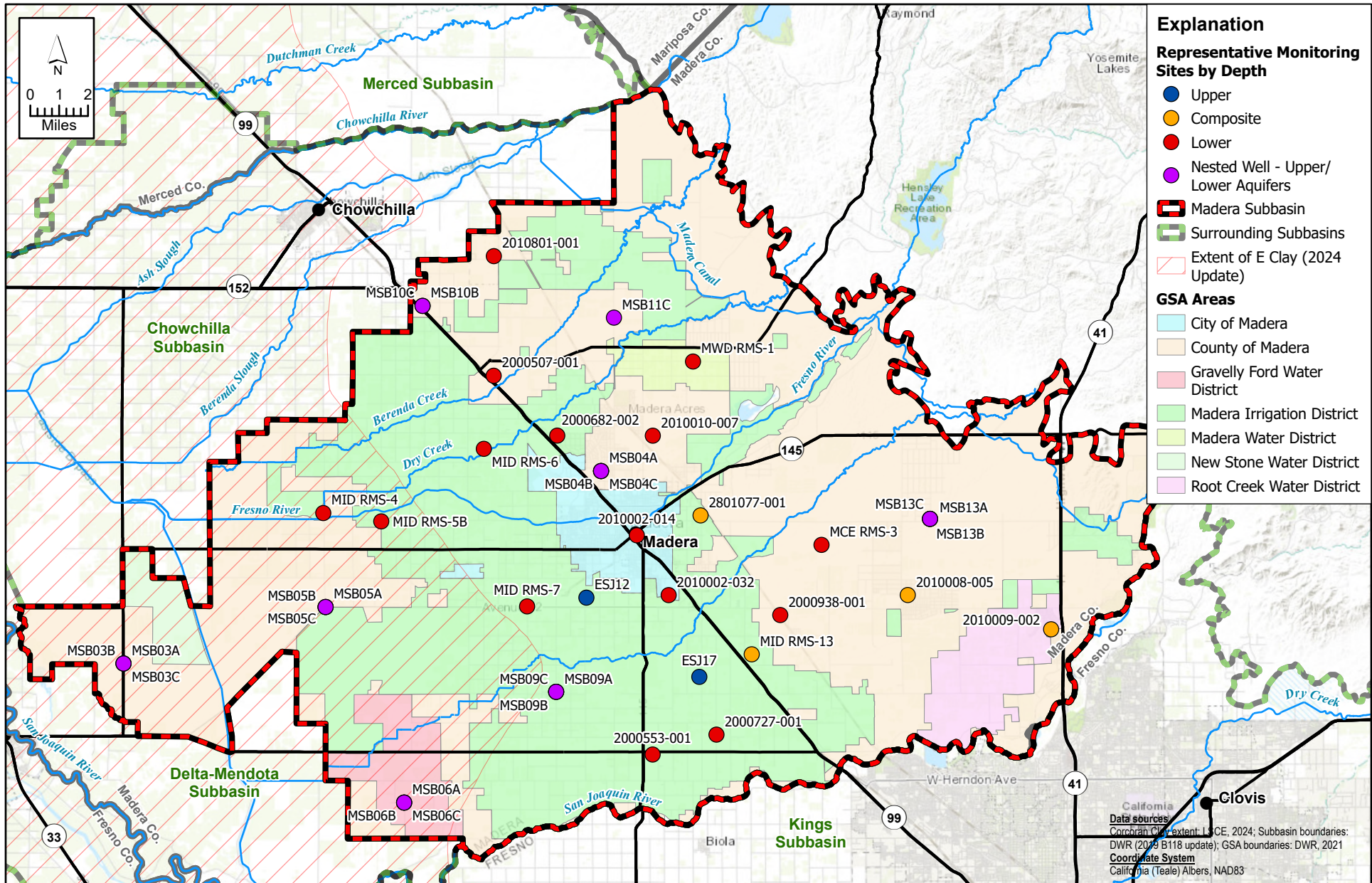


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**FIGURE 3-3**  
**Proposed Subsidence Sustainability Indicator**  
**Representative Monitoring Sites**

