



**GROUNDWATER
QUALITY
CONDITIONS
REPORT –
CUYAMA VALLEY
GROUNDWATER
BASIN**

December 2025

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TABLE OF CONTENTS

| SECTION | PAGE NO. |
|--|----------|
| EXECUTIVE SUMMARY..... | ES-1 |
| 1. INTRODUCTION | 1-2 |
| 2. SUMMARY STATISTICS..... | 2-2 |
| 3. CURRENT CONDITIONS..... | 3-3 |
| 4. TOTAL DISSOLVED SOLIDS TIME SERIES FIGURES..... | 4-1 |
| 5. MONITORING NETWORK UPDATES | 5-6 |

TABLES

Table 1: Recent total Dissolved Solids Measurements for Monitoring Network

Table 2: Well Status Related to TDS Thresholds

FIGURES

Figure 1: 2025 Groundwater Status

Figure 2: Groundwater Quality Representative Wells and Status

Figure 3: Southeast Region – Well 157

Figure 4: Eastern Region – Well 83

Figure 5: Central Region – Well 467

Figure 6: Central Region – Well 74

Figure 7: Western Region – Well 571 (not a representative well)

Figure 8: Threshold Regions in the Cuyama Groundwater Basin

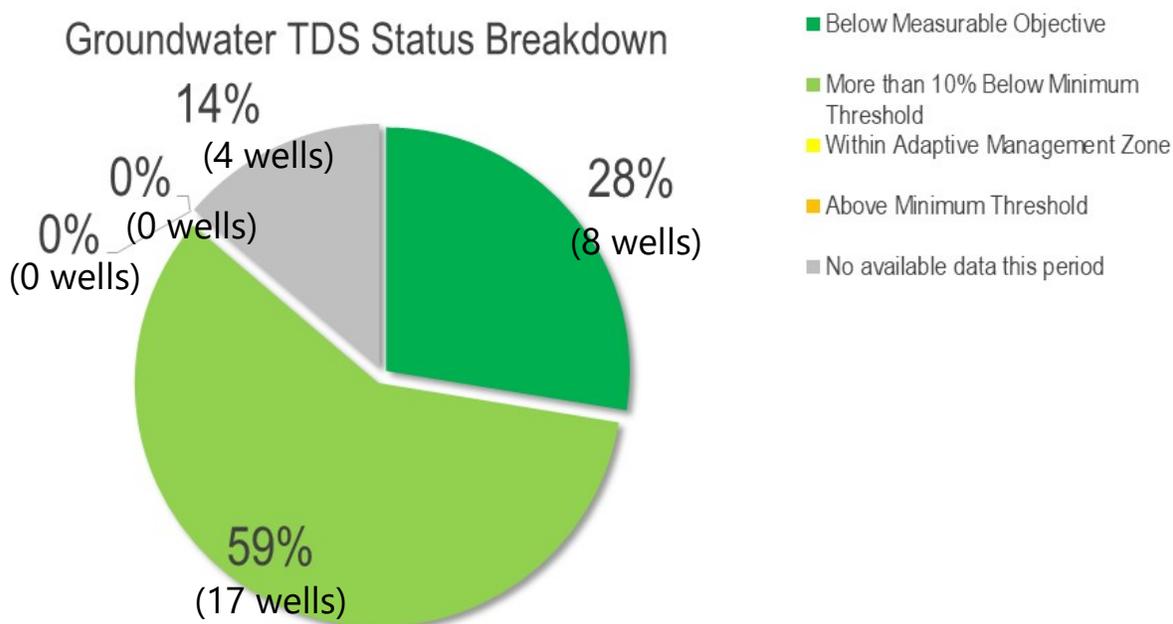
1. INTRODUCTION

This report is intended to provide an update on the current groundwater quality of total dissolved solids (TDS) conditions in the Cuyama Valley Groundwater Basin. Groundwater quality measurements were taken in October and December 2025. This work is completed by the Cuyama Basin Groundwater Sustainability Agency (CBGSA), in compliance with the Sustainable Groundwater Management Act.

2. SUMMARY STATISTICS

As outlined in the GSP, undesirable results for degraded water quality occurs, “when 30 percent of representative monitoring points... exceed the minimum threshold for a constituent for two consecutive years.” (Cuyama GSP, pg. 3-4). Twenty one wells (900-921), were installed after the GSP was submitted in January 2020 and therefore do not have minimum thresholds or measurable objectives. Additionally, wells 62, 103 and 571 had transducers installed after January 2020 and do not have minimum thresholds or measurable objectives. Measurements from well 204 are now being taken at nearby well 205. The results dating back to first quarter of 2023 have been updated to reflect the well change.

FIGURE 1: 2025 GROUNDWATER STATUS



3. CURRENT CONDITIONS

Table 1 includes the most recent TDS measurements taken in the Cuyama Basin from representative wells and non representative wells included in the Cuyama GSP Groundwater Quality Monitoring Network, which were taken during October and December 2025. Per the plan described in the GSP, it is the intention of the GSA to take TDS measurements once per year. **Table 2:** includes all of the representative wells and their current status in relation to the thresholds applied to each well. This information is also shown in **Figure 1**.

