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Lab #	8873212	Report of Analysis		Report Number: 21-074-4190																																																																																																																																																	
Account: 25124	RUSTY WILLARD CITY OF DENTON 1100 SOUTH MAYHILL RD DENTON TX 76208		 Robert Ferris Account Manager 402-829-9871																																																																																																																																																		
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Compost Results Interpretations

Page 1

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Organic Matter %		Greater than 20% indicates a desirable range for compost on a dry weight basis.
26.60	As Received	
42.13	Dry Weight	

Compost is a significant source of Organic Matter, which is an important supplier of carbon. Organic Matter improves soil and plant efficiency by improving soil physical properties, providing a source of energy to beneficial organisms, and enhancing the reservoir of soil nutrients.

C/N Ratio		20-30 indicates an ideal range for the initial compost process. 10-20 indicates an ideal range for a finished compost.
10.6:1		

All organic matter is made up of substantial amounts of carbon with lesser amounts of nitrogen. The balance of these two elements is called the Carbon/Nitrogen Ratio. For the best performance, the compost pile requires the correct proportion of carbon for energy and nitrogen for protein production. If the C:N ratio is too high (excess carbon) decomposition slows down. If the C:N ratio is too low (excess Nitrogen) the compost pile could be difficult to manage.

Moisture %		<35% = Indicates overly dry compost >55% = Indicates overly wet compost
36.86		

Moisture Percent is the measure of water present in the compost and expressed as a percentage of total weight. Moisture present affects handling and transport. Overly dry will be light and dusty while overly wet will be heavy and clumpy. A desirable moisture content of finished compost will range between 40 to 50%.

Compost Results Interpretations

Page 2

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Conductivity or Soluble Salts measures the conductance of electrical current in a liquid compost slurry. Excessive soluble salt content in a compost can prevent or delay seed germination and proper root growth. Conductivity analysis is done on a 1:5 basis.

Conductivity 1:5	
5.0	
Conductivity Level	Interpretation
Greater than 10	Very High nutrient content. Use for Ag Applications
5 - 10	High nutrient content. Use for Ag Applications
3 - 5	Higher than desirable for salt sensitive plants, some loss of vigor
0.6 - 3	Desirable range for most plants
0.3 - 0.6	Ideal range for greenhouse growth media
0.0 - 0.3	Very Low: Indicates very low nutrient status: plants may show deficiencies.

Compost Results Interpretations

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pH Value

7.2

0 to 14 scale with 6 to 8 as normal pH levels for compost

A pH in the 6 to 8 pH range indicates a more mature compost

pH measures the acidity or alkalinity of the compost, and is a measurement of the hydrogen ion activity of a soil or compost on a logarithmic scale. The pH scale ranges from 0 to 14 and 7 indicates a neutral pH. Growing media with a higher pH or pH greater than 7 can benefit from a compost that has a more acidic pH or pH below 7. This type of application will possibly lower the soil pH making the soil more conducive to plants that thrive in a more acidic soil condition.

Nutrient Index (Ag Index)

>10

The Nutrient Index normally runs between 1 and 10.

The Nutrient Index is obtained by dividing the total nutrients (N,P,K) by the amount of salt (Sodium and Chloride). The higher the Nutrient Index the less chance of having a toxic buildup of Sodium (salt) in the soil.

AG INDEX CHART										
<i>salt injury possible</i>	<i>use on soils with excellent drainage characteristics, good water quality and low salts</i>				<i>you may use on soils with poor drainage, poor water quality, or high salts</i>					<i>for all soils</i>
1	2	3	4	5	6	7	8	9	10	> 10

Nutrients (N+P205+K20)

5.38

Average Nutrient Content Dry Weight

<2 = Low, >5 = High

1.5-1.5-0.5

Rating As Received

The most commonly used compost data is the amount of Nitrogen, Phosphate, and Potash (abbreviated as N,P,K) present and the information is similar to that found in common fertilizers. If a compost result has the rating 1-2-2 it means that the compost has 1% Nitrogen, 2% Phosphate and 2% Potash. Most compost tests will have a average nutrient level (N+P+K) of < 5%.

