

TO: Los Osos Basin Management Committee

FROM: Dan Heibel, Executive Director

DATE: July 16, 2025

SUBJECT: Item 10b – Draft Spring 2025 Los Osos Basin Water Level Data, Lower Aquifer Water Quality Monitoring Results, and Updated Chloride Metric

Recommendations

Receive an update on the Draft Spring 2025 Los Osos Basin Water Level Data, Lower Aquifer Water Quality Monitoring Results, and Updated Chloride Metric.

Discussion

Please find the attached Draft Spring 2025 Los Osos Basin Water Level Data, Lower Aquifer Water Quality Monitoring Results, and Updated Chloride Metric. As described in Section 5.14 of the Stipulated Judgment and Chapter 7 of the Basin Plan, the Basin Management Committee (BMC) established a groundwater monitoring program to provide the BMC, parties to the adjudication, private Basin water users and public agencies with updated information on groundwater resources in the Los Osos Basin. The final results, including water levels and results from the First Water and Upper Aquifer monitoring, will be included in the 2025 Annual Report.

The Water Level Metric has not been updated for Spring 2025 as Lower Aquifer Well (LA) 14 and LA 16 were recently modified (February 2025) to be dedicated Lower Aquifer Zone E monitoring wells. They previously were used to monitor water levels in both Zone D and Zone E. These modifications changed the depth of the screened intervals, see table below, so that water level readings collected at these wells now reflect Zone E water level elevations only and not the combined water level elevation of Zone D and E. Accordingly, the Water Level Metric Methodology needs to be modified to account for this change and BMC Staff will be re-initiating an initiative to evaluate existing metrics and provide recommendations to the BMC for improvements that can be made to incorporate the improvements that the BMC has made to the Groundwater Monitoring Program well network (i.e. construction of Sweet Springs/Cuesta-by-the-Sea and Skyline Monitoring Wells and modifications to LA 13, 14, and 16).

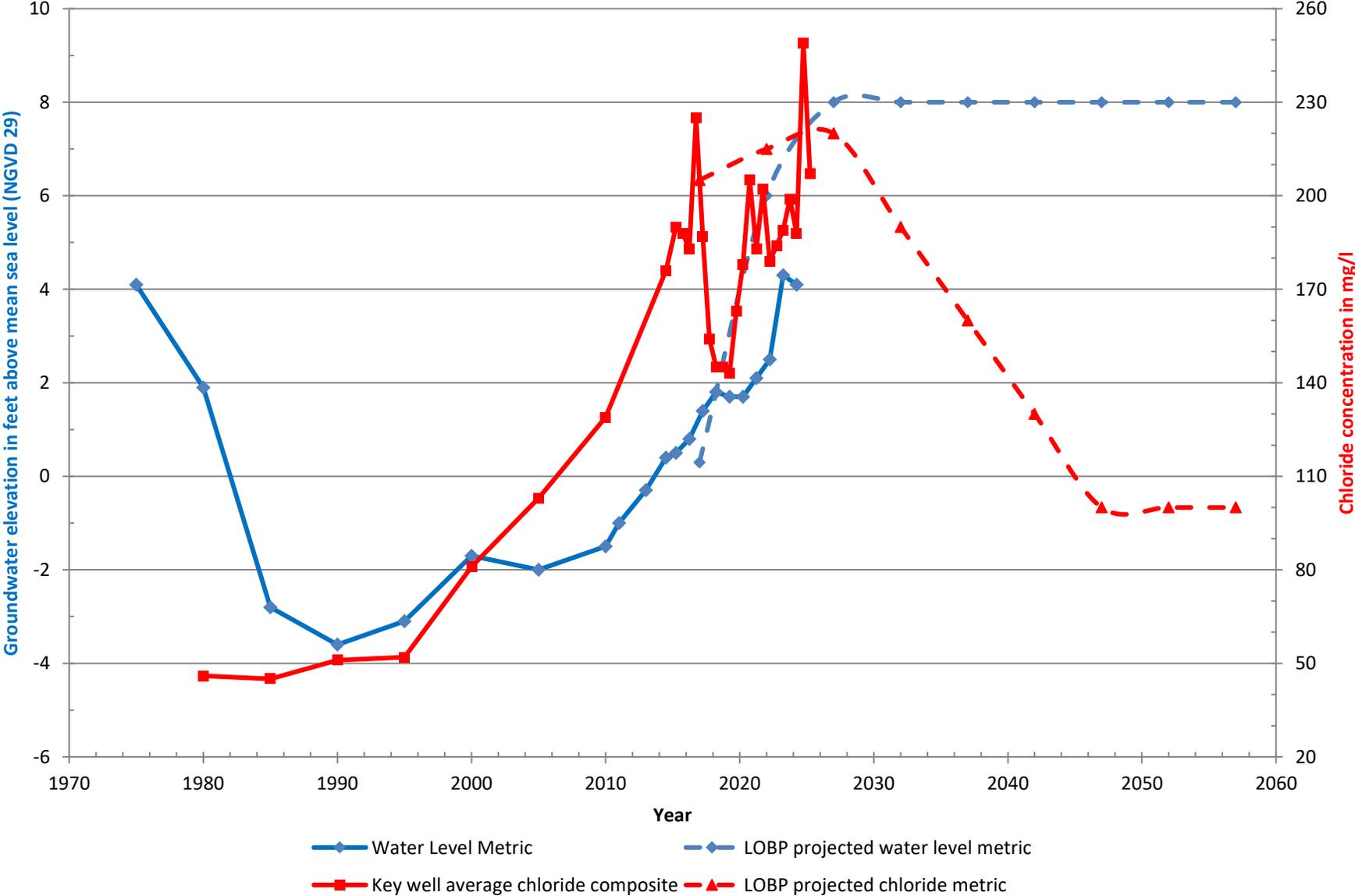
| Well | Previous Screen Depth | Modified Screen Depth |
|-------|-------------------------------------|-----------------------------------|
| LA 14 | 355-600 ft – Lower Aquifer Zone D/E | 551-591 ft – Lower Aquifer Zone E |
| LA 16 | 330-575 ft – Lower Aquifer Zone D/E | 469-509 ft – Lower Aquifer Zone E |

Attachments

1. Draft Spring 2025 Los Osos Basin Water Level Data, Lower Aquifer Water Quality Monitoring Results, and Updated Chloride Metric

SPRING 2025 DRAFT

Chloride and Water Level Metric Lower Aquifer



Note: Water level metric not updated for Spring 2025

SPRING 2025 DRAFT

| Table 5. Spring 2025 Lower Aquifer Water Level Metric Wells | | | | | |
|--|-------------------|---|---------|--------------------|-----------|
| Well ID | State Well Number | R. P. Elevation (feet NAVD 88) | Date | Water Level (feet) | |
| | | | | Depth | Elevation |
| LA2 | 30S/10E-11A2 | 16.07 | 4/17/25 | 10.88 | 5.19 |
| LA3 | 30S/10E-14B2 | 23.89 | 4/17/25 | 20.9 | 2.99 |
| LA11 | 30S/10E-12J1 | 8.43 | 4/2/25 | 3.14 | 5.29 |
| LA14 | 30S/11E-18L6 | 79.52* | 4/4/25 | 72.92 | 6.6 |
| LA16 | 30S/11E-18M1 | 108.74* | 4/4/25 | 105.21 | 3.53 |

