

New York State Department of Environmental Conservation
Division of Materials Management
Albany, New York 12233-7253

<p>2020</p> <p>PERMITTED FACILITY ANNUAL REPORT BIOSOLIDS</p> <p>COMPOSTING/OTHER PROCESSING</p> <p>6 NYCRR Part 361-3.2</p>
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This annual report is for the year of operation from January 01, 2020 to December 31, 2020

Annual Report Form Due: No Later than March 1, 2021

This form is for biosolids composting facilities that are permitted under section 361-3.2 previously 360-5 of Part 360. Permits for existing permitted facilities prior to November 2017 remain in effect until their expiration date, unless a modification is issued. Permittees must comply with the previous Part 360 regulations and their permit's special conditions until renewal or modification.

Forms for all solid waste management facilities can be found at <http://www.dec.ny.gov/chemical/52706.html>. If you have any questions on this form, please e-mail organicrecycling@dec.ny.gov.

Failure to provide the required information requested is a violation of Environmental Conservation Law. Timely submission of a properly completed form to the Department's Regional Office that has jurisdiction over your facility and to the Department's Central Office is required to meet the Annual Report requirements of 6 NYCRR Part 360 series.

Attach additional sheets if space on the pages is insufficient or supplementary information is required or appropriate.

PERMITTED FACILITY NAME:	<u>Village of Marcellus Compost Facility</u>
PERMIT NUMBER:	<u>7-3140-00005/00003</u>
SW FACILITY ACTIVITY NUMBER: (Ex. 02PP0099)	<u>34C10</u>
COUNTY WHERE FACILITY IS LOCATED:	<u>Onondaga County</u>

DEC USE ONLY	
Region:	SWIMS:
	MATRIX:
Date Reviewed:	
Reviewed By:	
Data Entered:	

**PERMITTED BIOSOLIDS COMPOSTING FACILITY ANNUAL REPORT
SECTION 1 – FACILITY INFORMATION**

FACILITY INFORMATION			
FACILITY NAME: Village of Marcellus Compost Facility			
FACILITY LOCATION ADDRESS: 6 Mile High Drive	FACILITY CITY: Marcellus	STATE: NY	ZIP CODE: 13108
FACILITY TOWN: Marcellus	FACILITY COUNTY: Onondaga	FACILITY PHONE NUMBER: 315-673-4491	
NYSDEC REGION #: 7			
FACILITY CONTACT: Greg Crysler			
CONTACT PHONE NUMBER: 315-506-9253			
CONTACT EMAIL ADDRESS: wpcpmar@gmail.com			
OWNER INFORMATION			
OWNER NAME: Village of Marcellus	OWNER PHONE NUMBER: 315-673-3112		
OWNER ADDRESS: 6 Slocombe Ave	OWNER CITY: Marcellus	STATE: NY	ZIP CODE: 13108
OWNER CONTACT: Mayor John Curtin	OWNER CONTACT EMAIL ADDRESS: Marcellusmayor@centralny.twcbc.com		
OPERATOR INFORMATION			
OPERATOR NAME: <input type="checkbox"/> Same as owner Greg Crysler			
PREFERENCES			
Preferred address to receive correspondence: <input type="radio"/> Facility location address <input checked="" type="radio"/> Owner address <input type="radio"/> Other (provide):			
Preferred email address: <input checked="" type="radio"/> Facility Contact <input type="radio"/> Owner Contact <input type="radio"/> Other (provide):			
Preferred individual to receive correspondence: <input checked="" type="radio"/> Facility Contact <input type="radio"/> Owner <input type="radio"/> Owner Contact <input type="radio"/> Other (provide):			
Did you operate in 2020? <input checked="" type="radio"/> Yes; Complete this form. <input type="radio"/> No; Complete and submit Sections 1 and 13. If you no longer plan to operate and wish to relinquish your permit/registration associated with this solid waste management activity, please notify the regional office of your intent. See attachment for Regional Office addresses and contacts.			

SECTION 2 – QUANTITY OF MATERIAL RECEIVED

Please report quantities received from January 01, 2020 to December 31, 2020

Compost Input	Quantity	Unit	% Solids	Source
Biosolids (Sewage Sludge)	26	Dry Tons	16	Belt Filter Press
Bulking Agent/Amendment Specify: <u>Wood Chips</u>	225	Cubic Yards	50	Town chip pile
Other: _____		Choose Units		

SECTION 3 – COMPOST PRODUCTION

WHAT IS THE PROCESS DETENTION TIME? <i>Note: Total time material is processed, not including storage time</i>	51	_____ days
COMPOST PRODUCED DURING THE YEAR:	165	Cubic Yards
COMPOST DISTRIBUTED DURING THE YEAR:	143	Cubic Yards
QUANTITY CURRENTLY STOCKPILED: <i>Note: Finished product stockpiled</i>	22	Cubic Yards
AGE OF OLDEST PRODUCT ON SITE:	1.5	_____ months

SECTION 4 – COMPOST DISTRIBUTION

Quantity Distributed Cubic Yards	Use of Compost (landscaping, agriculture, highway, onsite, bagged, etc.)
30	Village Residents
12	Town Residents
32	Churches, Cemeteries, Park
69	Golf Courses, Commercial, Village

**Marcells Compost Facility
2020 Compost Recipients**

Quantity Taken (cubic yards)

30.00

12.00

38.00

63

143.00

Use of Compost (Public, Municipality, Nursery)

Village residents

Town residents

Churches, Cemeteries, Village

Golf Courses, Commercial

**Marcells Compost Facility
2020 Compost Recipients**

Name Village Residents	Address	Amount (cubic yards)	Use	Date
Wayne Smith	Kinderwood DR	3	lawn	5/11,6/9,6/25,7/9,7/21
David Beale	8 Baker Rd	9.00	Landscape beds	9/18/2021
Pat McHale	41 North St	3.00	lawn,landscape beds	6/2,9/21,10/23
Dave Bailey	Kinderwood DR	0.75	landscape beds	9/22/2021
Jensen	Reed St	0.20	flowers	10/23/2021
Byron Widger	11 Flower Ln	0.25	flower beds	7/30/2021
Elaine Scanlon	5 Orange St	5.70	flowers	5/26,6/1,6/23,7/21,8/21
Jamie Plis	33 North St	0.50	flower beds	10/1/2021
Sandy Caldwell	2 South St	0.25	flower beds	5/26,6/9
Mallory Reedy	5 First St	0.10	lawn	6/3/2021
Kathy Welch	12 Reed Pkwy	0.10	flowers	6/2/2021
Charlie Bentham	Kinderwood Dr	7.15	landscape beds	9/18,9/22,10/5

Total:12

30.00

**Marcells Compost Facility
2020 Compost Recipients**

Name	Address	Amount (cubic yards)	Use	Date
Non-Village Residents				
Brett Kotash	4870 Lawless Rd	2.00	flowers	6/1, 10/2
Eric Vetsch	4184 Deer Path	0.80	mulch new planting	6/11/2021
Al Monticello		3.00	landscape	4/1/2021
Bill Manciochi	3224 Rte 174	1.20	Flower beds	8/5,8/10,8/14
Dale Wilcox	2403 Amidon Dr	3.50	flower beds	8/20,10/7
J Sheldon	Constantia	1.00	landscaping	9/4/2021
Mick Levy	4241 Howlett Hill	0.50	lawn spots	9/23/2021

Total: (7) 12.00

Name	Address	Amount (cubic yards)	Use	Date
Village of Marcellus				
Village of Marcellus	6 Slocombe Ave	6.00	lawn repair seasonal	

Total: (1) 6.00

**Marcells Compost Facility
2020 Compost Recipients**

Name Not-for-Profit Orgs.	Address	Amount (cubic yards)	Use	Date
Catholic Church	Main St	2.00	grass repair	5/15/2021
Nine Mile Landing	Austindale Ave	4.00	landscape beds	5/15/2021
Marcellus Park	Platt Rd	12.00	landscape beds	6/1,8/18,9/28
Tom Lathrop	Main St	14.00	landscape beds	6/1,6/9,7/10,7/28,9/9,

Total: (4) 32.00

Name Businesses	Address	Amount (cubic yards)	Use	Date
Hillside Gardens	West Seneca Tpk	11.00	shrubs	8/13,10/29
Orhard Valley Golf	Rt 20	7.00	fairways	12/4/2021
Tanner Valley Golf	Tanner Rd	37.00	fairways	2/4,3/4,4/1
Mike Lanning	Rt 20	8.00	lawns	12/30/2021

Total: (4) 63.00

Year End Total: (40) 143.00 Cubic Yards

SECTION 5 – BIOSOLIDS ANALYSES

Please attach sampling analyses and laboratory reports as required under Part 360 or your permit. Copies of original laboratory results must be attached. All results, except pH and Total Solids, must be on a dry weight basis.

**Summarize data in table below or attached document.
Print additional pages as needed.**

Analysis Date =====>	4/16/20	6/5/20	8/7/20	10/9/20	Permit Pre 2017 Regs.	Permit Post 2017 Regs.
					Monthly Conc. (mg/kg)	Max. Conc. (mg/kg)
Arsenic (mg/kg)	ND	ND	ND	ND	41	41
Cadmium (mg/kg)	ND	ND	ND	ND	21	10
Chromium (mg/kg)	13	14	14	15	1,000	1,000
Copper (mg/kg)	480	430	460	550	1,500	1,500
Lead (mg/kg)	19	21	27	28	300	300
Mercury (mg/kg)	0.85	1.5	1.1	1.4	10	10
Molybdenum (mg/kg)	ND	ND	ND	ND	40	40
Nickel (mg/kg)	13	11	12	12	200	200
Selenium (mg/kg)	ND	ND	ND	ND	100	100
Zinc (mg/kg)	630	640	840	1000	2,500	2,500
TKN (mg/kg)	45000	31000	31000	29000		
Ammonia Nitrogen (mg/kg)	<0.2	2600	1200	3400		
Nitrate (mg/kg)	120	320	190	570		
Total Phosphorus (mg/kg)	20000	25000	26000	35000		
Total Potassium (mg/kg)	2500	2300	1700	2100		
pH (s.u.)	6.8	6.5	7.3	6.7		
Total Solids(%)	13	15	15	15		
Total Volatile Solids (%)	75	72	66	63		

1



Life Science Laboratories, Inc.

RECEIVED

MAY 14 2020

Greg Crysler/Mallory Reedy
Marcellus, Village of
6 Slocombe Ave
Marcellus, NY 13108

VILLAGE OF MARCELLUS

Phone: (315) 673-4491
FAX: (315) 673-3217
Authorization: PO# 17166
Federal Water
Supply ID: NY3304322

Laboratory Analysis Report Prepared For Marcellus, Village of

LSL Project ID: 2005393

Receive Date/Time: 04/16/20 10:30

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By the Client's acceptance and/or use of this report, the Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect the Client as regards to the results contained in this report. The Client further agrees that the only remedy available to the Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to the Client. The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without express prior written consent of Life Science Laboratories, Inc. This report may only be reproduced in its entirety. No partial duplication is allowed. The Chain of Custody and the Sample Receipt documents submitted with these samples are considered by LSL to be an appendix of this report and may contain data qualifiers and specific information that pertains to the samples included in this report. The analytical result(s) in this report are only representative of the sample(s) submitted for analysis. LSL makes no claim of a sample's representativeness, or integrity, if sampling was not performed by LSL personnel.

LSL Central Lab
5854 Butternut Drive
East Syracuse, NY 13057
Tel. (315) 445-1900
Fax (315) 445-1104
NYS DOH ELAP #10248

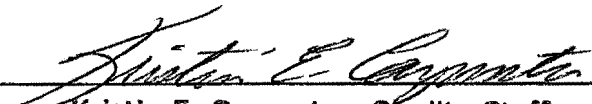
LSL North Lab
131 St. Lawrence Avenue
Waddington, NY 13694
Tel. (315) 388-4476
Fax (315) 388-4061
NYS DOH ELAP #10900

LSL Finger Lakes Lab
16 N. Main St., PO Box 424
Wayland, NY 14572
Tel. (585) 213-4090
Fax (585) 213-4192
NYS DOH ELAP #11667

LSL Southern Tier Office
Cuba, NY
Tel. (585) 209-4032

LSL MidLakes Office
Canandaigua, NY
Tel. (585) 728-3320

Reviewed by:


Kristin E. Carpenter, Quality Staff

Date:

05/12/20

-- LABORATORY ANALYSIS REPORT --

Marcellus, Village of Marcellus, NY

Sample ID:	Sludge Comp.	LSL Sample ID:	2005393-001
Location:		Federal Water Supply ID:	NY3304322
Sampled:	04/16/20 8:40	Sampled By:	JH
Sample Matrix:	SHW Dry Wt, Sludge	Source Code:	
		Reason Code:	