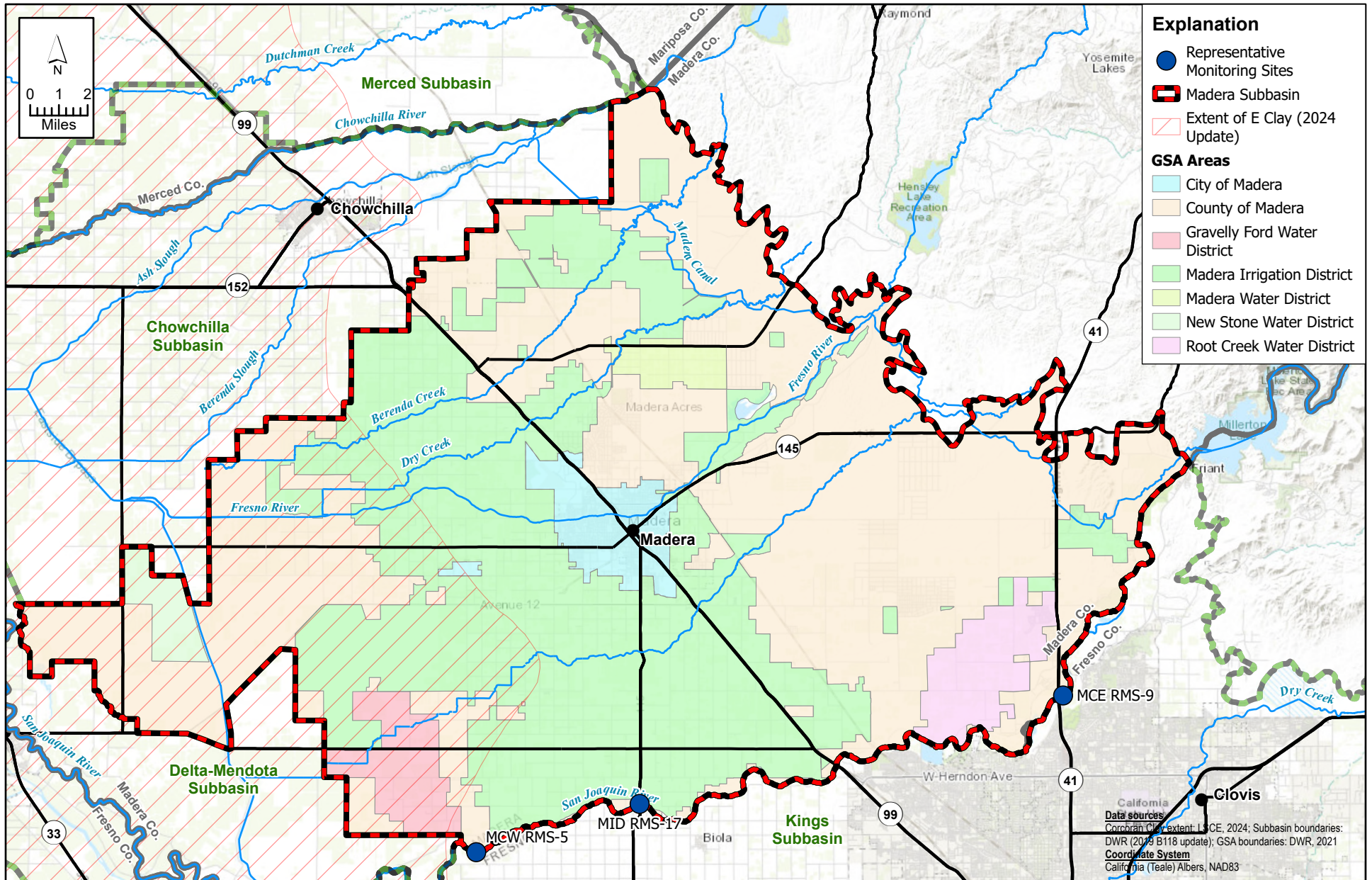
*Madera Subbasin*  
*Groundwater Sustainability Plan - First Plan Amendment*



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**FIGURE 3-4**  
**Proposed Groundwater Quality Sustainable Indicator**  
**Representative Monitoring Sites**  
 Madera Subbasin  
 Groundwater Sustainability Plan - First Plan Amendment

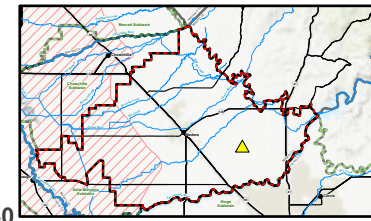


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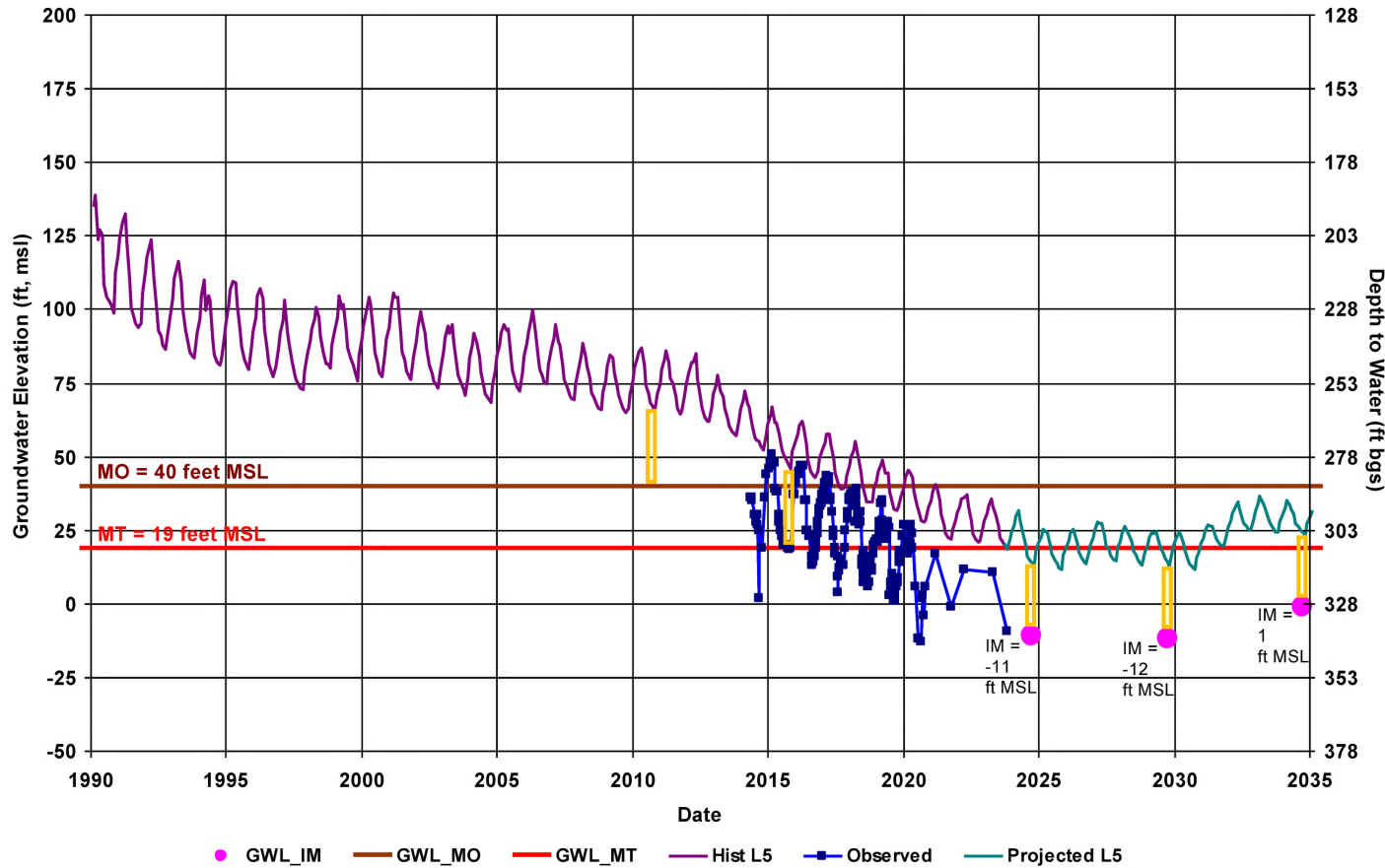
**FIGURE 3-5**  
**Proposed Interconnected Surface Water Sustainability Indicator**  
**Representative Monitoring Sites**

