# **SOIL ANALYSIS REPORT**

Eskaen Biosciences

**Report Prepared By**

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#### Soil Nutrient Profile:

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| --- | --- | --- |
| Nutrient | Score | Notes |
| Nitrogen | Variable. Not severe. | Deficiency was due to previous corn cultivation in parts of the field. |
| Phosphorus | No appreciable soil deficiency | Detected in the most sensitive coach-grass and not herbs. |
| Potassium | No noticeable soil deficiency | Both herbs and grasses showed no signs of deficiency |
| Magnessium | No noticeable soil deficiency | Both herbs and grasses showed no signs of deficiency |
| Iron | No noticeable soil deficiency | Both herbs and grasses showed no signs of deficiency |
| Clacium | No noticeable soil deficiency | Both herbs and grasses showed no signs of deficiency |
| Other | No noticeable soil deficiency | Both herbs and grasses showed no signs of deficiency |

#### Soil pH:

Soil pH range of 6.5 - 7.0. Tending towards neutral. Explains availability of other important nutrients. Supplementation is recommended however.

#### Soil Structure & Profile:

Loamy sandy and loose soils. Easily crumbles. Has great water retention with excellent organics. The soil’s microbial profile is normal. The soild is well aerated and should not impede root growth.

#### Pest Occurrance:

Pests specific to horticultural crops like pepper or onions or tomatoes were not observed.

#### Disease Occurrance:

Incindences of either fusarium, bortyritis, and midldew were not observed in the weeds. This suggests an extremely low microbial load to pose danger to proposed crops to be grown.

#### Geography:

The field is gently sloped allowing for proper drainage and water retention. The gentle slope is ideal for drip irrigation.

#### Conclusions & Recommendations:

* Mild nitrogen deficiency was observed in parts of the field where corn had previously been grown. The rest was normal. Supplementing with NPK fertilizer should suffice. The prefferable mode of application should be fertigation through the drip system.
* Due to its crumby loamy and sandy texture, the field is suitable for onions especially. Tomatoes and pepper would do excellently as well.
* The field is located nearby a wetland which raises the water table. Digging wells to supply water for drip irrigation should greatly increase yields.