

# Central Testing Laboratory

Engineering and Materials Testing



LEESBURG • INVERNESS • OCALA

**RECEIVED**

MAR 13 2003

Solid Waste Section

**SUMTER COUNTY PUBLIC WORKS  
LANDFILL  
FIRST QUARTER 2003  
COMPOST REPORT  
Conducted for  
Mr. GARY BREEDEN  
March 10, 2003**



**CENTRAL TESTING LABORATORY  
LEESBURG, FLORIDA**

# Central Testing Laboratory

EB 0002407

Engineering and Materials Testing

Reply to:

Leesburg

March 10, 2003

Florida Department of Environmental Protection  
2600 Blair Stone Road MS 4565  
Tallahassee, FL 32399-2400

Attn: Solid Waste Section

Re: First Quarter 2003 Compost Testing Results  
Sumter County Solid Waste Facility

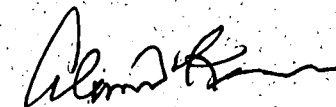
Dear Sir or Madam:

Central Testing Laboratory (CTL) has received the results of the first quarter classification testing for the compost produced at the above referenced facility. A composite compost sample was collected for the purpose of analysis and classification on February 20, 2003 at the facility. The samples were analyzed and classified in accordance with the Florida Administrative Code (FAC) Chapter 62-709, Criteria for the Production and Use of Compost Made from Solid Waste.

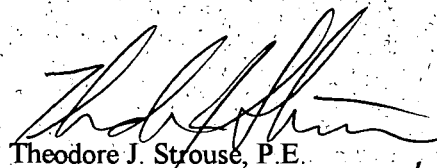
Based on the attached results, currently the compost is classified as **Type A**, 62-709.600, Criteria for the Use of Compost, states compost classified as Type A has unrestricted use by commercial, agricultural, institutional or governmental operations.

We hope that the provided information meets your needs at the present time. Should you have any questions or require additional information, please contact our office.

Very Truly Yours,  
CENTRAL TESTING LABORATORY



Alan D. Kerr  
Environmental Specialist



Theodore J. Strouse, P.E.  
President  
Florida Registration No. 48220 <sup>3/10/03</sup>

#### Attachments

cc: Ms. Susan Pelz, P.E.  
Mr. Lonnie Cash  
Mr. Garry Breeden

5400 S. Florida Avenue  
Inverness, FL 34450  
(352) 726-6447

723 S. 14th Street  
Leesburg, FL 34748  
(352) 787-1268

Sumter County  
(352) 793-3639

1725 SW 17th Street  
Ocala, FL 34474  
(352) 622-1186



## Central Testing Laboratory Report of Results

### Reduction of Organic Matter per 62-709.530(h)

$$\%ROM = [1 - (OMK(100 - OM) / OM(100 - OMK))]100$$

where %ROM = Reduction of Organic Matter

OM = organic matter content of dry matter before decomposition

OMK = organic matter content of dry matter after decomposition

OM = 44% (Volatile Solids from Raw sample per STL report)

OMK = 31% (Volatile Solids from Finished Compost sample per STL report)

$$[1 - (31(100 - 44) / 44(100 - 31))]100$$

$$1 - (1736 / 3036) 100$$

$$(1 - 0.571805) 100$$

$$0.428195 \times 100 = 42.82$$

**Reduction of Matter = 42.82%**

### Foreign Matter Content per 62-709.530(f)

Dry weight of Finished Compost sample = 197.62g

Weight of inorganic material held back by ¼ inch screen = 2.69g

Weight of glass = 1.90g      0.96% of total weight of sample

Weight of plastic = 0.79g      0.4% of total weight of sample

$$0.96 + 0.4 = 1.36\% \text{ of total weight of sample}$$

**Foreign Matter Content = 1.36%**



STL

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**Case Narrative:** STL Project B350633

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**Client:** Central Testing Laboratories

**Project:** Sumter County Public Works Landfill

**Laboratory:** STL Tampa.

Two solid samples, one liquid sample and two air samples were received on February 20, 2003 and logged in as STL Project B350633.

No QA/QC issues were noted.

## Positive Results Summary Report

**Report To:** Mr. Al Kerr  
Central Testing Laboratories  
723 South 14<sup>th</sup> Street  
Leesburg, FL 34748

**Project Name:** Sumter County Public Works Landfill  
**STL Log Number:** B350633  
**Report Date:** February 28, 2003

Results Pages 1 through 4 (excluding cover page)

  
\_\_\_\_\_  
Nancy Robertson, Project Manager  
nrobertson@stl-inc.com



LOG NO: B3-50633  
 Received: 20 FEB 03  
 Reported: 28 FEB 03

Mr. Al Kerr  
 Central Testing Laboratories  
 723 South 14th Street  
 Leesburg, FL 34748

Project: SUMTER COUNTY PUBLIC WORKS LANDFILL  
 Sampled By: Client  
 Code: 161230228

POSITIVE RESULTS SUMMARY REPORT

Page 1

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
50633-1	SO-1 FINISHED COMPOST	02-20-03/09:30
PARAMETER		50633-1
ICP Metals (6010)		
Cadmium, mg/kg dw		0.75
Copper, mg/kg dw		140
Lead, mg/kg dw		82
Nickel, mg/kg dw		15
Potassium, mg/kg dw		2800
Zinc, mg/kg dw		450
Moisture (% Loss on drying @ 105 C) (D2216), %		57 %
Total Kjeldahl Nitrogen-N (351.3), mg/kg dw		14000
Total Nitrogen (351.2+353.2), mg/kg dw		14000
Phosphorus, Total (365.2), mg/kg dw		39
pH (9045), units		5.3
Fecal Coliform MPN (SM9221C), MPN/100ml		>1600
Volatile Solids (EPA/CE-81-1(3-59)), %		31 %



STL

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POSITIVE RESULTS SUMMARY REPORT

Page 2

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
50633-2	SO-2 RAW	02-20-03/08:15
PARAMETER		50633-2
Moisture (% Loss on drying @ 105 C) (D2216), %		53 %
Volatile Solids (EPA/CE-81-1(3-59)), %		44 %



## Analytical Report

**Report To:** Mr. Al Kerr  
Central Testing Laboratories  
723 South 14<sup>th</sup> Street  
Leesburg, FL 34748

**Project Name:** Sumter County Public Works Landfill  
**STL Log Number:** B350633  
**Report Date:** February 28, 2003

Results Pages 1 through 12 (excluding cover page)

  
\_\_\_\_\_  
Nancy Robertson, Project Manager  
nrobertson@stl-inc.com

LOG NO: B3-50633  
Received: 20 FEB 03  
Reported: 28 FEB 03Mr. Al Kerr  
Central Testing Laboratories  
723 South 14th Street  
Leesburg, FL 34748Project: SUMTER COUNTY PUBLIC WORKS LANDFILL  
Sampled By: Client  
Code: 161230228

## REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
50633-1	SO-1 FINISHED COMPOST	02-20-03/09:30
PARAMETER	50633-1	
ICP Metals (6010)		
Cadmium, mg/kg dw	0.75	
Copper, mg/kg dw	140	
Lead, mg/kg dw	82	
Nickel, mg/kg dw	15	
Potassium, mg/kg dw	2800	
Zinc, mg/kg dw	450	
Prep Date	02.21.03	
Analysis Date	02.24.03	
Moisture (% Loss on drying @ 105 C) (D2216), %	57 %	
Analysis Date	02.21.03	
Nitrate + Nitrite-N (353.2), mg/kg dw	<5.0	
Analysis Date	02.27.03	
Total Kjeldahl Nitrogen-N (351.3), mg/kg dw	14000	
Analysis Date	02.26.03	
Total Nitrogen (351.2+353.2), mg/kg dw	14000	
Phosphorus, Total (365.2), mg/kg dw	39	
Prep Date	02.27.03	
Analysis Date	02.27.03	



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Page 2

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
50633-1	SO-1 FINISHED COMPOST	02-20-03/09:30
PARAMETER	50633-1	
pH (9045), units	5.3	
Analysis Date	02.20.03	
Fecal Coliform MPN (SM9221C), MPN/100ml	>1600	
Analysis Date	02.20.03	
Volatile Solids (EPA/CE-81-1(3-59)), %	31 %	
Analysis Date	02.21.03	
Percent Solids	43	



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REPORT OF RESULTS

Page 3

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
50633-2	SO-2 RAW	02-20-03/08:15
PARAMETER		50633-2
Moisture (% Loss on drying @ 105 C) (D2216), %		53 %
Analysis Date		02.21.03
Volatile Solids (EPA/CE-81-1(3-59)), %		44 %
Analysis Date		02.21.03

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REPORT OF RESULTS

Page 6

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
50633-6	Reporting Limit (RL)	
PARAMETER		50633-6
ICP Metals (6010)		
Cadmium, mg/kg dw		0.50
Copper, mg/kg dw		2.0
Lead, mg/kg dw		0.50
Nickel, mg/kg dw		4.0
Potassium, mg/kg dw		100
Zinc, mg/kg dw		2.0
Nitrate + Nitrite-N (353.2), mg/kg dw		5.0
Total Kjeldahl Nitrogen-N (351.3), mg/kg dw		50
Phosphorus, Total (365.2), mg/kg dw		25
Fecal Coliform MPN (SM9221C)		2.0

LOG NO: B3-50633  
 Received: 20 FEB 03  
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Mr. Al Kerr  
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 723 South 14th Street  
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Project: SUMTER COUNTY PUBLIC WORKS LANDFILL  
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REPORT OF RESULTS