*Madera Subbasin*  
*Groundwater Sustainability Plan - First Plan Amendment*



Well Name: MCE RMS-6  
 Depth Zone: Lower  
 Subbasin: Madera  
 GSE (ft, msl): 328  
 GSA: County of Madera

Total Depth (ft): 550  
 Perf Top (ft): 450  
 Perf Bottom (ft): 550  
 Top Model Layer: 5  
 Bottom Model Layer: 5

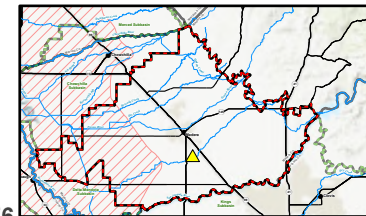


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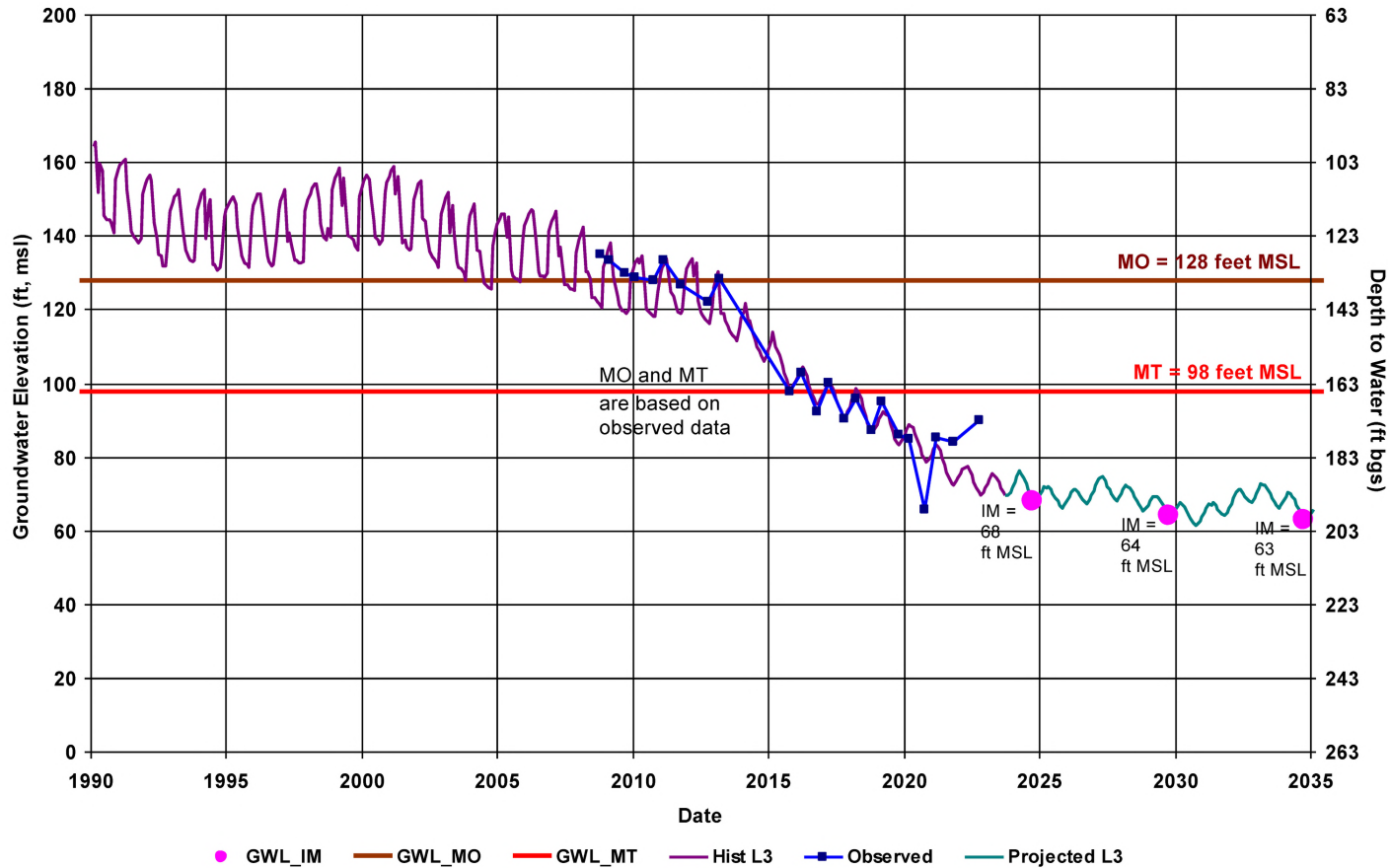
**FIGURE 3-6A**  
**Example Groundwater Level Hydrograph with**  
**Observed Fall 2015 Data - MCE RMS-6**