All measurements have also been incorporated into the Cuyama DMS, which may be accessed at <https://opti.woodardcurran.com/cuyama/login.php>

TABLE 1: RECENT TOTAL DISSOLVED SOILDS MEASUREMENTS FOR MONITORING NETWORK

| Well | Region | Q3, 2023 | Q3, 2024 | Q4, 2025 |
|------|--------------|----------|----------|----------|
| | | TDS Mg/L | TDS Mg/L | TDS Mg/L |
| 61 | Southeastern | - | - | - |
| 72 | Central | 900 | 894 | 895 |
| 74 | Central | 1310 | 1360 | 1340 |
| 77 | Central | 1120 | 1165 | 1164 |
| 79 | Central | - | 1630 | 1620 |
| 83 | Eastern | 1120 | 1110 | 1040 |
| 88 | Badlands | 320 | 337 | 349 |
| 90 | Central | - | 1120 | 1170 |
| 91 | Central | 1020 | 1059 | 1057 |
| 95 | Central | 1340 | 1310 | 1340 |
| 96 | Central | 1100 | 1220 | 1240 |
| 99 | Central | 1140 | 1060 | 1100 |
| 101 | Eastern | 1210 | 1230 | 1310 |
| 102 | Central | 1610 | 1640 | 1660 |
| 157 | Southeastern | - | - | - |
| 204 | Badlands | - | 348 | 369 |
| 242 | Eastern | 780 | 883 | 598 |
| 316 | Central | 1060 | 1105 | 1106 |
| 317 | Central | - | 1068 | 1120 |
| 322 | Central | 1140 | 1170 | 1220 |
| 324 | Central | 740 | 700 | 749 |
| 325 | Central | 1070 | 1040 | 1090 |
| 420 | Central | 1080 | 1121 | 1119 |
| 421 | Central | 1280 | 1390 | 1394 |
| 424 | Central | 1260 | 1270 | 1230 |
| 467 | Central | 1070 | 1080 | 926 |
| 568 | Central | 860 | 841 | 931 |
| 841 | Northwestern | - | - | - |
| 845 | Northwestern | - | - | - |

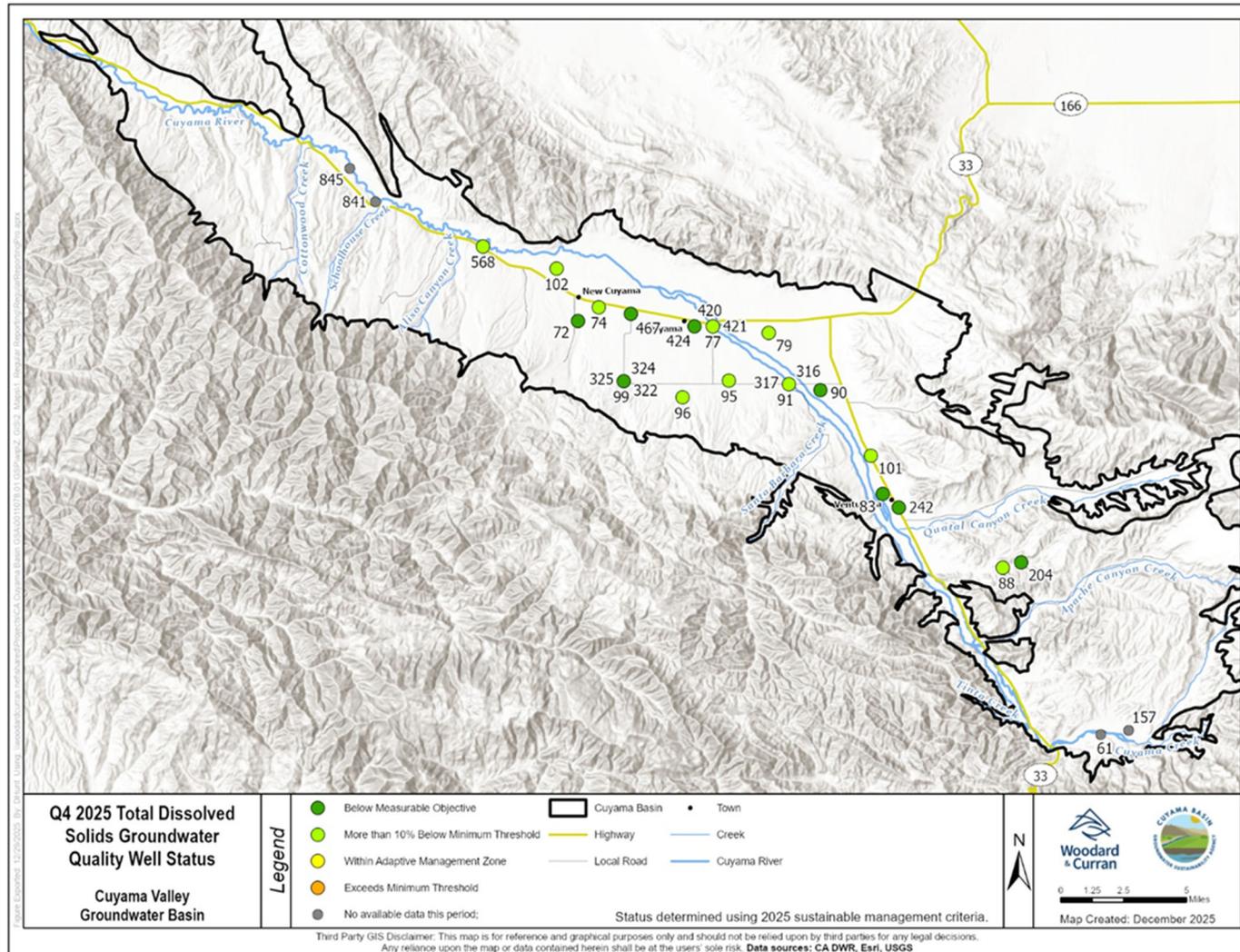
| Well | Region | Q3, 2023 | Q3, 2024 | Q4, 2025 |
|---------------------------------|--------------|----------|----------|----------|
| | | TDS Mg/L | TDS Mg/L | TDS Mg/L |
| Non Representative Wells | | | | |
| 62 | Eastern | 780 | - | - |
| 103 | Central | 930 | 1035 | - |
| 318 | Central | - | - | - |
| 422 | Central | - | - | - |
| 571 | Western | 290 | 294 | 302 |
| 900 | Central | - | 6410 | 5740 |
| 901 | Central | - | 9620 | 5460 |
| 902 | Central | - | 10500 | 7640 |
| 903 | Eastern | 1080 | 1110 | 1160 |
| 904 | Eastern | 1120 | 1140 | 1180 |
| 905 | Eastern | 1100 | 1170 | 1250 |
| 906 | Central | - | 1230 | 1310 |
| 907 | Central | 1260 | 1300 | 1250 |
| 908 | Central | 1770 | 1760 | 1720 |
| 909 | Northwestern | - | 2,270 | 1840 |
| 910 | Northwestern | - | 946 | 1950 |
| 911 | Southeastern | - | 1,360 | 1290 |
| 912 | Southeastern | - | 1,320 | 2230 |
| 913 | Central | - | 1,830 | 2000 |
| 914 | Central | - | 1,200 | 1019 |
| 915 | Central | - | - | 1544 |
| 916 | Central | - | - | 1425 |
| 917 | Central | - | - | 1185 |
| 918 | Central | - | - | 1181 |
| 919 | Central | - | - | 1613 |
| 920 | Central | - | - | 1123 |
| 921 | Central | - | - | 1271 |

TABLE 2: WELL STATUS RELATED TO TDS THRESHOLDS

| Well | Region | Current Measurement Period | | Minimum Threshold | Within 10% of Minimum Threshold | Measurable Objective | Status | GSA Action Required? |
|------|--------------|----------------------------|------------|-------------------|---------------------------------|----------------------|---------------------------------------|----------------------|
| | | TDS mg/L | Date | | | | | |
| 61 | Southeastern | - | - | 1000 | 959 | 585 | No available data this period | No |
| 72 | Central | 895 | 10/3/2025 | 1106 | 1085 | 900 | Below Measurable Objective | No |
| 74 | Central | 1340 | 10/3/2025 | 1872 | 1816 | 1310 | More than 10% Below Minimum Threshold | No |
| 77 | Central | 1164 | 10/20/2025 | 1682 | 1626 | 1120 | More than 10% Below Minimum Threshold | No |
| 79 | Central | 1620 | 10/2/2025 | 2318 | 2236 | 1500 | More than 10% Below Minimum Threshold | No |
| 83 | Eastern | 1040 | 10/2/2025 | 1816 | 1746 | 1120 | Below Measurable Objective | No |
| 88 | Badlands | 349 | 12/3/2025 | 1000 | 932 | 320 | More than 10% Below Minimum Threshold | No |
| 90 | Central | 1170 | 10/2/2025 | 1596 | 1576 | 1400 | Below Measurable Objective | No |
| 91 | Central | 1057 | 10/20/2025 | 1558 | 1504 | 1020 | More than 10% Below Minimum Threshold | No |
| 95 | Central | 1340 | 10/2/2025 | 1950 | 1889 | 1340 | More than 10% Below Minimum Threshold | No |
| 96 | Central | 1240 | 10/2/2025 | 1676 | 1618 | 1100 | More than 10% Below Minimum Threshold | No |
| 99 | Central | 1100 | 10/3/2025 | 1658 | 1606 | 1140 | Below Measurable Objective | No |
| 101 | Eastern | 1310 | 10/2/2025 | 1735 | 1683 | 1210 | More than 10% Below Minimum Threshold | No |
| 102 | Central | 1660 | 10/2/2025 | 2551 | 2446 | 1500 | More than 10% Below Minimum Threshold | No |
| 157 | Southeastern | - | - | 2468 | 2357 | 1360 | No available data this period | No |
| 204 | Badlands | 369 | 12/3/2025 | 1000 | 938 | 380 | Below Measurable Objective | No |
| 242 | Eastern | 598 | 10/2/2025 | 1656 | 1568 | 780 | Below Measurable Objective | No |
| 316 | Central | 1106 | 10/20/2025 | 1524 | 1478 | 1060 | More than 10% Below Minimum Threshold | No |
| 317 | Central | 1120 | 10/20/2025 | 1444 | 1369 | 692 | More than 10% Below Minimum Threshold | No |
| 322 | Central | 1220 | 10/3/2025 | 1504 | 1468 | 1140 | More than 10% Below Minimum Threshold | No |
| 324 | Central | 749 | 10/3/2025 | 1000 | 974 | 740 | More than 10% Below Minimum Threshold | No |

| Well | Region | Current Measurement Period | | Minimum Threshold | Within 10% of Minimum Threshold | Measurable Objective | Status | GSA Action Required? |
|------|--------------|----------------------------|------------|-------------------|---------------------------------|----------------------|---------------------------------------|----------------------|
| | | TDS mg/L | Date | | | | | |
| 325 | Central | 1090 | 10/3/2025 | 1687 | 1625 | 1070 | More than 10% Below Minimum Threshold | No |
| 420 | Central | 1119 | 10/20/2025 | 1560 | 1512 | 1080 | More than 10% Below Minimum Threshold | No |
| 421 | Central | 1394 | 10/20/2025 | 1761 | 1713 | 1280 | More than 10% Below Minimum Threshold | No |
| 424 | Central | 1230 | 10/3/2025 | 1658 | 1618 | 1260 | Below Measurable Objective | No |
| 467 | Central | 926 | 10/2/2025 | 1846 | 1768 | 1070 | Below Measurable Objective | No |
| 568 | Central | 931 | 10/2/2025 | 1118 | 1092 | 860 | More than 10% Below Minimum Threshold | No |
| 841 | Northwestern | - | - | 1000 | 956 | 561 | No available data this period | No |
| 845 | Northwestern | - | - | 1250 | 1250 | 1250 | No available data this period | No |

FIGURE 2: GROUNDWATER QUALITY REPRESENTATIVE WELLS AND STATUS



4. TOTAL DISSOLVED SOLIDS TIME SERIES FIGURES

The following figures provide an overview of TDS conditions in four of the six area threshold regions identified in the GSP.

