

lb/A

# BROOKSIDE LABORATORIES, INC.

## SOIL AUDIT AND INVENTORY REPORT

73668-54

Name The Summit City Las Vegas State NVIndependent Consultant Soil and Water Consulting Date 3/23/2022

|                                    |                          |                                                     |             |              |  |  |
|------------------------------------|--------------------------|-----------------------------------------------------|-------------|--------------|--|--|
| Sample Location                    | TEE                      | 5                                                   | 14          |              |  |  |
| Sample Identification              |                          |                                                     |             |              |  |  |
| Lab Number                         |                          | 0042-1                                              | 0043-1      |              |  |  |
| Total Exchange Capacity (ME/100 g) |                          | 5.83                                                | 7.24        |              |  |  |
| pH (H <sub>2</sub> O 1:1)          |                          | a 7.4                                               | a 7.8       |              |  |  |
| Organic Matter (360°C LOI) %       |                          | 0.77                                                | 0.61        |              |  |  |
| Estimated Nitrogen Release         | lb/A                     | 31                                                  | 24          |              |  |  |
| ANIONS                             | SOLUBLE SULFUR*          | ppm                                                 | 30          | 42           |  |  |
|                                    | MEHLICH III              | lb/A P as P <sub>2</sub> O <sub>5</sub><br>ppm of P |             |              |  |  |
|                                    | BRAY II                  | lb/A P as P <sub>2</sub> O <sub>5</sub><br>ppm of P |             |              |  |  |
|                                    | OLSEN                    | lb/A P as P <sub>2</sub> O <sub>5</sub><br>ppm of P | 96<br>21    | 73<br>16     |  |  |
| EXCHANGEABLE<br>CATIONS            | CALCIUM*                 | lb/A<br>ppm                                         | 1708<br>854 | 2232<br>1116 |  |  |
|                                    | MAGNESIUM*               | lb/A<br>ppm                                         | 214<br>107  | 226<br>113   |  |  |
|                                    | POTASSIUM*               | lb/A<br>ppm                                         | 100<br>50   | 122<br>61    |  |  |
|                                    | SODIUM*                  | lb/A<br>ppm                                         | 140<br>70   | 140<br>70    |  |  |
|                                    |                          |                                                     |             |              |  |  |
| BASE SATURATION PERCENT            |                          |                                                     |             |              |  |  |
|                                    | Calcium                  | %                                                   | 73.24       | 77.07        |  |  |
|                                    | Magnesium                | %                                                   | 15.29       | 13.01        |  |  |
|                                    | Potassium                | %                                                   | 2.20        | 2.16         |  |  |
|                                    | Sodium                   | %                                                   | 5.22        | 4.20         |  |  |
|                                    | Other Bases              | %                                                   | 4.00        | 3.60         |  |  |
|                                    | Hydrogen                 | %                                                   | 0.00        | 0.00         |  |  |
| EXTRACTABLE MINORS                 |                          |                                                     |             |              |  |  |
|                                    | Boron** (ppm)            |                                                     | 0.52        | 0.46         |  |  |
|                                    | Iron** (ppm)             |                                                     | 72          | 76           |  |  |
|                                    | Manganese** (ppm)        |                                                     | 12          | 14           |  |  |
|                                    | Copper** (ppm)           |                                                     | 1.18        | 1.06         |  |  |
|                                    | Zinc** (ppm)             |                                                     | 5.71        | 2.64         |  |  |
|                                    | Aluminum** (ppm)         |                                                     | 67          | 86           |  |  |
| OTHER<br>TESTS                     | Soluble Salts (mmhos/cm) |                                                     |             |              |  |  |
|                                    | Chlorides (ppm)          |                                                     |             |              |  |  |
|                                    | NO <sub>3</sub> -N (ppm) |                                                     | 21.3        | 21.3         |  |  |
|                                    | NH <sub>4</sub> -N (ppm) |                                                     | 1.3         | 5.6          |  |  |

a - alkaline soil

\* Ammonium Acetate Extractable (pH of 8.1)

\*\* Mehlich III Extractable

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|------------------------------------|--------------------------|-----------------------------------------------------|-------------|--------------|--|--|
| Sample Location                    | FAIRWAY                  | 5                                                   | 14          |              |  |  |
| Sample Identification              |                          |                                                     |             |              |  |  |
| Lab Number                         |                          | 0044-1                                              | 0045-1      |              |  |  |
| Total Exchange Capacity (ME/100 g) |                          | 6.23                                                | 8.23        |              |  |  |
| pH (H <sub>2</sub> O 1:1)          |                          | a 8.2                                               | a 8.2       |              |  |  |
| Organic Matter (360°C LOI) %       |                          | 0.48                                                | 0.73        |              |  |  |
| Estimated Nitrogen Release lb/A    |                          | 19                                                  | 29          |              |  |  |
| ANIONS                             | SOLUBLE SULFUR*          | ppm                                                 | 93          | 61           |  |  |
|                                    | MEHLICH III              | lb/A P as P <sub>2</sub> O <sub>5</sub><br>ppm of P |             |              |  |  |
|                                    | BRAY II                  | lb/A P as P <sub>2</sub> O <sub>5</sub><br>ppm of P |             |              |  |  |
|                                    | OLSEN                    | lb/A P as P <sub>2</sub> O <sub>5</sub><br>ppm of P | 60<br>13    | 78<br>17     |  |  |
| EXCHANGEABLE<br>CATIONS            | CALCIUM*                 | lb/A<br>ppm                                         | 1826<br>913 | 2568<br>1284 |  |  |
|                                    | MAGNESIUM*               | lb/A<br>ppm                                         | 222<br>111  | 250<br>125   |  |  |
|                                    | POTASSIUM*               | lb/A<br>ppm                                         | 100<br>50   | 112<br>56    |  |  |
|                                    | SODIUM*                  | lb/A<br>ppm                                         | 188<br>94   | 166<br>83    |  |  |
| BASE SATURATION PERCENT            |                          |                                                     |             |              |  |  |
|                                    | Calcium                  | %                                                   | 73.27       | 78.01        |  |  |
|                                    | Magnesium                | %                                                   | 14.85       | 12.66        |  |  |
|                                    | Potassium                | %                                                   | 2.06        | 1.74         |  |  |
|                                    | Sodium                   | %                                                   | 6.56        | 4.38         |  |  |
|                                    | Other Bases              | %                                                   | 3.20        | 3.20         |  |  |
|                                    | Hydrogen                 | %                                                   | 0.00        | 0.00         |  |  |
| EXTRACTABLE MINORS                 |                          |                                                     |             |              |  |  |
|                                    | Boron** (ppm)            |                                                     | 0.45        | 0.51         |  |  |
|                                    | Iron** (ppm)             |                                                     | 98          | 73           |  |  |
|                                    | Manganese** (ppm)        |                                                     | 7           | 11           |  |  |
|                                    | Copper** (ppm)           |                                                     | 0.68        | 0.69         |  |  |
|                                    | Zinc** (ppm)             |                                                     | 1.16        | 1.71         |  |  |
|                                    | Aluminum** (ppm)         |                                                     | 76          | 61           |  |  |
| OTHER<br>TESTS                     | Soluble Salts (mmhos/cm) |                                                     |             |              |  |  |
|                                    | Chlorides (ppm)          |                                                     |             |              |  |  |
|                                    | NO <sub>3</sub> -N (ppm) |                                                     | 0.7         | 1.9          |  |  |
|                                    | NH <sub>4</sub> -N (ppm) |                                                     | 1.2         | 2.6          |  |  |

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|------------------------------------|--------------------------|-----------------------------------------------------|----------|----------|--|--|
| Sample Location                    | GREEN                    | 5                                                   | 14       |          |  |  |
| Sample Identification              |                          |                                                     |          |          |  |  |
| Lab Number                         |                          | 0046-1                                              | 0047-1   |          |  |  |
| Total Exchange Capacity (ME/100 g) |                          | 7.31                                                | 5.91     |          |  |  |
| pH (H <sub>2</sub> O 1:1)          |                          | a 8.3                                               | a 8.2    |          |  |  |
| Organic Matter (360°C LOI) %       |                          | 0.96                                                | 0.77     |          |  |  |
| Estimated Nitrogen Release lb/A    |                          | 38                                                  | 31       |          |  |  |
| <b>ANIONS</b>                      | SOLUBLE SULFUR*          | ppm                                                 | 118      | 69       |  |  |
|                                    | MEHLICH III              | lb/A P as P <sub>2</sub> O <sub>5</sub><br>ppm of P |          |          |  |  |
|                                    | BRAY II                  | lb/A P as P <sub>2</sub> O <sub>5</sub><br>ppm of P |          |          |  |  |
|                                    | OLSEN                    | lb/A P as P <sub>2</sub> O <sub>5</sub><br>ppm of P | 55<br>12 | 64<br>14 |  |  |
| <b>EXCHANGEABLE CATIONS</b>        | CALCIUM*                 | lb/A                                                | 2172     | 1726     |  |  |
|                                    |                          | ppm                                                 | 1086     | 863      |  |  |
|                                    | MAGNESIUM*               | lb/A                                                | 244      | 206      |  |  |
|                                    |                          | ppm                                                 | 122      | 103      |  |  |
|                                    | POTASSIUM*               | lb/A                                                | 116      | 118      |  |  |
|                                    |                          | ppm                                                 | 58       | 59       |  |  |
|                                    | SODIUM*                  | lb/A                                                | 226      | 182      |  |  |
|                                    |                          | ppm                                                 | 113      | 91       |  |  |
| <b>BASE SATURATION PERCENT</b>     |                          |                                                     |          |          |  |  |
| Calcium                            | %                        |                                                     | 74.28    | 73.01    |  |  |
| Magnesium                          | %                        |                                                     | 13.91    | 14.52    |  |  |
| Potassium                          | %                        |                                                     | 2.03     | 2.56     |  |  |
| Sodium                             | %                        |                                                     | 6.72     | 6.69     |  |  |
| Other Bases                        | %                        |                                                     | 3.10     | 3.20     |  |  |
| Hydrogen                           | %                        |                                                     | 0.00     | 0.00     |  |  |
| <b>EXTRACTABLE MINORS</b>          |                          |                                                     |          |          |  |  |
|                                    | Boron** (ppm)            |                                                     | 0.81     | 0.77     |  |  |
|                                    | Iron** (ppm)             |                                                     | 43       | 55       |  |  |
|                                    | Manganese** (ppm)        |                                                     | 12       | 14       |  |  |
|                                    | Copper** (ppm)           |                                                     | 0.53     | 0.83     |  |  |
|                                    | Zinc** (ppm)             |                                                     | 1.23     | 1.54     |  |  |
|                                    | Aluminum** (ppm)         |                                                     | 35       | 25       |  |  |
| <b>OTHER TESTS</b>                 | Soluble Salts (mmhos/cm) |                                                     |          |          |  |  |
|                                    | Chlorides (ppm)          |                                                     |          |          |  |  |
|                                    | NO <sub>3</sub> -N (ppm) |                                                     | < 0.5    | < 0.5    |  |  |
|                                    | NH <sub>4</sub> -N (ppm) |                                                     | 1.1      | 2.0      |  |  |

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