*Old reference points, need to be updated after modification in February 2025

Los Osos BMC Water Quality Results - Lower Aquifer Monitoring

| Station ID | Well Name | Basin Plan Well ID | Aquifer Zone | Date | HCO3 | Total Hardness | Cond | pH | TDS | Cl | NO3-N | SO4 | Ca | Mg | K | Na |
|--------------|-------------------|--------------------|--------------|------------|------|----------------|----------|-----|-------|------|-------|------|------|------|------|------|
| | | | | | mg/l | mg/l | µmhos/cm | | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l |
| 30S/10E-11A2 | Sand Spit #1 East | LA2 | D | 3/14/2005 | 180 | 4600 | 16000 | 7.3 | 8900 | 5400 | ND | 430 | 770 | 640 | 20 | 1300 |
| | | | | 10/21/2015 | 150 | 6640 | 17700 | 7.4 | 13100 | 6300 | ND | 740 | 1030 | 990 | 31 | 1560 |
| | | | | 11/5/2020 | 220 | 6700 | 18000 | 7.7 | 15300 | 5890 | ND | 777 | 1140 | 936 | 38 | 1560 |
| 30S/10E-12J1 | MBO5 DWR Obs. | LA11 | E | 2/14/2005 | 350 | 370 | 1300 | 8.1 | 840 | 77 | ND | 190 | 51 | 58 | 6.1 | 110 |
| | | | | 11/20/2009 | 300 | 360 | 1150 | 7.5 | 732 | 83 | ND | 190 | 51 | 58 | 4.4 | 95 |
| | | | | 7/24/2014 | 360 | 489 | 1290 | 7.7 | 780 | 105 | ND | 212 | 69 | 77 | 5 | 88 |
| | | | | 4/22/2015 | 360 | 475 | 1290 | 7.8 | 810 | 112 | ND | 189 | 65 | 76 | 5 | 88 |
| | | | | 10/1/2015 | 250 | 486 | 1280 | 7.3 | 840 | 117 | ND | 188 | 68 | 77 | 4 | 85 |
| | | | | 4/20/2016 | 330 | 524 | 1370 | n/a | 840 | 151 | ND | 193 | 73 | 40 | 5 | 83 |
| | | | | 10/10/2016 | 350 | 497 | 1370 | 7.1 | 930 | 173 | ND | 189 | 69 | 79 | 4 | 81 |
| | | | | 4/11/2017 | 350 | 541 | 1380 | 7.5 | 880 | 167 | ND | 186 | 75 | 86 | 4 | 81 |
| | | | | 10/4/2017 | 300 | 543 | 1370 | 7 | 850 | 162 | ND | 191 | 76 | 86 | 5 | 90 |
| | | | | 4/10/2018 | 350 | 595 | 1390 | 7.6 | 820 | 173 | ND | 192 | 85 | 93 | 5 | 97 |
| | | | | 10/2/2018 | 350 | 497 | 1340 | 7.4 | 870 | 160 | ND | 160 | 69 | 79 | 3 | 87 |
| | | | | 4/9/2019 | 350 | 539 | 1430 | 7.4 | 860 | 196 | ND | 189 | 76 | 85 | 4 | 85 |
| | | | | 10/2/2019 | 250 | 290 | 1520 | 7.6 | 1000 | 187 | ND | 189 | 80 | 90 | 5 | 91 |
| | | | | 4/14/2020 | 350 | 667 | 1580 | 7 | 950 | 222 | ND | 187 | 81 | 113 | 5 | 83 |
| | | | | 10/1/2020 | 350 | 763 | 1650 | 7.1 | 1040 | 242 | ND | 183 | 85 | 134 | 5 | 88 |
| | | | | 4/5/2021 | 345 | 612 | 1630 | 7.6 | 1050 | 256 | ND | 192 | 88 | 96 | 5 | 91 |
| | | | | 10/6/2021 | 340 | 569 | 1710 | 7.3 | 1020 | 258 | ND | 176 | 83 | 88 | 5 | 82 |
| | | | | 4/13/2022 | 330 | 620 | 1800 | 7.3 | 1020 | 287 | ND | 183 | 90 | 96 | 4 | 87 |
| | | | | 10/6/2022 | 350 | 633 | 1720 | 7.7 | 1220 | 279 | ND | 195 | 89 | 100 | 5 | 93 |
| | | | | 4/13/2023 | 350 | 653 | 1840 | 7.2 | 1040 | 346 | ND | 188 | 92 | 103 | 5 | 89 |
| 10/4/2023 | 340 | 715 | 1910 | 7.4 | 1300 | 350 | ND | 188 | 102 | 112 | 5 | 93 | | | | |
| 4/2/2024 | 350 | 675 | 1870 | 7.6 | 1130 | 340 | ND | 194 | 94 | 107 | 5 | 91 | | | | |
| 10/2/2024 | 330 | 725 | 1980 | 7.8 | 1250 | 340 | ND | 189 | 101 | 115 | 5 | 92 | | | | |
| 4/2/2025 | 340 | 754 | 2060 | 7.6 | 1240 | 430 | ND | 193 | 106 | 119 | 5 | 94 | | | | |
| 30S/10E-13Bb | Lupine Zone D | LA41 | D | 11/7/2019 | 210 | 312 | 1310 | 7.7 | 760 | 136 | 3.1 | 188 | 69 | 34 | 4 | 140 |
| | | | | 4/8/2020 | 310 | 204 | 943 | 7.1 | 560 | 68 | 0.3 | 109 | 44 | 23 | 2 | 101 |
| | | | | 10/8/2020 | 340 | 263 | 920 | 7.1 | 490 | 52 | 0.1 | 89.4 | 51 | 33 | 2 | 72 |
| | | | | 4/14/2021 | 333 | 289 | 855 | 7.9 | 505 | 66 | ND | 86 | 53 | 38 | 2 | 60 |
| | | | | 10/11/2021 | 340 | 309 | 812 | 7.2 | 460 | 48 | ND | 80 | 58 | 40 | 2 | 64 |
| | | | | 4/12/2022 | 330 | 309 | 818 | 8.3 | 500 | 47 | ND | 67 | 58 | 40 | 2 | 58 |
| | | | | 10/11/2022 | 340 | 315 | 766 | 7.6 | 470 | 48 | ND | 71 | 62 | 39 | 2 | 57 |
| | | | | 4/11/2023 | 340 | 260 | 764 | 7.5 | 440 | 51 | ND | 58 | 48 | 34 | 2 | 47 |
| | | | | 10/23/2023 | 340 | 281 | 754 | 7.0 | 460 | 48 | ND | 57 | 50 | 38 | 2 | 50 |
| | | | | 4/9/2024 | 340 | 292 | 729 | 7.5 | 410 | 48 | ND | 52 | 51 | 40 | 2 | 51 |
| | | | | 10/10/2024 | 340 | 270 | 744 | 7.5 | 400 | 48 | ND | 49 | 47 | 37 | 2 | 47 |
| 4/9/2025 | 340 | 274 | 744 | 7.4 | 420 | 52 | ND | 48 | 47 | 37 | 2 | 46 | | | | |