Analytical Method	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units		
(1) EPA 6010C Metals Please refer to the next page	EPA 3050B			MT
(1) EPA 7471B Metals Please refer to the next page	EPA 7471B			MT
(1) EPA 9045D Water Extractable pH				
pH	6.8	Std Units	4/29/20	HKB
pH Measurement Temperature	25	Degrees C	4/29/20	HKB
<i>pH is not certifiable by the NYS DOH ELAP in a solid/sludge matrix.</i>				
(1) EPA Method 9056A	EPA 300.0A			
Nitrate as N	120	mg/kg dry	4/24/20 4/27/20 18:05	MT
<i>As per NELAC regulation, disclosure of the following condition is required; The associated matrix spike and matrix spike duplicate recovery were outside the method specified control limits.</i>				
Nitrite as N	<38	mg/kg dry	4/24/20 4/27/20 18:05	MT
<i>As per NELAC regulation, disclosure of the following condition is required; The associated matrix spike and matrix spike duplicate recovery were outside the method specified control limits.</i>				
(1) Modified EPA 350.1, Rev. 2.0 (1993)				
Ammonia				
Ammonia as N	<0.2	mg/l	4/27/20 4/28/20	JJC
<i>As per NELAC regulation, disclosure of the following condition is required; The result of the laboratory control sample for this analyte was less than the established limit.</i>				
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>				
(1) Modified EPA 351.2, Rev. 2.0 (1993) TKN as N				
Total Kjeldahl Nitrogen	45000	mg/kg dry	4/23/20 4/23/20	JJC
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>				
(1) Modified EPA 365.1, Rev. 2.0 (1993), Rev. 2.0 Total Phosphorus				
Phosphorus, Total as P	20000	mg/kg dry	4/27/20 4/28/20	HKB
<i>The NYS DOH ELAP does not offer certification for this method in this matrix. This analysis was performed by Method EPA 365.3</i>				
(1) SM 2540 B-2011 Total Solids				
Total Solids @ 103-105 C	13	%	4/23/20	ARJ
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>				
(1) Total Volatile Solids, SM18-21 2540E				
Total Volatile Solids @ 550 C	75	%	4/23/20	ARJ
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>				

Analysis performed at: (1) LSL Central Lab, (2) LSL North Lab, (3) LSL Finger Lakes Lab



Life Science Laboratories, Inc.
 5854 Butternut Drive
 East Syracuse, NY 13057 (315) 445-1900

Analytical Results

StateCertNo: 10248

CLIENT: Life Science Labs-LIMS
Project: Village of Marcellus
W Order: 2005393
Matrix: SLUDGE

Lab ID: 2005393-001A
Client Sample ID: Sludge Comp.
Collection Date: 04/16/20 8:40
Date Received: 04/16/20 10:30

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
MERCURY			SW7471B			(SW7471B)
Mercury	0.85		0.76	mg/Kg-dry	1	05/01/20 15:21

TOTAL METALS BY ICP			SW6010C		(SW3050B)
Arsenic	ND		7.6	mg/Kg-dry	1 05/01/20 12:22
Cadmium	ND		7.6	mg/Kg-dry	1 05/01/20 12:22
Chromium	13		7.6	mg/Kg-dry	1 05/01/20 12:22
Copper	480		7.6	mg/Kg-dry	1 05/01/20 12:22
Lead	19		7.6	mg/Kg-dry	1 05/01/20 12:22
Molybdenum	ND		7.6	mg/Kg-dry	1 05/01/20 12:22
Nickel	13		7.6	mg/Kg-dry	1 05/01/20 12:22
Potassium	2500		760	mg/Kg-dry	1 05/06/20 16:01
Selenium	ND		7.6	mg/Kg-dry	1 05/01/20 12:22
Zinc	630		15	mg/Kg-dry	1 05/01/20 12:22

PERCENT MOISTURE			SM 2540 G		
Percent Moisture	86.8		1.0	wt%	1 04/23/20

Qualifiers:

- * Value may exceed the Acceptable Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

Greg Crysler/Mallory Reedy
Marcellus, Village of
6 Slocombe Ave
Marcellus, NY 13108

Phone: (315) 673-4491
FAX: (315) 673-3217

Federal Water
Supply ID: NY3304322

Laboratory Analysis Report

Prepared For

Marcellus, Village of

Client Project ID:

Sludge

LSL Project ID: **2008100**

Receive Date/Time: 06/05/20 9:30

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By the Client's acceptance and/or use of this report, the Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect the Client as regards to the results contained in this report. The Client further agrees that the only remedy available to the Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to the Client. The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of those data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without express prior written consent of Life Science Laboratories, Inc. This report may only be reproduced in its entirety. No partial duplication is allowed. The Chain of Custody and the Sample Receipt documents submitted with these samples are considered by LSL to be an appendix of this report and may contain data qualifiers and specific information that pertains to the samples included in this report. The analytical result(s) in this report are only representative of the sample(s) submitted for analysis. LSL makes no claim of a sample's representativeness, or integrity, if sampling was not performed by LSL personnel.

LSL Central Lab
5854 Butternut Drive
East Syracuse, NY 13057
Tel. (315) 445-1900
Fax (315) 445-1104
NYS DOH-ELAP #10248

LSL North Lab
131 St. Lawrence Avenue
Waddington, NY 13694
Tel. (315) 388-4476
Fax (315) 388-4061
NYS DOH-ELAP #10900

LSL Finger Lakes Lab
16 N. Main St., PO Box 424
Wayland, NY 14572
Tel. (585) 213-4090
Fax (585) 213-4192
NYS DOH-ELAP #11667

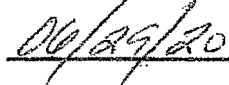
LSL Southern Tier Office
Cuba, NY
Tel. (585) 209-4032
LSL MidLakes Office
Ganandaigua, NY
Tel. (585) 728-3320

Reviewed by:



Kristin E. Carpenter, Quality Staff

Date:


06/29/20

-- LABORATORY ANALYSIS REPORT --

Marcellus, Village of Marcellus, NY

Sample ID:	Sludge Comp.	LSL Sample ID:	2008100-001
Location:		Federal Water Supply ID:	NY3304322
Sampled:	06/04/20 13:00	Sampled By:	JH
Sample Matrix:	SHW Dry Wt, Sludge	Source Code:	
		Reason Code:	

Analytical Method Analyte	Result	Units	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 6010C Metals Please refer to the next page			EPA 3050B			MT
(1) EPA 7471B Metals Please refer to the next page			EPA 7471B			MT
(1) EPA 9045D Water Extractable pH						
pH	6.5	Std Units			6/23/20	HKB
pH Measurement Temperature	25	Degrees C			6/23/20	HKB
<i>pH is not certifiable by the NYS DOH ELAP in a solid/sludge matrix.</i>						
(1) EPA Method 9056A			EPA 300.0A			
Nitrate as N	320	mg/kg dry		6/18/20	6/18/20 15:05	MT
Nitrite as N	<33	mg/kg dry		6/18/20	6/18/20 15:05	MT
(1) Modified EPA 350.1, Rev. 2.0 (1993) Ammonia						
Ammonia as N	2600	mg/kg dry		6/20/20	6/22/20	JJC
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						
(1) Modified EPA 351.2, Rev. 2.0 (1993) TKN as N						
Total Kjeldahl Nitrogen	31000	mg/kg dry		6/12/20	6/12/20	JJC
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						
(1) Modified EPA 365.1, Rev. 2.0 (1993), Rev. 2.0 Total Phosphorus						
Phosphorus, Total as P	25000	mg/kg dry		6/23/20	6/24/20	ARJ
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						
(1) SM 2540 B-2011 Total Solids						
Total Solids @ 103-105 C	15	%			6/12/20	ARJ
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						
(1) Total Volatile Solids, SM18-21 2540E						
Total Volatile Solids @ 550 C	72	%			6/12/20	ARJ
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						

Analysis performed at: (1) LSL Central Lab, (2) LSL North Lab, (3) LSL Finger Lakes Lab

**Life Science Laboratories, Inc.**

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

Analytical Results

StateCertNo: 10248

CLIENT: Life Science Labs-LIMS**Project:** Village of Marcellus**W Order:** 2008100**Matrix:** SLUDGE**Lab ID:** 2008100-001A**Client Sample ID:** Sludge Comp.**Collection Date:** 06/04/20 13:00**Date Received:** 06/05/20 9:30

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
MERCURY			SW7471B		(SW7471B)
Mercury	1.5		0.68 mg/Kg-dry	1	06/16/20 15:17

TOTAL METALS BY ICP**SW6010C****(SW3050B)**

Arsenic	ND		6.8 mg/Kg-dry	1	06/23/20 14:24
Cadmium	ND		6.8 mg/Kg-dry	1	06/23/20 14:24
Chromium	14		6.8 mg/Kg-dry	1	06/23/20 14:24
Copper	430		6.8 mg/Kg-dry	1	06/23/20 14:24
Lead	21		6.8 mg/Kg-dry	1	06/23/20 14:24
Molybdenum	ND		6.8 mg/Kg-dry	1	06/23/20 14:24
Nickel	11		6.8 mg/Kg-dry	1	06/23/20 14:24
Potassium	2300		680 mg/Kg-dry	1	06/19/20 11:54
Selenium	ND		6.8 mg/Kg-dry	1	06/23/20 14:24
Zinc	640		14 mg/Kg-dry	1	06/23/20 14:24

PERCENT MOISTURE**SM 2540 G**

Percent Moisture	85.2		1.0 wt%	1	06/12/20
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Qualifiers: * Value may exceed the Acceptable Level B Analyte detected in the associated Method Blank
 E Value exceeds the instrument calibration range H Holding times for preparation or analysis exceeded
 J Analyte detected below the PQL ND Not Detected at the Practical Quantitation Limit (PQL)
 P Prim./Conf. column %D or RPD exceeds limit S Spike Recovery outside accepted recovery limits

3



Life Science Laboratories, Inc.

Greg Crysler/Mallory Reedy
Marcellus, Village of
6 Slocombe Ave
Marcellus, NY 13108

Phone: (315) 673-4491
FAX: (315) 673-3217
Authorization: PO #17214
Federal Water
Supply ID: NY3304322

Laboratory Analysis Report

Prepared For

Marcellus, Village of

Client Project ID:

Sludge

LSL Project ID: **2012450**

Receive Date/Time: 08/07/20 10:35

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By the Client's acceptance and/or use of this report, the Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect the Client as regards to the results contained in this report. The Client further agrees that the only remedy available to the Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to the Client. The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without express prior consent of Life Science Laboratories, Inc. This report may only be reproduced in its entirety. No partial duplication is allowed. The Chain of Custody and the Sample Receipt documents submitted with these samples are considered by LSL to be an appendix of this report and may contain data qualifiers and specific information that pertains to the samples included in this report. The analytical result(s) in this report are only representative of the sample(s) submitted for analysis. LSL makes no claim of a sample's representativeness, or integrity, if sampling was not performed by LSL personnel.

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East Syracuse, NY 13057
Tel. (315) 445-1900
Fax (315) 445-1104
NYS DOH ELAP #10248

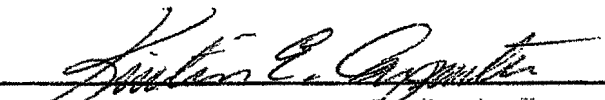
LSL North Lab
131 St. Lawrence Avenue
Waddington, NY 13694
Tel. (315) 388-4476
Fax (315) 388-4061
NYS DOH ELAP #10900

LSL Finger Lakes Lab
16 N. Main St., PO Box 424
Wayland, NY 14572
Tel. (585) 213-4090
Fax (585) 213-4192
NYS DOH ELAP #11667

LSL Southern Tier Office
Cuba, NY
Tel. (585) 209-4032

LSL MidLakes Office
Canandaigua, NY
Tel. (585) 728-3320

Reviewed by:


Kelsie E. Carpenter, Quality Staff

Date:

09/04/20

A copy of this report was sent to:

-- LABORATORY ANALYSIS REPORT --

Marcellus, Village of Marcellus, NY

Sample ID:	Sludge Composite	LSL Sample ID:	2012450-001
Location:		Federal Water Supply ID:	NY3304322
Sampled:	08/06/20 10:25	Sampled By:	JH
Sample Matrix:	SHW Dry Wt, Sludge	Source Code:	
		Reason Code:	

Analytical Method Analyte	Result	Units	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 6010C Metals Please refer to the next page			EPA 3050B			MT
(1) EPA 7471B Metals Please refer to the next page			EPA 7471B			MT
(1) EPA 9045D Water Extractable pH						
pH	7.3	Std Units			8/21/20	HKB
pH Measurement Temperature	25	Degrees C			8/21/20	HKB
<i>pH is not certifiable by the NYS DOH ELAP in a solid/sludge matrix.</i>						
(1) EPA Method 9056A			EPA 300.0A			
Nitrate as N	190	mg/kg dry		8/19/20	8/23/20 11:42	MT
Nitrite as N	<33	mg/kg dry		8/19/20	8/23/20 11:42	MT
(1) Modified EPA 350.1, Rev. 2.0 (1993) Ammonia						
Ammonia as N	1200	mg/kg dry		8/24/20	8/25/20	JJC
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						
(1) Modified EPA 351.2, Rev. 2.0 (1993) TKN as N						
Total Kjeldahl Nitrogen	31000	mg/kg dry		8/21/20	8/21/20	JJC
<i>As per NELAC regulation disclosure of the following condition is required. The method blank result associated with this analysis was greater than the established limit.</i>						
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						
(1) Modified EPA 365.3, Rev. 2.0 (1993) Total Phosphorus						
Phosphorus, Total as P	26000	mg/kg dry		8/25/20	8/26/20	JJC
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						
(1) SM 2540 B-2011 Total Solids						
Total Solids @ 103-105 C	15	%			8/19/20	ARJ
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						
(1) Total Volatile Solids, SM18-21 2540E						
Total Volatile Solids @ 550 C	66	%			8/19/20	ARJ
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						

Analysis performed at: (1) LSL Central Lab, (2) LSL North Lab, (3) LSL Finger Lakes Lab



Life Science Laboratories, Inc.
 5854 Butternut Drive
 East Syracuse, NY 13057 (315) 445-1900

Analytical Results

StateCertNo: 10248

CLIENT: Life Science Labs-LIMS
Project: Village of Marcellus
Location: Sludge
W Order: 2012450
Matrix: SLUDGE

