

# BROOKSIDE LABORATORIES, INC.

## SATURATED SOIL ANALYSIS

River Winds Golf and Tennis Club  
270 Eagle Point Road  
Deptford, NJ 08086

File Number: 53894  
Date Received: 5/17/2021  
Date Reported: 5/19/2021

Submitted By: Soil and Water Consulting

|                  |       |       |       |       |       |       |  |
|------------------|-------|-------|-------|-------|-------|-------|--|
| Lab Number       | 0001  |       |       | 0002  |       |       |  |
| Description      | TEE   |       |       | TEE   |       |       |  |
|                  | 4     |       |       | 12    |       |       |  |
| pH               | 6.9   |       |       | 7.5   |       |       |  |
|                  | (ppm) | meq/l | %     | (ppm) | meq/l | %     |  |
| Soluble Salts *  | 216   |       |       | 191   |       |       |  |
| Chloride         | 26    |       |       | 19    |       |       |  |
| Nitrate (NO3-N)  | < 0.5 |       |       | < 0.5 |       |       |  |
| Bicarbonate      | 28.76 |       |       | 56.16 |       |       |  |
| Sulfur           | 35.85 |       |       | 24.97 |       |       |  |
| Phosphorus       | 0.37  |       |       | 0.36  |       |       |  |
| Calcium          | 33.93 | 1.69  | 44.84 | 28.36 | 1.42  | 42.85 |  |
| Magnesium        | 10.24 | 0.84  | 22.30 | 6.88  | 0.57  | 17.14 |  |
| Potassium        | 18.42 | 0.47  | 12.47 | 26.24 | 0.67  | 20.32 |  |
| Sodium           | 17.70 | 0.77  | 20.38 | 14.96 | 0.65  | 19.70 |  |
| TOTAL            |       | 3.78  | 100   |       | 3.30  | 100   |  |
| Boron            | 0.06  |       |       | 0.04  |       |       |  |
| Iron             | 1.97  |       |       | 2.85  |       |       |  |
| Manganese        | 0.30  |       |       | 0.30  |       |       |  |
| Copper           | 0.03  |       |       | 0.02  |       |       |  |
| Zinc             | 0.10  |       |       | 0.07  |       |       |  |
| Aluminum         | 2.75  |       |       | 2.69  |       |       |  |
| Ammonium (NH4-N) | 1.0   |       |       | 1.3   |       |       |  |
| ESP (calculated) | < .01 |       |       | < .01 |       |       |  |
| SAR (calculated) | 0.68  |       |       | 0.65  |       |       |  |

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

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|-------------------------------|---------|-------|-------|---------|-------|-------|--|
| Lab Number                    | 0003    |       |       | 0004    |       |       |  |
| Description                   | FAIRWAY |       |       | FAIRWAY |       |       |  |
|                               | 4       |       |       | 12      |       |       |  |
| pH                            | 7.2     |       |       | 7.6     |       |       |  |
|                               | (ppm)   | meq/l | %     | (ppm)   | meq/l | %     |  |
| Soluble Salts *               | 212     |       |       | 294     |       |       |  |
| Chloride                      | 26      |       |       | 37      |       |       |  |
| Nitrate (NO <sub>3</sub> -N)  | < 0.5   |       |       | < 0.5   |       |       |  |
| Bicarbonate                   | 39.76   |       |       | 54.21   |       |       |  |
| Sulfur                        | 30.33   |       |       | 46.19   |       |       |  |
| Phosphorus                    | 0.34    |       |       | 0.42    |       |       |  |
| Calcium                       | 36.66   | 1.83  | 48.30 | 50.48   | 2.52  | 46.16 |  |
| Magnesium                     | 8.76    | 0.72  | 19.02 | 12.69   | 1.04  | 19.13 |  |
| Potassium                     | 14.20   | 0.36  | 9.59  | 27.47   | 0.70  | 12.87 |  |
| Sodium                        | 20.12   | 0.87  | 23.09 | 27.41   | 1.19  | 21.84 |  |
| TOTAL                         |         | 3.79  | 100   |         | 5.46  | 100   |  |
| Boron                         | 0.05    |       |       | 0.10    |       |       |  |
| Iron                          | 1.78    |       |       | 2.80    |       |       |  |
| Manganese                     | 0.22    |       |       | 0.39    |       |       |  |
| Copper                        | 0.03    |       |       | 0.07    |       |       |  |
| Zinc                          | 0.07    |       |       | 0.08    |       |       |  |
| Aluminum                      | 2.21    |       |       | 2.99    |       |       |  |
| Ammonium (NH <sub>4</sub> -N) | 1.6     |       |       | 3.4     |       |       |  |
| ESP (calculated)              | < .01   |       |       | 0.06    |       |       |  |
| SAR (calculated)              | 0.77    |       |       | 0.89    |       |       |  |

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|-------------------------------|--------|-------|-------|-------|-------|-------|--|
| Lab Number                    | 0005   |       |       | 0006  |       |       |  |
| Description                   | GREEN  |       |       | GREEN |       |       |  |
|                               | 4      |       |       | 12    |       |       |  |
| pH                            | 7.2    |       |       | 7.5   |       |       |  |
|                               | (ppm)  | meq/l | %     | (ppm) | meq/l | %     |  |
| Soluble Salts *               | 135    |       |       | 165   |       |       |  |
| Chloride                      | 4      |       |       | 7     |       |       |  |
| Nitrate (NO <sub>3</sub> -N)  | < 0.5  |       |       | < 0.5 |       |       |  |
| Bicarbonate                   | 27.24  |       |       | 40.50 |       |       |  |
| Sulfur                        | 24.55  |       |       | 27.57 |       |       |  |
| Phosphorus                    | 0.44   |       |       | 0.93  |       |       |  |
| Calcium                       | 22.72  | 1.13  | 47.19 | 23.86 | 1.19  | 42.69 |  |
| Magnesium                     | 6.60   | 0.54  | 22.59 | 5.50  | 0.45  | 16.23 |  |
| Potassium                     | 13.33  | 0.34  | 14.19 | 29.74 | 0.76  | 27.27 |  |
| Sodium                        | 8.86   | 0.39  | 16.04 | 8.86  | 0.39  | 13.81 |  |
| TOTAL                         |        | 2.40  | 100   |       | 2.79  | 100   |  |
| Boron                         | 0.04   |       |       | 0.04  |       |       |  |
| Iron                          | 1.74   |       |       | 5.18  |       |       |  |
| Manganese                     | 0.13   |       |       | 0.14  |       |       |  |
| Copper                        | < 0.01 |       |       | 0.02  |       |       |  |
| Zinc                          | 0.04   |       |       | 0.07  |       |       |  |
| Aluminum                      | 3.82   |       |       | 11.81 |       |       |  |
| Ammonium (NH <sub>4</sub> -N) | 0.8    |       |       | 1.7   |       |       |  |
| ESP (calculated)              | < .01  |       |       | < .01 |       |       |  |
| SAR (calculated)              | 0.42   |       |       | 0.42  |       |       |  |

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