Los Osos BMC Water Quality Results - Lower Aquifer Monitoring

| Station ID | Well Name | Basin Plan Well ID | Aquifer Zone | Date | HCO3 | Total Hardness | Cond | pH | TDS | Cl | NO3-N | SO4 | Ca | Mg | K | Na |
|--|---------------|--------------------|--------------|------------|------|----------------|----------|------|------|------|-------|------|------|------|------|------|
| | | | | | mg/l | mg/l | µmhos/cm | | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l |
| 30S/10E-13Ba | Lupine Zone E | LA40 | E | 11/6/2019 | 210 | 2090 | 5330 | 7 | 4750 | 1460 | 1.3 | 224 | 388 | 272 | 6 | 182 |
| | | | | 4/7/2020 | 240 | 3300 | 7360 | 7.6 | 6340 | 2190 | 0.3 | 202 | 569 | 458 | 7 | 203 |
| | | | | 10/7/2020 | 270 | 4100 | 8220 | 6.9 | 7930 | 2220 | ND | 192 | 720 | 560 | 8 | 217 |
| | | | | 4/15/2021 | 274 | 3760 | 8590 | 7.4 | 6760 | 2510 | ND | 217 | 558 | 576 | 7 | 210 |
| | | | | 10/13/2021 | 270 | 3540 | 8930 | 7.4 | 7430 | 2910 | ND | 201 | 544 | 530 | 6 | 190 |
| | | | | 4/14/2022 | 270 | 3780 | 8790 | 7.3 | 6790 | 2410 | ND | 187 | 523 | 601 | 6 | 178 |
| | | | | 10/12/2022 | 280 | 3860 | 8860 | 7.5 | 8340 | 2900 | ND | 221 | 569 | 594 | 7 | 186 |
| | | | | 4/12/2023 | 280 | 4570 | 9020 | 7.3 | 5870 | 2820 | ND | 232 | 575 | 762 | 7 | 198 |
| | | | | 10/24/2023 | 280 | 4450 | 9200 | 6.9 | 9610 | 3200 | ND | 259 | 764 | 619 | 6 | 201 |
| | | | | 4/8/2024 | 280 | 3760 | 9020 | 7.4 | 8040 | 3200 | ND | 251 | 650 | 519 | 6 | 197 |
| 10/9/2024 | 290 | 3690 | 9140 | 7.4 | 7670 | 2900 | ND | 255 | 658 | 499 | 7 | 248 | | | | |
| 4/7/2025 | 280 | 4160 | 8830 | 7.4 | 9070 | 2700 | ND | 249 | 693 | 590 | 6 | 211 | | | | |
| 30S/10E-13J1* Highlighted chloride values have been adjusted for wellbore leakage | GSWC Rosina | LA10 | D,E | 12/20/2004 | 72 | 230 | 720 | 7.1 | 410 | 150 | 1.6 | 14 | 38 | 33 | 1.4 | 29 |
| | | | | 1/14/2010 | 35 | 260 | 778 | 6 | 435 | 200 | 1.6 | 13 | 41 | 38 | 1.5 | 33 |
| | | | | 7/24/2014 | 80 | 418 | 1200 | 7.3 | 910 | 303 | 1.7 | 16 | 67 | 61 | 2 | 39 |
| | | | | 4/22/2015 | 80 | 431 | 1230 | 7.1 | 750 | 331 | 1.9 | 20 | 69 | 63 | 2 | 39 |
| | | | | 10/5/2015 | 70 | 460 | 1280 | 7 | 950 | 329 | 1.7 | 19 | 74 | 67 | 2 | 41 |
| | | | | 4/26/2016 | 80 | 412 | 1170 | 7.1 | 840 | 299 | 1.8 | 18 | 66 | 60 | 2 | 37 |
| | | | | 10/12/2016 | 60 | 509 | 1430 | 6.8 | 1100 | 389 | 1.8 | 26.7 | 82 | 74 | 2 | 44 |
| | | | | 4/10/2017 | 80 | 327 | 957 | 6.9 | 720 | 300 | 2.6 | 14.7 | 52 | 48 | 2 | 35 |
| | | | | 10/12/2017 | 80 | 245 | 702 | 6.9 | 510 | 220 | 3.4 | 12.5 | 39 | 36 | 2 | 33 |
| | | | | 4/24/2018 | 70 | 188 | 620 | 7.4 | 400 | 190 | 4.3 | 12.3 | 29 | 28 | 1 | 29 |
| | | | | 10/9/2018 | 70 | 265 | 730 | 7.1 | 450 | 210 | 3.2 | 12.7 | 42 | 39 | 2 | 34 |
| | | | | 4/15/2019 | 80 | 251 | 744 | 7 | 600 | 174 | 1.9 | 10.4 | 38 | 38 | 2 | 31 |
| | | | | 10/14/2019 | 80 | 332 | 961 | 7.1 | 830 | 229 | 2 | 12.7 | 54 | 48 | 1 | 33 |
| | | | | 4/21/2020 | 80 | 353 | 1310 | 6.4 | 970 | 250 | 2.1 | 14.2 | 59 | 50 | 2 | 32 |
| | | | | 10/7/2020 | 70 | 183 | 618 | 7.6 | 430 | 310 | 4.6 | 11.3 | 29 | 27 | 1 | 33 |
| | | | | 4/6/2021 | 81 | 405 | 1110 | 7.6 | 815 | 258 | 2.1 | 16.1 | 66 | 58 | 2 | 36 |
| | | | | 10/8/2021 | 80 | 413 | 1180 | 7.2 | 790 | 289 | 2.1 | 16.8 | 65 | 61 | 2 | 37 |
| | | | | 4/18/2022 | 70 | 192 | 612 | 7.1 | 420 | 220 | 5.8 | 14.9 | 29 | 29 | 1 | 37 |
| | | | | 12/5/2022 | 90 | 327 | 911 | 7.7 | 690 | 235 | 2 | 13.4 | 52 | 48 | 2 | 33 |
| | | | | 5/8/2023 | 80 | 303 | 892 | 7.1 | 690 | 211 | 2 | 12.5 | 49 | 44 | 2 | 51 |
| 10/10/2023 | 80 | 277 | 805 | 7.6 | 610 | 235 | 3.2 | 13.2 | 45 | 40 | 2 | 35 | | | | |
| 4/10/2024 | 70 | 230 | 688 | 7.2 | 480 | 211 | 3.2 | 11.4 | 36 | 34 | 2 | 31 | | | | |
| 10/9/2024 | 80 | 519 | 1440 | 7.2 | 1120 | 360 | 2 | 26.9 | 86 | 74 | 2 | 43 | | | | |
| 4/2/2025 | 80 | 312 | 894 | 7.6 | 750 | 210 | 2.2 | 14.2 | 51 | 45 | 2 | 33 | | | | |

Los Osos BMC Water Quality Results - Lower Aquifer Monitoring

| Station ID | Well Name | Basin Plan Well ID | Aquifer Zone | Date | HCO ₃ | Total Hardness | Cond | pH | TDS | Cl | NO ₃ -N | SO ₄ | Ca | Mg | K | Na |
|--|-------------|--------------------|--------------|------------|------------------|----------------|----------|------|------|------|--------------------|-----------------|------|------|------|------|
| | | | | | mg/l | mg/l | µmhos/cm | | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l |
| 30S/10E-13M2 4/1/2021 and 10/16/2024 results show Upper Aquifer influence due to reduced pumping | Howard East | LA31 | C,D | 11/22/2004 | 51 | 810 | 2900 | 7.3 | 1500 | 810 | 0.5 | 140 | 60 | 120 | 4.7 | 210 |
| | | | | 12/9/2009 | 55 | 1100 | 3740 | 7.1 | 2170 | 1100 | 0.5 | 220 | 160 | 160 | 4.8 | 370 |
| | | | | 8/4/2014 | 60 | 757 | 3340 | 7.1 | 2450 | 990 | 0.6 | 178 | 117 | 113 | 5 | 382 |
| | | | | 4/21/2015 | 60 | 739 | 3430 | 7.3 | 1930 | 950 | 0.6 | 178 | 117 | 113 | 5 | 382 |
| | | | | 10/6/2015 | 30 | 756 | 3370 | 7.1 | 2140 | 960 | 0.5 | 185 | 115 | 114 | 5 | 342 |
| | | | | 4/20/2016 | 50 | 726 | 3520 | 7.2 | 2190 | 941 | 0.7 | 179 | 113 | 108 | 5 | 400 |
| | | | | 10/19/2016 | 70 | 722 | 3420 | 7.4 | 2190 | 943 | 0.6 | 182 | 113 | 107 | 4 | 398 |
| | | | | 4/17/2017 | 60 | 733 | 3380 | 6.8 | 2060 | 907 | 0.6 | 178 | 114 | 109 | 4 | 413 |
| | | | | 10/5/2017 | 60 | 738 | 3350 | 7.5 | 2190 | 960 | 0.7 | 160 | 116 | 109 | 5 | 411 |
| | | | | 4/24/2018 | 70 | 664 | 3370 | 7.2 | 2020 | 946 | 0.6 | 2.8 | 103 | 99 | 4 | 367 |
| | | | | 10/17/2018 | 60 | 740 | 3400 | 7.3 | 2180 | 834 | 0.6 | 153 | 115 | 110 | 5 | 414 |
| | | | | 4/3/2019 | 70 | 640 | 3290 | 7.8 | 2010 | 940 | 0.6 | 179 | 103 | 93 | 4 | 341 |
| | | | | 10/3/2019 | 70 | 574 | 3120 | 7.4 | 2120 | 827 | 0.7 | 169 | 90 | 85 | 4 | 340 |
| | | | | 4/9/2020 | 70 | 519 | 2970 | 7.8 | 1740 | 738 | 0.6 | 152 | 86 | 74 | 4 | 258 |
| | | | | 10/1/2020 | 70 | 774 | 3330 | 8 | 2080 | 844 | 0.7 | 169 | 94 | 131 | 5 | 495 |
| | | | | 4/1/2021 | 218 | 187 | 1010 | 8.3 | 581 | 161 | 2.9 | 47 | 31 | 27 | 20 | 113 |
| | | | | 11/4/2021 | 70 | 509 | 2780 | 7.9 | 1700 | 629 | 0.6 | 124 | 77 | 77 | 4 | 305 |
| | | | | 5/11/2022 | 70 | 388 | 2550 | 7.6 | 1540 | 578 | 0.6 | 134 | 60 | 58 | 3 | 303 |
| | | | | 10/6/2022 | 70 | 506 | 2520 | 8.3 | 1840 | 636 | 0.7 | 145 | 79 | 75 | 4 | 268 |
| | | | | 4/4/2023 | 70 | 352 | 2180 | 7.1 | 1370 | 599 | 0.6 | 121 | 52 | 54 | 4 | 272 |
| 11/7/2023 | 70 | 425 | 2340 | 8.0 | 1440 | 600 | 0.7 | 131 | 68 | 62 | 3 | 247 | | | | |
| 4/18/2024 | 70 | 375 | 2060 | 8.2 | 1230 | 560 | 0.7 | 113 | 58 | 56 | 3 | 221 | | | | |
| 10/16/2024 | 80 | 193 | 1170 | 8.1 | 680 | 270 | 0.4 | 58.9 | 31 | 28 | 3 | 106 | | | | |
| 4/17/2025 | 90 | 203 | 1290 | 7.8 | 750 | 300 | 1 | 69.6 | 32 | 30 | 5 | 136 | | | | |

Los Osos BMC Water Quality Results - Lower Aquifer Monitoring

| Station ID | Well Name | Basin Plan Well ID | Aquifer Zone | Date | HCO3 | Total Hardness | Cond | pH | TDS | Cl | NO3-N | SO4 | Ca | Mg | K | Na |
|-------------|-----------|--------------------|--------------|------------|------|----------------|----------|------|------|------|-------|------|------|------|------|------|
| | | | | | mg/l | mg/l | µmhos/cm | | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l |
| 30S/10E-13N | S&T #5 | LA8 | D | 11/23/2004 | 42 | 80 | 390 | 6.9 | 200 | 67 | 5.9 | 9.2 | 13 | 12 | 1.7 | 38 |
| | | | | 11/19/2009 | 41 | 89 | 386 | 6.8 | 267 | 73 | 6.1 | 11 | 15 | 13 | 1.4 | 38 |
| | | | | 7/24/2014 | 50 | 100 | 438 | 7.4 | 270 | 76 | 7 | 10 | 17 | 14 | 2 | 38 |
| | | | | 4/21/2015 | 50 | 98 | 445 | 6.9 | 280 | 77 | 7.7 | 11 | 16 | 14 | 2 | 38 |
| | | | | 10/6/2015 | 40 | 98 | 422 | 7.2 | 310 | 75 | 6.8 | 10 | 16 | 14 | 1 | 38 |
| | | | | 4/20/2016 | 20 | 97.5 | 446 | 7 | 320 | 76 | 7.2 | 12 | 16 | 14 | 1 | 38 |
| | | | | 10/13/2016 | 50 | 104 | 470 | 8 | 320 | 79 | 7.2 | 12 | 17 | 15 | 1 | 40 |
| | | | | 4/11/2017 | 50 | 100 | 434 | 7.4 | 270 | 77 | 7.3 | 12.4 | 17 | 14 | 1 | 38 |
| | | | | 10/2/2017 | 30 | 95 | 438 | 7.2 | 290 | 78 | 7.6 | 13.2 | 15 | 14 | 1 | 36 |
| | | | | 4/11/2018 | 60 | 104 | 440 | 7 | 260 | 79 | 7.9 | 13.5 | 17 | 15 | 1 | 39 |
| | | | | 10/3/2018 | 60 | 107 | 430 | 6.5 | 340 | 66 | 6.7 | 12.9 | 18 | 15 | 2 | 40 |
| | | | | 4/3/2019 | 50 | 100 | 434 | 6.3 | 250 | 75 | 7.3 | 12.7 | 17 | 14 | 1 | 36 |
| | | | | 10/7/2019 | 60 | 95 | 446 | 7.6 | 250 | 77 | 7.7 | 14.4 | 15 | 14 | 1 | 37 |
| | | | | 4/13/2020 | 60 | 104 | 443 | 8 | 300 | 75 | 7.4 | 14.5 | 17 | 15 | 2 | 37 |
| | | | | 10/1/2020 | 60 | 108 | 464 | 7.9 | 300 | 76 | 7.5 | 14.4 | 17 | 16 | 1 | 40 |
| | | | | 4/6/2021 | 63 | 103 | 438 | 7.4 | 302 | 78 | 7.8 | 13.1 | 17 | 15 | 1.4 | 38 |
| | | | | 10/8/2021 | 60 | 108 | 443 | 7.8 | 290 | 77 | 7.5 | 13.3 | 17 | 16 | 2 | 41 |
| | | | | 4/13/2022 | 60 | 106 | 449 | 8.1 | 270 | 76 | 7.3 | 12.8 | 16 | 16 | 1 | 40 |
| | | | | 10/4/2022 | 60 | 108 | 432 | 7.4 | 280 | 77 | 6.6 | 13.1 | 17 | 16 | 2 | 38 |
| | | | | 4/13/2023 | 60 | 139 | 443 | 8.0 | 250 | 80 | 7.3 | 13.2 | 21 | 21 | 1 | 41 |
| 10/4/2023 | 60 | 108 | 455 | 7.6 | 310 | 81 | 7.3 | 13.1 | 17 | 16 | 2 | 40 | | | | |
| 4/4/2024 | 60 | 106 | 452 | 7.7 | 280 | 85 | 7.5 | 14.1 | 16 | 16 | 2 | 37 | | | | |
| 10/10/2024 | 60 | 104 | 455 | 7.9 | 280 | 84 | 7.4 | 13.9 | 17 | 15 | 2 | 39 | | | | |
| 4/1/2025 | 60 | 108 | 452 | 7.9 | 270 | 88 | 6.9 | 15.5 | 17 | 16 | 2 | 40 | | | | |

Los Osos BMC Water Quality Results - Lower Aquifer Monitoring

| Station ID | Well Name | Basin Plan Well ID | Aquifer Zone | Date | HCO3 | Total Hardness | Cond | pH | TDS | Cl | NO3-N | SO4 | Ca | Mg | K | Na | | | |
|--------------|---------------|--------------------|--------------|------------|----------------------|----------------|----------|------|------|------|-------|------|------|------|------|------|--|--|--|
| | | | | | mg/l | mg/l | µmhos/cm | | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | | | |
| 30S/10E-24C1 | GSWC Cabrillo | LA9 | D | 12/20/2004 | 64 | 130 | 610 | 7 | 310 | 110 | 4.5 | 19 | 22 | 19 | 1.6 | 50 | | | |
| | | | | 11/20/2009 | 60 | 150 | 611 | 7.1 | 347 | 130 | 4.1 | 22 | 23 | 22 | 1.6 | 52 | | | |
| | | | | 7/24/2014 | 40 | 69 | 339 | 7.6 | 240 | 46 | 8.4 | 6 | 11 | 10 | 1 | 32 | | | |
| | | | | 4/22/2015 | 70 | 117 | 530 | 7.3 | 320 | 95 | 5.5 | 16 | 19 | 17 | 2 | 45 | | | |
| | | | | 10/5/2015 | 50 | 75 | 349 | 7.6 | 270 | 50 | 7.6 | 7 | 12 | 11 | 1 | 34 | | | |
| | | | | 4/26/2016 | 70 | 115 | 499 | 7 | 300 | 90 | 5.6 | 16 | 18 | 17 | 2 | 44 | | | |
| | | | | 10/12/2016 | 70 | 111 | 506 | 7.1 | 320 | 93 | 5.5 | 15.1 | 18 | 16 | 1 | 44 | | | |
| | | | | 4/10/2017 | 70 | 111 | 490 | 7 | 310 | 89 | 5.7 | 15.9 | 18 | 16 | 1 | 43 | | | |
| | | | | 10/12/2017 | 70 | 117 | 484 | 7 | 270 | 89 | 6 | 16.3 | 19 | 17 | 2 | 46 | | | |
| | | | | 4/24/2018 | 70 | 115 | 486 | 7.8 | 300 | 90 | 6.2 | 16.7 | 18 | 17 | 1 | 43 | | | |
| | | | | 10/9/2018 | 60 | 135 | 477 | 6.9 | 280 | 76 | 5.8 | 17.2 | 21 | 20 | 2 | 50 | | | |
| | | | | 4/15/2019 | 70 | 112 | 488 | 7.1 | 310 | 92 | 5.7 | 15.6 | 17 | 17 | 2 | 45 | | | |
| | | | | 10/14/2019 | no sample (off-line) | | | | | | | | | | | | | | |
| | | | | 4/21/2020 | 300 | 75.2 | 674 | 6.7 | 370 | 37 | 0.2 | 28.4 | 3 | 35 | 2 | 42 | | | |
| | | | | 10/7/2020 | 60 | 102 | 460 | 7.4 | 270 | 75 | 6.6 | 13.1 | 16 | 15 | 1 | 40 | | | |
| | | | | 4/6/2021 | 63 | 98.6 | 443 | 7.9 | 287 | 78 | 6.8 | 12.2 | 16 | 15 | 1 | 39 | | | |
| | | | | 10/8/2021 | 60 | 112 | 490 | 7.7 | 280 | 86 | 6.4 | 16 | 17 | 17 | 2 | 44 | | | |
| | | | | 4/18/2022 | 70 | 126 | 533 | 7.2 | 330 | 93 | 6.2 | 16.2 | 19 | 19 | 2 | 46 | | | |
| | | | | 10/19/2022 | 70 | 126 | 502 | 7.4 | 310 | 93 | 6.5 | 15.6 | 19 | 19 | 2 | 48 | | | |
| | | | | 4/11/2023 | 80 | 117 | 518 | 7.5 | 330 | 98 | 6.8 | 17.3 | 19 | 17 | 1 | 43 | | | |
| 10/10/2023 | 70 | 128 | 545 | 7.6 | 380 | 96 | 6.8 | 17.4 | 20 | 19 | 2 | 47 | | | | | | | |
| 4/10/2024 | 70 | 128 | 535 | 7.1 | 330 | 98 | 7 | 17.9 | 20 | 19 | 2 | 47 | | | | | | | |
| 10/9/2024 | 80 | 131 | 559 | 7.4 | 380 | 110 | 7.1 | 18.5 | 21 | 19 | 2 | 49 | | | | | | | |
| 4/2/2025 | 70 | 131 | 549 | 7.6 | 350 | 100 | 7 | 19.1 | 21 | 19 | 2 | 48 | | | | | | | |

Los Osos BMC Water Quality Results - Lower Aquifer Monitoring

| Station ID | Well Name | Basin Plan Well ID | Aquifer Zone | Date | HCO3 | Total Hardness | Cond | pH | TDS | Cl | NO3-N | SO4 | Ca | Mg | K | Na |
|-------------|---------------|--------------------|--------------|------------|------|----------------|----------|------|------|------|-------|------|------|------|------|----|
| | | | | | mg/l | mg/l | µmhos/cm | | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | |
| 30S/11E-7Q3 | LOCSD 8th St. | LA12 | D | 11/18/2004 | 250 | 270 | 790 | 7.5 | 410 | 73 | ND | 39 | 44 | 40 | 2.3 | 48 |
| | | | | 11/19/2009 | 220 | 290 | 782 | 7.4 | 465 | 92 | ND | 46 | 46 | 42 | 1.9 | 53 |
| | | | | 7/23/2014 | 290 | 303 | 876 | 7.6 | 460 | 91 | ND | 43 | 49 | 44 | 2 | 54 |
| | | | | 4/21/2015 | 290 | 305 | 897 | 7.7 | 500 | 101 | ND | 55 | 48 | 45 | 2 | 59 |
| | | | | 10/6/2015 | 280 | 298 | 828 | 7.4 | 490 | 91 | ND | 46 | 47 | 44 | 2 | 55 |
| | | | | 4/20/2016 | 190 | 307 | 907 | 7.7 | 520 | 91 | ND | 49 | 49 | 45 | 2 | 54 |
| | | | | 10/11/2016 | 280 | 278 | 827 | 4.9 | 490 | 93 | ND | 46.2 | 44 | 41 | 2 | 52 |
| | | | | 4/10/2017 | 300 | 294 | 839 | 7.3 | 480 | 91 | ND | 49.5 | 47 | 43 | 2 | 54 |
| | | | | 10/4/2017 | 220 | 305 | 826 | 6.5 | 470 | 92 | ND | 45 | 48 | 45 | 2 | 56 |
| | | | | 4/10/2018 | 300 | 319 | 814 | 7.7 | 440 | 93 | ND | 46.2 | 52 | 46 | 2 | 56 |
| | | | | 10/2/2018 | 290 | 283 | 822 | 7.3 | 470 | 78 | ND | 50.1 | 46 | 41 | 1 | 53 |
| | | | | 4/9/2019 | 300 | 301 | 844 | 7.5 | 480 | 94 | ND | 49.7 | 48 | 44 | 2 | 53 |
| | | | | 10/2/2019 | 290 | 312 | 877 | 8 | 530 | 91 | ND | 50.9 | 49 | 46 | 2 | 56 |
| | | | | 4/16/2020 | 310 | 301 | 883 | 7.8 | 500 | 94 | ND | 54.7 | 48 | 44 | 2 | 52 |
| | | | | 10/5/2020 | 300 | 321 | 891 | 7.9 | 510 | 89 | ND | 49.6 | 51 | 47 | 2 | 57 |
| | | | | 4/5/2021 | 305 | 297 | 849 | 7.7 | 504 | 94 | ND | 54.1 | 48 | 43 | 2 | 54 |
| | | | | 10/6/2021 | 300 | 283 | 874 | 7.5 | 510 | 95 | ND | 55 | 46 | 41 | 2 | 51 |
| | | | | 4/13/2022 | 300 | 276 | 879 | 7.4 | 490 | 94 | ND | 51.5 | 43 | 41 | 2 | 50 |
| | | | | 10/4/2022 | 310 | 285 | 839 | 7.9 | 500 | 94 | ND | 51.5 | 45 | 42 | 2 | 52 |
| | | | | 4/5/2023 | 310 | 317 | 842 | 7.1 | 490 | 98 | ND | 51.9 | 48 | 48 | 3 | 72 |
| 10/11/2023 | 310 | 298 | 849 | 7.4 | 520 | 95 | ND | 52.1 | 47 | 44 | 2 | 53 | | | | |
| 4/1/2024 | 310 | 305 | 849 | 7.9 | 480 | 95 | ND | 51.3 | 48 | 45 | 2 | 55 | | | | |
| 10/1/2024 | 310 | 298 | 860 | 7.7 | 550 | 100 | ND | 54.7 | 47 | 44 | 2 | 52 | | | | |
| 4/1/2025 | 320 | 305 | 848 | 7.8 | 470 | 98 | ND | 56.3 | 49 | 45 | 2 | 55 | | | | |

Los Osos BMC Water Quality Results - Lower Aquifer Monitoring

| Station ID | Well Name | Basin Plan Well ID | Aquifer Zone | Date | HCO3 | Total Hardness | Cond | pH | TDS | Cl | NO3-N | SO4 | Ca | Mg | K | Na |
|--------------|---------------------|--------------------|--------------|------------|------|----------------|----------|------|------|------|-------|------|------|------|------|------|
| | | | | | mg/l | mg/l | µmhos/cm | | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l |
| 30S/11E-17E8 | So. Bay Obs. Middle | LA22 | D | 1/14/2005 | 150 | 150 | 440 | 7.5 | 290 | 34 | 2.2 | 11 | 24 | 22 | 1.4 | 28 |
| | | | | 11/20/2009 | 120 | 160 | 455 | 7.3 | 255 | 42 | 4.3 | 12 | 25 | 23 | 1.3 | 29 |
| | | | | 7/23/2014 | 150 | 166 | 500 | 7.6 | 270 | 43 | 6.3 | 10 | 27 | 24 | 2 | 28 |
| | | | | 4/21/2015 | 150 | 157 | 481 | 7.6 | 270 | 49 | 7.1 | 13 | 25 | 23 | 1 | 28 |
| | | | | 10/1/2015 | 120 | 164 | 475 | 7.4 | 290 | 44 | 6.6 | 10 | 26 | 24 | 1 | 28 |
| | | | | 4/19/2016 | 150 | 164 | 476 | 6.9 | 290 | 45 | 6.9 | 12 | 26 | 24 | 1 | 29 |
| | | | | 10/13/2016 | 140 | 161 | 521 | 7.3 | 290 | 46 | 6.9 | 11.9 | 25 | 24 | 1 | 29 |
| | | | | 4/13/2017 | 150 | 164 | 466 | 7.3 | 300 | 46 | 6.7 | 13.2 | 26 | 24 | 1 | 29 |
| | | | | 10/11/2017 | 150 | 168 | 476 | 7.7 | 260 | 47 | 7.2 | 14 | 26 | 25 | 1 | 29 |
| | | | | 4/16/2018 | 150 | 165 | 473 | 6.4 | 310 | 47 | 6.7 | 14.2 | 25 | 25 | 1 | 29 |
| | | | | 10/10/2018 | 150 | 160 | 471 | 7.5 | 250 | 43 | 6.1 | 15 | 26 | 23 | 1 | 28 |
| | | | | 4/10/2019 | 180 | 153 | 466 | 7.2 | 290 | 46 | 5.8 | 13.6 | 25 | 22 | 1 | 28 |
| | | | | 10/9/2019 | 150 | 155 | 485 | 7.3 | 270 | 49 | 7 | 14.9 | 24 | 23 | 1 | 28 |
| | | | | 4/14/2020 | 160 | 164 | 482 | 8 | 280 | 48 | 6.3 | 14.9 | 26 | 24 | 1 | 27 |
| | | | | 10/6/2020 | 160 | 181 | 506 | 7.5 | 340 | 47 | 6.7 | 14.7 | 28 | 27 | 1 | 30 |
| | | | | 4/8/2021 | 159 | 154 | 470 | 7.5 | 329 | 46 | 5.8 | 12.5 | 24 | 23 | 1 | 27 |
| | | | | 10/19/2021 | 170 | 181 | 480 | 7.4 | 310 | 41 | 5.8 | 14.9 | 28 | 27 | 1 | 29 |
| | | | | 4/20/2022 | 160 | 178 | 518 | 7.6 | 320 | 43 | 7.4 | 14.6 | 27 | 27 | 1 | 29 |
| | | | | 10/17/2022 | 180 | 213 | 485 | 7.4 | 300 | 45 | 7 | 16.5 | 31 | 33 | 2 | 32 |
| | | | | 4/6/2023 | 200 | 176 | 496 | 7.7 | 300 | 41 | 5.5 | 14.9 | 26 | 27 | 1 | 26 |
| 10/17/2023 | 170 | 169 | 465 | 7.0 | 290 | 45 | 6.1 | 13.7 | 25 | 26 | 2 | 28 | | | | |
| 4/3/2024 | 170 | 159 | 465 | 7.6 | 250 | 45 | 4.9 | 14.4 | 24 | 24 | 1 | 28 | | | | |
| 10/7/2024 | 160 | 178 | 509 | 7.6 | 310 | 49 | 8.9 | 16.2 | 27 | 27 | 2 | 29 | | | | |
| 4/16/2025 | 170 | 161 | 473 | 7.4 | 280 | 47 | 6 | 15.2 | 25 | 24 | 1 | 28 | | | | |

Los Osos BMC Water Quality Results - Lower Aquifer Monitoring

| Station ID | Well Name | Basin Plan Well ID | Aquifer Zone | Date | HCO3 | Total Hardness | Cond | pH | TDS | Cl | NO3-N | SO4 | Ca | Mg | K | Na |
|---------------|-----------------|--------------------|--------------|------------|------|----------------|----------|------|------|------|-------|------|------|------|------|------|
| | | | | | mg/l | mg/l | µmhos/cm | | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l |
| 30S/11E-17N10 | GSWC So. Bay #1 | LA20 | C,D,E | Jan 2003 | 250 | -- | 510 | 7.1 | 290 | 37 | ND | 21 | 41 | 25 | 1.3 | 35 |
| | | | | 11/20/2009 | 230 | 220 | 638 | 7.3 | 357 | 41 | 0.5 | 30 | 35 | 33 | 1.7 | 37 |
| | | | | 7/24/2014 | 280 | 232 | 646 | 7.7 | 370 | 37 | 0.5 | 24 | 37 | 34 | 2 | 41 |
| | | | | 4/22/2015 | 290 | 234 | 653 | 7.4 | 360 | 43 | 0.6 | 27 | 36 | 35 | 2 | 42 |
| | | | | 10/5/2015 | 280 | 227 | 614 | 7.2 | 370 | 38 | 0.5 | 23 | 35 | 34 | 2 | 41 |
| | | | | 4/26/2016 | 230 | 227 | 629 | 7.1 | 360 | 39 | 0.6 | 27 | 35 | 34 | 2 | 40 |
| | | | | 10/12/2016 | 290 | 221 | 631 | 7 | 370 | 40 | 0.6 | 25.2 | 34 | 33 | 2 | 40 |
| | | | | 4/10/2017 | 280 | 227 | 624 | 7.2 | 380 | 39 | 0.6 | 26.7 | 35 | 34 | 2 | 40 |
| | | | | 10/12/2017 | 260 | 240 | 583 | 6.6 | 320 | 41 | 0.7 | 27.9 | 37 | 36 | 2 | 43 |
| | | | | 4/24/2018 | 200 | 166 | 515 | 7.4 | 330 | 43 | 3.2 | 23.2 | 27 | 24 | 2 | 31 |
| | | | | 10/9/2018 | 290 | 273 | 632 | 7.2 | 340 | 38 | 0.6 | 29.2 | 42 | 41 | 3 | 47 |
| | | | | 4/15/2019 | 200 | 181 | 559 | 7.4 | 310 | 42 | 3.1 | 21.7 | 28 | 27 | 2 | 34 |
| | | | | 10/14/2019 | 290 | 221 | 626 | 7.2 | 380 | 41 | 0.7 | 29 | 34 | 33 | 2 | 40 |
| | | | | 4/21/2020 | 300 | 230 | 705 | 7 | 400 | 50 | 0.7 | 26.9 | 36 | 34 | 2 | 42 |
| | | | | 10/7/2020 | 290 | 227 | 654 | 7.5 | 350 | 40 | 0.7 | 27 | 35 | 34 | 2 | 42 |
| | | | | 4/6/2021 | 204 | 178 | 529 | 7.9 | 329 | 43 | 3 | 21.1 | 29 | 26 | 2 | 33 |
| | | | | 10/7/2021 | 290 | 245 | 633 | 6.8 | 340 | 40 | 0.7 | 27.8 | 37 | 37 | 2 | 43 |
| | | | | 4/18/2022 | 280 | 242 | 636 | 7.4 | 360 | 39 | 0.7 | 26.6 | 36 | 37 | 2 | 42 |
| | | | | 10/19/2022 | 300 | 245 | 616 | 7.6 | 330 | 40 | 0.7 | 26.4 | 37 | 37 | 2 | 43 |
| | | | | 4/11/2023 | 200 | 173 | 515 | 7.8 | 290 | 43 | 3.4 | 21.8 | 28 | 25 | 2 | 33 |
| 10/10/2023 | 220 | 193 | 538 | 7.7 | 320 | 43 | 3 | 23.4 | 31 | 28 | 2 | 36 | | | | |
| 4/10/2024 | 300 | 231 | 610 | 7.3 | 330 | 40 | 0.7 | 27.3 | 35 | 35 | 2 | 40 | | | | |
| 4/2/2025 | 270 | 223 | 593 | 7.5 | 310 | 44 | 1.4 | 26.4 | 35 | 33 | 2 | 39 | | | | |

Los Osos BMC Water Quality Results - Lower Aquifer Monitoring

| Station ID | Well Name | Basin Plan Well ID | Aquifer Zone | Date | HCO3 | Total Hardness | Cond | pH | TDS | Cl | NO3-N | SO4 | Ca | Mg | K | Na |
|--------------|---------------------------|--------------------|--------------|------------|------|----------------|----------|------|------|------|-------|------|------|------|------|----|
| | | | | | mg/l | mg/l | µmhos/cm | | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | |
| 30S/11E-18K8 | 10th St. Obs. East (Deep) | LA18 | E | 1/19/2005 | 260 | 290 | 650 | 7.5 | 370 | 33 | ND | 38 | 62 | 33 | 2.5 | 28 |
| | | | | 11/20/2009 | 230 | 220 | 620 | 7.5 | 378 | 32 | ND | 40 | 51 | 24 | 1.8 | 23 |
| | | | | 7/24/2014 | 290 | 271 | 647 | 7.5 | 380 | 28 | ND | 34 | 56 | 32 | 2 | 27 |
| | | | | 4/21/2015 | 290 | 265 | 634 | 7.7 | 400 | 33 | ND | 39 | 55 | 31 | 2 | 27 |
| | | | | 10/19/2015 | 230 | 256 | 621 | 7.3 | 370 | 29 | ND | 33 | 53 | 30 | 2 | 26 |
| | | | | 4/20/2016 | 190 | 265 | 700 | 7.5 | 390 | 31 | ND | 38 | 55 | 31 | 2 | 26 |
| | | | | 10/18/2016 | 290 | 256 | 615 | 6.8 | 370 | 31 | ND | 35.9 | 53 | 30 | 2 | 26 |
| | | | | 4/12/2017 | 290 | 274 | 616 | 7.5 | 450 | 31 | ND | 38 | 57 | 32 | 2 | 27 |
| | | | | 10/10/2017 | 220 | 271 | 619 | 7.8 | 350 | 30 | ND | 35.5 | 56 | 32 | 2 | 27 |
| | | | | 4/17/2018 | 290 | 260 | 625 | 7.3 | 390 | 33 | ND | 39.9 | 53 | 31 | 2 | 27 |
| | | | | 10/10/2018 | 290 | 254 | 608 | 7.5 | 360 | 31 | ND | 39.8 | 54 | 29 | 2 | 26 |
| | | | | 4/10/2019 | 290 | 245 | 620 | 7.6 | 380 | 32 | ND | 37.4 | 52 | 28 | 2 | 25 |
| | | | | 10/9/2019 | 290 | 253 | 647 | 7.9 | 390 | 33 | ND | 40.5 | 52 | 30 | 2 | 26 |
| | | | | 4/14/2020 | 290 | 269 | 629 | 7.5 | 400 | 33 | ND | 40.2 | 55 | 32 | 2 | 26 |
| | | | | 10/22/2020 | 300 | 247 | 669 | 7.5 | 370 | 32 | ND | 38.2 | 51 | 29 | 3 | 26 |
| | | | | 4/12/2021 | 298 | 267 | 621 | 7.6 | 389 | 32 | ND | 41.2 | 54 | 32 | 2 | 27 |
| | | | | 10/19/2021 | 300 | 287 | 657 | 7.4 | 400 | 32 | ND | 38.4 | 59 | 34 | 2 | 28 |
| | | | | 4/15/2022 | 290 | 257 | 638 | 8.3 | 420 | 31 | ND | 36.5 | 52 | 31 | 2 | 25 |
| | | | | 10/10/2022 | 310 | 278 | 613 | 8.0 | 400 | 33 | ND | 39.3 | 57 | 33 | 2 | 29 |
| | | | | 4/6/2023 | 310 | 252 | 623 | 7.9 | 410 | 32 | ND | 38.7 | 50 | 31 | 2 | 26 |
| 10/17/2023 | 310 | 264 | 622 | 7.1 | 430 | 31 | ND | 37.7 | 53 | 32 | 2 | 26 | | | | |
| 4/3/2024 | 310 | 260 | 628 | 7.6 | 410 | 33 | ND | 40 | 53 | 31 | 2 | 27 | | | | |
| 10/3/2024 | 300 | 257 | 638 | 7.4 | 400 | 36 | 0.6 | 45.4 | 55 | 29 | 2 | 29 | | | | |
| 4/3/2025 | 270 | 265 | 667 | 7.7 | 420 | 64 | ND | 60.9 | 55 | 31 | 2 | 35 | | | | |

Los Osos BMC Water Quality Results - Lower Aquifer Monitoring

| Station ID | Well Name | Basin Plan Well ID | Aquifer Zone | Date | HCO3 | Total Hardness | Cond | pH | TDS | Cl | NO3-N | SO4 | Ca | Mg | K | Na |
|--------------|----------------|--------------------|--------------|------------|------|----------------|----------|------|------|------|-------|------|------|------|------|------|
| | | | | | mg/l | mg/l | µmhos/cm | | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l |
| 30S/11E-18K9 | LOCSD 10th St. | LA32 | C,D | May 2002 | 250 | -- | 550 | 6.9 | 320 | 37 | 0.2 | 26 | 31 | 32 | -- | 39 |
| | | | | 11/20/2009 | 180 | 160 | 539 | 7.2 | 307 | 36 | 1 | 27 | 27 | 24 | 1.3 | 32 |
| | | | | 7/23/2014 | 220 | 190 | 546 | 7.7 | 300 | 32 | 1 | 20 | 30 | 28 | 1 | 35 |
| | | | | 4/21/2015 | 190 | 108 | 504 | 7.6 | 270 | 38 | 1.6 | 20 | 17 | 16 | 1 | 27 |
| | | | | 10/6/2015 | 50 | 62 | 248 | 7.2 | 190 | 31 | 5.9 | 3 | 10 | 9 | ND | 21 |
| | | | | 4/20/2016 | 130 | 121 | 382 | 7.5 | 220 | 32 | 3.3 | 12 | 19 | 18 | 1 | 27 |
| | | | | 10/11/2016 | 200 | 168 | 511 | 6.6 | 270 | 36 | 1.2 | 21.5 | 26 | 25 | 1 | 34 |
| | | | | 4/10/2017 | 190 | 155 | 461 | 7.3 | 270 | 35 | 1.9 | 19.1 | 24 | 23 | 1 | 31 |
| | | | | 10/9/2017 | 200 | 168 | 493 | 7.6 | 270 | 36 | 1.4 | 23.1 | 26 | 25 | 1 | 33 |
| | | | | 4/10/2018 | 50 | 75.2 | 256 | 7.7 | 150 | 35 | 6.5 | 28.6 | 12 | 11 | ND | 23 |
| | | | | 10/2/2018 | 210 | 168 | 492 | 7.3 | 270 | 36 | 1.3 | 22 | 26 | 25 | ND | 33 |
| | | | | 4/9/2019 | 200 | 172 | 474 | 7.6 | 270 | 34 | 1.6 | 21.5 | 26 | 26 | 1 | 33 |
| | | | | 10/2/2019 | 200 | 185 | 531 | 7.4 | 310 | 36 | 1.4 | 24.7 | 28 | 28 | 1 | 35 |
| | | | | 4/16/2020 | 60 | 72.7 | 272 | 8.1 | 190 | 35 | 6 | 5.4 | 11 | 11 | ND | 20 |
| | | | | 10/6/2020 | 60 | 68.6 | 246 | 8 | 180 | 30 | 4 | 4.9 | 11 | 10 | ND | 21 |
| | | | | 4/5/2021 | 143 | 128 | 390 | 7.8 | 247 | 34 | 2.1 | 15.7 | 20 | 19 | 1 | 27 |
| | | | | 10/6/2021 | 60 | 68.6 | 255 | 7.7 | 150 | 30 | 3.9 | 5.7 | 11 | 10 | ND | 20 |
| | | | | 4/13/2022 | 70 | 66.1 | 262 | 7.6 | 150 | 30 | 3.8 | 5.2 | 10 | 10 | ND | 20 |
| | | | | 10/6/2022 | 200 | 211 | 461 | 7.7 | 260 | 38 | 1.4 | 23.5 | 32 | 32 | 2 | 58 |
| | | | | 4/5/2023 | 190 | 169 | 465 | 7.2 | 290 | 38 | 1.4 | 22.8 | 25 | 26 | 1 | 33 |
| 10/10/2023 | 200 | 168 | 482 | 7.6 | 290 | 38 | 1.3 | 21.4 | 26 | 25 | 2 | 32 | | | | |
| 4/1/2024 | 200 | 172 | 487 | 7.7 | 260 | 41 | 1.4 | 23 | 26 | 26 | 2 | 32 | | | | |
| 10/1/2024 | 200 | 161 | 493 | 7.6 | 300 | 43 | 1.4 | 22.7 | 25 | 24 | 1 | 30 | | | | |
| 4/1/2025 | 200 | 178 | 500 | 7.7 | 280 | 50 | 1.4 | 24 | 27 | 27 | 1 | 33 | | | | |

Los Osos BMC Water Quality Results - Lower Aquifer Monitoring

| Station ID | Well Name | Basin Plan Well ID | Aquifer Zone | Date | HCO3 | Total Hardness | Cond | pH | TDS | Cl | NO3-N | SO4 | Ca | Mg | K | Na |
|----------------|--------------------|--------------------|--------------|------------|------|----------------|----------|------|------|------|-------|------|------|------|------|------|
| | | | | | mg/l | mg/l | µmhos/cm | | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l |
| 30S/11E-18K | GSWC Los Olivos #5 | LA39 | D | 4/15/2019 | 290 | 230 | 619 | 8.1 | 350 | 38 | ND | 27.4 | 33 | 36 | 2 | 41 |
| | | | | 10/14/2019 | 300 | 225 | 628 | 7.2 | 370 | 37 | ND | 28.6 | 34 | 34 | 1 | 41 |
| | | | | 4/21/2020 | 300 | 236 | 674 | 6.9 | 370 | 37 | 0.2 | 28.4 | 37 | 35 | 2 | 42 |
| | | | | 10/7/2020 | 300 | 227 | 657 | 7.4 | 360 | 37 | ND | 28.2 | 35 | 34 | 2 | 43 |
| | | | | 4/6/2021 | 301 | 226 | 629 | 8.0 | 382 | 38 | ND | 25.8 | 34 | 34 | 2 | 40 |
| | | | | 10/8/2021 | 300 | 253 | 638 | 7.4 | 360 | 37 | ND | 29.3 | 37 | 39 | 2 | 45 |
| | | | | 4/18/2022 | 250 | 209 | 561 | 7.6 | 330 | 34 | ND | 17.8 | 31 | 32 | 2 | 34 |
| | | | | 10/19/2022 | 310 | 236 | 617 | 7.6 | 330 | 37 | ND | 28 | 37 | 35 | 2 | 44 |
| | | | | 4/11/2023 | 310 | 214 | 626 | 7.5 | 340 | 38 | ND | 30.1 | 33 | 32 | 1 | 40 |
| | | | | 10/10/2023 | 310 | 245 | 632 | 7.4 | 370 | 37 | ND | 29.4 | 37 | 37 | 2 | 42 |
| | | | | 4/10/2024 | 310 | 235 | 625 | 7.2 | 350 | 38 | ND | 31.3 | 35 | 36 | 2 | 41 |
| 10/9/2024 | 300 | 231 | 621 | 7.3 | 360 | 39 | 0.4 | 30.7 | 35 | 35 | 2 | 42 | | | | |
| 4/2/2025 | 300 | 225 | 607 | 7.5 | 340 | 39 | 0.5 | 30.5 | 34 | 34 | 2 | 41 | | | | |
| 30S/11E-18L2** | LOCS D Palisades | LA15 | D,E | 11/18/2004 | 220 | 330 | 880 | 7.3 | 420 | 120 | ND | 31 | 54 | 48 | 2.2 | 40 |
| | | | | 11/19/2009 | 200 | 590 | 1460 | 7.2 | 890 | 360 | 0.4 | 39 | 94 | 86 | 2 | 44 |
| | | | D | 7/23/2014 | 250 | 293 | 783 | 7.8 | 390 | 90 | 0.4 | 26 | 48 | 42 | 2 | 40 |
| | | | | 4/29/2015 | 80 | 78 | 348 | 7.4 | 230 | 43 | 5 | 10 | 13 | 11 | ND | 30 |
| | | | | 10/28/2015 | 230 | 288 | 782 | 7.4 | 420 | 104 | 0.6 | 29 | 46 | 42 | ND | 36 |
| | | | | 4/27/2016 | 230 | 264 | 796 | 7.3 | 450 | 93 | 0.9 | 28 | 43 | 38 | 2 | 43 |
| | | | | 10/11/2016 | 200 | 221 | 694 | 7 | 380 | 91 | 1.7 | 25.5 | 36 | 32 | 1 | 35 |
| | | | | 10/5/2017 | 180 | 306 | 768 | 7.6 | 400 | 102 | 0.7 | 27 | 50 | 44 | 2 | 40 |
| | | | | 4/10/2018 | 250 | 311 | 767 | 7.3 | 420 | 100 | 0.8 | 32.4 | 52 | 44 | 2 | 40 |
| | | | | 10/23/2018 | 250 | 288 | 772 | 7.7 | 440 | 83 | 0.6 | 30.7 | 48 | 41 | 1 | 38 |
| | | | | 4/9/2019 | 250 | 301 | 774 | 7.4 | 460 | 102 | 0.8 | 29.2 | 48 | 44 | 1 | 38 |
| | | | | 11/14/2019 | 210 | 303 | 806 | 7.8 | 430 | 107 | 0.7 | 32.9 | 49 | 44 | 2 | 39 |
| | | | | 4/16/2020 | 260 | 299 | 832 | 7.7 | 460 | 109 | 0.8 | 32.5 | 49 | 43 | 2 | 37 |
| | | | | 10/5/2020 | 250 | 319 | 841 | 7.8 | 450 | 109 | 0.7 | 29.7 | 52 | 46 | 2 | 41 |
| | | | | 4/6/2021 | 234 | 290 | 780 | 7.7 | 444 | 108 | 1 | 27.2 | 47 | 42 | 2 | 38 |
| | | | | 10/6/2021 | 250 | 295 | 856 | 7.3 | 490 | 107 | 0.5 | 32.8 | 49 | 42 | 2 | 37 |
| | | | | 4/13/2022 | 250 | 330 | 876 | 7.3 | 470 | 116 | 0.5 | 30.3 | 53 | 48 | 2 | 43 |
| | | | | 10/4/2022 | 250 | 326 | 885 | 7.7 | 610 | 138 | 0.8 | 31.2 | 53 | 47 | 2 | 40 |
| | | | | 4/11/2023 | 250 | 282 | 877 | 8.2 | 470 | 142 | 0.8 | 31.4 | 47 | 40 | 2 | 37 |
| | | | | 10/9/2023 | 270 | 331 | 898 | 7.6 | 570 | 130 | 0.5 | 31.1 | 55 | 47 | 2 | 40 |
| 4/2/2024 | 260 | 323 | 861 | 7.9 | 480 | 130 | 0.7 | 32.9 | 52 | 47 | 2 | 39 | | | | |
| 10/2/2024 | 250 | 323 | 900 | 8.2 | 530 | 130 | 0.8 | 31.7 | 52 | 47 | 2 | 39 | | | | |
| 4/16/2025 | 260 | 326 | 913 | 7.4 | 560 | 160 | 0.7 | 34.7 | 53 | 47 | 2 | 39 | | | | |

Los Osos BMC Water Quality Results - Lower Aquifer Monitoring

| Station ID | Well Name | Basin Plan Well ID | Aquifer Zone | Date | HCO3 | Total Hardness | Cond | pH | TDS | Cl | NO3-N | SO4 | Ca | Mg | K | Na |
|--------------|--------------------|--------------------|--------------|------------|------|----------------|----------|-----|-------|-------|-------|------|------|------|------|------|
| | | | | | mg/l | mg/l | µmhos/cm | | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l |
| 30S/11E-18F2 | LOCSD Ferrell | LA13 | E | 4/5/2023 | 190 | 132 | 668 | 8.3 | 310 | 77 | ND | 62.1 | 15 | 23 | 2 | 76 |
| | | | | 10/11/2023 | 280 | 168 | 656 | 7.7 | 400 | 50 | ND | 39.7 | 23 | 27 | 2 | 70 |
| | | | | 4/11/2024 | 210 | 139 | 583 | 8.4 | 290 | 61 | ND | 41 | 13 | 26 | 2 | 66 |
| | | | | 10/8/2024 | 330 | 245 | 639 | 7.8 | 380 | 37 | ND | 28.4 | 34 | 39 | 2 | 42 |
| | | | | 4/10/2025 | 310 | 224 | 625 | 8.0 | 350 | 42 | ND | 28.3 | 32 | 35 | 2 | 47 |
| 30S/10E-14B2 | Sand Spit #3 Deep | LA3 | D | 3/15/2005 | 100 | 3600 | 30000 | 8 | 17000 | 8500 | ND | 960 | 1200 | 130 | 34 | 4300 |
| | | | | 10/21/2015 | ND | 7140 | 29500 | 11 | 24700 | 10000 | ND | 530 | 2830 | 20 | 80 | 4040 |
| 30S/11E-13Ja | Skyline 1a (North) | LA42 | E | 4/17/2024 | 270 | 2940 | 6150 | 7.5 | 6340 | 1900 | ND | 170 | 583 | 360 | 6 | 107 |
| | | | | 10/16/2024 | 270 | 2290 | 6160 | 7.5 | 5800 | 1800 | ND | 156 | 517 | 242 | 5 | 99 |
| | | | | 4/14/2025 | 270 | 2860 | 6090 | 7.5 | 5220 | 2100 | ND | 166 | 576 | 345 | 5 | 96 |
| 30S/11E-13Jb | Skyline 1b (South) | LA43 | D | 4/17/2024 | 320 | 277 | 724 | 7.5 | 420 | 61 | ND | 37.9 | 45 | 40 | 2 | 41 |
| | | | | 10/16/2024 | 330 | 286 | 712 | 7.6 | 400 | 49 | ND | 38.5 | 47 | 41 | 2 | 42 |
| | | | | 4/14/2025 | 330 | 261 | 712 | 7.5 | 390 | 55 | ND | 41 | 42 | 38 | 2 | 39 |

*Chloride concentrations at 13J1 can vary seasonally by 100+ mg/l and are affected by well production and borehole leakage, so fluctuations are expected.

**Water from 18L2 and 13M2 affected by wellbore leakage/upper aquifer influence when inactive

Legend and Detection Limits

| Constituent | Description | Practical Quantitation Limit* |
|----------------|---|-------------------------------|
| HCO3 | Bicarbonate Alkalinity in mg/L CaCO3 | 10.0 |
| Total Hardness | Total Hardness in mg/L CaCO3 | -- |
| Cond | Electrical Conductance in µmhos/cm | 1.0 |
| pH | pH in pH units | -- |
| TDS | Total Dissolved Solids in mg/L | 20.0 |
| Cl | Chloride concentration in mg/L | 1.0 |
| NO3-N | Nitrate as Nitrogen concentration in mg/L | 0.1 |
| SO4 | Sulfate concentration in mg/L | 2.0 |
| Ca | Calcium concentration in mg/L | 1.0 |
| Mg | Magnesium concentration in mg/L | 1.0 |
| K | Potassium concentration in mg/L | 1.0 |
| Na | Sodium concentration in mg/L | 1.0 |

*where dilution not required

*where dilution not required