*Madera Subbasin*  
*Groundwater Sustainability Plan - First Plan Amendment*



Well Name: MID RMS-12  
 Depth Zone: Upper  
 Subbasin: Madera  
 GSE (ft, msl): 263  
 GSA: Madera Irrigation District

Total Depth (ft): 176  
 Perf Top (ft):  
 Perf Bottom (ft):  
 Top Model Layer: 3  
 Bottom Model Layer: 3

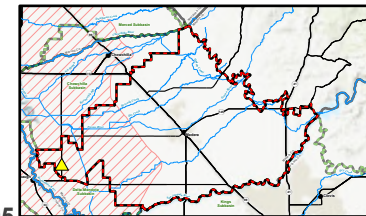


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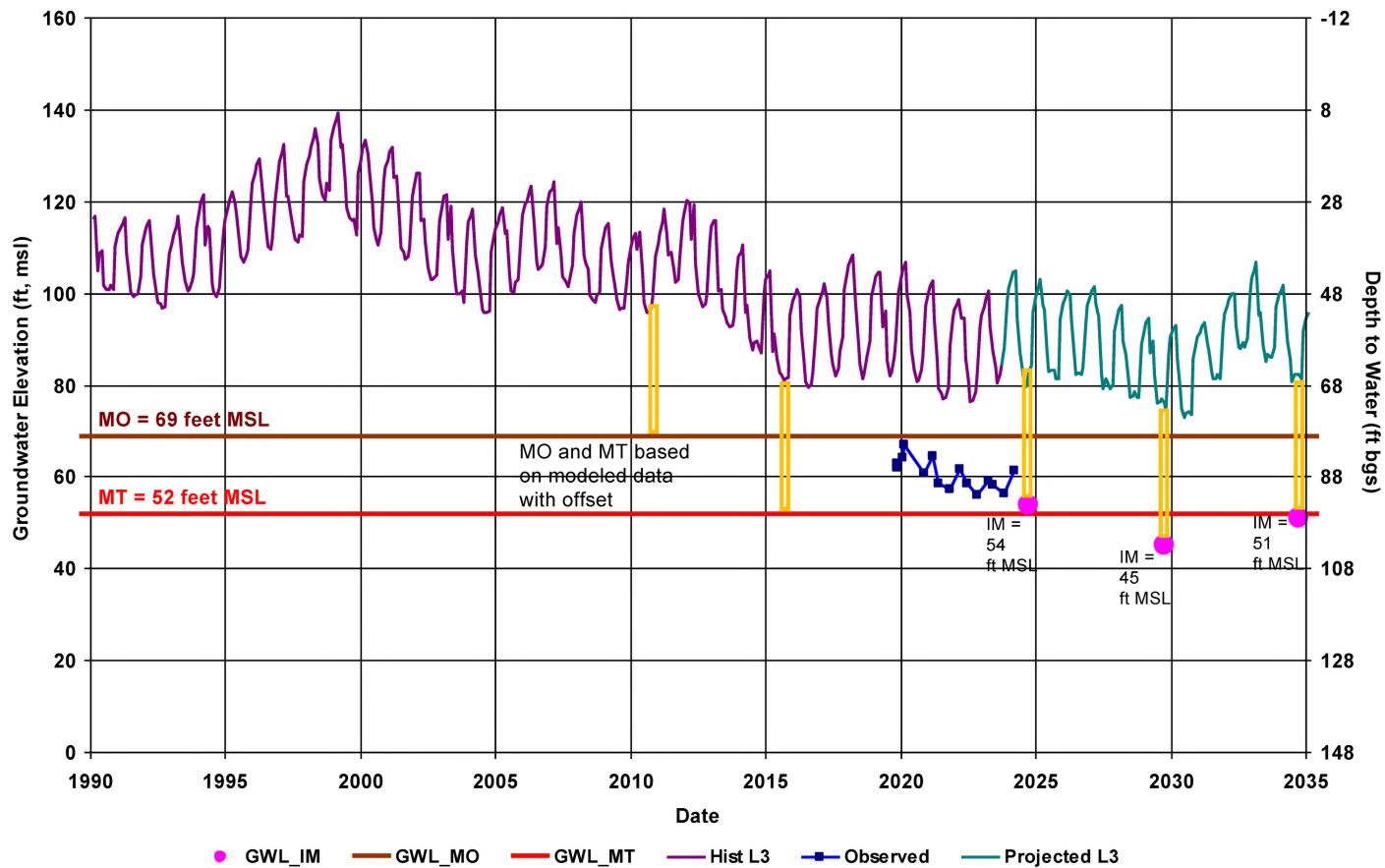
**FIGURE 3-6B**  
**Example Groundwater Level Hydrograph with**  
**Observed Fall 2015 Data - MID RMS-12**

*Madera Subbasin*  
*Groundwater Sustainability Plan - First Plan Amendment*



Well Name: MSB03B  
 Depth Zone: Upper  
 Subbasin: Madera  
 GSE (ft, msl): 148  
 GSA: County of Madera