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REPORT DATE
Mar 15, 2021
 RECEIVED DATE
Mar 03, 2021

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ISSUE DATE
Mar 15, 2021

CITY OF DENTON
RUSTY WILLARD
1100 SOUTH MAYHILL RD
DENTON TX 76208

REPORT OF ANALYSIS
 For: (25124) CITY OF DENTON
 November and December 2020 Screened Compost

Analysis	Level Found		Reporting			Analyst- Date	Verified- Date
	As Received	Dry Weight	Units	Limit	Method		

Sample ID: **Nov. and Dec. 2020** Lab Number: **8873212** Date Sampled: **2021-03-02 0800**

Cadmium (total)	0.78	1.24	mg/kg	0.50	EPA 6010	ery3-2021/03/08	kkh9-2021/03/10
Chromium (total)	19.4	30.7	mg/kg	1.00	EPA 6010	ery3-2021/03/08	kkh9-2021/03/10
Mercury (total)	0.08	0.12	mg/kg	0.05	EPA 7471	pid8-2021/03/08	th1-2021/03/08
Lead (total)	7.1	11.2	mg/kg	5.0	EPA 6010	ery3-2021/03/08	kkh9-2021/03/10
Molybdenum (total)	2.1	3.3	mg/kg	1.0	EPA 6010	ery3-2021/03/08	kkh9-2021/03/10
Nickel (total)	7.6	12.1	mg/kg	1.0	EPA 6010	ery3-2021/03/08	kkh9-2021/03/10
Selenium (total)	n.d.	n.d.	mg/kg	10.0	EPA 6010	ery3-2021/03/08	kkh9-2021/03/10
Zinc (total)	153.3	242.8	mg/kg	2.0	EPA 6010	ery3-2021/03/08	kkh9-2021/03/10
Copper (total)	129	205	mg/kg	1	EPA 6010	ery3-2021/03/08	kkh9-2021/03/10
Arsenic (total)	2.97	4.71	mg/kg	0.50	EPA 6020	th1-2021/03/10	kkh9-2021/03/10

EPA 1681 holding time of < 24 hours from sampling to laboratory set up of samples for biosolids and compost has been exceeded. Individual states enforce different holding times for compost or biosolids so please contact the regulatory body in your state for their requirements.

EPA 1682 holding time of < 6 hours from sampling to laboratory set up of samples for biosolids and compost has been exceeded. If a level of Salmonella was reported, the value would be considered an estimate. Individual states enforce different holding times for compost or biosolids so please contact the regulatory body in your state for their requirements.
 n.d. = not detected , ppm = parts per million, mg/kg

For questions please contact:

The result(s) issued on this report only reflect the analysis of

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Rob Ferris
 Account Manager

may any reference be made without prior written authorization.



13611 B Street | Omaha, NE 68144-3693 | 402-334-7770

8873212-212
 Samples: 1 Page: 1/2
 Down Load: 2021 03 03 09:47

2

SUBMITTAL FORM

Order Number: 932667
Order Date: 2021-03-02 12:59:46
Submitted By: Billy Downey

Account: 25124
CITY OF DENTON
1100 SOUTH MAYHILL RD
DENTON, TX 76208

Sample Description: November and December 2020 Screened Compost

P.2 JA

SAMPLES FOR ANALYSIS

Compost



932667-1

Date Sampled: 2021-03-02

Sample ID: Nov. and Dec. 2020

8873212

Time Sampled: 0800

Analysis Requested:

STA COMPOST (Carbon (total), Loss on ignition (OM), Nitrogen (total), Ammonium nitrogen (total), Germination vigor, Sieve (rot) 3-8 in. 9.25 mm, Salmonella, CO2 OM Evolution, CO2 Solids Evolution, Stability rating, % passing - 3" sieve (DW), % passing - 3/4" sieve (DW), Fecal coliforms, % passing - 1" sieve (DW), % passing - 1.5" sieve (DW), % passing - 1/4" sieve (DW), Sieve maximum particle length (Inches), Cadmium (total), Chromium (total), Mercury (total), Lead (total), Molybdenum (total), Nickel (total), Germination, % passing - 5/8" sieve (DW), Conductivity 1:5 dilution, Sulfur (total), Magnesium (total), Iron (total), Calcium (total), Sodium (total), Manganese (total), Bulk density (packed), Bulk density (loose), Film plastic, Glass fragments, Hard plastic, Metal fragments, Sharps, Chloride, Boron (total), Phosphate (P2O5), Nitrate-nitrogen, Ash, Moisture, % passing - 2" sieve (DW), Selenium (total), Zinc (total), Potash (K2O), Copper (total), Arsenic (total), pH)

