New York City MSW Composting Report

Appendix C
Marlborough Facility Scale Receipts

Facility Temperature Data Sheet #1
Digester 2 (D2) = NYC Material

Operator Vim Hogan Date 2-26-01 MON.

Digesters

D1

	1	2	3	4	5
Moistures		68%			55%
Temperatures	68	90	100	104	110
	70	92	105	106	108
Depths	2.5	3.5	3.5	6	7
CO2	2%			1%	

F.S. 52%

— 0500 —

— 0800 —

D2

	1	2	3	4	5
Moistures		54%			
Temperatures	142	158	158	160	158
	142	158	160	160	152
Depths	1.5	3.5	3	3.5	4
CO2	2%			2%	

BioFilter

	North End	Bay 1		Bay 2		Bay 3		Bay 4		Bay 5		South End
		1	2	3	4	5	6	7	8	9	10	
Back Pressure		3.9	3.9	3.8	3.8	3.7	3.6	3.6	3.2	3.4	3.3	0830
Depth	~~Moisture~~	7 7/8	7 3/4	7 1/4	9 1/2	6 7/8	8 3/4	12	7 1/4	6 1/4		
	Depth	4 7/8	5 7/8	4 3/4	8 1/2	7 1/4	6 1/2	8 1/4	9 1/2	5 1/4		
	VOC											
	Dry Spots						H_2O					
	Sprinklers											

Scrubbers

Back Pressure

BF # 3

IN	OUT	TOTAL
5.2	3.9	9.1

BF #4

IN	OUT	TOTAL
5.5	3.9	9.4

Notes/Comments:

Facility Temperature Data Sheet # 2
Digester 2 (D2) = NYC Material

Operator Jim Hogan Date 2-27-01

Digesters

D1

	1	2	3	4	5
Moistures	*	*			52%
Temperatures	60	80	110	120	120
Depths	8	9.5	9	11	11
CO2	off loading				

D2

	1	2	3	4	5
Moistures		53%			62%
Temperatures	110	140	160	160	160
Depths	5½	7½	7	7	5
CO2	off loading				

BioFilter

	North End	Bay 1		Bay 2		Bay 3		Bay 4		Bay 5		South End
		1	2	3	4	5	6	7	8	9	10	0840
Back Pressure		3.9	3.8	3.6	3.8	3.6	3.2	3.5	3.3	3.4	3.3	
Moisture					53%			54%	62%			
Depth												
VOC												
Dry Spots							H_2O					
Sprinklers												

Scrubbers

Back Pressure

BF # 3

IN	OUT	TOTAL
5.5	3.9	9.4

BF #4

IN	OUT	TOTAL
5.8	3.8	9.6

Notes/Comments: * unable to get A good grab sample mostly dry paper + solids no sign of sludge 0830

Biofilter moisture samples taken @ 2' below surface

Worked on Monthly Composite paper work

Facility Temperature Data Sheet #3

Temperature Readings from Five Compartments of Digester with NYC Material

BEDMINSTER MARBOROUGH , LLC

DIGESTER DATA

BATCH NUMBER: D-2/ 02-27-0 Digester#-Month of Loading-Day of Loading-Year

BATCH MIX:

MSW ~~42.1~~ tons | MSS 0 tons | WATER 349 gallons

LOAD AND UNLOAD TIME 130 MIN. LOADING | UNLOADING | DISCHARGE DATE

DATE	TIME (AM/PM)	CMPRMNT #	TEMP (F)	MOISTURE CONTENT (% W BASIS)	CMPTMT DEPTH (feet)	PD BLOWER (CFM)	ph		
2/28/01	5:00AM	#1	80		4	~~28~~ Hz			
		#2	120		6				
		#3	140		6				
		#4	150		7				
		#5	150		5.5				
	5:00AM	#1				~~35~~ Hz			
		#2							
		#3							
		#4							
		#5							
	5:00AM	#1				~~25~~ Hz			
		#2							
		#3							
		#4							
		#5							

Facility Temperature Data Sheet #4
Digester 2 (D2) = NYC Material

Operator Jim Hogan Date 3-1-01 Thurs

Digesters

D1

	1	2	3	4	5
Moistures		60%			57%
Temperatures	<50	72	98	110	108
Depths	6.5	7.5	7.5	7	8
CO2	0%			1%	

D2

	1	2	3	4	5
Moistures		60%			51%
Temperatures (0520)	62	120	130	146	148
Depths					
CO2	2%			1%	

BioFilter

	North End	Bay 1		Bay 2		Bay 3		Bay 4		Bay 5		South End
		1	2	3	4	5	6	7	8	9	10	
Back Pressure		3.3	3.1	3.1	3.2	3.2	2.9	3.1	3	3	2.9	
Moisture												
Depth												
VOC												
Dry Spots								H2O				
Sprinklers												

Scrubbers

Back Pressure

BF # 3

IN	OUT	TOTAL
5.8	3.2	9

BF #4

IN	OUT	TOTAL
6	3.5	9.5

Notes/Comments: _____

Facility Temperature Data Sheet #5
Digester 2 (D2) = NYC Materials

Operator Jim Hogan Date 3-2-01 ERT

Digesters

D1

	1	2	3	4	5
Moistures		51%			60%
Temperatures	50	56	90	110	110
Depths	6	8.5	8	9	10
CO2	*				

F.S. 44%

D2

	1	2	3	4	5
Moistures		68%			49%
Temperatures	65	115	120	138	140
Depths	5.5	7	7.5	8	9
CO2					

BioFilter

	North End	Bay 1		Bay 2		Bay 3		Bay 4		Bay 5		South End
		1	2	3	4	5	6	7	8	9	10	
Back Pressure		3.2	3	3	3.1	3.1	3	3.1	2.9	3	3	0615
Moisture												
Depth												
VOC												
Dry Spots					H20							
Sprinklers												

Scrubbers

Back Pressure

BF # 3

IN	OUT	TOTAL
6	3.2	9.2

BF #4

IN	OUT	TOTAL
6	3.3	9.3

Notes/Comments: * have to order new tips for CO_2 test probe

Facility Temperature Data Sheet #1

Aeration Floor Compost Data

Date: 3/7/01

Floor Number Format: Year/Month/Day Material Was Placed on Floor

Zone		Aeration Blower	Material Floor No.	Temperature (F)			AVG Temp	Moisture %	pH
Z		1							
O		2							
N		3							
E		4							
#1		5							
Z		6							
O		7							
N		8							
E		9							
#2		10							
Z		11							
O		12							
N			2-01-3-03						
E		14	2-01-3-02-2-01-3-01	140 F	132 F	120 F			
#3		15	2-01-3-07 2-01-3-05	110 F	120 F	130 F			
Z			2-01-3-03						
O		17							
N		18							
E		19							
#4		20							

Facility Temperature Data Sheet #2

Aeration Floor Compost Data

Date: 3/9/01

Floor Number Format: Year/Month/Day Material Was Placed on Floor

Zone		Aeration Blower	Material Floor No.	Temperature (F)			AVG Temp	Moisture %	pH
Z		1							
O		2							
N		3							
E		4							
#1		5							
Z		6							
O		7							
N		8							
E		9							
#2		10							
Z		11							
O			2-01-3-03						
N		13	2-01-3-02 2-01-3-01	110 F	120 F	120 F			
E		14	2-01-3-07 2-01-3-05	120 F	120 F	126 F			
#3			2-01-3-03-						
Z		16							
O		17							
N		18							
E		19							
#4		20							

Facility Temperature Data Sheet #3

Aeration Floor Compost Data

Date: 3/12/01

Floor Number Format: Year/Month/Day Material Was Placed on Floor

Zone		Aeration Blower	Material Floor No.	Temperature (F)			AVG Temp	Moisture %	pH
Z		1							
O		2							
N		3							
E		4							
#1		5							
Z		6							
O		7							
N		8							
E		9							
#2		10							
Z		11							
O			2-01-3-03						
N		13	2-01-3-02 2-01-3-01	124 F	130 F	126 F			
E		14	2-01-3-07 2-01-3-05	120 F	114 F	116 F			
#3			2-01-3-03						
Z		16							
O		17							
N		18							
E		19							
#4		20							

Facility Temperature Data Sheet #4

Aeration Floor Compost Data

Date: 3/13/01

Floor Number Format: Year/Month/Day Material Was Placed on Floor

Zone		Aeration Blower	Material Floor No.	Temperature (F)			AVG Temp	Moisture %	pH
Z		1							
O		2							
N		3							
E		4							
#1		5							
Z		6							
O		7							
N		8							
E		9							
#2		10							
Z		11							
O		12							
N			2-01-3-03						
E		14	2-01-3-02 2-01-3-01	100 F	138 F	130 F			
#3		15	2-01-3-07 2-01-3-05	136 F	132 F	130 F			
Z			2-01-3-03						
O		17							
N		18							
E		19							
#4		20							

Facility Temperature Data Sheet #5

Aeration Floor Compost Data

Date: 3/14/01

Floor Number Format: Year/Month/Day Material Was Placed on Floor

Zone		Aeration Blower	Material Floor No.	Temperature (F)			AVG Temp	Moisture %	pH
Z		1							
O		2							
N		3							
E		4							
#1		5							
Z		6							
O		7							
N		8							
E		9							
#2		10							
Z		11							
O		12							
N			2-01-3-03						
E		14	2-01-3-02 2-01-3-01	150 F	144 F	152 F			
#3		15	2-01-3-07 2-01-3-05	146 F	140 F	138 F			
Z			2-01-3-03						
O		17							
N		18							
E		19							
#4		20							

Facility Temperature Data Sheet #6

Aeration Floor Compost Data

Date: 3/15/01

Floor Number Format: Year/Month/Day Material Was Placed on Floor

Zone		Aeration Blower	Material Floor No.	Temperature (F)			AVG Temp	Moisture %	pH
Z		1							
O		2							
N		3							
E		4							
#1		5							
Z		6							
O		7							
N		8							
E		9							
#2		10							
Z		11							
O			2-01-3-03						
N		13	2-01-3-02 2-01-3-01	120 F	130 F	140 F			
E		14	2-01-3-07 2-01-3-05	150 F	136 F	140 F			
#3			2-01-3-03						
Z		16							
O		17							
N		18							
E		19							
#4		20							

Facility Temperature Data Sheet #7

Aeration Floor Compost Data

Floor Number Format: Year/Month/Day Material Was Placed on Floor

Date: 3/20/01

Zone		Aeration Blower	Material Floor No.	Temperature (F)			AVG Temp	Moisture %	pH
Z		1							
O		2							
N		3							
E		4							
#1		5							
Z		6							
O		7							
N		8							
E		9							
#2		10							
Z		11							
O			2-01-3-03						
N		13	2-01-3-02 2-01-3-01	120 F	122 F	124 F	122 F		
E		14	2-01-3-07 2-01-3-05	140 F	140 F	155 F	145 F		
#3			2-01-3-03						
Z		16	2-01-3-16 2-01-3-15	100	110	110	106.6 F		
O		17	2-01-3-20 2-01-3-19	102	102	110	104.6 F		
N			2-01-3-17						
E		19							
#4		20							

Facility Temperature Data Sheet #8

Aeration Floor Compost Data

Date: **3/21/01**

Floor Number Format: Year/Month/Day Material Was Placed on Floor

Zone		Aeration Blower	Material Floor No.	Temperature (F)			AVG Temp	Moisture %	pH
Z		1							
O		2							
N		3							
E		4							
#1		5							
Z		6							
O		7							
N		8							
E		9							
#2		10							
Z			2-01-3-03						
O		12	2-01-3-02 2-01-3-01	120 F	134 F	138 F	**130.6 F**		
N		13	2-01-3-07 2-01-3-05	140 F	140 F	136 F	**138.6 F**		
E			2-01-3-03						
#3		15	2-01-3-16 2-01-3-15	118 F	110 F	110 F	**112.6 F**		
Z		16	2-01-3-20 2-01-3-19	110 F	102 F	104 F	**105.3 F**		
O			2-01-3-17						
N		18							
E		19							
#4		20							

Facility Temperature Data Sheet #9

Aeration Floor Compost Data

Date: **3/22/01**

Floor Number Format: Year/Month/Day Material Was Placed on Floor

Zone		Aeration Blower	Material Floor No.	Temperature (F)			AVG Temp	Moisture %	pH
Z		1							
O		2							
N		3							
E		4							
#1		5							
Z		6							
O		7							
N		8							
E		9							
#2		10							
Z			2-01-3-03						
O		12	2-01-3-02 2-01-3-01	130 F	140 F	132 F	**134 F**		
N		13	2-01-3-07 2-01-3-05	142 F	140 F	140 F	**140.6 F**		
E			2-01-3-03						
#3		15	2-01-3-16 2-01-3-15	111 F	106 F	120 F	**112.3 F**		
Z		16	2-01-3-20 2-01-3-19	116 F	108 F	114 F	**112.6 F**		
O			2-01-3-17						
N		18							
E		19							
#4		20							

DATA TAKEN BY GENO

Facility Temperature Data Sheet #10

Aeration Floor Compost Data

Date: 3/23/01

Floor Number Format: Year/Month/Day Material Was Placed on Floor

Zone		Aeration Blower	Material Floor No.	Temperature (F)			AVG Temp	Moisture %	pH
Z		1							
O		2							
N		3							
E		4							
#1		5							
Z		6							
O		7							
N		8							
E		9							
#2		10							
Z			2-01-3-03						
O		12	2-01-3-02 2-01-3-01	156 F	142 F	140 F	**146 F**		
N		13	2-01-3-07 2-01-3-05	136 F	150 F	144 F	**143.3 F**		
E			2-01-3-03						
#3		15	2-01-3-16 2-01-3-15	108 F	112 F	122 F	**114 F**		
Z		16	2-01-3-20 2-01-3-19	110 F	109 F	110 F	109.6		
O			2-01-3-17						
N		18							
E		19							
#4		20							

DATA WRITEN BY GENO

Facility Temperature Data Sheet #11

Aeration Floor Compost Data

Date: **3/27/01**

Floor Number Format: Year/Month/Day Material Was Placed on Floor

Zone		Aeration Blower	Material Floor No.	Temperature (F)			AVG Temp	Moisture %	pH
Z		1							
O		2							
N		3							
E		4							
#1		5							
Z		6							
O		7							
N		8							
E		9							
#2		10							
Z			2-01-3-01						
O		12	2-01-3-02 2-01-3-01	70 F	140 F	130 F	**113.3 F**		
N		13	2-01-3-07 2-01-3-05	138 F	136 F	132 F	**135.3 F**		
E			2-01-3-03						
#3		15	2-01-3-16 2-01-3-15	120 F	114 F	110 F	**114.6 F**		
Z		16	2-01-3-20 2-01-3-19	108 F	108 F	110 F	**108.6 F**		
O			2-01-3-17						
N		18							
E		19							
#4		20							

DATA WRITEN BY GENO

Facility Temperature Data Sheet #12

Aeration Floor Compost Data

Date: **3/28/01**

Floor Number Format: Year/Month/Day Material Was Placed on Floor

Zone		Aeration Blower	Material Floor No.	Temperature (F)			AVG Temp	Moisture %	pH
Z		1							
O		2							
N		3							
E		4							
#1		5							
Z		6							
O		7							
N		8							
E		9							
#2		10							
Z			2-01-3-03						
O		12	2-01-3-02 2-01-3-01	80 F	114 F	120 F	**104.6 F**		
N		13	2-01-3-07 2-01-3-05	120 F	126 F	130 F	**125.3 F**		
E			2-01-3-03						
#3		15	2-01-3-16 2-01-3-15	108 F	112 F	110 F	**110 F**		
Z		16	2-01-3-20 2-01-3-19	112 F	107 F	108 F	**109 F**		
O			2-01-3-17						
N		18							
E		19							
#4		20							

DATA WRITEN BY GENO

Facility Temperature Data Sheet #13

Aeration Floor Compost Data

Date: **3/29/01**

Floor Number Format: Year/Month/Day Material Was Placed on Floor

Zone		Aeration Blower	Material Floor No.	Temperature (F)			AVG Temp	Moisture %	pH
Z		1							
O		2							
N		3							
E		4							
#1		5							
Z		6							
O		7							
N		8							
E		9							
#2		10							
Z		11							
O			2-01-3-03						
N		13	2-01-3-02 2-01-3-01	110	120	114	**114.6 F**		
E		14	2-01-3-07 2-01-3-05	100	150	150	**133.3 F**		
#3			2-01-3-03						
Z		16	2-01-3-16 2-01-3-15	110	114	116	**113.3 F**		
O		17	2-01-3-20 2-01-3-19	100	100	116	**105.3 F**		
N			2-01-3-17						
E		19							
#4		20							

DATA WRITEN BY GENO

Facility Temperature Data Sheet #14

Aeration Floor Compost Data

Date: 3/29/01

Floor Number Format: Year/Month/Day Material Was Placed on Floor

Zone		Aeration Blower	Material Floor No.	Temperature (F)			AVG Temp	Moisture %	pH
Z		1							
O		2							
N		3							
E		4							
#1		5							
Z		6							
O		7							
N		8							
E		9							
#2		10							
Z		11							
O			2-01-3-03						
N		13	2-01-3-02 2-01-3-01	110	120	114	**114.6 F**		
E		14	2-01-3-07 2-01-3-05	100	150	150	**133.3 F**		
#3			2-01-3-03						
Z		16	2-01-3-16 2-01-3-15	110	114	116	**113.3 F**		
O		17	2-01-3-20 2-01-3-19	100	100	116	**105.3 F**		
N			2-01-3-17						
E		19							
#4		20							

DATA WRITEN BY GENO

Facility Temperature Data Sheet #15

Aeration Floor Compost Data

Date: 3/31/01

Floor Number Format: Year/Month/Day Material Was Placed on Floor

Zone		Aeration Blower	Material Floor No.	Temperature (F)			AVG Temp	Moisture %	pH
Z		1							
O		2							
N		3							
E		4							
#1		5							
Z		6							
O		7							
N		8							
E		9							
#2		10							
Z		11							
O		12							
N		13							
E		14							
#3		15							
Z		16	2-01-3-16 2-01-3-15	120	122	112	**118 F**		
O		17	2-01-3-20 2-01-3-19	110	102	100	**104 F**		
N			2-01-3-17						
E		19							
#4		20							

DATA WRITEN BY GENO

Facility Temperature Data Sheet #16

Aeration Floor Compost Data

Date: **4/3/01**

Floor Number Format: Year/Month/Day Material Was Placed on Floor

Zone		Aeration Blower	Material Floor No.	Temperature (F)			AVG Temp	Moisture %	pH
Z		1							
O		2							
N		3							
E		4							
#1		5							
Z		6							
O		7							
N		8							
E		9							
#2		10							
Z		11							
O			2-01-3-07						
N		13	2-01-3-05 2-01-3-03	100	110	110	**106.6 F**		
E			2-01-3-02 2-01-3-01						
#3		15							
Z		16	2-01-3-16 2-01-3-15	120	112	110	**114 F**		
O		17	2-01-3-20 2-01-3-19	118	114	114	**115.3 F**		
N			2-01-3-17						
E		19							
#4		20							
			DATA WRITEN BY GENO						