Total Depth (ft): 295  
 Perf Top (ft): 215  
 Perf Bottom (ft): 285  
 Top Model Layer: 3  
 Bottom Model Layer: 3



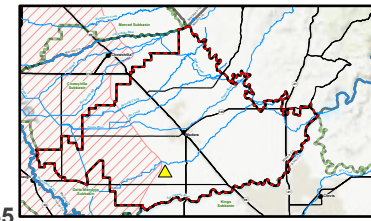
X:\2024\24-010 (1) Davids Eng. - Madera Subbasin 5-Year GSP Update\GIS\MAD\_Five\_Year\_Update\MAD\_Five\_Year\_Update.aprx; GWL\_SMC\_MSB03B



**FIGURE 3-7A**  
**Example Groundwater Level Hydrograph without Observed Fall 2015 Data - MSB03B**

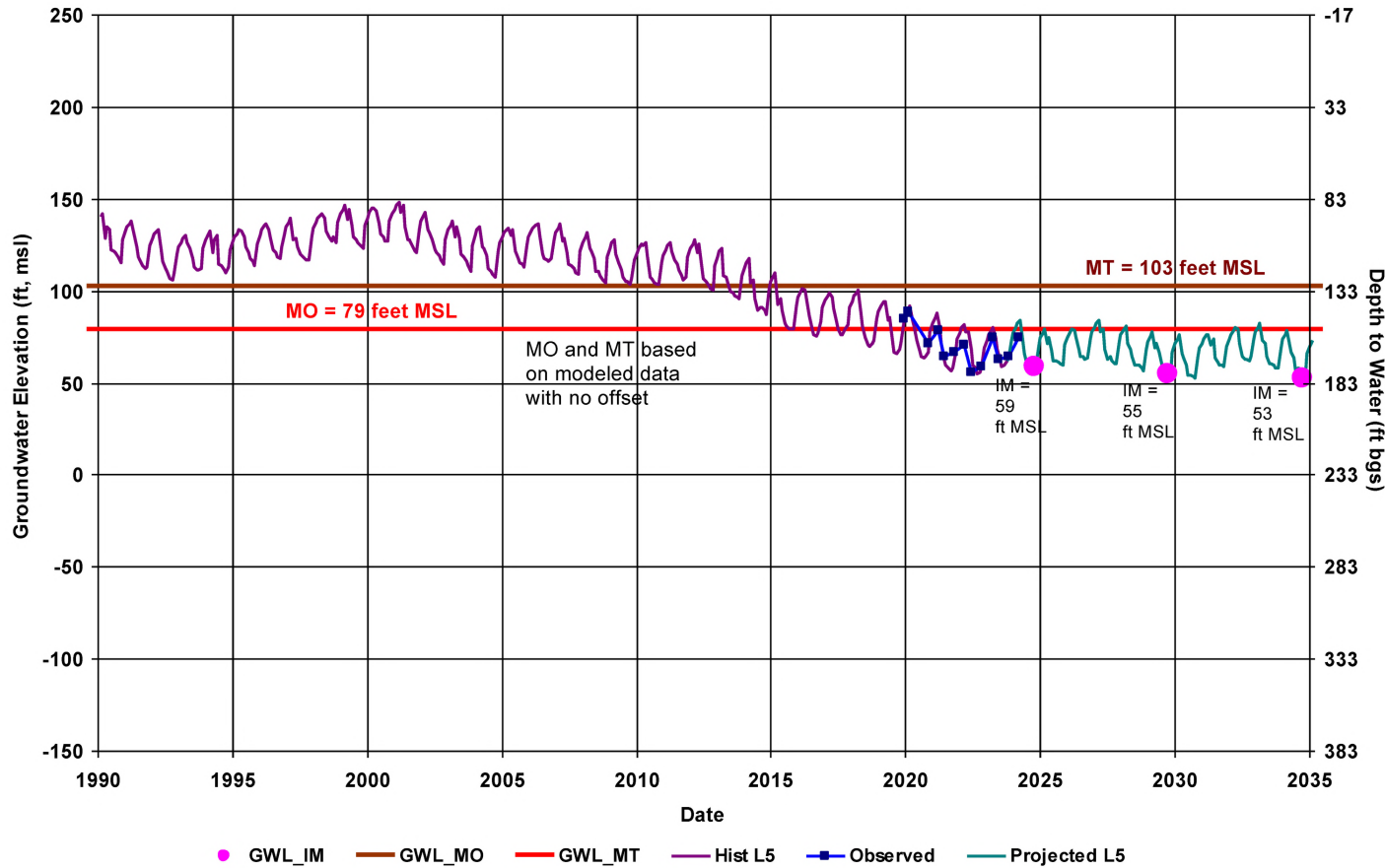
*Madera Subbasin  
 Groundwater Sustainability Plan - First Plan Amendment*





Well Name: MSB09C  
 Depth Zone: Lower  
 Subbasin: Madera  
 GSE (ft, msl): 233  
 GSA: Madera Irrigation District

Total Depth (ft): 955  
 Perf Top (ft): 880  
 Perf Bottom (ft): 945  
 Top Model Layer: 5  
 Bottom Model Layer: 5

