

Hsu, Benjamin

From: Wiesman, Ronald <WiesmanR@hillsboroughcounty.org>
Sent: Wednesday, January 16, 2019 10:30 AM
To: Morgan, Steve; Barker, Maurice; Kautz, Lance; SWD_Waste
Cc: Byer, Kimberly; Schinella, Beth; O'Neill, Joseph; Ruiz, Larry
Subject: Hillsborough County December Composting Report
Attachments: December2018 Rpt.pdf

Mr. Morgan,

The December composting report for Hillsborough County is attached.
Please advise should you have any questions concerning the information provided.

Thank you,

Ron Wiesman II

Senior Supervisor

Solid Waste Management Division
Transportation & Utilities Services

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SOLID WASTE MANAGEMENT

PO Box 1110 Tampa, FL 33601-1110
813-272-5680

MEMORANDUM

DATE January 16, 2019

TO: Steve Morgan, Environmental Permitting Manager, FDEP
Maurice Barker, Biosolids Coordinator, FDEP
Lance Kautz, Environmental Specialist I, FDEP

**INFRASTRUCTURE SERVICES
ADMINISTRATOR**

John Lyons

FROM: Ron Wiesman, Senior Supervisor, Solid Waste
Management Division

SUBJECT: Hillsborough County Biosolids Composting Monthly Report: December 2018

Biosolids Received (wet tons):	674.53 tons of biosolids received for the month.
Source of Biosolids:	Hillsborough County Falkenburg AWWTP
Source of Bulking Agent:	Consolidated Resource Recovery
General Description of Activities:	All incoming biosolids were mixed with bulking agent and formed into windrows on the same day as received. 4 windrows were formed and in active composting as of 12/31/18. Windrow temperatures were monitored daily. 1 windrows has met temperature and time requirements of the Process to Further Reduce Pathogens (PFRP). 1 windrow has been turned. Sampling was performed on December 12, 2018. 89.48 tons of finished compost was picked up by Life Soils.
Attachments:	A-D: Windrow construction and temperature records.

RWW/ya
Attachments

CC: Beth Schinella, Division Director, Utility Operations, PUD
Kim Byer, Division Director, Solid Waste Management Division
Joseph O'Neill, Professional Engineer II, Solid Waste Management Division
Larry Ruiz, Section Manager, Solid Waste Management Division]

Attachment A

Hillsborough County Composting - Monitoring Sheet (MSAP Method)					Windrow # 18-12-11	
Windrow Construction:			Date Commenced: 12-6-18		Date Completed: 12-12-18	
Date	Operator Name	Biosolids (tons)	Biosolids (yards)	Yard Waste (yards)	Overs (yards)	Cover (yards)
12/6/18	Mike Bayne	18.96	24.65	44	20	
12/6/18	Mike Bayne	21.47	27.91	44	20	60
12/7/18	Oscar Ochoa	12.79	16.63	64		
12/7/18	Oscar Ochoa	14.09	18.32	64		60
12/10/18	Oscar Ochoa	20.57	26.74	64		
12/10/18	Oscar Ochoa	20.91	27.18	64		60
12/12/18	Mike Bayne	21.69	28.20	64		50
Totals		130.48	169.62	408.00	40.00	230.00
Windrow Construction ratio:		4.00 /1				
Note: Yard waste yards = number of buckets * 4.00						

MSAP Process Temperature Chart Windrow# 18-5-26																						
Temperature: Shading equals temperature 131 or greater for PFRP.																						
Days	Date	Point 1				Point 2				Point 3				Point 4				Average				Turn
		10	20	30	40	10	20	30	40	10	20	30	40	10	20	30	40	10"	20"	30"	40"	
1	12/13/18	149	162	171	178	142	154	163	170	140	150	157	160	168	177	182	180	149.75	160.75	168.25	172	
2	12/14/18	138	156	160	160	144	153	158	163	154	160	163	165	158	166	172	174	148.5	158.75	163.25	165.5	
3	12/15/18	146	159	163	167	150	155	161	165	157	160	165	168	162	164	169	173	153.75	159.5	164.5	168.25	
4	12/16/18																					
5	12/17/18	139	152	169	172	147	158	162	164	156	164	168	171	154	162	166	167	149	159	166.25	168.5	
6	12/18/18	140	154	160	163	146	152	157	162	143	151	152	160	151	160	168	172	145	154.25	159.25	164.25	
7	12/19/18	142	152	160	162	140	150	158	162	150	161	168	166	149	168	166	160	145.25	157.75	163	162.5	
8	12/20/18	144	153	160	161	141	149	160	161	142	153	159	163	146	154	163	159	143.25	152.25	160.5	161	
9	12/21/18	144	154	159	160	138	144	148	146	136	141	147	150	135	142	153	161	138.25	145.25	151.75	154.25	
10	12/22/18	142	154	160	162	140	150	152	148	138	146	152	152	139	147	158	162	139.75	149.25	155.5	156	
11	12/23/18																					
12	12/24/18	140	154	163	166	142	160	166	169	158	162	164	164	140	153	162	168	145	157.25	163.75	166.75	
13	12/25/18																					
14	12/26/18	137	142	159	165	138	147	155	162	141	156	163	166	140	156	168	172	139	150.25	161.25	166.25	
15	12/27/18	140	149	155	167	139	145	155	160	140	152	160	162	141	151	152	163	140	149.25	155.5	163	
16	12/28/18	144	150	152	158	141	140	139	140	135	139	140	141	138	141	151	165	139.5	142.5	145.5	151	Turn
17	12/29/18	145	151	155	160	148	145	145	140	140	144	141	140	141	145	148	150	143.5	146.25	147.25	147.5	
18	12/30/18																					
19	12/31/18	145	154	160	162	150	152	150	146	144	151	150	144	146	152	156	152	146.25	152.25	154	151	

Attachment B

Hillsborough County Composting - Monitoring Sheet (MSAP Method)					Windrow # 18-12-17	
Windrow Construction:			Date Commenced: 12-12-18	Date Completed: 12-17-18		
Date	Operator Name	Biosolids (tons)	Biosolids (yards)	Yard Waste (yards)	Overs (yards)	Cover (yards)
12/12/18	Mike Bayne	21.24	27.61	64		40
12/13/18	Mike Bayne	22.26	28.94	64		
12/13/18	Mike Bayne	20.18	26.23	64		60
12/14/18	Jerry Devoe	17.71	23.02	64		
12/14/18	Jerry Devoe	13.29	17.28	64		60
12/15/18	Jerry Devoe	21.15	27.50	64		
12/15/18	Jerry Devoe	23.64	30.73	64		60
12/17/18	Oscar Ochoa	23.76	30.89	64		40
Totals		163.23	212.20	512.00	0.00	260.00
Windrow Construction ratio:		3.64 /1				
Note: Yard waste yards = number of buckets * 4.00						

MSAP Process Temperature Chart Windrow# 18-12-17																						
Temperature: Shading equals temperature 131 or greater for PFRP.																						
Days	Date	Point 1				Point 2				Point 3				Point 4				Average				Turn
		10	20	30	40	10	20	30	40	10	20	30	40	10	20	30	40	10"	20"	30"	40"	
1	12/18/18	143	150	151	145	142	154	156	156	145	152	153	151	142	150	153	150	143	151.5	153.25	150.5	
2	12/19/18	162	165	164	159	158	163	164	162	152	156	160	160	158	158	149	136	157.5	160.5	159.25	154.25	
3	12/20/18	163	164	166	162	155	160	162	163	149	151	157	156	154	152	149	149	155.25	156.75	158.5	157.5	
4	12/21/18	160	162	160	160	154	160	162	162	152	154	158	158	154	158	156	152	155	158.5	159	158	
5	12/22/18	158	161	162	160	154	162	162	163	151	155	161	160	154	160	162	160	154.25	159.5	161.75	160.75	
6	12/23/18																					
7	12/24/18	156	158	158	156	156	163	166	165	158	165	166	165	168	175	176	174	159.5	165.25	166.5	165	
8	12/25/18																					
9	12/26/18	156	160	160	159	148	161	166	167	143	159	165	167	157	168	174	174	151	162	166.25	166.75	
10	12/27/18	145	153	160	167	148	160	164	169	144	155	160	165	134	143	149	151	142.75	152.75	158.25	163	
11	12/28/18	144	150	155	162	150	152	160	170	150	152	152	150	140	143	152	155	146	149.25	154.75	159.25	
12	12/29/18	145	148	152	155	151	155	162	163	151	151	158	160	141	145	155	165	147	149.75	156.75	160.75	
13	12/30/18																					
14	12/31/18	142	148	156	158	150	154	162	163	148	152	160	160	142	148	160	161	145.5	150.5	159.5	160.5	

Attachment C

Hillsborough County Composting - Monitoring Sheet (MSAP Method)					Windrow # 18-12-22	
Windrow Construction:			Date Commenced: 12-18-18		Date Completed: 12-22-18	
Date	Operator Name	Biosolids (tons)	Biosolids (yards)	Yard Waste (yards)	Overs (yards)	Cover (yards)
12/18/18	Oscar Ochoa	24.44	31.77	64		
12/18/18	Oscar Ochoa	21.66	28.16	64		60
12/19/18	Mike Bayne	17.05	22.17	64		
12/19/18	Mike Bayne	20.40	26.52	64		60
12/20/18	Mike Bayne	20.53	26.69	64		40
12/21/18	Jerry Devoe	22.52	29.28	64		
12/21/18	Jerry Devoe	20.70	26.91	64		60
12/22/18	Oscar Ochoa	23.06	29.98	64		50
Totals		170.36	221.47	512.00	0.00	270.00
Windrow Construction ratio:		3.53 /1				
Note: Yard waste yards = number of buckets * 4.00						

MSAP Process Temperature Chart Windrow# 18-12-22																						
Temperature: Shading equals temperature 131 or greater for PFRP.																						
Days	Date	Point 1				Point 2				Point 3				Point 4				Average				Turn
		10	20	30	40	10	20	30	40	10	20	30	40	10	20	30	40	10"	20"	30"	40"	
1	12/23/18	148	152	150	148	143	148	146	148	138	146	148	148	144	148	140	138	143.25	148.5	146	145.5	
2	12/24/18	152	160	166	168	150	155	158	161	140	148	152	152	148	150	142	144	147.5	153.25	154.5	156.25	
3	12/25/18																					
4	12/26/18	141	152	160	164	138	157	163	165	141	149	153	156	136	141	145	152	139	149.75	155.25	159.25	
5	12/27/18	153	155	159	162	151	148	150	153	147	149	153	159	146	149	155	163	149.25	150.25	154.25	159.25	
6	12/28/18	155	160	160	161	155	150	150	150	148	150	152	160	150	155	160	161	152	153.75	155.5	158	158
7	12/29/18	152	161	162	163	151	155	155	160	150	152	155	162	151	155	160	161	151	155.75	158	161.5	
8	12/30/18																					
9	12/31/18	152	160	162	162	152	155	158	161	152	154	155	161	154	158	162	163	152.5	156.75	159.25	161.75	

Attachment D

Hillsborough County Composting - Monitoring Sheet (MSAP Method)					Windrow # 18-12-29	
Windrow Construction:			Date Commenced: 12-24-18	Date Completed: 12-29-18		
Date	Operator Name	Biosolids (tons)	Biosolids (yards)	Yard Waste (yards)	Overs (yards)	Cover (yards)
12/24/19	Oscar Ochoa	21.64	28.13	64		
12/24/19	Oscar Ochoa	20.27	26.35	64		60
12/26/19	Mike Bayne	23.04	29.95	64		40
12/27/19	Mike Bayne	20.05	26.07	64		
12/27/19	Mike Bayne	16.77	21.80	64		60
12/28/19	Jerry Devoe	23.30	30.29	64		40
12/29/19	Jerry Devoe	21.58	28.05	64		
12/29/19	Oscar Ochoa	21.82	28.37	64		60
Totals		168.47	219.01	512.00	0.00	260.00
Windrow Construction ratio:		3.52 /1				
Note: Yard waste yards = number of buckets * 4.00						

MSAP Process Temperature Chart Windrow# 18-12-29																						
Temperature: Shading equals temperature 131 or greater for PFRP.																						
Days	Date	Point 1				Point 2				Point 3				Point 4				Average				Turn
		10	20	30	40	10	20	30	40	10	20	30	40	10	20	30	40	10"	20"	30"	40"	
1	12/30/18																					
2	12/31/18	140	144	140	138	140	146	142	139	146	148	144	136	142	138	136	132	142	144	140.5	136.25	