FIGURE 3: SOUTHEAST REGION – WELL 157

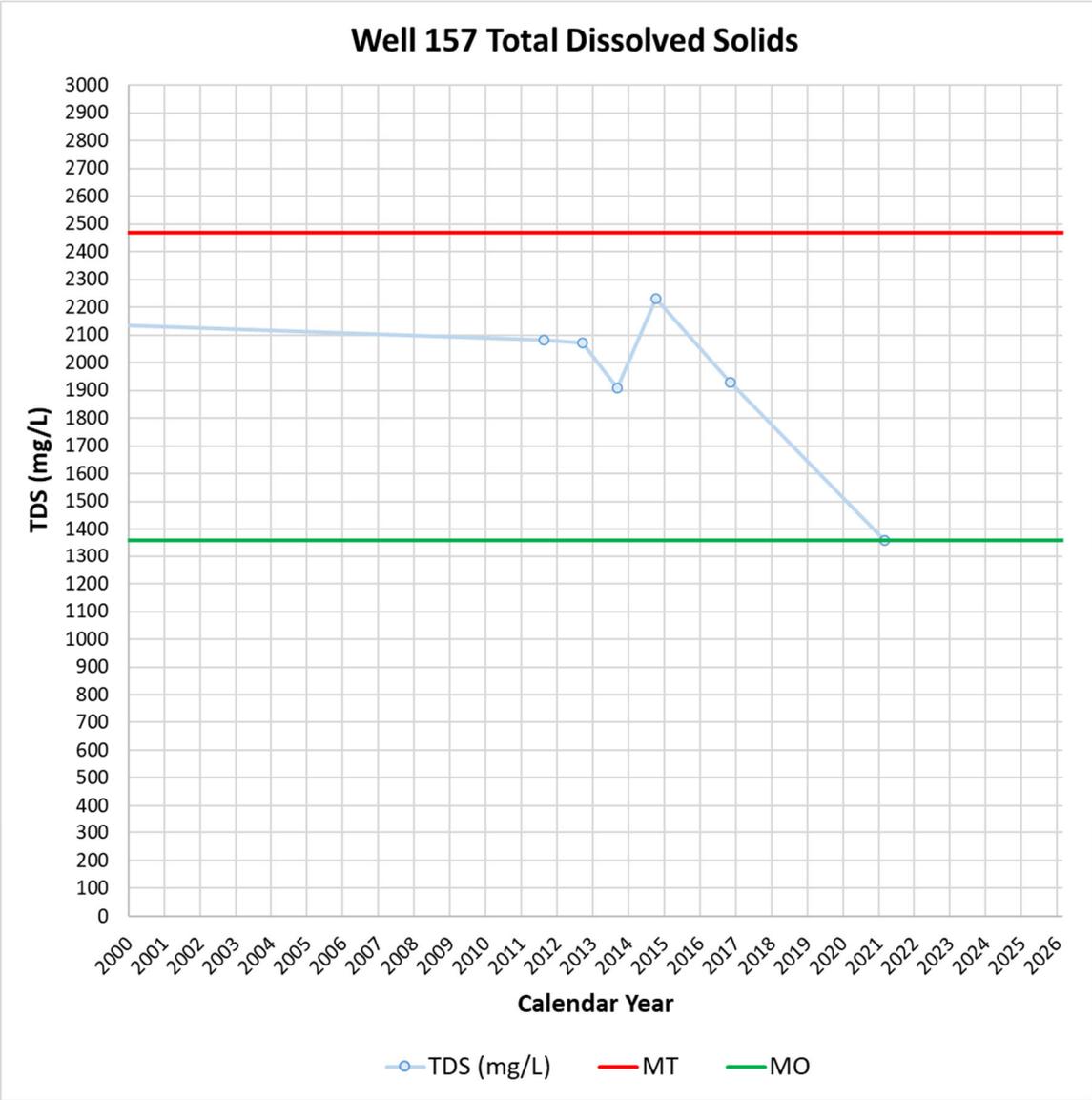


FIGURE 4: EASTERN REGION – WELL 83