Lab ID: 2012450-001A
Client Sample ID: Sludge Composite
Collection Date: 08/06/20 10:25
Date Received: 08/07/20 10:35

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
MERCURY			SW7471B		(SW7471B)
Mercury	1.1		0.68 mg/Kg-dry	1	08/21/20 14:02

TOTAL METALS BY ICP		SW6010C		(SW3050B)
Arsenic	ND	6.8 mg/Kg-dry	1	08/25/20 14:23
Cadmium	ND	6.8 mg/Kg-dry	1	08/25/20 14:23
Chromium	14	6.8 mg/Kg-dry	1	08/25/20 14:23
Copper	460	6.8 mg/Kg-dry	1	08/25/20 14:23
Lead	27	6.8 mg/Kg-dry	1	08/25/20 14:23
Molybdenum	ND	6.8 mg/Kg-dry	1	08/25/20 14:23
Nickel	12	6.8 mg/Kg-dry	1	08/25/20 14:23
Potassium	1700	680 mg/Kg-dry	1	08/25/20 14:23
Selenium	ND	6.8 mg/Kg-dry	1	08/25/20 14:23
Zinc	840	14 mg/Kg-dry	1	08/25/20 14:23

PERCENT MOISTURE		SM 2540 G		
Percent Moisture	85.3	1.0 wt%	1	08/24/20

- Qualifiers:**
- * Value may exceed the Acceptable Level
 - E Value exceeds the instrument calibration range
 - J Analyte detected below the PQL
 - P Prim./Conf. column %D or RPD exceeds limit
 - B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - ND Not Detected at the Practical Quantitation Limit (PQL)
 - S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

Greg Crysler/Mallory Reedy
Marcellus, Village of
6 Slocombe Ave
Marcellus, NY 13108

Phone: (315) 673-4491
FAX: (315) 673-3217
Authorization: PO# 17237
Federal Water Supply ID: NY3304322

Laboratory Analysis Report

Prepared For

Marcellus, Village of

Client Project ID:

Sludge

LSL Project ID: **2016769**

Receive Date/Time: 10/09/20 11:46

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LSL Central Lab
5854 Butternut Drive
East Syracuse, NY 13057
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Tel. (585) 728-3320

Reviewed by:

Kristin E. Capomonte, Quality Staff

Date:

11/11/20

-- LABORATORY ANALYSIS REPORT --

Marcellus, Village of Marcellus, NY

Sample ID:	Sludge Comp.	LSL Sample ID:	2016769-001
Location:		Federal Water Supply ID:	NY3304322
Sampled:	10/08/20 10:45	Sampled By:	JH
Sample Matrix:	SHW Dry Wt, Sludge	Source Code:	
		Reason Code:	

Analytical Method Analyte	Result	Units	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 6010C Metals			EPA 3050B			
Please refer to the next page						MT
(1) EPA 7471B Metals			EPA 7471B			
Please refer to the next page						MT
(1) EPA 9045D Water Extractable pH						
pH	6.7	Std Units		10/30/20		HKB
pH Measurement Temperature	25	Degrees C		10/30/20		HKB
<i>pH is not certifiable by the NYS DOH ELAP in a solid/sludge matrix.</i>						
(1) EPA Method 9056A			EPA 300.0A			
Nitrate as N	570	mg/kg dry		11/7/20	11/7/20 12:00	MT
<i>As per NELAC regulation, disclosure of the following condition is required; The associated matrix spikes and matrix spike duplicate recovery were outside the method specified control limits.</i>						
Nitrite as N	<33	mg/kg dry		11/7/20	11/7/20 12:00	MT
(1) Modified EPA 350.1, Rev. 2.0 (1993)						
Ammonia						
Ammonia as N	3400	mg/kg dry		10/31/20	11/2/20	JJC
<i>As per NELAC regulation, disclosure of the following condition is required. The result of the laboratory control sample for this analyte was less than the established limit.</i>						
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						
(1) Modified EPA 351.2, Rev. 2.0 (1993) TKN as N						
Total Kjeldahl Nitrogen	29000	mg/kg dry		10/30/20	10/30/20	JJC
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						
(1) Modified EPA 365.1, Rev. 2.0 (1993), Rev. 2.0 Total Phosphorus						
Phosphorus, Total as P	35000	mg/kg dry		10/29/20	11/2/20	ARJ
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						
(1) SM 2540 B-2011 Total Solids						
Total Solids @ 103-105 C	15	%		10/30/20		TER
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						
(1) Total Volatile Solids, SM18-21 2540E						
Total Volatile Solids @ 550 C	63	%		10/30/20		TER
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						

Analysis performed at: (1) LSL Central Lab, (2) LSL North Lab, (3) LSL Finger Lakes Lab

**Life Science Laboratories, Inc.**

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

Analytical Results

StateCertNo: 10248

CLIENT: Life Science Labs-LIMS**Lab ID:** 2016769-001A**Project:** Village of Marcellus**Client Sample ID:** Sludge Comp**Location:** Sludge**W Order:** 2016769**Collection Date:** 10/08/20 10:45**Matrix:** SLUDGE**Date Received:** 10/09/20 11:46

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
MERCURY			SW7471B			(SW7471B)
Mercury	1.4		0.68	mg/Kg-dry	1	10/27/20 10:36

TOTAL METALS BY ICP**SW6010C****(SW3050B)**

Arsenic	ND		6.8	mg/Kg-dry	1	10/16/20 16:42
Cadmium	ND		6.8	mg/Kg-dry	1	10/16/20 16:42
Chromium	15		6.8	mg/Kg-dry	1	10/16/20 16:42
Copper	550		6.8	mg/Kg-dry	1	10/16/20 16:42
Lead	28		6.8	mg/Kg-dry	1	10/16/20 16:42
Molybdenum	ND		6.8	mg/Kg-dry	1	10/16/20 16:42
Nickel	12		6.8	mg/Kg-dry	1	10/16/20 16:42
Potassium	2100		680	mg/Kg-dry	1	10/16/20 16:42
Selenium	ND		6.8	mg/Kg-dry	1	10/16/20 16:42
Zinc	1000		14	mg/Kg-dry	1	10/16/20 16:42

PERCENT MOISTURE**SM 2540 G**

Percent Moisture	85.2		1.0	wt%	1	10/30/20
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Qualifiers:

- * Value may exceed the Acceptable Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

SECTION 6 – PATHOGEN REDUCTION & VECTOR ATTRACTION REDUCTION

Check one method for each:

Pathogen Reduction 361-3.7(a)

- Windrow Composting
- Aerated Static Pile Composting
- In-vessel Composting
- Other (specify): _____

Vector Attraction Reduction 361-3.7(b)

- 38% Volatile Solids Reduction
- Bench Scale Anaerobic Digestion
- Bench Scale Aerobic Digestion
- SOUR
- Aerobic Process 14 days, >40 °C, >45 °C avg.
- pH raised to ≥ 12 for 2 hours and ≥ 11.5 for 22 hours
- 75% solids
- 90% solids (untreated solids)

IMPORTANT NOTE

Attach operating and monitoring data to show compliance with methods chosen. Temperature data records should indicate when a pile was created, pile was moved, additional material was added and/or pile was turned.

**Marcellus Compost Facility
Aeration Pile Temperature Log**

2019

Compost Pile # 13

Sludge _____ % New _____ % Recy _____ % Digester Sludge input (gallons)

Mix Ratio 4 : 6 (sludge:chips) ND: _____ @ (_____ mlss)

Chip Ratio 3 : 3 (new:recycled) SD: _____ @ (_____ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	11/15	15.0	7:10 A	16.4	1:00 P	Pressed on 11/14
2	16	16.5	7:15 A	19.1	4:30 P	
3	17	25.0	7:15 A	27.4	1:10 P	
4	18	31.1	7:20 A	35.2	3:00 P	
5	19	37.3	7:20 A	43.8	3:05 P	
6	20	55.7	8:30 A	56.2	2:40 P	(1)
7	21	56.4	4:10 A	56.0	1:00 P	(2)
8	22	56.6	7:00 A	56.6	12:20 P	(3)
9	23	55.5	7:15 A	55.1	2:20 P	4
10	24	56.4	7:15 A	56.7	1:50 P	5
11	25	56.2	4:15 A	56.4	2:30 P	6
12	26	55.6	7:10 A	56.1	2:30 P	7
13	27	55.1	7:15 A	56.2	12:05 P	8
14	28	56.1	7:30 A	55.9	1:10 P	9
15	29	55.1	7:00 A	56.2	12:10 P	10
16	30	56.1	7:15 A	55.8	2:30 P	11
17	12/1	55.8	7:15 A	55.4	4:45 P	12
18	2	55.5	7:00 A	55.0	1:50 P	13
19	3	55.8	7:25 A	55.0	2:10 P	14
20	4	54.7	7:25 A	55.4	12:40 P	
21	5	53.3	7:15 A	53.5	3:15 P	
						Broke down 11/23/20

Aeration completion date: 12/5

Curing completion date: 1/4/20

Screened pile: 2/5/20

**Marcellus Compost Facility
Aeration Pile Temperature Log**

2020

Sludge _____ % New _____ % Recy _____ % Digester Sludge input (gallons)

Compost Pile # 1

Mix Ratio 4 : 6 (sludge:chips)

ND: _____ @ (_____ mlss)

Chip Ratio 2 : 4 (new:recycled)

SD: _____ @ (_____ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes: SD
1	11/21	12.7	7:30 A	14.1	12 ¹⁰ P	Pressed on 11/20
2	12	20.9	7:25 A	33.6	4 ⁵⁰ P	Pressed For 5 hrs
3	13	40.1	9 ⁴⁰ A	50.8	2 ³⁰ P	1
4	14	55.5	7 ²⁰ A	55.2	2 ⁴⁵ P	(2)
5	15	56.1	7 ¹⁰ A	55.2	2 ⁴⁰ P	(3)
6	16	55.8	7 ¹⁵ A	56.6	1 ⁴⁵ P	(4)
7	17	56.3	7 ⁴⁵ A	56.1	1 ⁰⁵ P	5
8	18	54.6	7:25 A	52.3	5 ¹⁰ P	6
9	19	54.5	7:30 A	51.9	12 ⁰⁵ P	7
10	20	53.6	7 ³⁰ A	54.2	1 ¹⁰ P	8
11	21	49.2	7 ¹⁵ A	43.6	2 ⁵⁰ P	9
12	22	41.0	11 ⁰⁰ A	47.2	2 ³⁰ P	10
13	23	43.4	10 ³⁰ A	42.5	1 ⁴⁵ P	11
14	24	40.1	7 ⁵⁵ A	45.2	2 ¹⁵ P	12
15	25	43.7	7:20 A	43.9	5 ¹⁰ P	13
16	26	44.3	7:25 A	44.6	6 ¹⁰ P	14
17	27	44.6	7 ²⁰ A	45.4	2 ⁵⁰ P	15
18	28	46.9	7 ³⁰ A	46.6	3 ²⁰ P	
19	29	45.5	7 ³⁵ A	44.7	1 ³⁰ P	
20	30	38.8	7 ³⁰ A	37.7	2 ⁰⁰ P	
21	31	33.3	7 ²⁰ A	33.9	2 ¹⁰ P	
						2/12 - spread on floor
						2/21 Piled up

Aeration completion date: 1/31/20

Curing completion date: 3/1/20

Screened pile: _____

SD

Marcellus Compost Facility
Aeration Pile Temperature Log

2020

Sludge _____ % New _____ % Recy _____ % Digester Sludge input (gallons)

Compost Pile # 2

Mix Ratio 4 : 6 (sludge:chips)

ND: _____ @ (_____ mlss)

Chip Ratio 2 : 43 (new:recycled)

SD: _____ @ (_____ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	1/24	8.4	7:55 A	9.9	2:15 P	Pressed on 1/23/20
2	25	12.8	7:20 A	13.1	5:10 P	5 hrs
3	26	14.7	7:25 A	14.2	6:10 P	Solids 21.3%
4	27	18.5	7:20 A	19.1	2:50 P	
5	28	26.2	7:30 A	31.5	3:25 P	
6	29	44.7	7:30 A	48.4	1:30 P	
7	30	55.7	7:30 A	56.2	2:00 P	(1)
8	31	56.3	7:20 A	56.0	2:10 P	(2)
9	2/1	56.2	7:20 A	55.8	12:25 P	(3)
10	2	56.2	7:20 A	56.5	3:05 P	4
11	3	55.9	7:20 A	56.1	1:40 P	5
12	4	55.3	7:10 A	55.1	3:10 P	6
13	5	56.1	7:20 A	56.1	1:55 P	7
14	6	56.6	10:30 A	55.7	1:55 P	8
15	7	55.6	7:05 A	56.2	3:30 P	9
16	8	55.1	7:15 A	55.8	1:10 P	10
17	9	55.5	7:20 A	55.3	12:10 P	11
18	10	54.4	7:20 A	55.9	2:15 P	12
19	11	55.1	7:15 A	54.6	2:35 P	13
20	12	55.7	8:35 A	55.0	1:45 P	14
21	13	55.5	7:30 A	55.7	2:50 P	

Aeration completion date: 2/13/20

Curing completion date: 3/14/20

Screened pile: _____

Collins

Marcellus Compost Facility Aeration Pile Temperature Log

2020

Compost Pile # 3

Sludge _____ % New _____ % Recy _____ % Digester Sludge input (gallons)

Mix Ratio 4:5 (sludge:chips) ND: _____ @ (_____ mlss)

Chip Ratio 2:3 (new:recycled) SD: _____ @ (_____ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	2/7	13.2	7:05 A	17.1	3:30 P	Pressed on 2/6
2	8	22.7	7:15 A	31.3	1:10 P	
3	9	38.1	7:20 A	47.6	12:10 P	15.09%
4	10	55.5	7:20 A	56.2	2:15 P	(1)
5	11	56.5	7:15 A	56.7	2:35 P	(2)
6	12	55.3	8:35 A	55.1	1:15 P	(3)
7	13	52.2	7:30 A	51.4	2:50 P	4 Added Cover
8	14	50.2	7:35 A	50.5	1:00 P	5
9	15	44.8	7:20 A	46.3	5:10 P	6
10	16	43.8	7:15 A	45.4	3:40 P	7
11	17	47.7	7:40 A	49.6	2:50 P	8
12	18	50.1	7:15 A	53.4	2:25 P	9
13	19	56.5	7:15 A	56.1	12:55 P	10
14	20	55.8	7:10 A	56.5	12:30 P	11
15	21	56.2	7:15 A	55.8	1:05 P	12
16	22	56.4	7:20 A	56.1	12:25 P	13
17	23	54.7	7:15 A	55.9	4:05 P	14
18	24	54.7	7:10 A	55.5	1:30 P	
19	25	55.4	7:25 A	55.0	1:50 P	
20	26	55.0	0740	54.5	12:30 P	
21	27	55.3	7:10 A	55.1	3:00 P	

Aeration completion date: 2/27

Curing completion date: 3/28

Screened pile: 4/21

**Marcellus Compost Facility
Aeration Pile Temperature Log**

2020

Compost Pile # 4

Sludge _____ % New _____ % Recy _____ % Digester Sludge input (gallons)
 Mix Ratio _____ : _____ (sludge:chips) ND: _____ @ (_____ mlss)
 Chip Ratio _____ : _____ (new:recycled) SD: _____ @ (_____ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	4/3	18.9	0900	19.1	200P	Pressed on 4/2
2	4	20.9	7:20A	22.3	1230P	
3	5	23.4	7:15A	31.0	115P	
4	6	38.2	0725	50.4	120P	
5	7	55.6	0815	56.1	240P	(1)
6	8	55.4	0730	55.2	220P	(2)
7	9	56.3	735 A	56.1	235P	(3)
8	10	55.0	730 A	55.9	1205P	4
9	11	55.3	7:15 A	56.3	130P	5
10	12	54.7	7:20 A	55.2	430P	6
11	13	55.1	745 A	56.7	140P	7
12	14	56.6	710 A	56.7	300P	8
13	15	56.2	815 A	55.5	320P	9
14	16	55.1	915 A	55.3	300P	10
15	17	55.4	0830	56.1	130P	11
16	18	56.1	7:20 A	55.4	1215P	12
17	19	55.8	7:15 A	55.6	1230P	13
18	20	56.0	0805	56.2	200P	14
19	21	55.3	0800	56.4	130P	
20	22	54.8	0830	55.5	230P	
21	23	55.1	825 A	54.5	225P	

Aeration completion date: 4/23 Curing completion date: 5/23 Screened pile: _____

**Marcellus Compost Facility
Aeration Pile Temperature Log**

2020

Sludge _____ % New _____ % Recy _____ % Digester Sludge input (gallons)
 Compost Pile # 5 Mix Ratio _____ : _____ (sludge:chips) ND: _____ @ (_____ mlss)
 Chip Ratio _____ : _____ (new:recycled) SD: _____ @ (_____ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	4/17	18.7	0830	19.3	130p	Pressed on 4/16
2	18	22.5	7:20 A	29.7	1215p	
3	19	32.2	7:15 A	40.1	1230p	
4	20	51.3	0805	56.7	200p	
5	21	56.3	0800	56.5	130P	(1)
6	22	55.9	0830	55.5	230p	(2)
7	23	56.1	8 ²⁵ A	56.6	225P	(3)
8	24	56.1	745A	56.8	1230p	4
9	25	56.6	7:15 A	56.1	110P	5
10	26	55.6	7:10 A	55.9	320p	6
11	27	56.6	7 ⁵⁵ A	55.7	140P	7
12	28	55.2	735A	54.8	250P	8
13	29	56.4	745A	55.9	200p	9
14	30	56.2	0825	56.5	220p	10
15	5/1	55.4	720 A	55.3	230p	11
16	2	55.8	7:15 A	55.4	1205p	12
17	3	55.3	7:15 A	56.1	315P	13
18	4	56.4	715A	54.9	300p	14
19	5	55.3	845A	55.5	240p	
20	6	55.5	715A	56.1	255p	
21	7	54.0	725A	55.3	315P	

Aeration completion date: 5/7 Curing completion date: 6/6 Screened pile: _____

**Marcellus Compost Facility
Aeration Pile Temperature Log**

2020

Compost Pile # 6

Sludge _____ % New _____ % Recy _____ % Digester Sludge input (gallons)

Mix Ratio 4 : 6 (sludge:chips) ND: _____ @ (_____ mlss)

Chip Ratio 2 : 4 (new:recycled) SD: _____ @ (_____ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	4/30	22.2	0825	23.0	220p	Pressed on 4/29
2	5/1	24.7	7 ²⁰ A	25.2	230p	SD-16.09%
3	2	41.6	7:15 A	51.3	1205P	ND-14.45%
4	3	55.3	7:15 A	55.8	315P	(1)
5	4	56.7	715 A	56.7	300 P	(2)
6	5	55.1	845 A	56.6	240P	(3)
7	6	56.0	715 A	55.7	255P	4
8	7	55.9	725 A	56.6	315 P	5
9	8	55.4	710 A	56.4	150P	6
10	9	54.4	7:15 A	55.2	215P	7
11	10	55.4	7:20 A	54.9	1210p	8
12	11	55.5	720 A	56.5	160p	9
13	12	55.3	730 A	56.8	240p	10
14	13	56.3	745 A	55.3	310P	11
15	14	55.4	650 A	55.8	320P	12
16	15	54.4	645 A	55.6	115P	13
17	16	56.2	7:15 A	55.7	4pm	14
18	17	56.0	7:15 A	56.0	4pm	
19	18	55.5	710 A	55.4	210p	
20	19	55.4	725 A	55.1	115p	
21	20	56.7	720 A	56.6	135p	

Aeration completion date: 5/20

Curing completion date: 6/19

Screened pile: _____

**Marcellus Compost Facility
Aeration Pile Temperature Log**

2020

Compost Pile # 7

Sludge _____ % New _____ % Recy _____ % Digester Sludge input (gallons)

Mix Ratio 4:6 (sludge:chips) ND: _____ @ (_____ mlss)

Chip Ratio 2:4 (new:recycled) SD: _____ @ (_____ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	5/22	24.0	8:00	24.8	1:10 P	Pressed on 5/21
2	23	25.3	7:20 A	29.1	3:45 P	Pressed for 6 hrs
3	24	34.3	7:20 A	38.7	2:15 P	
4	25	42.7	0700	51.2	3:05 P	
5	26	56.6	7:25 A	55.1	2:50 P	(1)
6	27	55.4	7:20 A	55.3	2:45 P	(2)
7	28	56.2	7:15 A	55.1	1:30 P	(3)
8	29	55.7	7:15 A	56.1	1:35 P	4
9	30	54.8	7:15 A	55.1	12:10 P	5
10	31	55.5	7:15 A	55.9	12:40 P	6
11	6/1	54.8	7:20 A	54.5	2:35 P	7
12	2	55.1	7:25 A	54.9	3:00 P	8
13	3	55.4	7:10 A	55.5	3:00 P	9
14	4	56.0	6:15 A	55.8	3:10 P	10
15	5	55.5	7:25 A	56.2	3:00 P	11
16	6	56.4	7:15 A	55.8	12:55 P	12
17	7	56.1	7:10 A	56.4	2:10 P	13
18	8	56.6	7:15 A	56.8	2:00 P	14
19	9	55.9	7:20 A	56.7	3:00 P	
20	10	55.9	7:35 A	56.1	2:45 P	
21	11	55.0	7:25 A	56.0	3:00 P	

Aeration completion date: 6/11

Curing completion date: 7/11

Screened pile: _____

**Marcellus Compost Facility
Aeration Pile Temperature Log**

2020

Compost Pile # 8

Sludge _____ % New _____ % Recy _____ % Digester Sludge Input (gallons)

Mix Ratio _____ : _____ (sludge:chips) ND: _____ @ (_____ mlss)

Chip Ratio _____ : _____ (new:recycled) SD: _____ @ (_____ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	6/5	31.7	7:25 A	32.3	3:00 P	Pressed on 6/4
2	6	32.9	7:15 A	41.9	12:55 P	Pressed For 6 hrs 15 min
3	7	46.7	7:10 A	52.8	2:10 P	
4	8	56.2	7:15 A	55.8	2:00 P	①
5	9	55.5	7:20 A	55.1	3:00 P	②
6	10	55.3	7:35 A	55.8	2:45 P	③
7	11	56.4	7:25 A	53.2	3:00 P	4
8	12	56.4	7:10 A	56.7	12:05 P	5
9	13	56.7	7:15 A	55.9	12:20 P	6
10	14	55.1	7:10 A	56.2	3:40 P	7
11	15	56.7	9:55 A	55.4	2:00 P	8
12	16	56.3	0730 A	55.8	2:15 P	9
13	17	56.1	0800 A	56.4	1:15 P	10
14	18	56.2	7:20 A	56.3	1:00 P	11
15	19	56.5	7:30 A	56.0	12:20 P	12
16	20	56.1	7:10 A	55.3	12:45 P	13
17	21	56.8	7:10 A	56.1	1:35 P	14
18	22	56.5	7:35 A	56.9	1:05 P	
19	23	56.0	7:30 A	56.0	3:00 P	
20	24	55.0	7:30 A	55.6	3:05 P	
21	25	55.4	7:30 A	56.1	2:45 P	

Aeration completion date: 6/25

Curing completion date: 7/25

Screened pile: _____

**Marcellus Compost Facility
Aeration Pile Temperature Log**

2020

Compost Pile # 9

Sludge _____ % New _____ % Recy _____ % Digester Sludge input (gallons)

Mix Ratio _____ : _____ (sludge:chips) ND: _____ @ (_____ mlss)

Chip Ratio _____ : _____ (new:recycled) SD: _____ @ (_____ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	6/27	34.0	7:15 A	36.1	12:45 P	pressed 6/26
2	6/28	38.2	7:15 A	42.8	4:25 P	
3	6/29	48.4	7:10 A	52.5	2:50 P	
4	6/30	52.5 53.0	7:15 A	56.8	1:30 P	①
5	7/1	56.7	6:35 A	56.6	1:35 P	②
6	2	56.0	6:25 A	56.1	1:45 P	③
7	3	55.9	7:10 A	55.1	12:30 P	4
8	4	56.2	7:10 A	56.5	12:45 P	5
9	5	56.6	7:15 A	55.8	3:35 P	6
10	6	56.2	7:10 A	56.0	2:45 P	7
11	7	55.0	7:25 A	55.9	3:05 P	8
12	8	54.9	7:20 A	55.9	3:00 P	9
13	9	56.5	7:10 A	56.4	2:30 P	10
14	10	56.7	7:10 A	54.9	1:30 P	11
15	11	56.3	7:15 A	55.9	2:05 P	12
16	12	56.4	7:10 A	56.1	3:15 P	13
17	13	55.3	7:10 A	54.9	2:05 P	14
18	14	56.3	7:15 A	56.7	3:10 P	
19	15	56.4	7:30 A	54.8	3:00 P	
20	16	54.8	00:30	56.0	1:25 P	
21	17	55.9	6:30 A	56.1	2:25 P	

Aeration completion date: 7/17

Curing completion date: 8/16

Screened pile: _____

**Marcellus Compost Facility
Aeration Pile Temperature Log**

2020

Sludge _____ % New _____ % Recy _____ % Digester Sludge Input (gallons)

Compost Pile # 10

Mix Ratio _____ : _____ (sludge:chips)

ND: _____ @ (_____ mlss)

Chip Ratio _____ : _____ (new:recycled)

SD: _____ @ (_____ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	7/17	31.5	6 ³⁰ A	32.4	2 ²⁵ P	Pressed on 7/16
2	18	32.5	7:15 A	33.1	1230	
3	19	34.5	7:15 A	35.2	1215	
4	20	37.4	0730	39.0	300P	
5	21	40.1	0730	50.0	315P	
6	22	51.1	0730	54.1	300P	
7	23	55.1	0740	56.1	235P	①
8	24	55.5	9:15 A	56.0	1215P	②
9	25	55.0	7:10 A	55.4	130P	③
10	26	55.9	7:10 A	55.5	1230P	4
11	27	55.7	7:15 A	56.1	310P	5
12	28	55.7	7 ²⁰ A	56.5	235P	6
13	29	55.8	7 ¹⁵ A	56.2	155P	7
14	30	55.7	7 ⁴⁰ A	56.6	230P	8
15	31	55.4	7 ²⁵ A	56.5	230P	9
16	8/1	55.5	7:15 A	56.2	120P	10
17	2	55.2	6:45 A	55.9	210P	11
18	3	55.8	7 ²⁰ A	56.8	255P	12
19	4	55.1	7:15 A	56.2	100P	13
20	5	54.9	7:05 A	54.0	200P	14
21	6	56.8	8:40 A	55.8	215P	

Aeration completion date: 8/6

Curing completion date: 9/5

Screened pile: _____

**Marcellus Compost Facility
Aeration Pile Temperature Log**

2020

Sludge _____% New _____% Recy _____% Digester Sludge input (gallons)

Compost Pile # 11

Mix Ratio _____:_____ (sludge:chips)

ND: _____ @ (_____ miss)

Chip Ratio _____:_____ (new:recycled)

SD: _____ @ (_____ miss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	8/7	29.0	8 ⁰⁰ A	29.6	1 ⁰⁵ P	Pressed on 8/6
2	8	30.0	7:10 A	30.8	4 ¹⁰ P	
3	9	31.1	7:10 A	32.9	12 ²⁵ P	
4	10	34.8	8 ¹⁵ A	47.2	1 ²⁰ P	
5	11	50.1	7 ²⁵ A	52.6	2 ³⁵ P	
6	12	53.2	7 ²⁰ A	53.5	2 ⁵⁵ P	
7	13	53.7	7 ¹⁰ A	55.1	2 ³⁰ P	
8	14	55.6	7 ²⁰ A	56.6	1 ⁵⁰ P	①
9	15	56.8	7 ¹⁰ A	56.2	3 ⁰⁰ P	②
10	16	56.0	7:10 A	56.7	2 ⁴⁵ P	③
11	17	55.5	7 ¹⁵ A	55.9	2 ³⁵ P	4
12	18	56.0	7 ¹⁵ A	55.6	2 ⁴⁵ P	5
13	19	56.4	7 ¹⁰ A	56.8	2 ⁴⁰ P	6
14	20	56.0	7 ³⁰ A	56.2	3 ⁰⁵ P	7
15	21	56.1	7 ²⁰ A	55.4	2 ³⁰ P	8
16	22	56.0	7:10 A	55.8	3 ⁵⁰ P	9
17	23	56.3	7:10 A	56.7	12 ⁴⁰ P	10
18	24	55.6	7 ²⁵ A	56.8	2 ⁰⁰ P	11
19	25	55.8	0730 A	56.1	3 ⁰⁰ P	12
20	26	55.6	7 ¹⁵ A	55.5	3 ¹⁰ P	13
21	27	55.9	7 ²⁰ A	56.4	1 ¹⁰ P	14

Aeration completion date: 8/27

Curing completion date: 9/26

Screened pile: _____

**Marcellus Compost Facility
Aeration Pile Temperature Log**

2020

Compost Pile # 12

Sludge _____ % New _____ % Recy _____ % Digester Sludge input (gallons)

Mix Ratio 4 : 6 (sludge:chips) ND: _____ @ (_____ mlss)

Chip Ratio 2 : 4 (new:recycled) SD: _____ @ (_____ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	8/28	30.7	7 ²⁰ A	31.4	2 ⁴⁵ P	Pressed on 8/27
2	29	32.0	7:00 A	32.9	12 ²⁰ P	SD 15.5
3	30	34.0	7:10 A	35.7	2 ¹⁵ P	ND 15.6
4	31	42.3	7 ²⁰ A	44.1	2 ⁴⁵ P	
5	9/1	46.3	7 ²⁵ A	47.0	3 ⁰⁵ P	
6	2	50.4	7 ²⁵ A	54.6	2 ⁵⁵ P	
7	3	56.1	7 ¹⁵ A	56.5	3 ⁰⁵ P	①
8	4	55.6	7 ²⁰ A	56.2	1 ¹⁵ P	②
9	5	55.8	7:10 A	55.9	3 ⁰⁵ P	③
10	6	55.0	7:10 A	56.2	12 ¹⁰ P	4
11	7	56.2	0743	55.8	2 ²⁰ P	5
12	8	55.6	7 ¹⁵ A	55.3	2 ⁴⁵ P	6
13	9	55.8	7 ²⁰ A	56.7	12 ⁵⁰ P	7
14	10	56.1	7 ¹⁵ A	55.4	2 ¹⁰ P	8
15	11	55.6	7 ²⁰ A	56.7	1 ¹⁵ P	9
16	12	55.8	7:10 A	55.4	12 ¹⁵ P	10
17	13	56.9	7:10 A	56.3	1 ¹⁵ P	11
18	14	56.1	7 ⁴⁰ A	55.6	3 ⁰⁰ P	12
19	15	55.2	7 ²⁰ A	55.0	2 ⁴⁵ P	13
20	16	56.0	7 ³⁰ A	56.4	2 ⁵⁵ P	14
21	17	51.7	7 ²⁵ A	54.2	1 ²⁰ P	

Aeration completion date: 9/18

Curing completion date: 10/18

Screened pile: _____

**Marcellus Compost Facility
Aeration Pile Temperature Log**

2020

Compost Pile # 13

Sludge _____ % New _____ % Recy _____ % Digester Sludge Input (gallons)

Mix Ratio 4:6 (sludge:chips) ND: _____ @ (_____ mlss)

Chip Ratio 3:3 (new:recycled) SD: _____ @ (_____ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	9/23	22.5	7:10 A	23.5	2:25 P	Pressed on 9/22
2	24	24.4	7:50 A	26.8	2:00 P	NO 16.25
3	25	27.6	7:40 A	29.1	2:30 P	SD 15.61
4	26	30.1	7:15 A	31.9	12:10 P	
5	27	32.9	7:10 A	36.2	4:20 P	
6	28	38.5	7:15 A	41.4	3:10 P	
7	29	45.1	7:50 A	49.1	3:15 P	
8	30	55.0	6:10 A	55.2	5:00 P	①
9	10/1	56.1	7:30 A	56.6	2:45 P	②
10	2	56.2	7:20 A	56.4	1:40 P	③
11	3	56.3	7:15 A	56.7	12:05 P	4
12	4	56.5	7:10 A	55.9	12:20 P	5
13	5	56.3	7:05 A	56.4	1:50 P	6
14	6	56.6	7:25 A	56.3	2:00 P	7
15	7	56.5	6:25 A	56.1	1:05 P	8
16	8	41.1	7:10 A	41.7	12:20 P	9
17	9	42.9	7:20 A	43.7	2:00 P	10
18	10	43.1	7:15 A	43.2	1:05 P	11
19	11	43.8	7:20 A	44.9	4:10 P	12
20	12	47.7	7:25 A	49.2	2:30 P	13
21	13	51.0	9:45 A	51.6	2:45 P	14

Aeration completion date: 10/13 Curing completion date: 11/12

Screened pile: _____

**Marcellus Compost Facility
Aeration Pile Temperature Log**

2020

Sludge _____ % New _____ % Recy _____ % Digester Sludge Input (gallons)

Compost Pile # 14

Mix Ratio _____ : _____ (sludge:chips)

ND: _____ @ (_____ mlss)

Chip Ratio _____ : _____ (new:recycled)

SD: _____ @ (_____ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	10/9	23.0	7 ²⁰ A	24.2	2 ⁰⁰ P	Pressed on 10/8
2	10	24.7	7:15 A	25.1	105P	SD- 15.67
3	11	26.0	7:20 A	28.2	4 ¹⁰ P	ND 15.72
4	12	30.1	7 ²⁵ A	33.8	2 ³⁰ P	
5	13	35.6	9 ⁴⁵ A	37.1	2 ⁴⁵ P	
6	14	38.8	7 ²⁰ A	40.9	2 ⁵⁰ P	
7	15	46.1	7 ³⁰ A	53.6	1 ³⁰ P	
8	16	56.4	7 ¹⁰ A	56.6	12 ⁵ P	(1)
9	17	56.6	7:15 A	56.3	12 ⁰⁵ P	(2)
10	18	55.3	7:15 A	56.4	3 ¹⁵ P	(3)
11	19	56.1	7 ¹⁰ A	56.6	2 ⁴⁰ P	4
12	20	55.6	7 ¹⁵ A	55.8	1 ⁴⁰ P	5
13	21	56.0	7 ²⁵ A	56.1	12 ³⁰ P	6
14	22	56.5	7 ²⁰ A	56.7	2 ⁰⁰ P	7
15	23	55.7	7 ¹⁵ A	56.0	12 ⁵ P	8
16	24	56.4	7:15 A	55.9	12 ²⁵ P	9
17	25	56.0	7:15 A	56.3	3 ⁴⁰ P	10
18	26	56.5	7 ¹⁰ A	56.6	12 ⁵⁰ P	11
19	27	55.8	7 ⁰⁵ A	56.1	1 ⁴⁰ P	12
20	28	56.5	7 ¹⁵ A	56.0	2 ²⁰ P	13
21	29	56.1	7 ²⁵ A	56.6	1 ¹⁵ P	14

Aeration completion date: 10/29 Curing completion date: 11/28

Screened pile: _____

SECTION 7 – FINISHED COMPOST ANALYSIS

Please attach sampling analyses and laboratory reports as required under Part 360 or your permit. Copies of original laboratory results must be attached. All results, except pH and Total Solids, must be on a dry weight basis.

Summarize data in table below or attached document. Print additional pages as needed.

Analysis Date ==>	4/21/20	6/1/20	6/8/20	6/22/20	Permit Pre 2017 Regs. Monthly Conc. (mg/kg)	Permit Post 2017 Regs. Max. Conc. (mg/kg)
	Arsenic (mg/kg)	2.4	2.1	2.4	ND	41
Cadmium (mg/kg)	ND	ND	ND	ND	10	10
Chromium (mg/kg)	10	10	9.5	7.5	1,000	1,000
Copper (mg/kg)	330	330	290	220	1,500	1,500
Lead (mg/kg)	19	16	16	12	300	300
Mercury (mg/kg)	0.92	0.98	0.83	0.81	10	10
Molybdenum (mg/kg)	2.8	3.0	4.9	2.8	40	40
Nickel (mg/kg)	9.9	10	9.5	7.7	200	200
Selenium (mg/kg)	3.5	3.3	3.5	2.7	100	100
Zinc (mg/kg)	490	470	420	330	2,500	2,500
TKN (mg/kg)	33000	23000	24000	18000		
Ammonia Nitrogen (mg/kg)	2100	2900	2600	2800		
Nitrate (mg/kg)	220	810	1600	1200		
Total Phosphorus (mg/kg)	3900	8300	13000	8300		
Total Potassium (mg/kg)	4400	4800	4600	3800		
pH (s.u.)	6.0	6.4	6.0	6.0		
Total Solids (%)	46	59	52	56		
Total Volatile Solids (%)	78	82	83	78		
Fecal Coliform (MPN/g)					<1,000 MPN/g	
Salmonella sp. (MPN/4g)	<3	<3	<3	<3	<3MPN/4g	
Other _____						

SECTION 7 – FINISHED COMPOST ANALYSIS

Please attach sampling analyses and laboratory reports as required under Part 360 or your permit. Copies of original laboratory results must be attached. All results, except pH and Total Solids, must be on a dry weight basis.

Summarize data in table below or attached document. Print additional pages as needed.

Analysis Date ==>	7/14/20	8/17/20			Permit Pre 2017 Regs. Monthly Conc. (mg/kg)	Permit Post 2017 Regs. Max. Conc. (mg/kg)
	Arsenic (mg/kg)	2.2	2.5			41
Cadmium (mg/kg)	ND	ND			10	10
Chromium (mg/kg)	11	9.4			1,000	1,000
Copper (mg/kg)	290	250			1,500	1,500
Lead (mg/kg)	15	14			300	300
Mercury (mg/kg)	0.60	0.52			10	10
Molybdenum (mg/kg)	2.8	2.9			40	40
Nickel (mg/kg)	9.1	8.5			200	200
Selenium (mg/kg)	3.6	3.2			100	100
Zinc (mg/kg)	460	410			2,500	2,500
TKN (mg/kg)	25000	27000				
Ammonia Nitrogen (mg/kg)	3200	4100				
Nitrate (mg/kg)	3200	480				
Total Phosphorus (mg/kg)	16000	16000				
Total Potassium (mg/kg)	5200	5100				
pH (s.u.)	5.8	6.5				
Total Solids (%)	45	55				
Total Volatile Solids (%)	75	78				
Fecal Coliform (MPN/g)					<1,000 MPN/g	
Salmonella sp. (MPN/4g)	<3	<3			<3MPN/4g	
Other _____						

①



Life Science Laboratories, Inc.

Greg Crysler/Mallory Reedy
Marcellus, Village of
6 Slocombe Ave
Marcellus, NY 13108

Phone: (315) 673-4491
FAX: (315) 673-3217
Authorization: PO# 17175
Federal Water
Supply ID: NY3304322

Laboratory Analysis Report Prepared For Marcellus, Village of

LSL Project ID: 2005524

Receive Date/Time: 04/21/20 10:35

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LSL Central Lab
5854 Butternut Drive
East Syracuse, NY 13057
Tel. (315) 445-1900
Fax (315) 445-1104
NYS DOH ELAP #10248

LSL North Lab
131 St. Lawrence Avenue
Waddington, NY 13694
Tel. (315) 388-4476
Fax (315) 388-4061
NYS DOH ELAP #10900

LSL Finger Lakes Lab
16 N. Main St., PO Box 424
Wayland, NY 14572
Tel. (585) 213-4090
Fax (585) 213-4192
NYS DOH ELAP #11667

LSL Southern Tier Office
Cuba, NY
Tel. (585) 209-4032

LSL MidLakes Office
Canandaigua, NY
Tel. (585) 728-3320

Reviewed by:


Kristin E. Carpenter, Quality Staff

Date:

05/12/20

-- LABORATORY ANALYSIS REPORT --

Marcellus, Village of Marcellus, NY

Sample ID:	Compost Sample Comp.	LSL Sample ID:	2005524-001
Location:		Federal Water Supply ID:	NY3304322
Sampled:	04/21/20 9:40	Sampled By:	JH
Sample Matrix:	SHW Dry Wt, Compost	Source Code:	
		Reason Code:	

Analytical Method Analyte	Result	Units	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
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(1) EPA 1682(2014) Salmonella by MSRV Salmonella	<3	MPN/4g Dry			4/21/20 15:20	DA/DA
<i>The NYS DOH ELAP does not offer certification for this analyte.</i>						

(1) EPA 6010C Metals Please refer to the next page			EPA 3050B			MT
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(1) EPA 7471B Metals Please refer to the next page			EPA 7471B			MT
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(1) EPA 9045D Water Extractable pH pH	6.0	Std Units			5/5/20	HKB
pH Measurement Temperature	25	Degrees C			5/5/20	HKB
<i>pH is not certifiable by the NYS DOH ELAP in a solid/sludge matrix.</i>						

(1) EPA Method 9056A Nitrate as N	220	mg/kg dry	EPA 300.0A	4/24/20	4/27/20 19:25	MT
Nitrite as N	<22	mg/kg dry		4/24/20	4/27/20 19:25	MT

(1) Modified EPA 350.1, Rev. 2.0 (1993) Ammonia Ammonia as N	2100	mg/kg dry		5/2/20	5/4/20	JJC
<i>As per NELAC regulation disclosure of the following condition is required. The result of the laboratory control sample was less than the established limit.</i>						
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						

(1) Modified EPA 351.2, Rev. 2.0 (1993) TKN as N Total Kjeldahl Nitrogen	33000	mg/kg dry		4/29/20	4/29/20	JJC
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						

(1) Modified EPA 365.1, Rev. 2.0 (1993), Rev. 2.0 Total Phosphorus Phosphorus, Total as P	3900	mg/kg dry		5/1/20	5/4/20	HKB
<i>The NYS DOH ELAP does not offer certification for this method in this matrix. This analysis was performed by Method EPA 365.3</i>						

(1) SM 2540 G-97,-11 Total Solids Total Solids @ 103-105 C	46	%			4/23/20	ARJ
<i>This analysis is not certifiable by the NYS DOH ELAP.</i>						

(1) Total Volatile Solids, SM18-21 2540E Total Volatile Solids @ 550 C	78	%			4/23/20	ARJ
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						

Analysis performed at: (1) LSL Central Lab, (2) LSL North Lab, (3) LSL Finger Lakes Lab



Life Science Laboratories, Inc.
 5854 Butternut Drive
 East Syracuse, NY 13057 (315) 445-1900

Analytical Results

StateCertNo: 10248

CLIENT: Life Science Labs-LIMS
Project: Village of Marcellus
W Order: 2005524
Matrix: SLUDGE

Lab ID: 2005524-001A
Client Sample ID: Compost Sample Comp.
Collection Date: 04/21/20 9:40
Date Received: 04/21/20 10:35

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
MERCURY			SW7471B		(SW7471B)
Mercury	0.92		0.22 mg/Kg-dry	1	05/01/20 15:28

TOTAL METALS BY ICP		SW6010C	(SW3050B)
Arsenic	2.4	2.2 mg/Kg-dry	1 05/01/20 13:14
Cadmium	ND	2.2 mg/Kg-dry	1 05/01/20 13:14
Chromium	10	2.2 mg/Kg-dry	1 05/01/20 13:14
Copper	330	2.2 mg/Kg-dry	1 05/01/20 13:14
Lead	19	2.2 mg/Kg-dry	1 05/01/20 13:14
Molybdenum	2.8	2.2 mg/Kg-dry	1 05/01/20 13:14
Nickel	9.9	2.2 mg/Kg-dry	1 05/01/20 13:14
Potassium	4400	220 mg/Kg-dry	1 05/06/20 16:13
Selenium	3.5	2.2 mg/Kg-dry	1 05/01/20 13:14
Zinc	490	4.4 mg/Kg-dry	1 05/01/20 13:14

PERCENT MOISTURE		SM 2540 G
Percent Moisture	54.4	1.0 wt% 1 04/23/20

- Qualifiers:**
- * Value may exceed the Acceptable Level
 - B Analyte detected in the associated Method Blank
 - E Value exceeds the instrument calibration range
 - H Holding times for preparation or analysis exceeded
 - J Analyte detected below the PQL
 - ND Not Detected at the Practical Quantitation Limit (PQL)
 - P Prim./Conf. column %D or RPD exceeds limit
 - S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

Greg Crysler/Mallory Reedy
Marcellus, Village of
6 Slocombe Ave
Marcellus, NY 13108

Phone: (315) 673-4491
FAX: (315) 673-3217

Federal Water
Supply ID: NY3304322

Laboratory Analysis Report

Prepared For

Marcellus, Village of

Client Project ID:

Compost

LSL Project ID: **2007604**

Receive Date/Time: 06/01/20 9:10

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LSL Central Lab
5854 Butternut Drive
East Syracuse, NY 13057
Tel. (315) 445-1900
Fax (315) 445-1104
NYS DOH ELAP #10248

LSL North Lab
131 St. Lawrence Avenue
Waddington, NY 13694
Tel. (315) 388-4476
Fax (315) 388-4061
NYS DOH ELAP #10900

LSL Finger Lakes Lab
16 N. Main St., PO Box 424
Wayland, NY 14572
Tel. (585) 213-4090
Fax (585) 213-4192
NYS DOH ELAP #11667

LSL Southern Tier Office
Cuba, NY
Tel. (585) 209-4032

LSL MidLakes Office
Canandaigua, NY
Tel. (585) 728-3320

Reviewed by:

Kristin E. Carpenter
Kristin E. Carpenter, Quality Staff

Date:

06/30/20

A copy of this report was sent to:

-- LABORATORY ANALYSIS REPORT --

Marcellus, Village of Marcellus, NY

Sample ID:	Compost Sample Comp.	LSL Sample ID:	2007604-001
Location:		Federal Water Supply ID:	NY3304322
Sampled:	06/01/20 8:15	Sampled By:	JH
Sample Matrix:	SHW Dry Wt, Compost	Source Code:	
		Reason Code:	

Analytical Method Analyte	Result	Units	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 1682(2014) Salmonella by MSRV Salmonella	<3	MPN/4g Dry			6/1/20 15:05	DA/DA
<i>The NYS DOH ELAP does not offer certification for this analyte.</i>						
(1) EPA 6010C Metals Please refer to the next page			EPA 3050B			MT
(1) EPA 7471B Metals Please refer to the next page			EPA 7471B			MT
(1) EPA 9045D Water Extractable pH pH	6.4	Std Units			6/23/20	HKB
pH Measurement Temperature	25	Degrees C			6/23/20	HKB
<i>pH is not certifiable by the NYS DOH ELAP in a solid/sludge matrix.</i>						
(1) EPA Method 9056A Nitrate as N	810	mg/kg dry	EPA 300.0A	6/12/20	6/14/20 11:57	MT
<i>As per NELAC regulation, disclosure of the following condition is required; The associated matrix spike duplicate recovery were outside the method specified control limits.</i>						
Nitrite as N	<42	mg/kg dry		6/12/20	6/14/20 11:57	MT
(1) Modified EPA 350.1, Rev. 2.0 (1993) Ammonia						
Ammonia as N	2900	mg/kg dry		6/13/20	6/15/20	JJC
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						
(1) Modified EPA 351.2, Rev. 2.0 (1993) TKN as N Total Kjeldahl Nitrogen	23000	mg/kg dry		6/8/20	6/8/20	JJC
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						
(1) Modified EPA 365.1, Rev. 2.0 (1993), Rev. 2.0 Total Phosphorus Phosphorus, Total as P	8300	mg/kg dry		6/15/20	6/16/20	ARJ
<i>As per NELAC regulation disclosure of the following condition is required; The result of the laboratory control sample was greater than the established limit.</i>						
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						
(1) SM 2540 G-97,-11 Total Solids Total Solids @ 103-105 C	59	%			6/1/20	ARJ
<i>This analysts is not certifiable by the NYS DOH ELAP.</i>						
(1) Total Volatile Solids, SM18-21 2540E Total Volatile Solids @ 550 C	82	%			6/1/20	ARJ
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						

Analysis performed at: (1) LSL Central Lab, (2) LSL North Lab, (3) LSL Finger Lakes Lab



Life Science Laboratories, Inc.
 5854 Butternut Drive
 East Syracuse, NY 13057 (315) 445-1900

Analytical Results

StateCertNo: 10248

CLIENT: Life Science Labs-LIMS
Project: Village of Marcellus
W Order: 2007604
Matrix: COMPOST

Lab ID: 2007604-001A
Client Sample ID: Compost Sample Comp.
Collection Date: 06/01/20 8:15
Date Received: 06/01/20 9:10

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
MERCURY			SW7471B		(SW7471B)
Mercury	0.98		0.17 mg/Kg-dry	1	06/08/20 13:59

TOTAL METALS BY ICP		SW6010C	(SW3050B)
Arsenic	2.1	1.7 mg/Kg-dry	1 06/09/20 18:42
Cadmium	ND	1.7 mg/Kg-dry	1 06/09/20 18:42
Chromium	10	1.7 mg/Kg-dry	1 06/09/20 18:42
Copper	330	1.7 mg/Kg-dry	1 06/09/20 18:42
Lead	16	1.7 mg/Kg-dry	1 06/09/20 18:42
Molybdenum	3.0	1.7 mg/Kg-dry	1 06/09/20 18:42
Nickel	10	1.7 mg/Kg-dry	1 06/09/20 18:42
Potassium	4800	170 mg/Kg-dry	1 06/11/20 16:07
Selenium	3.3	1.7 mg/Kg-dry	1 06/09/20 18:42
Zinc	470	3.4 mg/Kg-dry	1 06/09/20 18:42

PERCENT MOISTURE		SM 2540 G
Percent Moisture	41.0	1.0 wt% 1 06/01/20

- Qualifiers:**
- * Value may exceed the Acceptable Level
 - E Value exceeds the instrument calibration range
 - J Analyte detected below the PQL
 - P Prim./Conf. column %D or RPD exceeds limit
 - B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - ND Not Detected at the Practical Quantitation Limit (PQL)
 - S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

Greg Cryslar/Mallory Reedy
Marcellus, Village of
6 Slocombe Ave
Marcellus, NY 13108

Phone: (315) 673-4491
FAX: (315) 673-3217

Federal Water
Supply ID: NY3304322

Laboratory Analysis Report

Prepared For

Marcellus, Village of

Client Project ID:

Compost

LSL Project ID: **2008146**

Receive Date/Time: 06/08/20 10:18

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LSL Central Lab
5854 Butternut Drive
East Syracuse, NY 13057
Tel. (315) 445-1900
Fax (315) 445-1104
NYS DOH ELAP #10248

LSL North Lab
131 St. Lawrence Avenue
Waddington, NY 13694
Tel. (315) 388-4476
Fax (315) 388-4061
NYS DOH ELAP #10900

LSL Finger Lakes Lab
16 N. Main St., PO Box 424
Wayland, NY 14572
Tel. (585) 213-4090
Fax (585) 213-4192
NYS DOH ELAP #11667

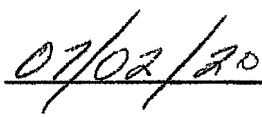
LSL Southern Tier Office
Cuba, NY
Tel.: (585) 209-4032

LSL MidLakes Office
Canandaigua, NY
Tel. (585) 728-3320

Reviewed by:


Kristin E. Carpenter, Quality Staff

Date:



-- LABORATORY ANALYSIS REPORT --

Marcellus, Village of Marcellus, NY

Sample ID:	Compost Sample Comp.	LSL Sample ID:	2008146-001
Location:		Federal Water Supply ID:	NY3304322
Sampled:	06/08/20 9:18	Sampled By:	JH
Sample Matrix:	SHW Dry Wt, Compost	Source Code:	
		Reason Code:	

Analytical Method Analyte	Result	Prep Method Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 160.4 Total Volatile Solids Total Volatile Solids @ 550 C <i>This analysis is not certifiable by NYS DOH ELAP.</i>	83	%		6/12/20	ARJ
(1) EPA 1682(2014) Salmonella by MSRV Salmonella <i>The NYS DOH ELAP does not offer certification for this analyte.</i>	<3	MPN/4g Dry		6/8/20 15:50	DA/DA
(1) EPA 6010C Part 360 Total Metals Please refer to the next page		EPA 3050B			MT
(1) EPA 9045D Water Extractable pH pH pH Measurement Temperature <i>This analysis is not certifiable by NYS DOH ELAP.</i>	6.0	Std Units		6/25/20	HKB
	25	Degrees C		6/25/20	HKB
(1) Mercury by EPA 7471B Please refer to the next page					MT
(1) Modified EPA 350.1, Rev. 2.0 (1993) Ammonia Ammonia as N <i>This analysis is not certifiable by NYS DOH ELAP.</i>	2600	mg/kg dry	6/20/20	6/22/20	JJC
(1) Modified EPA 351.2, Rev. 2.0 (1993)TKN as N Total Kjeldahl Nitrogen <i>This analysis is not certifiable by NYS DOH ELAP.</i>	24000	mg/kg dry	6/12/20	6/12/20	JJC
(1) Modified EPA 365.3, Rev. 2.0 (1993) Total Phosphorus Phosphorus, Total as P <i>The NYS DOH ELAP does not certify for this analyte in this matrix.</i>	13000	mg/kg dry	6/24/20	6/25/20	ARJ
(1) Modified SM 18-20 2540B Total Solids Total Solids @ 103-105 C <i>This analysis is not certifiable by NYS DOH ELAP.</i>	52	%		6/12/20	ARJ
(1) Nitrate-N by EPA Method 9056A Nitrate as N	1600	mg/kg dry	6/18/20	6/27/20 12:14	MT
(1) Nitrite-N by EPA Method 9056A Nitrite as N	<10	mg/kg dry	6/18/20	6/22/20 18:20	MT
(1) Water Extraction of Solids, EPA 300.0, Rev. 2.1 (1993) Water Extraction		EPA 300.0A		6/18/20	SAB

Analysis performed at: (1) LSL Central Lab, (2) LSL North Lab, (3) LSL Finger Lakes Lab



Life Science Laboratories, Inc.
 5854 Butternut Drive
 East Syracuse, NY 13057 (315) 445-1900

Analytical Results

StateCertNo: 10248

CLIENT: Life Science Labs-LIMS
Project: Village of Marcellus
W Order: 2008146
Matrix: COMPOST

Lab ID: 2008146-001A
Client Sample ID: *Compost Sample Comp.*
Collection Date: 06/08/20 9:18
Date Received: 06/08/20 10:18

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
MERCURY			SW7471B			(SW7471B)
Mercury	0.83		0.19	mg/Kg-dry	1	06/25/20 12:02

TOTAL METALS BY ICP		SW6010C	(SW3050B)
Arsenic	2.4	1.9 mg/Kg-dry	1 06/23/20 15:23
Cadmium	ND	1.9 mg/Kg-dry	1 06/23/20 15:23
Chromium	9.5	1.9 mg/Kg-dry	1 06/23/20 15:23
Copper	290	1.9 mg/Kg-dry	1 06/23/20 15:23
Lead	16	1.9 mg/Kg-dry	1 06/23/20 15:23
Molybdenum	4.9	1.9 mg/Kg-dry	1 06/23/20 15:23
Nickel	9.5	1.9 mg/Kg-dry	1 06/23/20 15:23
Potassium	4600	190 mg/Kg-dry	1 06/19/20 12:24
Selenium	3.5	1.9 mg/Kg-dry	1 06/23/20 15:23
Zinc	420	3.9 mg/Kg-dry	1 06/23/20 15:23

PERCENT MOISTURE		SM 2540 G
Percent Moisture	48.4	1.0 wt% 1 06/12/20

Qualifiers:

- * Value may exceed the Acceptable Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

(4)



Life Science Laboratories, Inc.

Greg Crysler/Mallory Reedy
Marcellus, Village of
6 Slocombe Ave
Marcellus, NY 13108

Phone: (315) 673-4491
FAX: (315) 673-3217
Authorization: PO #17194
Federal Water
Supply ID: NY3304322

Laboratory Analysis Report

Prepared For

Marcellus, Village of

Client Project ID:

Compost

LSL Project ID: **2009093**

Receive Date/Time: 06/22/20 10:05

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Waddington, NY 13694
Tel. (315) 388-4476
Fax (315) 388-4061
NYS DOH ELAP #10900

LSL Finger Lakes Lab
16 N. Main St., PO Box 424
Wayland, NY 14572
Tel. (585) 213-4090
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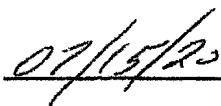
LSL Southern Tier Office
Cuba, NY
Tel. (585) 209-4032

LSL MidLakes Office
Canandaigua, NY
Tel. (585) 728-3320

Reviewed by:


Kristin E. Carpenter, Quality Staff

Date:



-- LABORATORY ANALYSIS REPORT --

Marcellus, Village of Marcellus, NY

Sample ID:	Compost Sample Composite	LSL Sample ID:	2009093-001
Location:		Federal Water Supply ID:	NY3304322
Sampled:	06/22/20 8:50	Sampled By:	JH
Sample Matrix:	SHW Dry Wt, Compost	Source Code:	
		Reason Code:	

Analytical Method Analyte	Result	Units	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 160.4 Total Volatile Solids Total Volatile Solids @ 550 C <i>This analysis is not certifiable by NYS DOH ELAP.</i>	78	%			6/25/20	ARJ
(1) EPA 1682(2014) Salmonella by MSRV Salmonella <i>The NYS DOH ELAP does not offer certification for this analyte.</i>	<3	MPN/4g Dry			6/22/20 15:20	DA/DA
(1) EPA 6010C Part 360 Total Metals Please refer to the next page			EPA 3050B			MT
(1) EPA 9045D Water Extractable pH pH pH Measurement Temperature <i>This analysis is not certifiable by NYS DOH ELAP.</i>	6.0	Std Units			7/2/20	HKB
	25	Degrees C			7/2/20	HKB
(1) Mercury by EPA 7471B Please refer to the next page						MT
(1) Modified EPA 350.1, Rev. 2.0 (1993) Ammonia Ammonia as N <i>This analysis is not certifiable by NYS DOH ELAP.</i>	2800	mg/kg dry		7/3/20	7/3/20	JJC
(1) Modified EPA 351.2, Rev. 2.0 (1993)TKN as N Total Kjeldahl Nitrogen <i>This analysis is not certifiable by NYS DOH ELAP.</i>	18000	mg/kg dry		6/26/20	6/26/20	JJC
(1) Modified EPA 365.3, Rev. 2.0 (1993) Total Phosphorus Phosphorus, Total as P <i>The NYS DOH ELAP does not certify for this analyte in this matrix.</i>	8300	mg/kg dry		7/8/20	7/9/20	ARJ
(1) Modified SM 18-20 2540B Total Solids Total Solids @ 103-105 C <i>This analysis is not certifiable by NYS DOH ELAP.</i>	56	%			6/25/20	ARJ
(1) Nitrate-N by EPA Method 9056A Nitrate as N	1200	mg/kg dry	EPA 300.0A	6/30/20	7/3/20 14:18	MT
(1) Nitrite-N by EPA Method 9056A Nitrite as N	<45	mg/kg dry	EPA 300.0A	6/30/20	7/3/20 14:18	MT
(1) Water Extraction of Solids, EPA 300.0, Rev. 2.1 (1993) Water Extraction			EPA 300.0A	6/30/20	6/30/20	SAB

Analysis performed at: (1) LSL Central Lab, (2) LSL North Lab, (3) LSL Finger Lakes Lab



Life Science Laboratories, Inc.
 5854 Butternut Drive
 East Syracuse, NY 13057 (315) 445-1900

Analytical Results

StateCertNo: 10248

CLIENT: Life Science Labs-LIMS
Project: Village of Marcellus
W Order: 2009093
Matrix: COMPOST

Lab ID: 2009093-001A
Client Sample ID: *Compost Sample Composite*
Collection Date: 06/22/20 8:50
Date Received: 06/22/20 10:05

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
MERCURY			SW7471B		(SW7471B)
Mercury	0.81		0.18 mg/Kg-dry	1	07/02/20 13:44

TOTAL METALS BY ICP			SW6010C		(SW3050B)
Arsenic	ND		1.8 mg/Kg-dry	1	07/09/20 10:51
Cadmium	ND		1.8 mg/Kg-dry	1	07/09/20 10:51
Chromium	7.5		1.8 mg/Kg-dry	1	07/09/20 10:51
Copper	220		1.8 mg/Kg-dry	1	07/09/20 10:51
Lead	12		1.8 mg/Kg-dry	1	07/09/20 10:51
Molybdenum	2.8		1.8 mg/Kg-dry	1	07/09/20 10:51
Nickel	7.7		1.8 mg/Kg-dry	1	07/09/20 10:51
Potassium	3800		180 mg/Kg-dry	1	07/07/20 12:30
Selenium	2.7		1.8 mg/Kg-dry	1	07/09/20 10:51
Zinc	330		3.6 mg/Kg-dry	1	07/09/20 10:51

PERCENT MOISTURE			SM 2540 G		
Percent Moisture	43.7		1.0 wt%	1	06/25/20

- Qualifiers:**
- * Value may exceed the Acceptable Level
 - E Value exceeds the instrument calibration range
 - J Analyte detected below the PQL
 - P Prim./Conf. column %D or RPD exceeds limit
 - B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - ND Not Detected at the Practical Quantitation Limit (PQL)
 - S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

Greg Crysler/Mallory Reedy
Marcellus, Village of
6 Slocombe Ave
Marcellus, NY 13108

Phone: (315) 673-4491
FAX: (315) 673-3217

Federal Water
Supply ID: NY3304322

Laboratory Analysis Report

Prepared For

Marcellus, Village of

Client Project ID:

Compost

LSL Project ID: **2010628**

Receive Date/Time: 07/14/20 8:50

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By the Client's acceptance and/or use of this report, the Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect the Client as regards to the results contained in this report. The Client further agrees that the only remedy available to the Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to the Client. The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without express prior written consent of Life Science Laboratories, Inc. This report may only be reproduced in its entirety. No partial duplication is allowed. The Chain of Custody and the Sample Receipt documents submitted with these samples are considered by LSL to be an appendix of this report and may contain data qualifiers and specific information that pertains to the samples included in this report. The analytical result(s) in this report are only representative of the sample(s) submitted for analysis. LSL makes no claim of a sample's representativeness, or integrity, if sampling was not performed by LSL personnel.

LSL Central Lab
5854 Butternut Drive
East Syracuse, NY 13057
Tel. (315) 445-1900
Fax (315) 445-1104
NYS DOH ELAP #10248

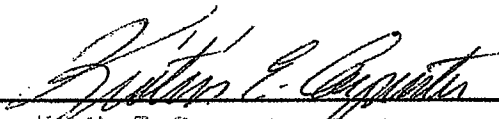
LSL North Lab
131 St. Lawrence Avenue
Waddington, NY 13694
Tel. (315) 388-4476
Fax (315) 388-4061
NYS DOH ELAP #10900

LSL Finger Lakes Lab
16 N. Main St., PO Box 424
Wayland, NY 14572
Tel. (585) 213-4090
Fax (585) 213-4192
NYS DOH ELAP #11667

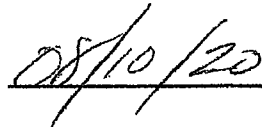
LSL Southern Tier Office
Cuba, NY
Tel. (585) 209-4032

LSL MidLakes Office
Canandaigua, NY
Tel. (585) 728-3320

Reviewed by:


Martin E. Carpenter, Quality Staff

Date:



-- LABORATORY ANALYSIS REPORT --

Marcellus, Village of Marcellus, NY

Sample ID:	Compost Sample	LSL Sample ID:	2010628-001
Location:		Federal Water Supply ID:	NY3304322
Sampled:	07/14/20 8:06	Sampled By:	JH
Sample Matrix:	SHW Dry Wt, Compost	Source Code:	
		Reason Code:	

Analytical Method	Result	Units	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 160.4 Total Volatile Solids Total Volatile Solids @ 550 C <i>This analysis is not certifiable by NYS DOH ELAP.</i>	75	%			7/23/20	ARJ
(1) EPA 1682(2014) Salmonella by MSRV Salmonella <i>The NYS DOH ELAP does not offer certification for this analyte.</i>	<3	MPN/4g Dry			7/14/20 15:10	DA/DA
(1) EPA 6010C Part 360 Total Metals Please refer to the next page			EPA 3050B			MT
(1) EPA 9045D Water Extractable pH pH pH Measurement Temperature <i>This analysis is not certifiable by NYS DOH ELAP.</i>	5.8	Std Units			7/29/20	HKB
	25	Degrees C			7/29/20	HKB
(1) Mercury by EPA 7471B Please refer to the next page						MT
(1) Modified EPA 350.1, Rev. 2.0 (1993) Ammonia Ammonia as N <i>As per NELAC regulation disclosure of the following condition is required. The result of the laboratory control sample was less than the established limit.</i> <i>This analysis is not certifiable by NYS DOH ELAP.</i>	3200	mg/kg dry		7/25/20	7/27/20	JJC
(1) Modified EPA 351.2, Rev. 2.0 (1993)TKN as N Total Kjeldahl Nitrogen <i>As per NELAC regulation disclosure of the following condition is required. The method blank and laboratory control sample results were greater than the established limit.</i> <i>This analysis is not certifiable by NYS DOH ELAP.</i>	25000	mg/kg dry		7/24/20	7/24/20	JJC
(1) Modified EPA 365.3, Rev. 2.0 (1993) Total Phosphorus Phosphorus, Total as P <i>The NYS DOH ELAP does not certify for this analyte in this matrix.</i>	16000	mg/kg dry		8/4/20	8/6/20	HKB
(1) Nitrate-N by EPA Method 9056A Nitrate as N	3200	mg/kg dry	EPA 300.0A	7/28/20	7/29/20 14:37	MT
(1) Nitrite-N by EPA Method 9056A Nitrite as N	29	mg/kg dry	EPA 300.0A	7/28/20	7/28/20 18:09	MT
(1) SM 2540 G-97,-11 Total Solids Total Solids @ 103-105 C <i>This analysis is not certifiable by the NYS DOH ELAP.</i>	45	%			7/23/20	ARJ
(1) Water Extraction of Solids, EPA 300.0, Rev. 2.1 (1993) Water Extraction			EPA 300.0A		7/28/20	SAB

Analysis performed at: (1) LSL Central Lab, (2) LSL North Lab, (3) LSL Finger Lakes Lab



Life Science Laboratories, Inc.
 5854 Butternut Drive
 East Syracuse, NY 13057 (315) 445-1900

Analytical Results

StateCertNo: 10248

CLIENT: Life Science Labs-LIMS
Project: Village of Marcellus
W Order: 2010628
Matrix: COMPOST

Lab ID: 2010628-001A
Client Sample ID: Compost Sample
Collection Date: 07/14/20 8:06
Date Received: 07/14/20 8:50

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
MERCURY			SW7471B		(SW7471B)
Mercury	0.60		0.18 mg/Kg-dry	1	07/23/20 14:15

TOTAL METALS BY ICP			SW6010C		(SW3050B)
Arsenic	2.2		1.8 mg/Kg-dry	1	07/30/20 12:46
Cadmium	ND		1.8 mg/Kg-dry	1	07/30/20 12:46
Chromium	11		1.8 mg/Kg-dry	1	07/30/20 12:46
Copper	290		1.8 mg/Kg-dry	1	07/30/20 12:46
Lead	15		1.8 mg/Kg-dry	1	07/30/20 12:46
Molybdenum	2.8		1.8 mg/Kg-dry	1	07/30/20 12:46
Nickel	9.1		1.8 mg/Kg-dry	1	07/30/20 12:46
Potassium	5200		180 mg/Kg-dry	1	07/30/20 12:46
Selenium	3.6		1.8 mg/Kg-dry	1	07/30/20 12:48
Zinc	460		3.6 mg/Kg-dry	1	07/30/20 12:46

NOTES:

As per NELAC regulation, disclosure of the following condition is required; The result of the low level continuing calibration verification sample for selenium was greater than the established limit.

