

lb/A

# BROOKSIDE LABORATORIES, INC.

## SOIL AUDIT AND INVENTORY REPORT

46715-43

 Name Canyon Gate Country Club City Las Vegas State NV

 Independent Consultant Soil and Water Consulting Date 10/27/2020

|                                    |                          |                                                     |              |              |  |  |
|------------------------------------|--------------------------|-----------------------------------------------------|--------------|--------------|--|--|
| Sample Location                    | TEE                      | 8                                                   | 17           |              |  |  |
| Sample Identification              |                          |                                                     |              |              |  |  |
| Lab Number                         |                          | 0175-1                                              | 0176-1       |              |  |  |
| Total Exchange Capacity (ME/100 g) |                          | 18.76                                               | 14.19        |              |  |  |
| pH (H <sub>2</sub> O 1:1)          |                          | a 7.8                                               | a 7.9        |              |  |  |
| Organic Matter (360°C LOI) %       |                          | 4.14                                                | 3.90         |              |  |  |
| Estimated Nitrogen Release         | lb/A                     | 91                                                  | 89           |              |  |  |
| ANIONS                             | SOLUBLE SULFUR*          | ppm                                                 | 41           | 86           |  |  |
|                                    | 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 | 101<br>22    | 115<br>25    |  |  |
| EXCHANGEABLE<br>CATIONS            | CALCIUM*                 | lb/A<br>ppm                                         | 4942<br>2471 | 3960<br>1980 |  |  |
|                                    | MAGNESIUM*               | lb/A<br>ppm                                         | 1030<br>515  | 742<br>371   |  |  |
|                                    | POTASSIUM*               | lb/A<br>ppm                                         | 806<br>403   | 362<br>181   |  |  |
|                                    | SODIUM*                  | lb/A<br>ppm                                         | 186<br>93    | 108<br>54    |  |  |
| BASE SATURATION PERCENT            |                          |                                                     |              |              |  |  |
|                                    | Calcium                  | %                                                   | 65.86        | 69.77        |  |  |
|                                    | Magnesium                | %                                                   | 22.88        | 21.79        |  |  |
|                                    | Potassium                | %                                                   | 5.51         | 3.27         |  |  |
|                                    | Sodium                   | %                                                   | 2.16         | 1.65         |  |  |
|                                    | Other Bases              | %                                                   | 3.60         | 3.50         |  |  |
|                                    | Hydrogen                 | %                                                   | 0.00         | 0.00         |  |  |
| EXTRACTABLE MINORS                 |                          |                                                     |              |              |  |  |
|                                    | Boron** (ppm)            |                                                     | 1.02         | 1.23         |  |  |
|                                    | Iron** (ppm)             |                                                     | 104          | 114          |  |  |
|                                    | Manganese** (ppm)        |                                                     | 22           | 18           |  |  |
|                                    | Copper** (ppm)           |                                                     | 1.42         | 1.45         |  |  |
|                                    | Zinc** (ppm)             |                                                     | 26.05        | 18.03        |  |  |
|                                    | Aluminum** (ppm)         |                                                     | 98           | 61           |  |  |
| OTHER<br>TESTS                     | Soluble Salts (mmhos/cm) |                                                     |              |              |  |  |
|                                    | Chlorides (ppm)          |                                                     |              |              |  |  |
|                                    | NO <sub>3</sub> -N (ppm) |                                                     | 17.8         | 20.2         |  |  |
|                                    | NH <sub>4</sub> -N (ppm) |                                                     | 12.1         | 6.9          |  |  |

a - alkaline soil

\* Ammonium Acetate Extractable (pH of 8.1)