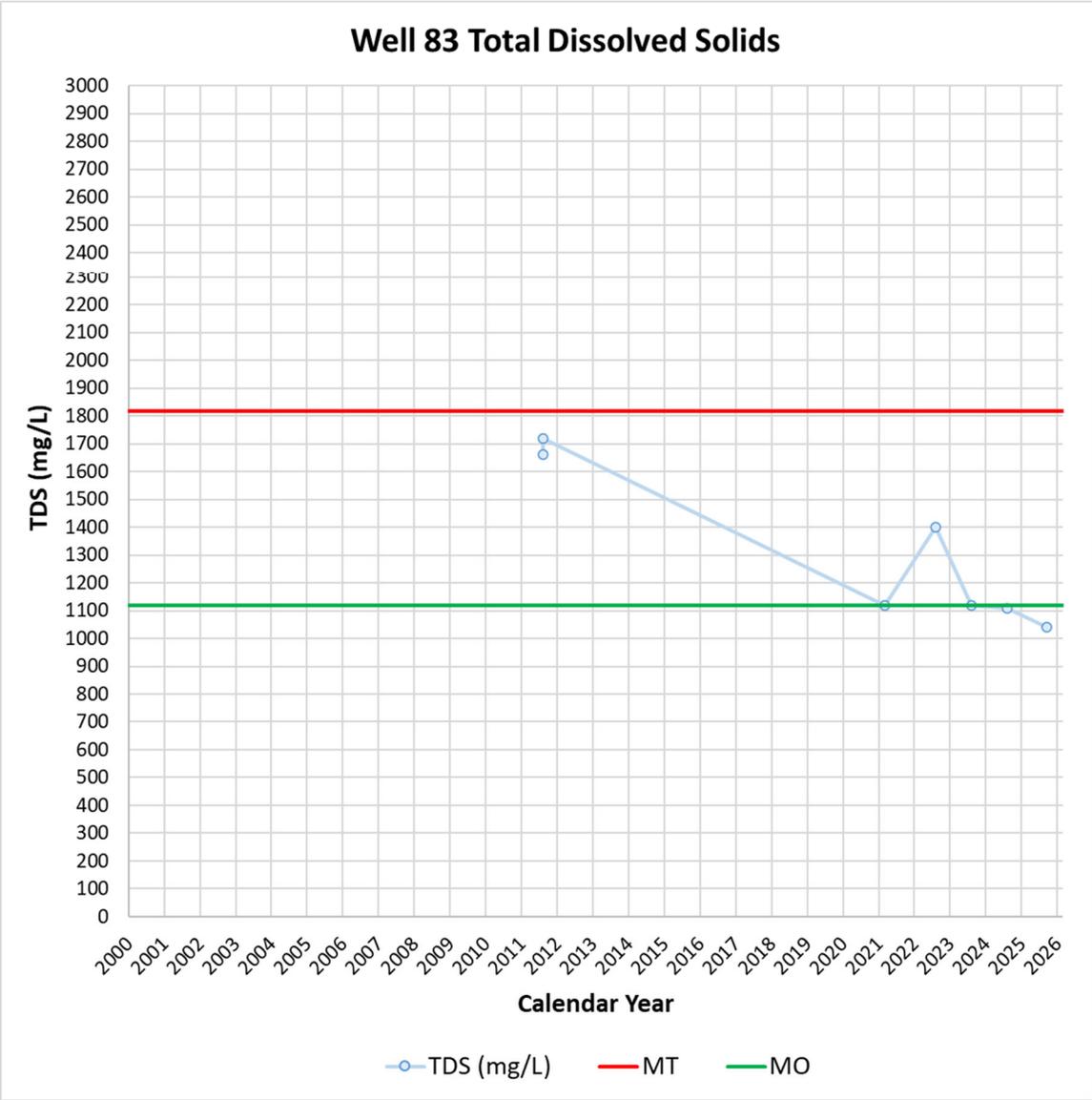


FIGURE 5: CENTRAL REGION – WELL 467

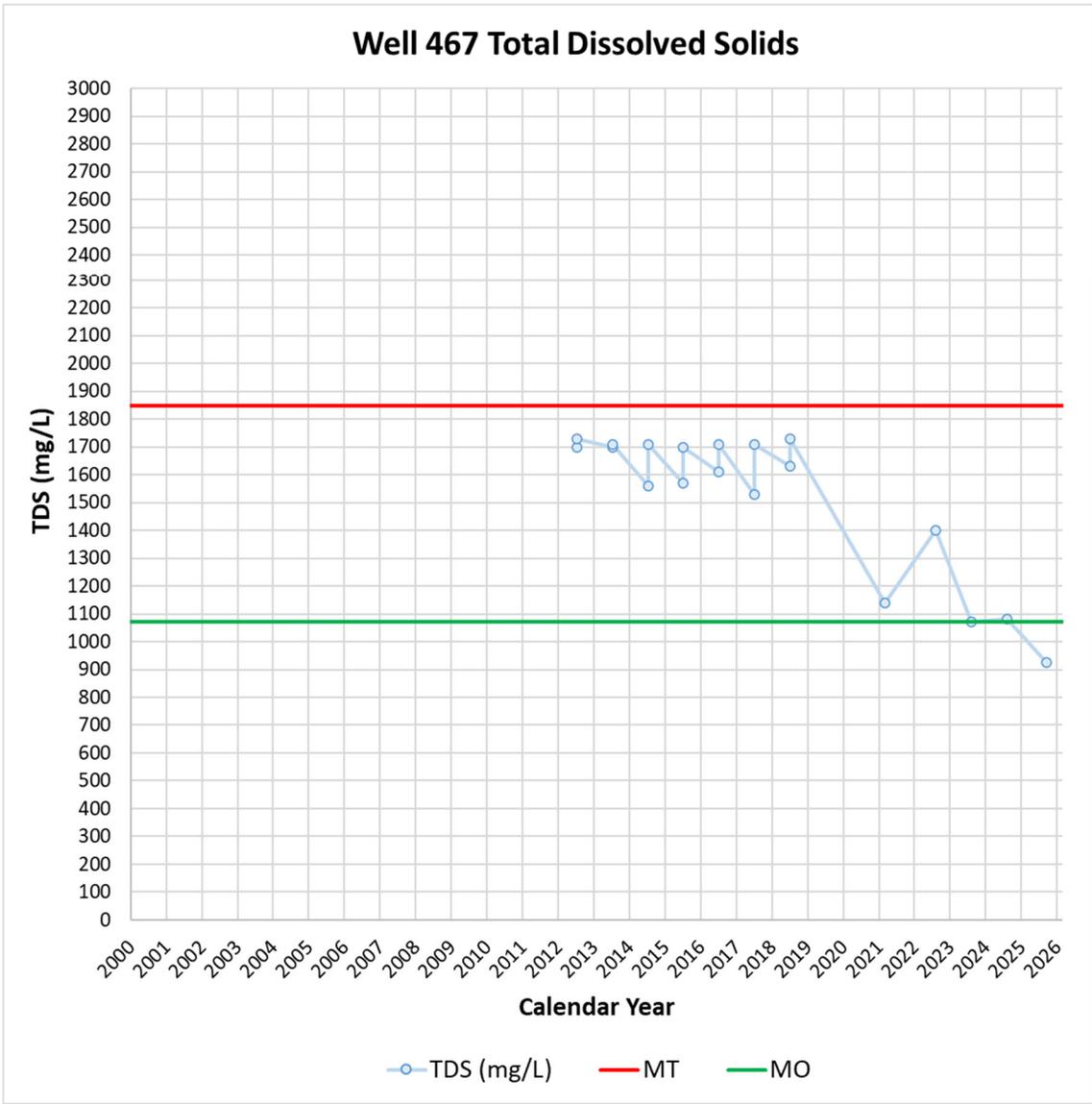


FIGURE 6: CENTRAL REGION – WELL 74

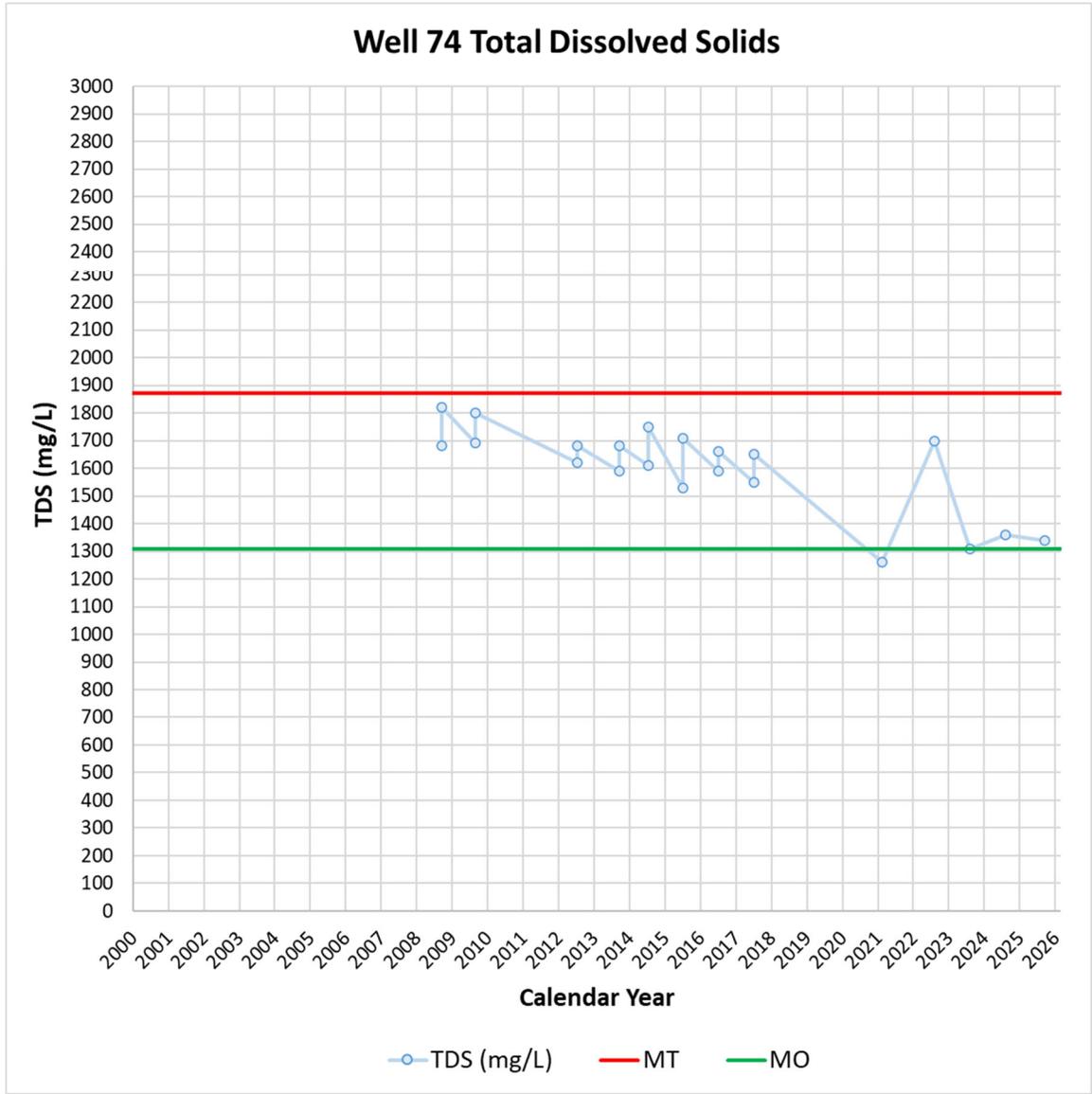


FIGURE 7: WESTERN REGION – WELL 571 (NOT A REPRESENTATIVE WELL)