PERCENT MOISTURE			SM 2540 G		
Percent Moisture	44.9		1.0 wt%	1	07/15/20

- Qualifiers:**
- * Value may exceed the Acceptable Level
 - E Value exceeds the instrument calibration range
 - J Analyte detected below the PQL
 - P Prim./Conf. column %D or RPD exceeds limit
 - B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - ND Not Detected at the Practical Quantitation Limit (PQL)
 - S Spike Recovery outside accepted recovery limits

6



Life Science Laboratories, Inc.

Greg Crysler/Mallory Reedy
Marcellus, Village of
6 Slocombe Ave
Marcellus, NY 13108

Phone: (315) 673-4491
FAX: (315) 673-3217

Federal Water
Supply ID: NY3304322

Laboratory Analysis Report

Prepared For

Marcellus, Village of

Client Project ID:

Compost

LSL Project ID: **2013022**

Receive Date/Time: 08/17/20 9:45

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By the Client's acceptance and/or use of this report, the Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect the Client as regards to the results contained in this report. The Client further agrees that the only remedy available to the Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to the Client. The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without express prior written consent of Life Science Laboratories, Inc. This report may only be reproduced in its entirety. No partial duplication is allowed. The Chain of Custody and the Sample Receipt documents submitted with these samples are considered by LSL to be an appendix of this report and may contain data qualifiers and specific information that pertains to the samples included in this report. The analytical result(s) in this report are only representative of the sample(s) submitted for analysis. LSL makes no claim of a sample's representativeness, or integrity, if sampling was not performed by LSL personnel.

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5854 Butternut Drive
East Syracuse, NY 13057
Tel. (315) 445-1900
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NYS DOH ELAP #10248

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131 St. Lawrence Avenue
Waddington, NY 13694
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LSL Finger Lakes Lab
16 N. Main St., PO Box 424
Wayland, NY 14572
Tel. (585) 213-4090
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NYS DOH ELAP #11667

LSL Southern Tier Office
Cuba, NY
Tel. (585) 209-4032

LSL MidLakes Office
Canandaigua, NY
Tel. (585) 728-3320

Reviewed by:

Kristin E. Carpenter, Quality Staff

Date:

09/10/20

A copy of this report was sent to:

-- LABORATORY ANALYSIS REPORT --

Marcellus, Village of Marcellus, NY

Sample ID:	Compost Sample Comp.	LSL Sample ID:	2013022-001
Location:		Federal Water Supply ID:	NY3304322
Sampled:	08/17/20 8:40	Sampled By:	JH
Sample Matrix:	SHW Dry Wt, Compost	Source Code:	
		Reason Code:	

Analytical Method	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result Units			

(1) EPA 1682(2014) Salmonella by MSRV			8/17/20 15:15	DA/DA
Salmonella	<3 MPN/4g Dry			

The NYS DOH ELAP does not offer certification for this analyte.

(1) EPA 6010C Metals	EPA 3050B			MT
Please refer to the next page				

(1) EPA 7471B Metals	EPA 7471B			MT
Please refer to the next page				

(1) EPA 9045D Water Extractable pH			9/1/20	HKB
pH	6.5 Std Units			
pH Measurement Temperature	25 Degrees C		9/1/20	HKB

pH is not certifiable by the NYS DOH ELAP in a solid/sludge matrix.

(1) EPA Method 9056A	EPA 300.0A			
Nitrate as N	480 mg/kg dry	8/19/20	8/23/20 14:32	MT
Nitrite as N	46 mg/kg dry	8/19/20	8/23/20 14:32	MT

(1) Modified EPA 350.1, Rev. 2.0 (1993)				
Ammonia				
Ammonia as N	4100 mg/kg dry	8/29/20	8/31/20	JJC

As per NELAC regulation disclosure of the following condition is required. The method blank result associated with this analysis was greater than the established limit.

The NYS DOH ELAP does not offer certification for this method in this matrix.

(1) Modified EPA 351.2, Rev. 2.0 (1993) TKN as N				
Total Kjeldahl Nitrogen	27000 mg/kg dry	8/28/20	8/28/20	JJC

As per NELAC regulation disclosure of the following condition is required. The method blank result associated with this analysis was greater than the established limit.

The NYS DOH ELAP does not offer certification for this method in this matrix.

(1) Modified EPA 365.3, Rev. 2.0 (1993) Total Phosphorus				
Phosphorus, Total as P	16000 mg/kg dry	8/25/20	8/26/20	JJC

The NYS DOH ELAP does not certify for this analyte in this matrix.

(1) SM 2540 G-97,-11 Total Solids				
Total Solids @ 103-105 C	55 %		8/18/20	ARJ

This analysis is not certifiable by the NYS DOH ELAP.

(1) Total Volatile Solids, SM18-21 2540E				
Total Volatile Solids @ 550 C	78 %		8/18/20	ARJ

The NYS DOH ELAP does not offer certification for this method in this matrix.

Analysis performed at: (1) LSL Central Lab, (2) LSL North Lab, (3) LSL Finger Lakes Lab



Life Science Laboratories, Inc.
 5854 Butternut Drive
 East Syracuse, NY 13057 (315) 445-1900

Analytical Results

StateCertNo: 10248

CLIENT: Life Science Labs-LIMS
Project: Village of Marcellus
Location: Compost
W Order: 2013022
Matrix: COMPOST

Lab ID: 2013022-001A
Client Sample ID: Compost Sample Comp.
Collection Date: 08/17/20 8:40
Date Received: 08/17/20 9:45

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
MERCURY			SW7471B		(SW7471B)
Mercury	0.52		0.18 mg/Kg-dry	1	08/21/20 14:29

TOTAL METALS BY ICP

SW6010C (SW3050B)

Arsenic	2.5		1.8 mg/Kg-dry	1	08/25/20 15:40
Cadmium	ND		1.8 mg/Kg-dry	1	08/25/20 15:40
Chromium	9.4		1.8 mg/Kg-dry	1	08/25/20 15:40
Copper	250		1.8 mg/Kg-dry	1	08/25/20 15:40
Lead	14		1.8 mg/Kg-dry	1	08/25/20 15:40
Molybdenum	2.9		1.8 mg/Kg-dry	1	08/25/20 15:40
Nickel	8.5		1.8 mg/Kg-dry	1	08/25/20 15:40
Potassium	5100		180 mg/Kg-dry	1	08/25/20 15:40
Selenium	3.2		1.8 mg/Kg-dry	1	08/25/20 15:40
Zinc	410		3.6 mg/Kg-dry	1	08/25/20 15:40

PERCENT MOISTURE

SM 2540 G

Percent Moisture	44.8		1.0 wt%	1	08/18/20
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Qualifiers:

* Value may exceed the Acceptable Level	B Analyte detected in the associated Method Blank
E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

SECTION 8 – SAMPLE MANAGEMENT

Describe the number, frequency and location of samples taken. Include a diagram showing all sampling locations.

SECTION 9 – ATTACHMENTS

Please attach:

- Temperature monitoring and detention time data.
- Sample analyses laboratory reports.
- Any additional reporting requirements.

Do you have a variance to the Part 360 permit requirements? Yes No

If yes, please describe:

SECTION 10 – UNAUTHORIZED WASTE

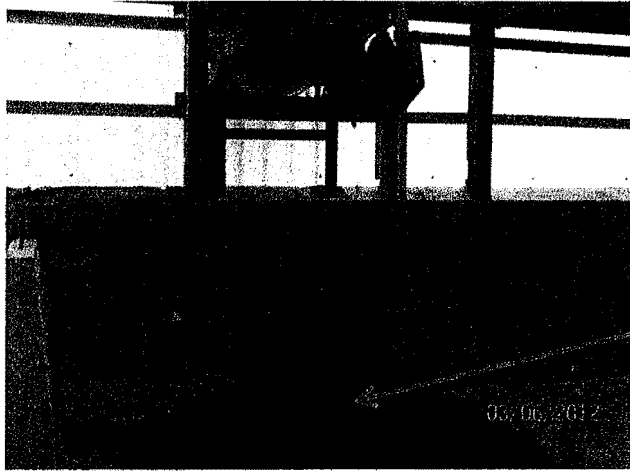
Has unauthorized solid waste been received at the Processing Facility during the reporting period?

Yes No

If yes, please explain.

SECTION 8 – SAMPLE MANAGEMENT

Describe the number, frequency and location of samples taken. Include a diagram showing sampling locations.

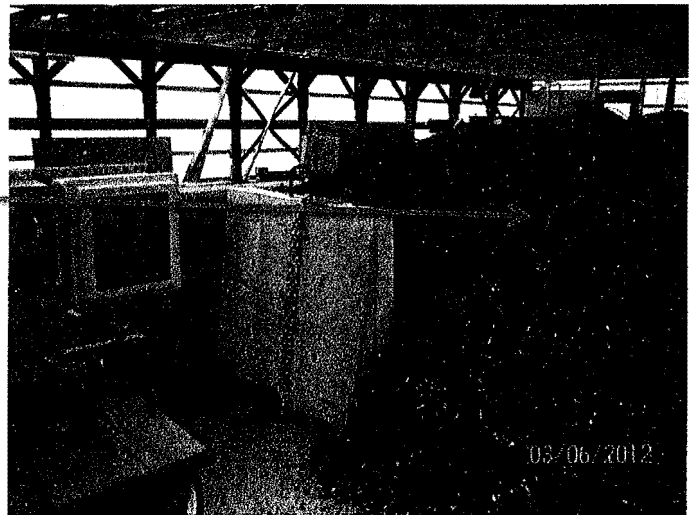


This is where the sludge enters the composting building from the Belt Press via a 30 ft conveyor. Sludge samples are taken from the pile throughout the day as a composite of that day's pressed sludge.

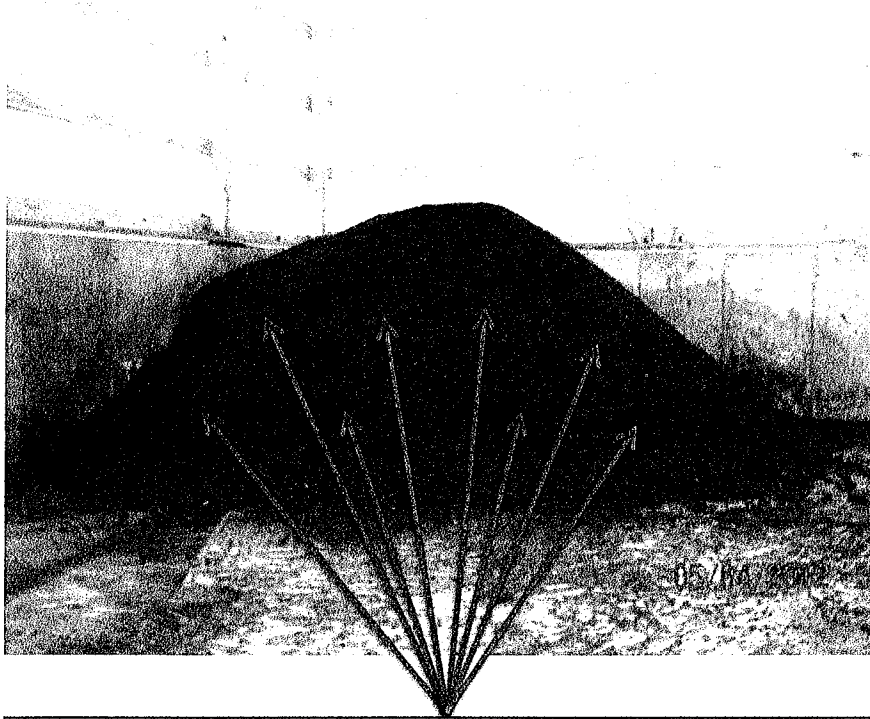
Typically, the BFP is run for a period of 7hrs on the day a pile is constructed. Each digester is pumped from individually.

This is where the temperature probe is inserted in the pile to obtain the pile temperature and control the blower's function.

Temperature readings are taken twice a day, (morning and afternoon), and recorded on a clipboard in the plant's office.



SECTION 8 – SAMPLE MANAGEMENT CONT.



A composite finished compost sample is taken from the “Finished” building that is located at the rear of the plant’s property. The composite is a sample taken from 8 different locations within a freshly finished pile. The part 360 and Salmonella sp. samples are taken at the same time and in the same composite manner.

SECTION 11 – PROBLEMS/COMPLAINTS

Describe any operational problems or complaints arising from the composting operation and include any methods used to remedy the situations. This should include odor complaints, marketing difficulties, major equipment failure, etc.

Section 12 – QUESTIONS

Please identify any questions or concerns that you would like the Department to answer or consider:

