

# BROOKSIDE LABORATORIES, INC.

\*\* WATER ANALYSIS REPORT \*\*

Rio Verde Country Club  
18731 East Four Peaks Blvd.  
Rio Verde, AZ

File Number: 90696  
Date Received: 3/13/2025  
Date Reported: 3/14/2025

Submitted By: Soil and Water Consulting

|                    |                     |
|--------------------|---------------------|
| Lab Number         | 0453                |
| Sample Location    | QUAIL RUN COURSE    |
| Sample Description | IRRIGATION<br>WATER |

|                                 |        |
|---------------------------------|--------|
| pH                              | 8.00   |
| Hardness (ppm)                  | 143.37 |
| Hardness (grains/gal)           | 8.38   |
| Conductivity (mmhos/cm)         | 1.34   |
| Sodium Adsorp. Ratio            | 8.07   |
| Adjusted SAR                    | 13.00  |
| Adjusted RNa                    | 9.15   |
| pHc                             | 7.79   |
| Residual Sodium Carbonate (RSC) | 1.24   |

|                    |         | (ppm)  | meq/l | lbs/ac in |
|--------------------|---------|--------|-------|-----------|
| Calcium            | (Ca)    | 31.68  | 1.58  | 7.19      |
| Magnesium          | (Mg)    | 15.57  | 1.28  | 3.53      |
| Potassium          | (K)     | 21.05  | 0.54  | 4.77      |
| Sodium             | (Na)    | 222.09 | 9.66  | 50.37     |
| Iron               | (Fe)    | < 0.10 |       |           |
| Total Alkalinity   | (CaCO3) | 205.00 |       | 46.49     |
| Carbonate          | (CO3)   | 0.00   |       |           |
| Bicarbonate        | (HCO3)  | 250.14 | 4.10  | 56.73     |
| Hydroxide          | (OH)    | 0.00   |       |           |
| Chloride           | (Cl)    | 195.74 | 5.52  | 44.39     |
| Sulfur as          | (S04)   | 139.21 | 2.90  | 31.57     |
| Salt Concentration | (TDS)   | 855.68 |       | 194.07    |
| Boron              | (B)     | 0.51   |       | 0.11      |

|           |      |         |
|-----------|------|---------|
| Manganese | (Mn) | < 0.020 |
| Copper    | (Cu) | < 0.020 |
| Zinc      | (Zn) | < 0.040 |
| Aluminum  | (Al) | < 0.200 |

|                    |      |
|--------------------|------|
| Cation/Anion Ratio | 1.03 |
|--------------------|------|

|               |      |
|---------------|------|
| NO3-N (ppm)   | 8.78 |
| Total P (ppm) | 2.34 |

Reviewed by: \_\_\_\_\_

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|                    |                     |
|--------------------|---------------------|
| Lab Number         | 0454                |
| Sample Location    | WHITE WING COURSE   |
| Sample Description | IRRIGATION<br>WATER |

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|                                 |        |
|---------------------------------|--------|
| pH                              | 8.03   |
| Hardness (ppm)                  | 113.59 |
| Hardness (grains/gal)           | 6.64   |
| Conductivity (mmhos/cm)         | 0.98   |
| Sodium Adsorp. Ratio            | 6.83   |
| Adjusted SAR                    | 10.18  |
| Adjusted RNa                    | 7.43   |
| pHc                             | 7.91   |
| Residual Sodium Carbonate (RSC) | 1.55   |

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|                          |  | (ppm)  | meq/l | lbs/ac in |
|--------------------------|--|--------|-------|-----------|
| Calcium (Ca)             |  | 23.99  | 1.20  | 5.44      |
| Magnesium (Mg)           |  | 13.00  | 1.07  | 2.95      |
| Potassium (K)            |  | 13.40  | 0.34  | 3.04      |
| Sodium (Na)              |  | 167.30 | 7.27  | 37.94     |
| Iron (Fe)                |  | < 0.10 |       |           |
| Total Alkalinity (CaCO3) |  | 191.00 |       | 43.32     |
| Carbonate (CO3)          |  | 0.00   |       |           |
| Bicarbonate (HCO3)       |  | 233.06 | 3.82  | 52.86     |
| Hydroxide (OH)           |  | 0.00   |       |           |
| Chloride (Cl)            |  | 124.59 | 3.51  | 28.26     |
| Sulfur as (S04)          |  | 94.35  | 1.96  | 21.40     |
| Salt Concentration (TDS) |  | 628.48 |       | 142.54    |
| Boron (B)                |  | 0.34   |       | 0.08      |

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|                |         |
|----------------|---------|
| Manganese (Mn) | < 0.020 |
| Copper (Cu)    | < 0.020 |
| Zinc (Zn)      | < 0.040 |
| Aluminum (Al)  | < 0.200 |

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|                    |      |
|--------------------|------|
| Cation/Anion Ratio | 1.06 |
|--------------------|------|

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|               |      |
|---------------|------|
| NO3-N (ppm)   | 4.40 |
| Total P (ppm) | 1.42 |

Reviewed by: \_\_\_\_\_