*At short cold time sticker on box.
-JA 3/3*



US COMPOSTING COUNCIL

OFFICIAL Seal of Testing Association
 Compost Sample Chain of Custody Form

STA Laboratory: **Midwest Laboratories** Tel: **402-334-7770**
 Address: **13611 B Street** FAX: _____
 City, State Zip code: **Omaha NE 68144** Email: _____

Client/Reporting Company: **City of Denton** Tel: **940-349-8626**
 Contact Name: **Billy Downey** FAX: _____
 Billing Address: **1100 South Mayhill Road** Email: _____
 City, State Zip code: **Denton, Texas 76208**

Send Results to:
 City, State Zip code: _____

Name or Source of Sample(s): _____
 Name of Person(s), Sample Collector(s): **Billy Downey**

LABORATORY USE ONLY Storage Locations
 Freezer _____ Cold Room _____ Storage Shelf _____

Sample Condition: _____
 Temperature: _____ Melodor: _____ Moisture: _____

Sample Type: POINT COMPOSITE STRATIFIED INTERVAL
 P.O. Number: _____

USCC Member: YES NO

SELECTION OF ANALYSIS: Refer to <http://www.tmecc.org/cap/methods.html> for details.
 STA Suffix; State DOT Tests (indicate Suffix); A, B, C - Specify other tests in fields A through C, (e.g., tests required for regulated samples, etc.). NOTE | STA analytical results via the STA Compost Technical Data Sheet and this Chain of Custody form are submitted to STA program management.

Client Sample ID and Special Instructions	1. List Feedstocks		Collection Date/Time	Sample Matrix	Composting Operation Type	Shipping Temperature	Indicate Compost Analysis Requirements (*Identify state)			LAB USE ONLY Job Number & Sample Status
	2. Check all that apply						A	B	C	
	3. List % by volume. (Optional)									
Nov. 2020	<input checked="" type="checkbox"/> Green waste	<input type="checkbox"/> Carcass	Date: 3/2/2021	Compost <input checked="" type="checkbox"/>	Windrow <input checked="" type="checkbox"/>	Ambient <input type="checkbox"/>		<div style="font-size: 2em; text-align: center;">A B C</div>		
Dec. 2020	<input type="checkbox"/> Manure	<input type="checkbox"/> Fish Waste	Time: 8:00am	Feedstock <input type="checkbox"/>	Static pile <input type="checkbox"/>	Wet Ice <input checked="" type="checkbox"/>				
Stockpiles	<input checked="" type="checkbox"/> Food	<input type="checkbox"/> Grease, Fats	Initials: BD	Mulch <input type="checkbox"/>	In-Vessel <input type="checkbox"/>	Dry Ice <input type="checkbox"/>				

INFORM THE STA LABORATORY AND SPECIFY THE REQUIRED LABORATORY TESTS WHEN SUBMITTING REGULATED COMPOST SAMPLES. (Please use spaces A, B, and C provided above).
 PLEASE PROVIDE SPECIFIC FEEDSTOCK AND OPERATIONAL DETAIL IN THE SPACE PROVIDED.
 YOUR VOLUNTEERED INFORMATION PROVIDES USCC STANDARDS AND PRACTICES COMMITTEE WITH CRITICAL DATA NEEDED TO BETTER UNDERSTAND THE COMPOSTING PROCESS AND COMPOST END USES.

Releasing Signature 1	Date	Time	Receiving Signature 1	Date	Time
	3/2/2021	1:30 pm			
Releasing Signature 2	Date	Time	Receiving Signature 2	Date	Time
Releasing Signature 3	Date	Time	Receiving Signature 3	Date	Time
Releasing Signature 4	Date	Time	Receiving Signature 4	Date	Time