ANALYTICAL CHEMISTS
and
BACTERIOLOGISTS

SOIL CONTROL LAB

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Account #: 6080314-1/1-1709
Group: Aug26D #13
Reporting Date: September 11, 2026

Mecklenburg County
140 Valleydale Road
Charlotte, NC 28202
Attn: James Dunlin

Date Received: 26 Aug. 26
Sample Identification: Queen City Compost
Sample ID #: 6080314 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.8	0.68	%
Ammonia (NH_4-N):	12	4.5	mg/kg
Nitrate (NO_3-N):	170	65	mg/kg
Org. Nitrogen (Org.-N):	1.8	0.67	%
Phosphorus (as P_2O_5):	0.42	0.16	%
Phosphorus (P):	1800	720	mg/kg
Potassium (as K_2O):	0.94	0.37	%
Potassium (K):	7800	3000	mg/kg
Calcium (Ca):	2.7	1.0	%
Magnesium (Mg):	0.48	0.19	%
Sulfate (SO_4-S):	14	5.6	mg/kg
Boron (Total B):	41	16	mg/kg
Moisture:	0	60.9	%
Sodium (Na):	0.032	0.012	%
Chloride (Cl):	0.025	0.0097	%
pH Value:	NA	7.22	unit
Bulk Density:	14	36	lb/cu ft
Carbonates ($CaCO_3$):	6.0	2.3	lb/ton
Conductivity (EC5):	1.3	NA	mmhos/cm
Organic Matter:	66.3	25.9	%
Organic Carbon:	39.0	15.0	%
Ash:	33.7	13.2	%
C/N Ratio	22	22	ratio
AgIndex	> 10	> 10	ratio

Stability Indicator:

CO2 Evolution	Respirometery
mg CO_2-C/g OM/day	1.3
mg CO_2-C/g TS/day	0.84
Stability Rating	*very stable*

Maturity Indicator: Cucumber Bioassay

Compost:Vermiculite (v:v)	1:2
Emergence (%)	100
Seedling Vigor (%)	100
Description of Plants	*healthy*

Pathogens	Results	Units	Rating
Fecal Coliform	< 7.5	MPN/g	*pass*
Salmonella	< 3	MPN/4g	*pass*

Date Tested: 26 Aug. 26

Physical Contaminants**	% by dry wt
Total Plastic	< 0.1
Film Plastic	< 0.1
Glass	< 0.1
Metal	< 0.1
Sharps	ND
Total	< 0.5

Metals	Dry wt.	EPA Limit	units
Aluminum (Al):	6800	-	mg/kg
Arsenic (As):	1.4	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	18	-	mg/kg
Cobalt (Co)	4.7	-	mg/kg
Copper (Cu):	34	1500	mg/kg
Iron (Fe):	8000	-	mg/kg
Lead (Pb):	9.1	300	mg/kg
Manganese (Mn):	1100	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	< 1.0	75	mg/kg
Nickel (Ni):	10	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	120	2800	mg/kg

Size Distribution

MM	% by weight
> 50	0.0
25 to 50	0.0
16 to 25	0.0
9.5 to 16	0.4
6.3 to 9.5	2.8
4.0 to 6.3	8.1
2.0 to 4.0	17.5
< 2.0	71.2

**Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.