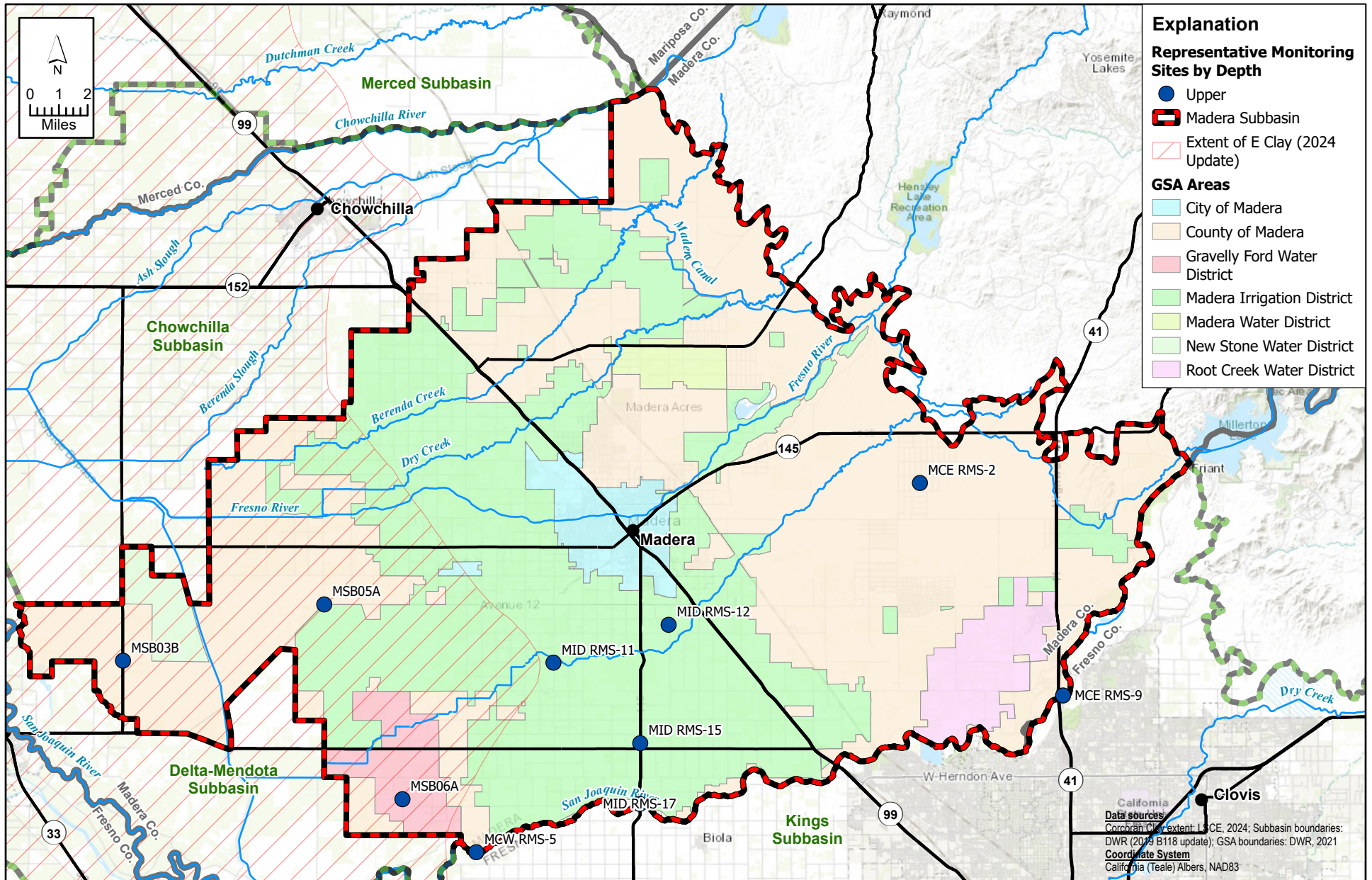


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**FIGURE 3-7B**  
**Example Groundwater Level Hydrograph without Observed Fall 2015 Data - MSB09C**

Madera Subbasin  
 Groundwater Sustainability Plan - First Plan Amendment

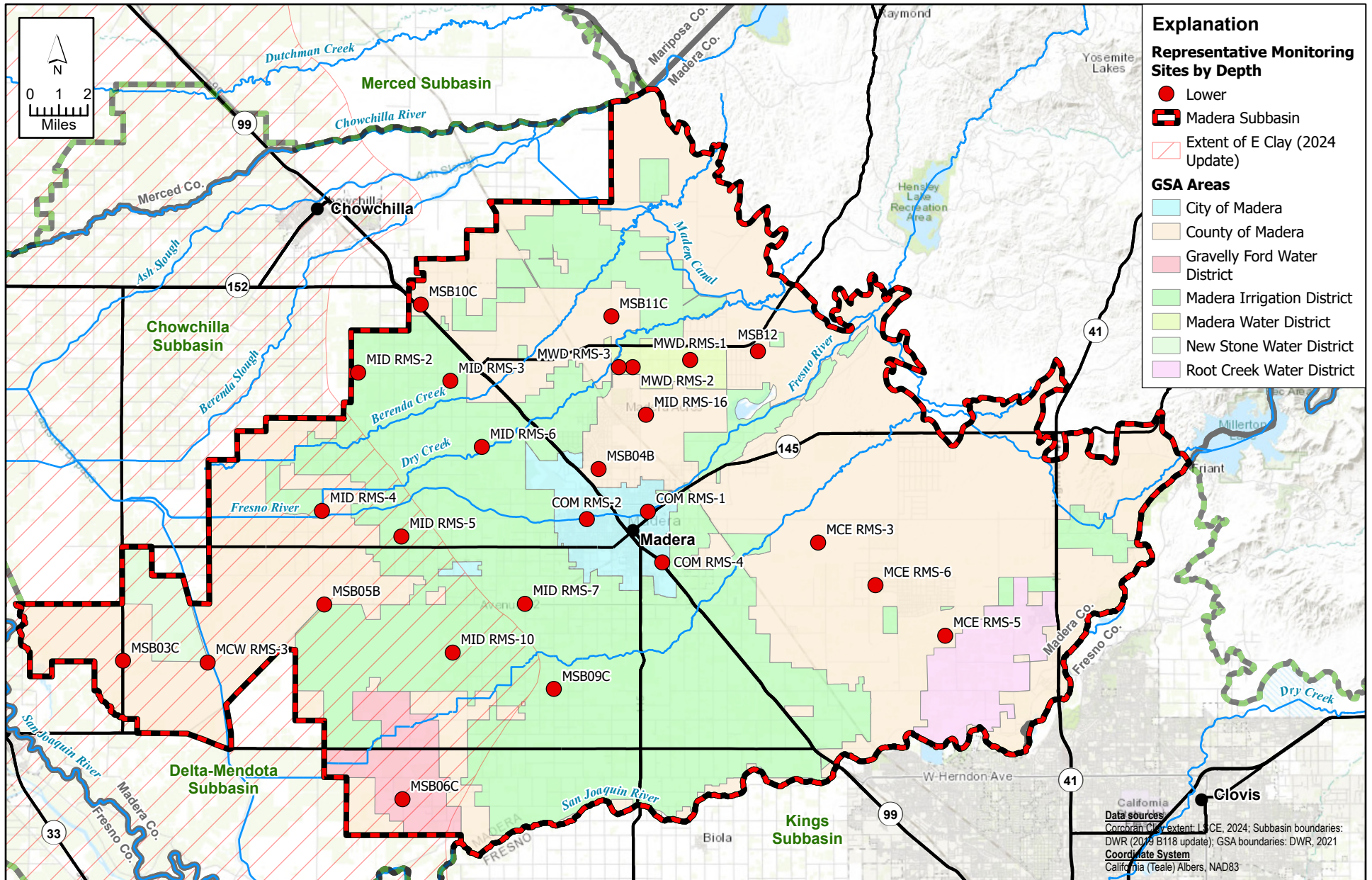


X:\2024\24-010 (1) Davids Eng. - Madera Subbasin 5-Year GSP Update\GIS\MAD\_Five\_Year\_Update\MAD\_Five\_Year\_Update.aprx; RMS\_WL\_Upper



**FIGURE 3-8**  
**Proposed Groundwater Level Sustainable Indicator**  
**Representative Monitoring Sites - Upper Aquifer**

