

# BROOKSIDE LABORATORIES, INC.

## SATURATED SOIL ANALYSIS

Jumping Brook Country Club  
210 Jumping Brook Road  
Neptune, NJ 07753

File Number: 74738  
Date Received: 5/9/2023  
Date Reported: 5/15/2023

Submitted By: Soil and Water Consulting

|                  |       |       |       |       |       |       |  |
|------------------|-------|-------|-------|-------|-------|-------|--|
| Lab Number       | 0012  |       |       | 0013  |       |       |  |
| Description      | TEE   |       |       | TEE   |       |       |  |
|                  | 4     |       |       | 7     |       |       |  |
| pH               | 7.3   |       |       | 7.2   |       |       |  |
|                  | (ppm) | meq/l | %     | (ppm) | meq/l | %     |  |
| Soluble Salts *  | 148   |       |       | 134   |       |       |  |
| Chloride         | 28    |       |       | 24    |       |       |  |
| Nitrate (NO3-N)  | < 0.5 |       |       | < 0.5 |       |       |  |
| Bicarbonate      | 50.92 |       |       | 47.62 |       |       |  |
| Sulfur           | 5.32  |       |       | 4.25  |       |       |  |
| Phosphorus       | 1.04  |       |       | 1.31  |       |       |  |
| Calcium          | 25.36 | 1.27  | 46.82 | 21.57 | 1.08  | 46.06 |  |
| Magnesium        | 6.52  | 0.54  | 19.83 | 5.43  | 0.45  | 19.09 |  |
| Potassium        | 19.43 | 0.50  | 18.38 | 14.53 | 0.37  | 15.89 |  |
| Sodium           | 9.31  | 0.40  | 14.97 | 10.19 | 0.44  | 18.96 |  |
| TOTAL            |       | 2.70  | 100   |       | 2.34  | 100   |  |
| Boron            | 0.05  |       |       | 0.04  |       |       |  |
| Iron             | 11.76 |       |       | 13.10 |       |       |  |
| Manganese        | 0.16  |       |       | 0.19  |       |       |  |
| Copper           | 0.06  |       |       | 0.05  |       |       |  |
| Zinc             | 0.09  |       |       | 0.07  |       |       |  |
| Aluminum         | 10.99 |       |       | 16.99 |       |       |  |
| Ammonium (NH4-N) | 1.7   |       |       | < 0.5 |       |       |  |
| ESP (calculated) | < .01 |       |       | < .01 |       |       |  |
| SAR (calculated) | 0.43  |       |       | 0.51  |       |       |  |

\* Soluble Salts: mmhos/cm = ppm / 640

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|-------------------------------|---------|-------|-------|---------|-------|-------|--|
| Lab Number                    | 0014    |       |       | 0015    |       |       |  |
| Description                   | FAIRWAY |       |       | FAIRWAY |       |       |  |
|                               | 3       |       |       | 4       |       |       |  |
| pH                            | 7.2     |       |       | 7.0     |       |       |  |
|                               | (ppm)   | meq/l | %     | (ppm)   | meq/l | %     |  |
| Soluble Salts *               | 118     |       |       | 161     |       |       |  |
| Chloride                      | 19      |       |       | 27      |       |       |  |
| Nitrate (NO <sub>3</sub> -N)  | < 0.5   |       |       | < 0.5   |       |       |  |
| Bicarbonate                   | 44.02   |       |       | 36.48   |       |       |  |
| Sulfur                        | 4.25    |       |       | 13.99   |       |       |  |
| Phosphorus                    | 1.50    |       |       | 1.61    |       |       |  |
| Calcium                       | 23.51   | 1.17  | 54.63 | 23.73   | 1.18  | 45.60 |  |
| Magnesium                     | 4.40    | 0.36  | 16.85 | 4.83    | 0.40  | 15.30 |  |
| Potassium                     | 10.72   | 0.27  | 12.77 | 20.19   | 0.52  | 19.89 |  |
| Sodium                        | 7.78    | 0.34  | 15.76 | 11.47   | 0.50  | 19.21 |  |
| TOTAL                         |         | 2.15  | 100   |         | 2.60  | 100   |  |
| Boron                         | 0.03    |       |       | 0.04    |       |       |  |
| Iron                          | 3.01    |       |       | 9.51    |       |       |  |
| Manganese                     | 0.12    |       |       | 0.21    |       |       |  |
| Copper                        | 0.06    |       |       | 0.06    |       |       |  |
| Zinc                          | 0.04    |       |       | 0.09    |       |       |  |
| Aluminum                      | 5.05    |       |       | 10.41   |       |       |  |
| Ammonium (NH <sub>4</sub> -N) | 0.7     |       |       | 2.8     |       |       |  |
| ESP (calculated)              | < .01   |       |       | < .01   |       |       |  |
| SAR (calculated)              | 0.39    |       |       | 0.56    |       |       |  |