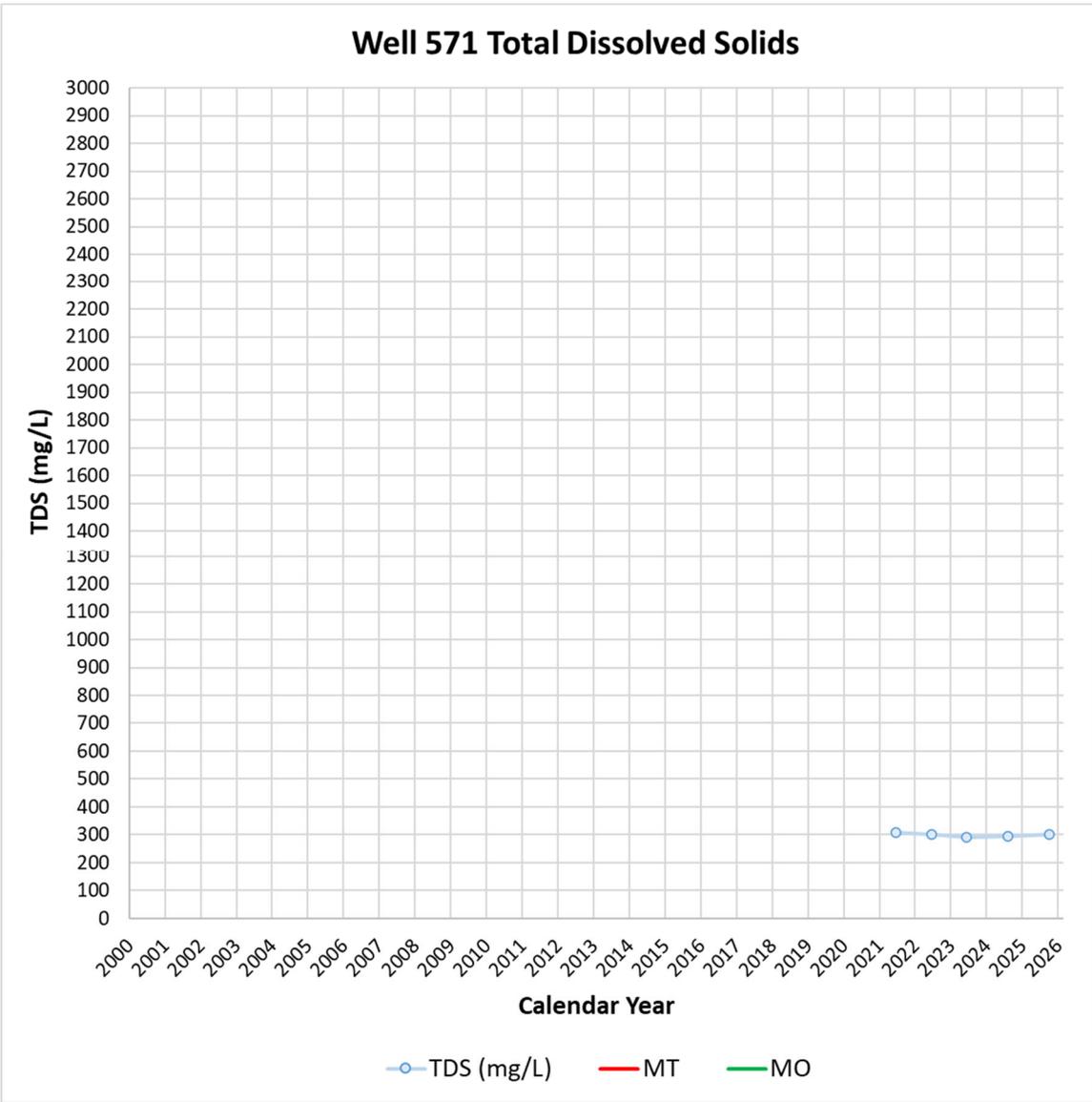
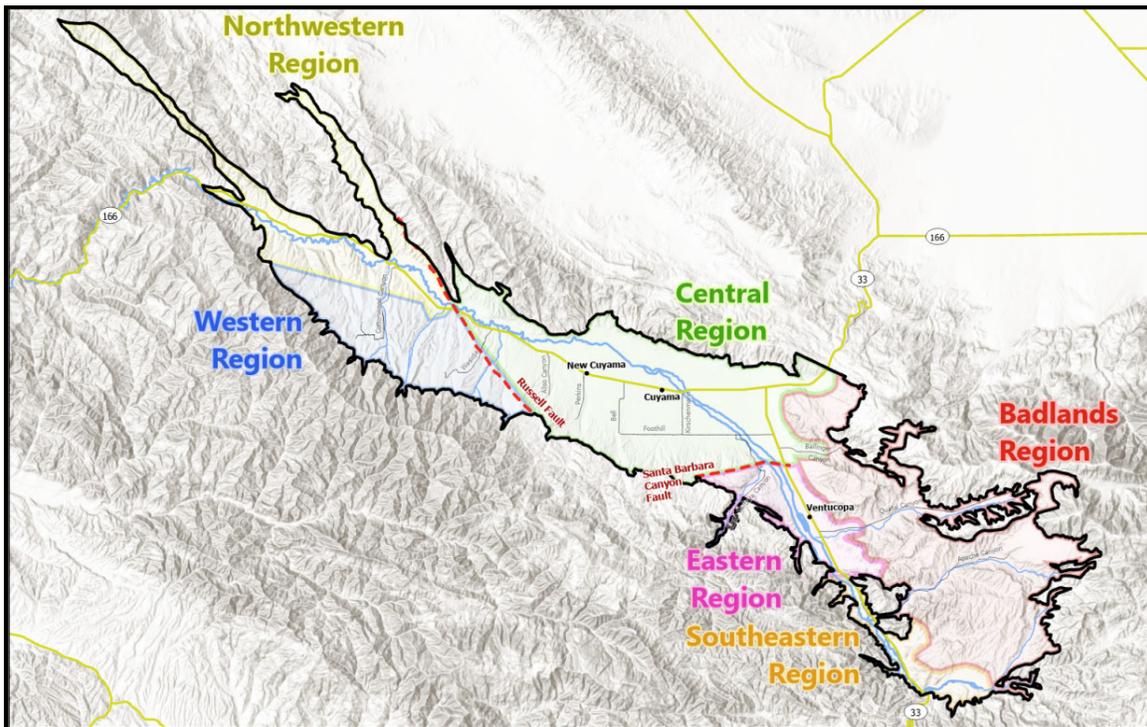


FIGURE 8: THRESHOLD REGIONS IN THE CUYAMA GROUNDWATER BASIN



5. MONITORING NETWORK UPDATES

As shown in the Summary Statistics Section, there are 4 wells without current measurements. These “no measurement codes” can have different causes as described below.

- Access agreements have not yet been established with the landowner, access has not been granted yet, or no access at the time of measurement:
 - Wells 61 and 157.
- Transducer data was not currently available:
 - Wells 841 and 845



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