\*\* Mehlich III Extractable

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|------------------------------------|--------------------------------|--------------------------------------------------------------|--------------|--------------|--|--|--|
| Sample Location <b>FAIRWAY</b>     |                                |                                                              | 8            | 17           |  |  |  |
| Sample Identification              |                                |                                                              |              |              |  |  |  |
| Lab Number                         |                                |                                                              | 0177-1       | 0178-1       |  |  |  |
| Total Exchange Capacity (ME/100 g) |                                |                                                              | 19.38        | 20.34        |  |  |  |
| pH (H <sub>2</sub> O 1:1)          |                                |                                                              | a 7.9        | a 8.1        |  |  |  |
| Organic Matter (360°C LOI) %       |                                |                                                              | 5.50         | 6.07         |  |  |  |
| Estimated Nitrogen Release lb/A    |                                |                                                              | 102          | 105          |  |  |  |
| <b>ANIONS</b>                      | SOLUBLE SULFUR* ppm            |                                                              | 78           | 33           |  |  |  |
|                                    | <b>PHOSPHORUS</b>              | MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P |              |              |  |  |  |
|                                    |                                | 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       | 339<br>74    | 330<br>72    |  |  |  |
| <b>EXCHANGEABLE CATIONS</b>        | CALCIUM* lb/A ppm              |                                                              | 5412<br>2706 | 5668<br>2834 |  |  |  |
|                                    | MAGNESIUM* lb/A ppm            |                                                              | 958<br>479   | 1112<br>556  |  |  |  |
|                                    | POTASSIUM* lb/A ppm            |                                                              | 724<br>362   | 526<br>263   |  |  |  |
|                                    | SODIUM* lb/A ppm               |                                                              | 118<br>59    | 88<br>44     |  |  |  |
|                                    | <b>BASE SATURATION PERCENT</b> |                                                              |              |              |  |  |  |
|                                    | Calcium                        | %                                                            | 69.81        | 69.67        |  |  |  |
|                                    | Magnesium                      | %                                                            | 20.60        | 22.78        |  |  |  |
|                                    | Potassium                      | %                                                            | 4.79         | 3.32         |  |  |  |
|                                    | Sodium                         | %                                                            | 1.32         | 0.94         |  |  |  |
|                                    | Other Bases                    | %                                                            | 3.50         | 3.30         |  |  |  |
|                                    | Hydrogen                       | %                                                            | 0.00         | 0.00         |  |  |  |
| <b>EXTRACTABLE MINORS</b>          |                                |                                                              |              |              |  |  |  |
| Boron** (ppm)                      |                                |                                                              | 2.27         | 2.32         |  |  |  |
| Iron** (ppm)                       |                                |                                                              | 99           | 98           |  |  |  |
| Manganese** (ppm)                  |                                |                                                              | 16           | 17           |  |  |  |
| Copper** (ppm)                     |                                |                                                              | 1.68         | 1.28         |  |  |  |
| Zinc** (ppm)                       |                                |                                                              | 37.54        | 35.07        |  |  |  |
| Aluminum** (ppm)                   |                                |                                                              | 80           | 76           |  |  |  |
| <b>OTHER TESTS</b>                 | Soluble Salts (mmhos/cm)       |                                                              |              |              |  |  |  |
|                                    | Chlorides (ppm)                |                                                              |              |              |  |  |  |
|                                    | NO <sub>3</sub> -N (ppm)       |                                                              | 24.1         | 20.0         |  |  |  |
|                                    | NH <sub>4</sub> -N (ppm)       |                                                              | 13.2         | 19.6         |  |  |  |

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|------------------------------------|--------------------------|-----------------------------------------------------|-------------|-------------|--|--|
| Sample Location                    | GREEN                    | 8                                                   | 17          |             |  |  |
| Sample Identification              |                          |                                                     |             |             |  |  |
| Lab Number                         |                          | 0179-1                                              | 0180-1      |             |  |  |
| Total Exchange Capacity (ME/100 g) |                          | 5.93                                                | 5.52        |             |  |  |
| pH (H <sub>2</sub> O 1:1)          |                          | a<br>8.5                                            | a<br>8.6    |             |  |  |
| Organic Matter (360°C LOI) %       |                          | 0.48                                                | 0.49        |             |  |  |
| Estimated Nitrogen Release lb/A    |                          | 19                                                  | 20          |             |  |  |
| ANIONS                             | SOLUBLE SULFUR*          | ppm                                                 | 18          | 44          |  |  |
|                                    | 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 | 27<br>6     | 5<br>1      |  |  |
| EXCHANGEABLE<br>CATIONS            | CALCIUM*                 | lb/A<br>ppm                                         | 1816<br>908 | 1686<br>843 |  |  |
|                                    | MAGNESIUM*               | lb/A<br>ppm                                         | 238<br>119  | 218<br>109  |  |  |
|                                    | POTASSIUM*               | lb/A<br>ppm                                         | 118<br>59   | 118<br>59   |  |  |
|                                    | SODIUM*                  | lb/A<br>ppm                                         | 36<br>18    | 42<br>21    |  |  |
| BASE SATURATION PERCENT            |                          |                                                     |             |             |  |  |
|                                    | Calcium                  | %                                                   | 76.56       | 76.36       |  |  |
|                                    | Magnesium                | %                                                   | 16.72       | 16.46       |  |  |
|                                    | Potassium                | %                                                   | 2.55        | 2.74        |  |  |
|                                    | Sodium                   | %                                                   | 1.32        | 1.65        |  |  |
|                                    | Other Bases              | %                                                   | 2.90        | 2.80        |  |  |
|                                    | Hydrogen                 | %                                                   | 0.00        | 0.00        |  |  |
| EXTRACTABLE MINORS                 |                          |                                                     |             |             |  |  |
|                                    | Boron** (ppm)            |                                                     | 0.25        | 0.31        |  |  |
|                                    | Iron** (ppm)             |                                                     | 41          | 33          |  |  |
|                                    | Manganese** (ppm)        |                                                     | 40          | 25          |  |  |
|                                    | Copper** (ppm)           |                                                     | 0.81        | 0.65        |  |  |
|                                    | Zinc** (ppm)             |                                                     | 6.46        | 1.98        |  |  |
|                                    | Aluminum** (ppm)         |                                                     | 55          | 63          |  |  |
| OTHER<br>TESTS                     | Soluble Salts (mmhos/cm) |                                                     |             |             |  |  |
|                                    | Chlorides (ppm)          |                                                     |             |             |  |  |
|                                    | NO <sub>3</sub> -N (ppm) |                                                     | < 0.5       | 4.8         |  |  |
|                                    | NH <sub>4</sub> -N (ppm) |                                                     | 9.8         | < 0.5       |  |  |

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