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|             |         |
|-------------|---------|
| Lab Number  | 0016    |
| Description | FAIRWAY |
|             | 7       |

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|    |     |
|----|-----|
| pH | 6.0 |
|----|-----|

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|                              | (ppm) | meq/l | % | (ppm) | meq/l | % |
|------------------------------|-------|-------|---|-------|-------|---|
| Soluble Salts *              | 154   |       |   |       |       |   |
| Chloride                     | 31    |       |   |       |       |   |
| Nitrate (NO <sub>3</sub> -N) | < 0.5 |       |   |       |       |   |
| Bicarbonate                  | 14.20 |       |   |       |       |   |

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|            |       |      |       |  |  |  |
|------------|-------|------|-------|--|--|--|
| Sulfur     | 15.34 |      |       |  |  |  |
| Phosphorus | 0.96  |      |       |  |  |  |
| Calcium    | 20.01 | 1.00 | 39.67 |  |  |  |
| Magnesium  | 4.27  | 0.35 | 13.96 |  |  |  |
| Potassium  | 19.67 | 0.50 | 19.99 |  |  |  |
| Sodium     | 15.27 | 0.66 | 26.38 |  |  |  |
| TOTAL      |       | 2.52 | 100   |  |  |  |

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|                               |      |
|-------------------------------|------|
| Boron                         | 0.05 |
| Iron                          | 1.32 |
| Manganese                     | 0.09 |
| Copper                        | 0.07 |
| Zinc                          | 0.06 |
| Aluminum                      | 2.47 |
| Ammonium (NH <sub>4</sub> -N) | 1.5  |

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|                  |       |
|------------------|-------|
| ESP (calculated) | < .01 |
| SAR (calculated) | 0.81  |

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|-------------------------------|-------|-------|-------|-------|-------|-------|--|
| Lab Number                    | 0017  |       |       | 0018  |       |       |  |
| Description                   | GREEN |       |       | GREEN |       |       |  |
|                               | 4     |       |       | 7     |       |       |  |
| pH                            | 7.1   |       |       | 7.2   |       |       |  |
|                               | (ppm) | meq/l | %     | (ppm) | meq/l | %     |  |
| Soluble Salts *               | 152   |       |       | 159   |       |       |  |
| Chloride                      | 21    |       |       | 12    |       |       |  |
| Nitrate (NO <sub>3</sub> -N)  | < 0.5 |       |       | < 0.5 |       |       |  |
| Bicarbonate                   | 34.27 |       |       | 37.91 |       |       |  |
| Sulfur                        | 12.82 |       |       | 19.22 |       |       |  |
| Phosphorus                    | 2.88  |       |       | 1.75  |       |       |  |
| Calcium                       | 21.90 | 1.09  | 44.07 | 25.32 | 1.26  | 46.65 |  |
| Magnesium                     | 4.56  | 0.38  | 15.12 | 5.10  | 0.42  | 15.50 |  |
| Potassium                     | 17.45 | 0.45  | 17.99 | 19.40 | 0.50  | 18.32 |  |
| Sodium                        | 13.01 | 0.57  | 22.81 | 12.17 | 0.53  | 19.54 |  |
| TOTAL                         |       | 2.48  | 100   |       | 2.71  | 100   |  |
| Boron                         | 0.03  |       |       | 0.04  |       |       |  |
| Iron                          | 1.86  |       |       | 1.39  |       |       |  |
| Manganese                     | 0.06  |       |       | 0.05  |       |       |  |
| Copper                        | 0.05  |       |       | 0.04  |       |       |  |
| Zinc                          | 0.06  |       |       | 0.06  |       |       |  |
| Aluminum                      | 2.26  |       |       | 1.66  |       |       |  |
| Ammonium (NH <sub>4</sub> -N) | 0.7   |       |       | 0.9   |       |       |  |
| ESP (calculated)              | < .01 |       |       | < .01 |       |       |  |
| SAR (calculated)              | 0.66  |       |       | 0.58  |       |       |  |

\* Soluble Salts: mmhos/cm = ppm / 640