

Control Block

Biological Analysis:

Fungi: None

Bacteria: Low Diversity (Bacterial Dominated)

Predators: None (poor nutrient cycling)

Anaerobic Conditions? Yes (ciliates present)

Earthworms: 4

Chemical Analysis:

pH: Good Range

Phosphorus: Low/Moderate

Sulfur: Okay Range

Calcium: Slightly Low

Potassium: Very High (**Locks Up Calcium**)

Magnesium: Good Range

Sodium: Good Range

Boron: Low

Copper: Low

Manganese: High

Iron: Good Range

Zinc: Good Range

Physical Analysis:

Soil Type: Loam

Sand: 50%

Silt: 30%

Clay: 20%

Humic Acids: 4 out of 6

Organic Matter: Good Range

Control Bed					
		Row			
	Penetrometer Data	1	2	3	4
	1	14" @ 200 psi	10" @ 200 psi	11" @ 200 psi	10" @ 200 psi
	2	7.5" @ 200 psi	13" @ 200 psi	10.5" @ 200 psi	12.5" @ 200 psi
	3	14" @ 200 psi	13" @ 200 psi	14" @ 200 psi	13" @ 200 psi
	4	16.5" @ 200 psi	15.5" @ 200 psi	14" @ 200 psi	13.5" @ 200 psi
	5	7" @ 200 psi	15.5" @ 200 psi	22" @ 200 psi	18" @ 200 psi
	6	6.5" @ 200 psi	27.5" @ 150 psi sunk	24" @ 200 psi	25" @ 200 psi sunk
	7	18.5" @ 200 psi	10" @ 200 psi	22" @ 200 psi	24.5" @ 200 psi sunk
	8	27.5" sunk 150 psi	8" @ 200 psi	19" @ 200 psi	20" @ 200 psi sunk
	9	21" @ 200 psi	9.5" @ 200 psi	27.5" @ 200 psi sunk	24" @ 200 psi
	10	15.5" @ 200 psi	19" @ 200 psi	17.5" @ 200 psi	27.5" @ 200 psi sunk

Slake Anyalsis

Earth Grower LLC 949 302 8771

Client: Sweet Hollow Farm

Sample Collected: 5/14/2022

Tested: 5/18/2022

Purpose: Physical Testing

This is a test of aggregate stability. Each sample is a composite sample of 10 cores from each bed.

Protocols: One TBSP of Soil is dropped in a basket with 1cm submerged in water and a timer is set to see how long it takes to disso

Samples Sit for 2 minutes before data is Collected. The percentae of soil left is logged as the aggregate stability.

Control Beds	C1	C2	C3	C4
Dissolved	95%	96%	94%	99%
Aggregate Stability	5%	4%	7%	1%

Test Block

Biological Analysis:

Fungi: Very Little

Bacteria: Low Diversity

Predators: None (poor Nutrient Cycling)

Anaerobic Conditions? Minor

Earthworms: 3

Chemical Analysis:

pH: Good Range

Phosphorus: Low Moderate

Sulfur: Okay Range

Calcium: Slightly low

Potassium Very High (**Locks Up Calcium**)

Magnesium: Good Range

Sodium: Good Range

Boron: Low

Copper: Low

Manganese Good Range

Iron: Good Range

Zinc: Good Range

Physical Properties:

Soil Type: Loam

Sand: 50%

Silt: 40%

Clay: 10%

Humic Acids: 5 out of 6

Organic Matter: Good Range

Test Bed					
		Row			
	Penetrometer Data	1	2	3	4
	1	8" @ 200 psi	3.5" @ 200 psi	9.5" @ 200 psi	6.5" @ 200 psi
	2	11" @ 200 psi	2" @ 200 psi	3.5" @ 200 psi	4.5" @ 200 psi
	3	14" @ 200 psi	2.5" @ 200 psi	5" @ 200 psi	7.5" @ 200 psi
	4	6" @ 200 psi	2.5" @ 200 psi	4.5" @ 200 psi	5" @ 300 psi
	5	6.5" @ 200 psi	2.5" @ 200 psi	2" @ 200 psi	4.5" @ 200 psi
	6	6" @ 200 psi	3.5" @ 200 psi	3" @ 200 psi	4.5" @ 200 psi
	7	27.5" sunk	5" @ 200 psi	4" @ 200 psi	27.5" @ 150 sunk
	8	20.5" @ 200 psi	6" @ 200 psi	27.5" sunk	23" @ 200 psi
	9	6.5" @ 200 psi	18" @ 200 psi	3" @ 200 psi	15" @ 200 psi
	10	5" @ 200 psi	3" @ 200 psi	2" @ 200 psi	15" @ 200 psi

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Samples Sit for 2 minutes before data is Collected. The percentae of soil left is logged as the aggregate stability.

Test Beds	T1	T2	T3	T4
Dissolved	90%	90%	90%	80%
Aggregate Stability	10%	10%	10%	20%