

lb/A

# BROOKSIDE LABORATORIES, INC.

## SOIL AUDIT AND INVENTORY REPORT

55399-17

Name Valleybrook Country Club City Blackwood State NJ

Independent Consultant Soil and Water Consulting Date 6/13/2024

|                                    |                                                     |        |        |      |  |  |
|------------------------------------|-----------------------------------------------------|--------|--------|------|--|--|
| Sample Location                    | TEE                                                 | 9      | 14     |      |  |  |
| Sample Identification              |                                                     |        |        |      |  |  |
| Lab Number                         |                                                     | 2055-1 | 2056-1 |      |  |  |
| Total Exchange Capacity (ME/100 g) |                                                     | 6.75   | 9.85   |      |  |  |
| pH                                 | Buffer (SMP/Sikora)                                 | 7.4    | 7.3    |      |  |  |
|                                    | H <sub>2</sub> O (1:1)                              | 6.1    | 6.2    |      |  |  |
| Organic Matter (360°C LOI) %       |                                                     | 2.06   | 2.98   |      |  |  |
| Estimated Nitrogen Release         | lb/A                                                | 61     | 80     |      |  |  |
| ANIONS                             | SOLUBLE SULFUR*                                     |        |        |      |  |  |
|                                    | ppm                                                 | 30     | 32     |      |  |  |
|                                    | MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> | 1063   | 811    |      |  |  |
|                                    | ppm of P                                            | 232    | 177    |      |  |  |
|                                    | BRAY II lb/A P as P <sub>2</sub> O <sub>5</sub>     |        |        |      |  |  |
| EXCHANGEABLE CATIONS               | ppm of P                                            |        |        |      |  |  |
|                                    | OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>       |        |        |      |  |  |
|                                    | ppm of P                                            |        |        |      |  |  |
|                                    | CALCIUM*                                            | lb/A   | 1646   | 2462 |  |  |
|                                    | ppm                                                 |        | 823    | 1231 |  |  |
|                                    | MAGNESIUM*                                          | lb/A   | 202    | 332  |  |  |
|                                    | ppm                                                 |        | 101    | 166  |  |  |
|                                    | POTASSIUM*                                          | lb/A   | 308    | 370  |  |  |
|                                    | ppm                                                 |        | 154    | 185  |  |  |
|                                    | SODIUM*                                             | lb/A   | 64     | 66   |  |  |
|                                    | ppm                                                 |        | 32     | 33   |  |  |
| BASE SATURATION PERCENT            |                                                     |        |        |      |  |  |
|                                    | Calcium %                                           | 60.96  | 62.49  |      |  |  |
|                                    | Magnesium %                                         | 12.47  | 14.04  |      |  |  |
|                                    | Potassium %                                         | 5.85   | 4.82   |      |  |  |
|                                    | Sodium %                                            | 2.06   | 1.46   |      |  |  |
|                                    | Other Bases %                                       | 5.20   | 5.20   |      |  |  |
|                                    | Hydrogen %                                          | 13.50  | 12.00  |      |  |  |
| EXTRACTABLE MINORS                 |                                                     |        |        |      |  |  |
|                                    | Boron* (ppm)                                        | 0.78   | 0.62   |      |  |  |
|                                    | Iron* (ppm)                                         | 548    | 469    |      |  |  |
|                                    | Manganese* (ppm)                                    | 11     | 13     |      |  |  |
|                                    | Copper* (ppm)                                       | 3.88   | 1.96   |      |  |  |
|                                    | Zinc* (ppm)                                         | 8.65   | 11.45  |      |  |  |
|                                    | Aluminum* (ppm)                                     | 569    | 422    |      |  |  |
| OTHER TESTS                        | Soluble Salts (mmhos/cm)                            |        |        |      |  |  |
|                                    | Chlorides (ppm)                                     |        |        |      |  |  |
|                                    | NO <sub>3</sub> -N (ppm)                            | 4.2    | 4.8    |      |  |  |
|                                    | NH <sub>4</sub> -N (ppm)                            | 1.2    | < 0.5  |      |  |  |
|                                    |                                                     |        |        |      |  |  |

\* Mehlich III Extractable

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|------------------------------------|-----------------------------------------------------|--------|--------|-------|--|--|
| Sample Location                    | FAIRWAY                                             | 9      | 14     |       |  |  |
| Sample Identification              |                                                     |        |        |       |  |  |
| Lab Number                         |                                                     | 2057-1 | 2058-1 |       |  |  |
| Total Exchange Capacity (ME/100 g) |                                                     | 9.70   | 9.92   |       |  |  |
| pH                                 | Buffer (SMP/Sikora)                                 | 7.3    | 7.3    |       |  |  |
|                                    | H <sub>2</sub> O (1:1)                              | 5.9    | 6.0    |       |  |  |
| Organic Matter (360°C LOI) %       |                                                     | 2.74   | 2.44   |       |  |  |
| Estimated Nitrogen Release         | lb/A                                                | 75     | 69     |       |  |  |
| ANIONS                             | SOLUBLE SULFUR*                                     |        |        |       |  |  |
|                                    | ppm                                                 | 18     | 42     |       |  |  |
|                                    | MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> | 605    | 627    |       |  |  |
|                                    | ppm of P                                            | 132    | 137    |       |  |  |
|                                    | BRAY II lb/A P as P <sub>2</sub> O <sub>5</sub>     |        |        |       |  |  |
|                                    | ppm of P                                            |        |        |       |  |  |
|                                    | OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>       |        |        |       |  |  |
|                                    | ppm of P                                            |        |        |       |  |  |
| EXCHANGEABLE CATIONS               | CALCIUM*                                            | lb/A   | 2298   | 2352  |  |  |
|                                    | ppm                                                 |        | 1149   | 1176  |  |  |
|                                    | MAGNESIUM*                                          | lb/A   | 278    | 356   |  |  |
|                                    | ppm                                                 |        | 139    | 178   |  |  |
|                                    | POTASSIUM*                                          | lb/A   | 298    | 272   |  |  |
|                                    | ppm                                                 |        | 149    | 136   |  |  |
|                                    | SODIUM*                                             | lb/A   | 58     | 84    |  |  |
|                                    | ppm                                                 |        | 29     | 42    |  |  |
| BASE SATURATION PERCENT            |                                                     |        |        |       |  |  |
|                                    | Calcium %                                           |        | 59.23  | 59.27 |  |  |
|                                    | Magnesium %                                         |        | 11.94  | 14.95 |  |  |
|                                    | Potassium %                                         |        | 3.94   | 3.52  |  |  |
|                                    | Sodium %                                            |        | 1.30   | 1.84  |  |  |
|                                    | Other Bases %                                       |        | 5.60   | 5.40  |  |  |
|                                    | Hydrogen %                                          |        | 18.00  | 15.00 |  |  |
| EXTRACTABLE MINORS                 |                                                     |        |        |       |  |  |
|                                    | Boron* (ppm)                                        |        | 0.65   | 0.69  |  |  |
|                                    | Iron* (ppm)                                         |        | 476    | 528   |  |  |
|                                    | Manganese* (ppm)                                    |        | 6      | 14    |  |  |
|                                    | Copper* (ppm)                                       |        | 1.31   | 1.99  |  |  |
|                                    | Zinc* (ppm)                                         |        | 4.42   | 6.17  |  |  |
|                                    | Aluminum* (ppm)                                     |        | 734    | 618   |  |  |
| OTHER TESTS                        | Soluble Salts (mmhos/cm)                            |        |        |       |  |  |
|                                    | Chlorides (ppm)                                     |        |        |       |  |  |
|                                    | NO <sub>3</sub> -N (ppm)                            |        | 5.6    | 4.0   |  |  |
|                                    | NH <sub>4</sub> -N (ppm)                            |        | 1.7    | 1.3   |  |  |
|                                    |                                                     |        |        |       |  |  |

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|------------------------------------|-----------------------------------------------------|--------|--------|-------|--|--|
| Sample Location                    | GREEN                                               | 9      | 14     |       |  |  |
| Sample Identification              |                                                     |        |        |       |  |  |
| Lab Number                         |                                                     | 2059-1 | 2060-1 |       |  |  |
| Total Exchange Capacity (ME/100 g) |                                                     | 5.34   | 4.39   |       |  |  |
| pH                                 | Buffer (SMP/Sikora)                                 | 7.4    | 7.4    |       |  |  |
|                                    | H <sub>2</sub> O (1:1)                              | 6.1    | 6.3    |       |  |  |
| Organic Matter (360°C LOI) %       |                                                     | 1.44   | 1.18   |       |  |  |
| Estimated Nitrogen Release         | lb/A                                                | 49     | 44     |       |  |  |
| ANIONS                             | SOLUBLE SULFUR*                                     |        |        |       |  |  |
|                                    | ppm                                                 | 68     | 34     |       |  |  |
|                                    | MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> | 582    | 499    |       |  |  |
|                                    | ppm of P                                            | 127    | 109    |       |  |  |
|                                    | BRAY II lb/A P as P <sub>2</sub> O <sub>5</sub>     |        |        |       |  |  |
|                                    | ppm of P                                            |        |        |       |  |  |
|                                    | OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>       |        |        |       |  |  |
|                                    | ppm of P                                            |        |        |       |  |  |
| EXCHANGEABLE CATIONS               | CALCIUM*                                            | lb/A   | 1270   | 1072  |  |  |
|                                    | ppm                                                 |        | 635    | 536   |  |  |
|                                    | MAGNESIUM*                                          | lb/A   | 204    | 168   |  |  |
|                                    | ppm                                                 |        | 102    | 84    |  |  |
|                                    | POTASSIUM*                                          | lb/A   | 150    | 170   |  |  |
|                                    | ppm                                                 |        | 75     | 85    |  |  |
|                                    | SODIUM*                                             | lb/A   | 56     | 48    |  |  |
|                                    | ppm                                                 |        | 28     | 24    |  |  |
| BASE SATURATION PERCENT            |                                                     |        |        |       |  |  |
|                                    | Calcium %                                           |        | 59.46  | 61.05 |  |  |
|                                    | Magnesium %                                         |        | 15.92  | 15.95 |  |  |
|                                    | Potassium %                                         |        | 3.60   | 4.96  |  |  |
|                                    | Sodium %                                            |        | 2.28   | 2.38  |  |  |
|                                    | Other Bases %                                       |        | 5.20   | 5.10  |  |  |
|                                    | Hydrogen %                                          |        | 13.50  | 10.50 |  |  |
| EXTRACTABLE MINORS                 |                                                     |        |        |       |  |  |
|                                    | Boron* (ppm)                                        |        | 0.73   | 0.67  |  |  |
|                                    | Iron* (ppm)                                         |        | 481    | 411   |  |  |
|                                    | Manganese* (ppm)                                    |        | 24     | 36    |  |  |
|                                    | Copper* (ppm)                                       |        | 2.12   | 2.10  |  |  |
|                                    | Zinc* (ppm)                                         |        | 6.40   | 6.85  |  |  |
|                                    | Aluminum* (ppm)                                     |        | 275    | 295   |  |  |
| OTHER TESTS                        | Soluble Salts (mmhos/cm)                            |        |        |       |  |  |
|                                    | Chlorides (ppm)                                     |        |        |       |  |  |
|                                    | NO <sub>3</sub> -N (ppm)                            |        | 1.0    | 1.9   |  |  |
|                                    | NH <sub>4</sub> -N (ppm)                            |        | < 0.5  | < 0.5 |  |  |
|                                    |                                                     |        |        |       |  |  |

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