Madera Subbasin  
 Groundwater Sustainability Plan - First Plan Amendment

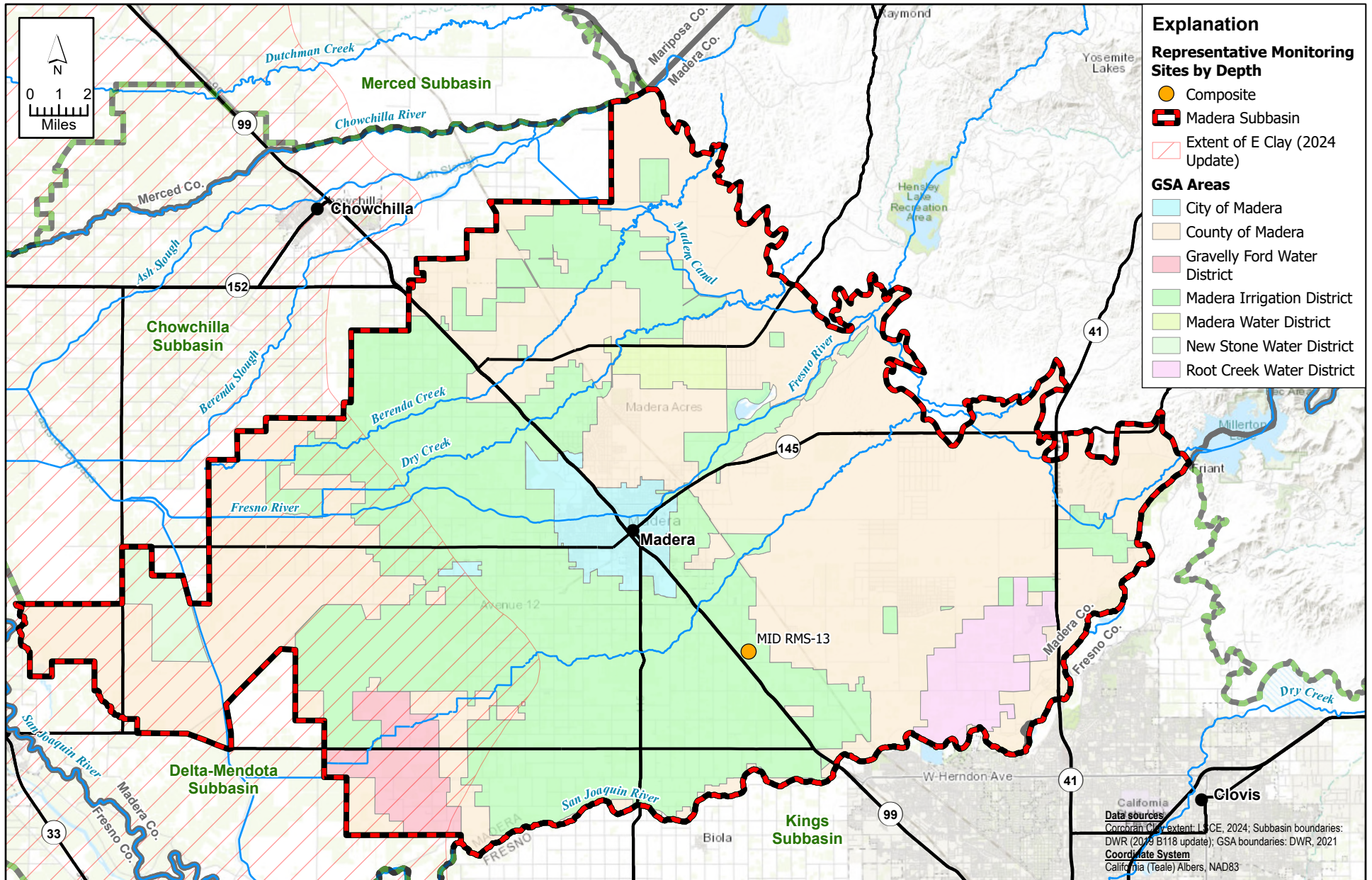


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**FIGURE 3-9**  
**Proposed Groundwater Level Sustainable Indicator**  
**Representative Monitoring Sites - Lower Aquifer**

*Madera Subbasin*  
*Groundwater Sustainability Plan - First Plan Amendment*

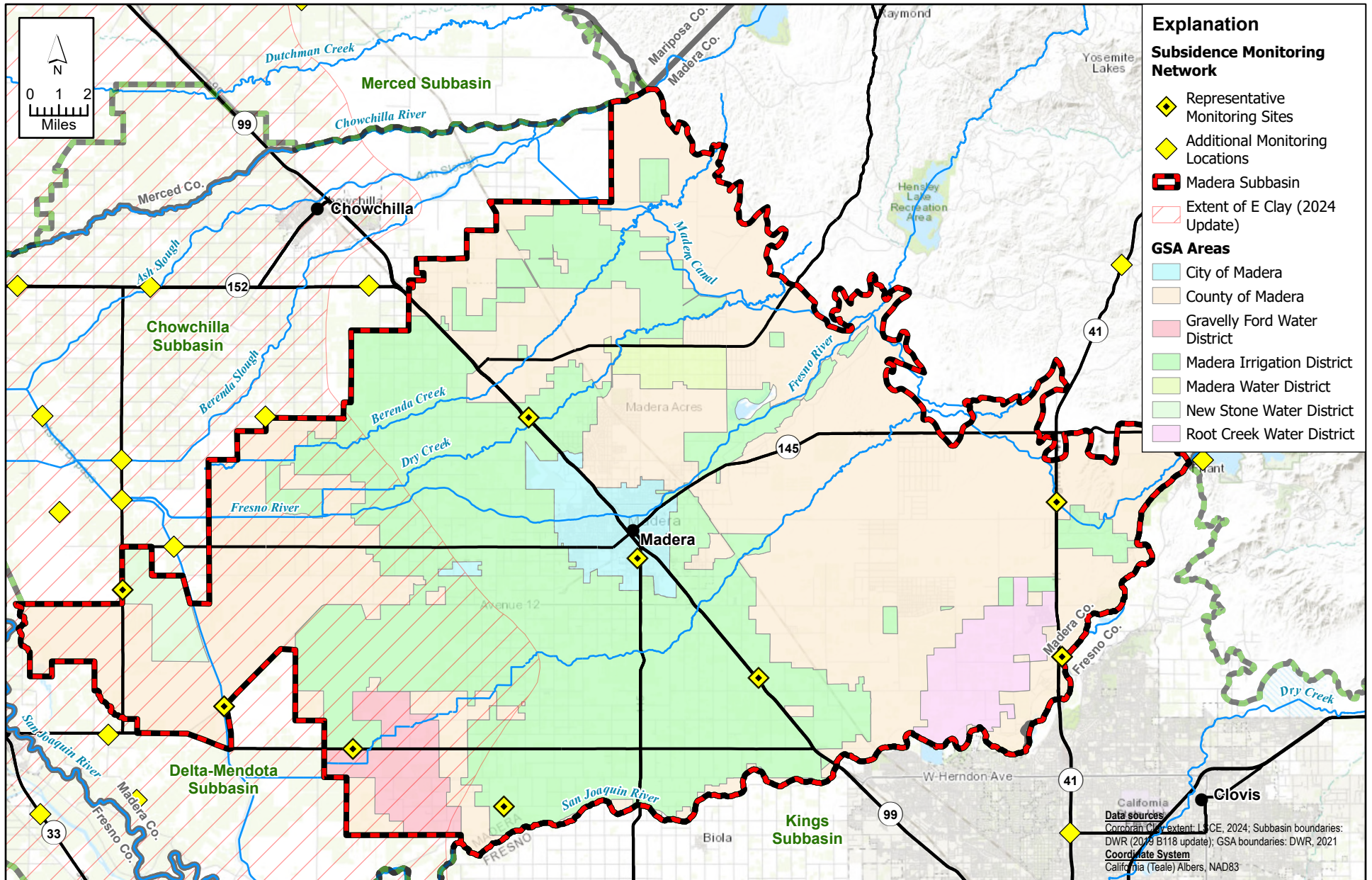


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**FIGURE 3-10**  
**Proposed Groundwater Level Sustainable Indicator**  
**Representative Monitoring Sites - Composite**

*Madera Subbasin*  
*Groundwater Sustainability Plan - First Plan Amendment*



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FIGURE 3-11



Proposed Subsidence Monitoring Network

Madera Subbasin  
Groundwater Sustainability Plan - First Plan Amendment