Page 7

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED				
50633-7	Method Blank					
50633-8	Accuracy (%Rec)					
50633-9	LCS Accuracy Control Limit (%R)					
50633-10	Precision (%RPD)					
50633-11	LCS Precision Control Limit (Advisory) %RPD					
PARAMETER		50633-7	50633-8	50633-9	50633-10	50633-11
ICP Metals (6010)						
Cadmium, mg/kg dw	<0.50	81 %	75-125 %	0 %	<20 %	
Copper, mg/kg dw	<2.0	88 %	75-125 %	1.1 %	<20 %	
Lead, mg/kg dw	<0.50	88 %	75-125 %	0.93 %	<20 %	
Nickel, mg/kg dw	<4.0	82 %	75-125 %	0 %	<20 %	
Potassium, mg/kg dw	<100	100 %	75-125 %	1.5 %	<20 %	
Zinc, mg/kg dw	<2.0	87 %	75-125 %	7.3 %	<20 %	
Prep Date	02.21.03	02.21.03	---	02.21.03	---	
Analysis Date	02.24.03	02.24.03	---	02.24.03	---	
Moisture (% Loss on drying @ 105 C) (D2216), %	<0.10	101 %	80-120 %	0.20 %	<25 %	
Analysis Date	02.21.03	02.21.03	---	02.21.03	---	
Nitrate + Nitrite-N (353.2), mg/kg dw	<5.0	99 %	75-125 %	0.94 %	<30 %	
Analysis Date	02.27.03	02.27.03	---	02.27.03	---	
Total Kjeldahl Nitrogen-N (351.3), mg/kg dw	<50	100 %	65-135 %	1.1 %	<50 %	
Analysis Date	02.26.03	02.26.03	---	02.26.03	---	

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REPORT OF RESULTS

Page 8

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED			
50633-7	Method Blank				
50633-8	Accuracy (%Rec)				
50633-9	LCS Accuracy Control Limit (%R)				
50633-10	Precision (%RPD)				
50633-11	LCS Precision Control Limit (Advisory) %RPD				
PARAMETER	50633-7	50633-8	50633-9	50633-10	50633-11
Phosphorus, Total (365.2), mg/kg dw	<25	100 %	60-140 %	0.33 %	<40 %
Analysis Date	02.27.03	02.27.03	---	02.27.03	---
pH (9045), units	6.3	100 %	63-158 %	0 %	<40 %
Analysis Date	02.20.03	02.20.03	---	02.20.03	---
Fecal Coliform MPN (SM9221C), MPN/100ml	<2.0	---	NA	0 %	<200 %
Analysis Date	02.20.03	---	---	02.20.03	---

# SAMPLE CUSTODY CHECKLIST / EXCURSIONS

STL LOG NUMBER: A35 0633

CLIENT: LTL

DATE: 2-20-03 TIME: 1448

BAILERS RECEIVED: -

TEMP: 4

INITIALS: [Signature]

DELIVERED BY:

SAMPLE ID	ENCORES			AQUEOUS										NONAQUEOUS						DELIVERED BY:						
	CH3OH	H2O	NaHSO4H2O	L n/m plastic	L n/m amber glass w/TFE	500 ml m/m plastic	500 ml m/m amber glass	1 L w/m glass	250 ml m/m raigene	125 ml m/m amber glass w/T	100 ml m/m plastic	Bacti Cups	40 ml vial w/TFE		500 ml w/m glass	500 ml w/m plastic	250 ml w/m plastic	125 ml w/m amber glass w/TFE	100 ml w/m plastic	250 ml w/m glass	Encores	Tedlar Bag/VACU Sampler		FEDEX		
Leachate					5																				UPS	
Finished Compost																										BUS
RAW																										CL
Outside Air																										STL
Air Scrubber																										OTHER
																										Additional Info



# Chain of Custody Record

# 3 50633



## Severn Trent Laboratories, Inc.

STL-4124 (1200)

Client <b>CENTRAL TESTING LABORATORY</b>		Project Manager		Date <b>2/20/03</b>	Chain of Custody Number <b>086582</b>
Address <b>723 SOUTH 14TH STREET</b>		Telephone Number (Area Code)/Fax Number <b>052 787-1268 052 788 2245</b>		Lab Number	
City <b>LEESORE</b>	State <b>FL</b>	Zip Code <b>34748</b>	Site Contact <b>AL KEAR</b>	Page <b>1</b> of <b>1</b>	

Project Name and Location (State) <b>SUNTER COUNTY PUCXIC WORKS LANDFILL</b>	Carrier/Waybill Number	Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives						Analysis (Attach list if more space is needed)														
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	% MOISTURE	ORGANIC MATTER	T. METALLEN	T. PHOSPHORUS	Cd, Cu, K, Pb, Ni	Zn	PH	FECAL COLIFORM		(MPN/GRAM VS5)	REDUCTIN-IN	ORGANIC MATTER			
SO-1 FINISHED COMPOST	2/20/03	9:30				X										X	X	X	X	X	X	X					
SO-2 RAW	↓	8:15				X										X	X					X					

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown	Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 3 months)
---	--	--

Turn Around Time Required <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other _____	QC Requirements (Specify)
---	---------------------------

1. Relinquished By <i>[Signature]</i>	Date <b>2/20/03</b>	Time <b>10:15</b>	1. Received By <i>[Signature]</i>	Date <b>2/20/03</b>	Time <b>10:15</b>
2. Relinquished By <i>[Signature]</i>	Date <b>2/20/03</b>	Time <b>11:30</b>	2. Received By <i>[Signature]</i>	Date <b>2-20-03</b>	Time <b>1130</b>
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy