VILLAGE OF WATERVILLE

WASTEWATER TREATMENT FACILITY

COMPOST ANNUAL REPORT

D.E.C. PERMIT NUMBER 6-3046-00032/00001
FACILITY NUMBER 33C03

2020 REPORT

Village of Waterville

Village Municipal Hall
122 Barton Avenue
Waterville, NY 13480
PH 315-841-4221
Fax 315-841-8007

Mr. Gary McCullouch
Region 6, Division of Materials Management
317 Washington St.
Watertown, NY 13601

February 1,2021

Dear Gary,
In accordance with Part 360 permit conditions the Village of Waterville is submitting its annual compost report. Our D.E.C. permit number is 6-3046-00032/00001 and our facility code is 33C03.

Our composting operation was again very successful in 2020. We made 8 compost piles in 2020 and all the piles made the required temperatures. Though the year we had 118 compost pickups and we gave away 235.44 cubic yards of finish compost to people in and around the Village of Waterville. We had no problems with the entire compost operation. No odor problems, no equipment failure, no problem getting free woodchips and no problem getting rid of the finish compost. Most of the summer we ran out of finish compost before the next compost pile completed its 51, day process. Cold weather is a problem when making compost. The woodchips are practically frozen and the finished compost is also frozen. In the past few years when a compost pile has finished its 51, day process we then pile it in a covered storage area and wait for warmer weather in the spring to screen it. The screening is much more efficient and goes much better in warmer weather and nobody wants compost in the winter months anyways.

The Village of Waterville runs a good clean composting operation and is very proud that we are doing something beneficial with our green waste and our biosolids and not just filling up valuable and costly land fill space.

Enclosed in this report are the completed D.E.C. forms that are required by our permit to be filled out each year. Also enclosed is: (8) compost temperature sheets, (2) part 360 sludge analysis, (2) finish compost part 360 analysis and (2) finish compost salmonella analysis.

If you have any questions please contact me at 315-841-4445 or watpstp2@villageofwaterville.org.

Michael Kelly, Plant Operator

Michael Kelly 2-1-21

Cc. Sally J. Rowland
Ruben Ostrander, Mayor Village of Waterville

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

2020

PERMITTED FACILITY ANNUAL REPORT BIOSOLIDS

COMPOSTING/OTHER PROCESSING

6 NYCRR Part 361-3.2

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: Waterville Compost Facility

PERMIT NUMBER: 6-3046-00032/00001

SW FACILITY ACTIVITY NUMBER: (Ex. 02PP0099) 33c03

COUNTY WHERE FACILITY IS LOCATED: Oneida

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: Waterville Sewage Treatment Plant			
FACILITY LOCATION ADDRESS: 1659 ST.RT.315	**FACILITY CITY:** Waterville	**STATE:** ny	**ZIP CODE:** 13480
FACILITY TOWN: Marshall	**FACILITY COUNTY:** Oneida	**FACILITY PHONE NUMBER:** 315-841-4445	
NYSDEC REGION #: 6			
FACILITY CONTACT: Michael Kelly	**CONTACT PHONE NUMBER:** 315-841-4445		
CONTACT EMAIL ADDRESS: watstp2@villageofwaterville.org			
OWNER INFORMATION			
OWNER NAME: Village of Waterville	**OWNER PHONE NUMBER:** 315-841-4221		
OWNER ADDRESS: 122 Barton Ave	**OWNER CITY:** Waterville	**STATE:** NY	**ZIP CODE:** 13480
OWNER CONTACT: Michael Kelly	**OWNER CONTACT EMAIL ADDRESS:** Watstp2@villageofwaterville.org		
OPERATOR INFORMATION			
OPERATOR NAME: ☑ *Same as owner* Michael Kelly			
PREFERENCES			
Preferred address to receive correspondence: ○ *Facility location address* ◉ *Owner address* ○ *Other (provide):*			
Preferred email address: ◉ *Facility Contact* ○ *Owner Contact* ○ *Other (provide):*			
Preferred individual to receive correspondence: ◉ *Facility Contact* ○ *Owner* ○ *Owner Contact* ○ *Other (provide):*			

Did you operate in 2020? ◉ **Yes; Complete this form.**

○ **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)	14.6	Dry Tons	100	Waterville aerobic digestor
Bulking Agent/Amendment Specify: _____	193.6	Dry Tons	100	Village of Waterville local tree sevice
Other: _____		Choose Units		

SECTION 3 – COMPOST PRODUCTION

WHAT IS THE PROCESS DETENTION TIME? *Note: Total time material is processed, not Including storage time*	51	**days**
COMPOST PRODUCED DURING THE YEAR:	159.6	Tons
COMPOST DISTRIBUTED DURING THE YEAR:	159.67	Tons
QUANTITY CURRENTLY STOCKPILED: *Note: Finished product stockpiled*	0.88	Tons
AGE OF OLDEST PRODUCT ON SITE:	4	**months**

SECTION 4 – COMPOST DISTRIBUTION

Quantity Distributed Cubic Yards	Use of Compost (landscaping, agriculture, highway, onsite, bagged, etc.)
Bill Humphery 17.6	flowers
Chade Welch 17.2	grass
Bob Smith 13.2	flowers
Waterville School 12.8	flowers / grass
Robert Hamelie 12.8	flowers
Mike Kelly 10.7	flowers
Elizabeth Wagner 9.6	grass
Bill Getman 9.6	flowers
Village of Waterville 8.8	grass

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 =====>	2/20/20	6/16/20			Permit Pre 2017 Regs. Monthly Conc. (mg/kg)	Permit Post 2017 Regs. Max. Conc. (mg/kg)
Arsenic (mg/kg)	nd	nd			41	41
Cadmium (mg/kg)	nd	nd			21	10
Chromium (mg/kg)	35	26			1,000	1,000
Copper (mg/kg)	490	470			1,500	1,500
Lead (mg/kg)	59	39			300	300
Mercury (mg/kg)	1.1	nd			10	10
Molybdenum (mg/kg)	nd	nd			40	40
Nickel (mg/kg)	21	18			200	200
Selenium (mg/kg)	nd	nd			100	100
Zinc (mg/kg)	520	480			2,500	2,500
TKN (mg/kg)	60000	13000				
Ammonia Nitrogen (mg/kg)	2500	920				
Nitrate (mg/kg)	46	<38				
Total Phosphorus (mg/kg)	11000	2400				
Total Potassium (mg/kg)	4100	2400				
pH (s.u.)	6.9	7.2				
Total Solids(%)	11	13				
Total Volatile Solids (%)	78	80				

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.

SECTION 6 ATTACHMENT #1

THE TEMPERATURE PROBE IS INSERTED INTO THE PILE, AT THE INLET END OF THE PILE, APPROX. 2 FT. ABOVE THE AERATION PIPE. THIS IS THE COLDEST PART OF THE PILE. RECORDINGS ARE MADE DAILY.

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 ===>	6/16/20	6/16/20	11/9/20	11/9/20	Permit Pre 2017 Regs. Monthly Conc. (mg/kg)	Permit Post 2017 Regs. Max. Conc. (mg/kg)
Arsenic (mg/kg)	2.7		2.2		41	41
Cadmium (mg/kg)	nd		nd		10	10
Chromium (mg/kg)	18		15		1,000	1,000
Copper (mg/kg)	250		260		1,500	1,500
Lead (mg/kg)	32		24		300	300
Mercury (mg/kg)	.44		.37		10	10
Molybdenum (mg/kg)	2.7		3.9		40	40
Nickel (mg/kg)	12		11		200	200
Selenium (mg/kg)	3.0		3.4		100	100
Zinc (mg/kg)	290		270		2,500	2,500
TKN (mg/kg)	24000		23000			
Ammonia Nitrogen (mg/kg)	990		2200			
Nitrate (mg/kg)	620		1000			
Total Phosphorus (mg/kg)	6600		3700			
Total Potassium (mg/kg)	5000		5600			
pH (s.u.)	5.9		6.1			
Total Solids (%)	72	69	85	88		
Total Volatile Solids (%)	80		86			
Fecal Coliform (MPN/g)					<1,000 MPN/g	
Salmonella sp. (MPN/4g)		<3		<3	<3MPN/4g	
Other _____						

SECTION 8 – SAMPLE MANAGEMENT

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

*****Attachments #2 Sampling digram of input biosolids collected directly off the press just before being mixed with woodchips. Sample consists of 6-8 grab sample.
***** Attachments #3 Finish compost sampling location. Samples consists of 6-8 grab samples mixed into one samples.

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

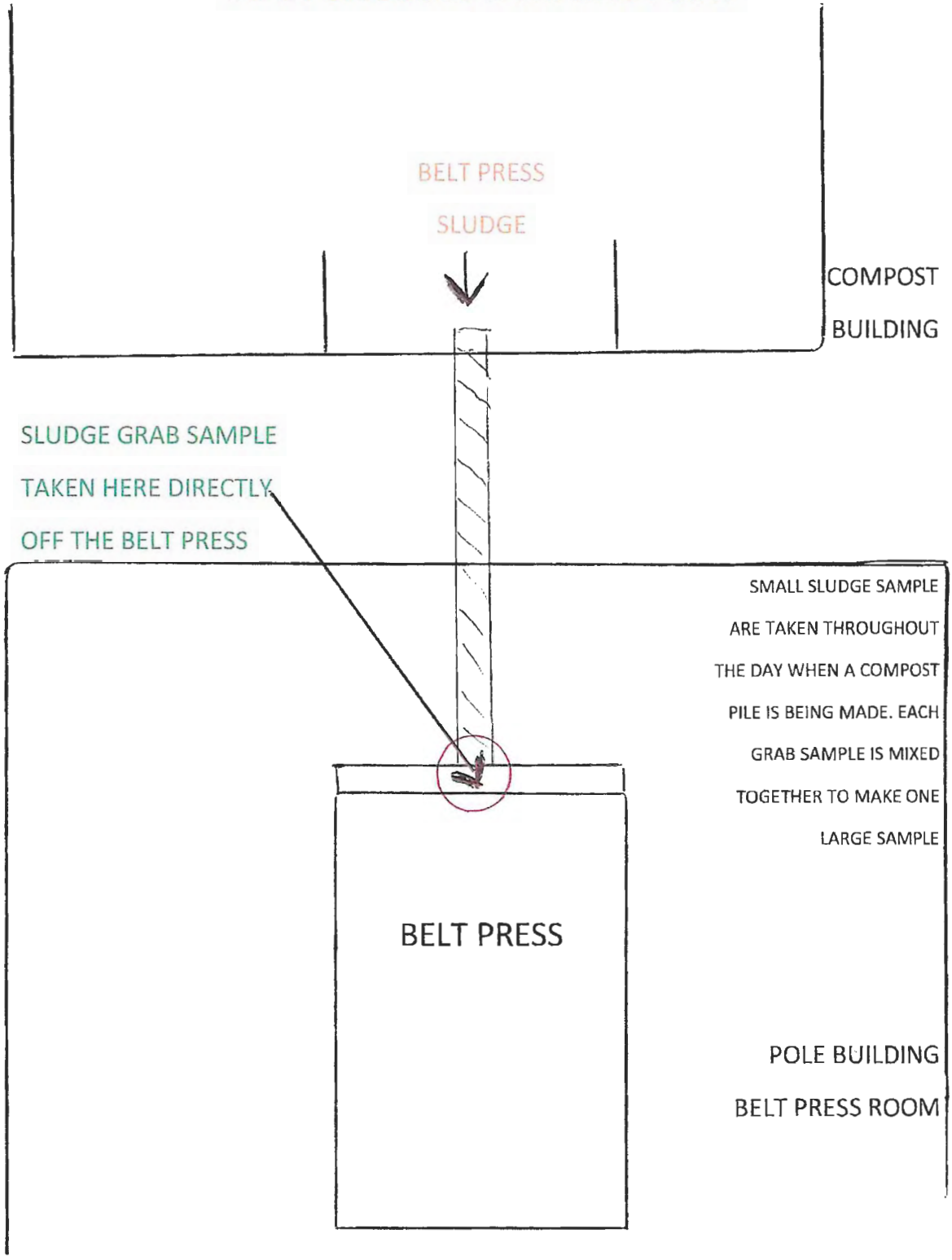
Has unauthorized solid waste been received at the Processing Facility during the reporting period?

◯ Yes ◉ No

If yes, please explain.

SECTION 8 ATTACHMENT #2

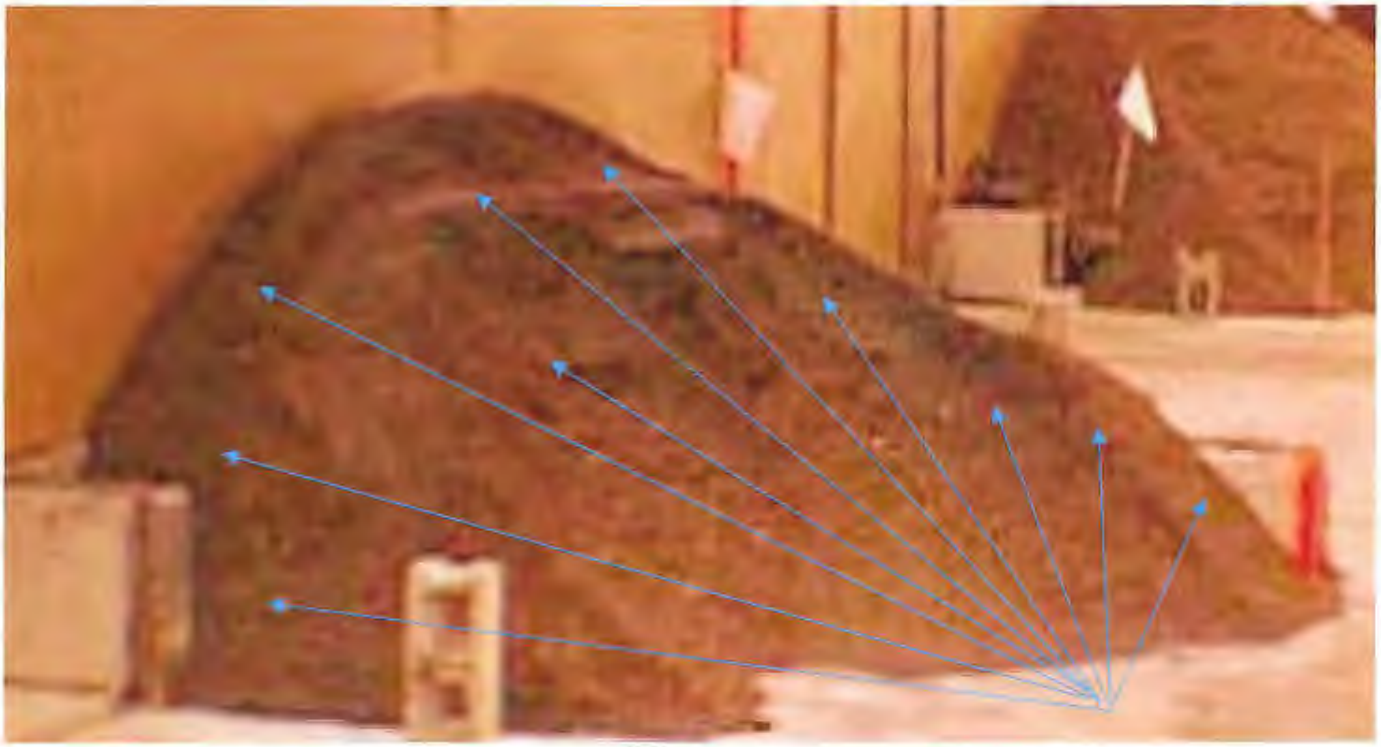
INPUT BIOSOLIDS SAMPLING POINT



SECTION 8 ATTACHMENT #3

FINISH COMPOST SAMPLING

Sampling is done on each individual compost pile after the pile has been screened. When sampling, ten (10) small grab samples are taken from the compost pile and are completely mixed together into one (1) large grab sample which is then put into one (1) glass sample bottle provided by our laboratory. This bottle is then put into our sample refrigerator. When around five (5) piles have been sampled we send all five to the laboratory where they will composite the five bottles into one and then run the part 360 analysis. Typically we sample salmonella in the same way, by taking ten (10) small samples and mixing them together into one sample and send that separate sample to the lab on the same day as sampled.



SAMPLE LOCATIONS

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.

No problem with our compost operation. No odor problem, no equipment problem or failure, no problems getting free wood chips or getting rid of our finished compost. We compost year round with the cold winter months slowing the operation down a little but we work through it so we will have plenty of compost for the spring rush. We do have a little stockpile of finish compost. We don't feel that will be a problem in the future.

Section 12 – QUESTIONS

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

None

SECTION 13 - CERTIFICATION

The Owner or Operator must sign, date and submit one completed form with an original signature to the appropriate Regional Office (See attachment for Regional Office addresses and Contacts.)

The Owner or Operator must also submit one copy by email, fax or mail to:

New York State Department of Environmental Conservation
Bureau of Waste Reduction and Recycling – Annual Report
625 Broadway – 9th Floor
Albany, New York 12233-7253

Phone: 518-402-8706
Fax 518-402-9024
Email address: organicrecycling@dec.ny.gov

Permit prior to November 2017:
I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits was prepared by me or under my supervision and direction and is true to the best of my knowledge and belief, and that I have the authority to sign this report form pursuant to 6 NYCRR Part 360. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Permit Post November 2017:
I certify, under penalty of law, that the information that will be used to determine compliance with the requirements in Subpart 361-3 of 6 NYCRR Part 361 has been prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that false statement made herein are punishable pursuant to section 210.45 of the penal law.

Michael Kelly	2/1/2021
Signature	Date
Michael Kelly	Plant Operator
Name (Print)	Title (Print)
watstp2@villageofwaterville.org	
Email (Print)	
122 Barton Ave.	Waterville
Address	City
13480	(315) 841-4445
State and Zip	Phone Number

ATTACHMENTS: ○NO ◉YES (IF YES, LIST ATTACHMENTS)

- #1 location where temperature is taken
- #2 sampling location of input materical
- #3 sampling location of finished compost

New York State Department of Environmental Conservation
Division of Materials Management
Bureau of Waste Reduction and Recycling

MATERIAL MANAGEMENT PROGRAM CONTACTS

CENTRAL OFFICE
Bureau of Waste Reduction and Recycling
625 Broadway
Albany, NY 12233-7253
Phone: (518) 402-8706

For Submission of Organics Recycling Annual Reports only:
Fax: (518) 402-9024
Email: organicrecycling@dec.ny.gov

REGIONAL OFFICE ADDRESS & LEAD CONTACT PERSON

REGION 1 (Nassau, Suffolk)

Syed Rahman/David Gibb
SUNY @ Stony Brook
50 Circle Road
Stony Brook, NY 11790
Phone: (631) 444-0375
SWMFannualreportR1@dec.ny.gov

REGION 2 (Bronx, Kings, New York, Queens, Richmond)

Joseph O'Connell
47-40 21st Street
Long Island City, NY 11101-5407
Phone: (718) 482-4896
SWMFannualreportR2@dec.ny.gov

REGION 3 (Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster, Westchester)

James Lansing
21 South Putt Corners Road
New Paltz, NY 12561
Phone: (845) 256-3123
SWMFannualreportR3@dec.ny.gov

REGION 4 (Albany, Columbia, Delaware, Greene, Montgomery, Otsego, Rensselaer, Schenectady, Schoharie)

Victoria Schmitt
1130 North Westcott Road
Schenectady, NY 12306
Phone: (518) 357-2243
SWMFannualreportR4@dec.ny.gov

REGION 5 (Clinton, Essex, Franklin, Fulton, Hamilton, Saratoga, Warren, Washington)

Jessie Sangster
1115 State Route 86, PO Box 296
Ray Brook, NY 12977
Phone: (518) 897-1266
SWMFannualreportR5@dec.ny.gov

REGION 6 (Herkimer, Jefferson, Lewis, Oneida, St. Lawrence)

Gary McCullouch
317 Washington Street
Watertown, NY 13601
Phone: (315) 785-2513
SWMFannualreportR6@dec.ny.gov

REGION 7 (Broome, Cayuga, Chenango, Cortland, Madison, Onondaga, Oswego, Tioga, Tompkins)

Thomas Annal
615 Erie Boulevard West
Syracuse, NY 13204
Phone: (315) 426-7419
SWMFannualreportR7@dec.ny.gov

REGION 8 (Chemung, Genesee, Livingston, Monroe, Ontario, Orleans, Schuyler, Seneca, Steuben, Wayne, Yates)

Greg MacLean
6274 East Avon-Lima Road
Avon, NY 14414
Phone: (585) 226-5411
SWMFannualreportR8@dec.ny.gov

REGION 9 (Allegany, Cattaraugus, Chautauqua, Erie, Niagara, Wyoming)

Peter Grasso
270 Michigan Avenue
Buffalo, NY 14203
Phone: (716) 851-7220
SWMFannualreportR9@dec.ny.gov

September 2020

-- LABORATORY ANALYSIS REPORT --

Waterville, Village of Waterville, NY

Sample ID: Compost # 201 **LSL Sample ID:** 2008702-001

Location:

Sampled: 03/31/20 13:00 **Sampled By:** mk

Sample Matrix: SHW Dry Wt, Compost

Analytical Method / Analyte	Result	Units	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
(1) To be composited for inorganic analysis						
Sample Composited in Lab				6/22/20		
Sample Composited in Lab				6/22/20		
Sample Composited in Lab				6/22/20		
(1) To Be composited for inorganic analysis.						
Sample Composited in Lab						MT
(1) To be composited for Mercury analysis						
Sample Composited in Lab						MT
(1) To be composited for Metals analysis						
Sample Composited in Lab						MT

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

-- LABORATORY ANALYSIS REPORT --

Waterville, Village of *Waterville, NY*

Sample ID: **Compost # 202** **LSL Sample ID:** **2008702-002**

Location:

Sampled: 04/16/20 14:00 **Sampled By:** mk

Sample Matrix: SHW Dry Wt, Compost

Analytical Method / Analyte	Result	Units	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
(1) To be composited for inorganic analysis						
Sample Composited in Lab				6/22/20		
Sample Composited in Lab				6/22/20		
Sample Composited in Lab				6/22/20		
(1) To Be composited for inorganic analysis.						
Sample Composited in Lab						MT
(1) To be composited for Mercury analysis						
Sample Composited in Lab						MT
(1) To be composited for Metals analysis						
Sample Composited in Lab						MT

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

-- LABORATORY ANALYSIS REPORT --

Waterville, Village of *Waterville, NY*

Sample ID: Compost # 203 **LSL Sample ID:** 2008702-003

Location:

Sampled: 04/27/20 14:30 **Sampled By:** mk

Sample Matrix: SHW Dry Wt, Compost

Analytical Method / Analyte	Result	Units	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
(1) To be composited for inorganic analysis						
Sample Composited in Lab				6/22/20		
Sample Composited in Lab				6/22/20		
Sample Composited in Lab				6/22/20		
(1) To Be composited for inorganic analysis.						
Sample Composited in Lab						MT
(1) To be composited for Mercury analysis						
Sample Composited in Lab						MT
(1) To be composited for Metals analysis						
Sample Composited in Lab						MT

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

-- LABORATORY ANALYSIS REPORT --

Waterville, Village of *Waterville, NY*

Sample ID: Compost # 204 **LSL Sample ID:** 2008702-004

Location:

Sampled: 06/04/20 14:00 **Sampled By:** mk

Sample Matrix: SHW Dry Wt, Compost

Analytical Method / Analyte	Result	Units	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
(1) To be composited for inorganic analysis						
Sample Composited in Lab				6/22/20		
Sample Composited in Lab				6/22/20		
Sample Composited in Lab				6/22/20		
(1) To Be composited for inorganic analysis.						
Sample Composited in Lab						MT
(1) To be composited for Mercury analysis						
Sample Composited in Lab						MT
(1) To be composited for Metals analysis						
Sample Composited in Lab						MT

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

-- LABORATORY ANALYSIS REPORT --

Waterville, Village of *Waterville, NY*

Sample ID: Composite of Composts #201 to #204 **LSL Sample ID:** 2008702-005

Location:

Sampled: 06/22/20 9:00 **Sampled By:** mk

Sample Matrix: SHW Dry Wt, Compost

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	80	%		6/22/20	ARJ
This analysis is not certifiable by NYS DOH ELAP.					
(1) EPA 6010C Part 360 Total Metals		EPA 3050B			
Please refer to the next page					MT
(1) EPA 9045D Water Extractable pH					
pH	5.9	Std Units		6/30/20	HKB
pH Measurement Temperature	25	Degrees C		6/30/20	HKB
This analysis is not certifiable by NYS DOH ELAP.					
(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	990	mg/kg dry	6/30/20	6/30/20	JJC
This analysis is not certifiable by NYS DOH ELAP.					
(1) Modified EPA 351.2, Rev. 2.0 (1993)TKN as N					
Total Kjeldahl Nitrogen	24000	mg/kg dry	6/24/20	6/24/20	JJC
This analysis is not certifiable by NYS DOH ELAP.					
(1) Modified EPA 365.3, Rev. 2.0 (1993) Total Phosphorus					
Phosphorus, Total as P	6600	mg/kg dry	6/30/20	7/1/20	ARJ
The NYS DOH ELAP does not certify for this analyte in this matrix.					
(1) Modified SM 18-20 2540B Total Solids					
Total Solids @ 103-105 C	72	%		6/22/20	ARJ
This analysis is not certifiable by NYS DOH ELAP.					
(1) Nitrate-N by EPA Method 9056A		EPA 300.0A			
Nitrate as N	620	mg/kg dry	6/30/20	7/1/20 16:30	MT
(1) Nitrite-N by EPA Method 9056A		EPA 300.0A			
Nitrite as N	<6.9	mg/kg dry	6/30/20	7/1/20 16:30	MT
(1) Water Extraction of Solids, EPA 300.0, Rev. 2.1 (1993)		EPA 300.0A			
Water Extraction			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: Waterville, Village of
W Order: 2008702
Matrix: COMPOST

Lab ID: 2008702-005A
Client Sample ID: *Compost 201-204 Composite Composite*
Collection Date: 06/22/20 9:00
Date Received: 06/16/20 10:27

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
MERCURY			**SW7471B**		**(SW7471B)**	
Mercury	0.44		0.14	mg/Kg-dry	1	06/25/20 12:56
TOTAL METALS BY ICP			**SW6010C**		**(SW3050B)**	
Arsenic	2.7		1.4	mg/Kg-dry	1	06/29/20 13:11
Cadmium	ND		1.4	mg/Kg-dry	1	06/29/20 13:11
Chromium	18		1.4	mg/Kg-dry	1	06/29/20 13:11
Copper	250		1.4	mg/Kg-dry	1	06/29/20 13:11
Lead	32		1.4	mg/Kg-dry	1	06/29/20 13:11
Molybdenum	2.7		1.4	mg/Kg-dry	1	06/29/20 13:11
Nickel	12		1.4	mg/Kg-dry	1	06/29/20 13:11
Potassium	5000		140	mg/Kg-dry	1	06/30/20 14:39
Selenium	3.0		1.4	mg/Kg-dry	1	06/29/20 13:11
Zinc	290		2.8	mg/Kg-dry	1	06/29/20 13:11
PERCENT MOISTURE			**SM 2540 G**			
Percent Moisture	28.0		1.0	wt%	1	06/22/20

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

- - LABORATORY ANALYSIS REPORT - -

Waterville, Village of Waterville, NY

Sample ID: **LSL Sample ID:** 2008702-006

Location:

Sampled: 06/16/20 9:20 **Sampled By:**

Sample Matrix:

Analytical Method / Analyte	Result	Prep Method / Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 1682(2014) Salmonella by MSRV					
Salmonella	<3	MPN/4g Dry		6/16/20 13:35	DA/DA
The NYS DOH ELAP does not offer certification for this method.					
(1) SM 2540 B-2011 Total Solids					
Total Solids @ 103-105 C	69	%		6/22/20	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*

-- LABORATORY ANALYSIS REPORT --

Waterville, Village of Waterville, NY

Sample ID: **LSL Sample ID:** **2008702-007**

Location:

Sampled: 06/16/20 8:00 **Sampled By:**

Sample Matrix:

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	80	%		6/22/20	ARJ
The NYS DOH ELAP does not offer certification for this method in this matrix.					
(1) EPA 6010C Part 360 Total Metals			EPA 3050B		
Please refer to the next page					MT
(1) EPA 9045D Water Extractable pH					
pH	7.2	Std Units		6/30/20	HKB
pH Measurement Temperature	25	Degrees C		6/30/20	HKB
This analysis is not certifiable by NYS DOH ELAP.					
(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	920	mg/kg dry	6/30/20	6/30/20	JJC
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	13000	mg/kg dry	6/24/20	6/24/20	JJC
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	2400	mg/kg dry	6/30/20	7/1/20	ARJ
The NYS DOH ELAP does not offer certification for this method in this matrix.					
(1) Modified SM 18-20 2540B Total Solids					
Total Solids @ 103-105 C	13	%		6/22/20	ARJ
The NYS DOH ELAP does not offer certification for this method in this matrix.					
(1) Nitrate-N by EPA 9056A			EPA 300.0A		
Nitrate as N	<38	mg/kg dry	6/30/20	7/1/20 16:57	MT
(1) Nitrite-N by EPA 9056A			EPA 300.0A		
Nitrite as N	<38	mg/kg dry	6/30/20	7/1/20 16:57	MT
(1) Water Extraction of Solids, EPA 300.0, Rev. 2.1 (1993)			EPA 300.0A		
Water Extraction			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: Waterville, Village of
W Order: 2008702
Matrix: SLUDGE

Lab ID: 2008702-007A
Client Sample ID: *Belt Press Sludge*
Collection Date: 06/16/20 8:00
Date Received: 06/16/20 10:27

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
MERCURY			**SW7471B**		**(SW7471B)**	
Mercury	ND		0.76	mg/Kg-dry	1	06/25/20 13:02
TOTAL METALS BY ICP			**SW6010C**		**(SW3050B)**	
Arsenic	ND		7.6	mg/Kg-dry	1	06/29/20 13:16
Cadmium	ND		7.6	mg/Kg-dry	1	06/29/20 13:16
Chromium	26		7.6	mg/Kg-dry	1	06/29/20 13:16
Copper	470		7.6	mg/Kg-dry	1	06/29/20 13:16
Lead	39		7.6	mg/Kg-dry	1	06/29/20 13:16
Molybdenum	ND		7.6	mg/Kg-dry	1	06/29/20 13:16
Nickel	18		7.6	mg/Kg-dry	1	06/29/20 13:16
Potassium	2400		760	mg/Kg-dry	1	06/30/20 14:43
Selenium	ND		7.6	mg/Kg-dry	1	06/29/20 13:16
Zinc	480		15	mg/Kg-dry	1	06/29/20 13:16
PERCENT MOISTURE			**SM 2540 G**			
Percent Moisture	86.8		1.0	wt%	1	06/22/20

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

-- LABORATORY ANALYSIS REPORT --

Waterville, Village of *Waterville, NY*

Sample ID: Compost #205 Grab **LSL Sample ID:** 2018448-001
Location:
Sampled: 06/30/20 10:00 **Sampled By:** MK
Sample Matrix: SHW Dry Wt, Compost

Analytical Method / Analyte	Result	Units	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
(1) To be composited for inorganic analysis						
Sample Composited in Lab					11/24/20	ARJ
Sample Composited in Lab					11/24/20	ARJ
Sample Composited in Lab					11/24/20	ARJ
(1) To be composited for Mercury analysis						
Sample Composited in Lab					11/24/20	ARJ
(1) To be composited for Metals analysis						
Sample Composited in Lab					11/24/20	ARJ

Sample ID: Compost #206 Grab **LSL Sample ID:** 2018448-002
Location:
Sampled: 08/06/20 11:30 **Sampled By:** MK
Sample Matrix: SHW Dry Wt, Compost

Analytical Method / Analyte	Result	Units	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
(1) To be composited for inorganic analysis						
Sample Composited in Lab					11/24/20	ARJ
Sample Composited in Lab					11/24/20	ARJ
Sample Composited in Lab					11/24/20	ARJ
(1) To be composited for Mercury analysis						
Sample Composited in Lab					11/24/20	ARJ
(1) To be composited for Metals analysis						
Sample Composited in Lab					11/24/20	ARJ

Sample ID: Compost #207 Grab **LSL Sample ID:** 2018448-003
Location:
Sampled: 09/01/20 9:00 **Sampled By:** MK
Sample Matrix: SHW Dry Wt, Compost

Analytical Method / Analyte	Result	Units	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
(1) To be composited for inorganic analysis						
Sample Composited in Lab					11/24/20	ARJ
Sample Composited in Lab					11/24/20	ARJ
Sample Composited in Lab					11/24/20	ARJ
(1) To be composited for Mercury analysis						
Sample Composited in Lab					11/24/20	ARJ
(1) To be composited for Metals analysis						
Sample Composited in Lab					11/24/20	ARJ

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

-- LABORATORY ANALYSIS REPORT --

Waterville, Village of *Waterville, NY*

Sample ID: Compost #208 Grab **LSL Sample ID:** 2018448-004

Location:

Sampled: 09/03/20 14:00 **Sampled By:** MK

Sample Matrix: SHW Dry Wt, Compost

Analytical Method / Analyte	Result	Units	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
(1) To be composited for inorganic analysis						
Sample Composited in Lab					11/24/20	ARJ
Sample Composited in Lab					11/24/20	ARJ
Sample Composited in Lab					11/24/20	ARJ
(1) To be composited for Mercury analysis						
Sample Composited in Lab					11/24/20	ARJ
(1) To be composited for Metals analysis						
Sample Composited in Lab					11/24/20	ARJ

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

-- LABORATORY ANALYSIS REPORT --

Waterville, Village of Waterville, NY

Sample ID: Compost Composite of Composts # 205 to #208 **LSL Sample ID:** 2018448-005

Location:

Sampled: 11/24/20 14:00 **Sampled By:** MK

Sample Matrix: SHW Dry Wt, Compost

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	86	%			11/24/20	ARJ
This analysis is not certifiable by NYS DOH ELAP.						
(1) EPA 6010C Part 360 Total Metals			EPA 3050B			
Please refer to the next page						MT
(1) EPA 9045D Water Extractable pH						
pH	6.1	Std. Units			11/25/20	ARJ
pH Measurement Temperature	25	Degrees C			11/25/20	ARJ
This analysis is not certifiable by NYS DOH ELAP.						
(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	2200	mg/kg dry		12/6/20	12/7/20	JJC
This analysis is not certifiable by NYS DOH ELAP.						
(1) Modified EPA 351.2, Rev. 2.0 (1993)TKN as N						
Total Kjeldahl Nitrogen	23000	mg/kg dry		12/4/20	12/4/20	JJC
This result should be considered an estimate because the concentration exceeded the linear range of the instrument.						
This analysis is not certifiable by NYS DOH ELAP.						
(1) Modified EPA 365.3, Rev. 2.0 (1993) Total Phosphorus						
Phosphorus, Total as P	3700	mg/kg dry		12/3/20	12/7/20	ARJ
The NYS DOH ELAP does not certify for this analyte in this matrix.						
(1) Modified SM 18-20 2540B Total Solids						
Total Solids @ 103-105 C	85	%			11/24/20	ARJ
This analysis is not certifiable by NYS DOH ELAP.						
(1) Nitrate-N by EPA Method 9056A			EPA 300.0A			
Nitrate as N	1000	mg/kg dry		12/1/20	12/1/20 20:19	MT
(1) Nitrite-N by EPA Method 9056A			EPA 300.0A			
Nitrite as N	<24	mg/kg dry		12/1/20	12/1/20 20:19	MT
(1) Water Extraction of Solids, EPA 300.0, Rev. 2.1 (1993)			EPA 300.0A			
Water Extraction					12/1/20	MT

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: Waterville, Village of
Location: Compost
W Order: 2018448
Matrix: COMPOST

Lab ID: 2018448-001A
Client Sample ID: *Compost Composite*
Collection Date: 11/24/20 14:00
Date Received: 11/09/20 10:55

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
MERCURY			**SW7471B**		**(SW7471B)**	
Mercury	0.37		0.12	mg/Kg-dry	1	11/30/20 16:24
TOTAL METALS BY ICP			**SW6010C**		**(SW3050B)**	
Arsenic	2.2		1.2	mg/Kg-dry	1	12/03/20 19:06
Cadmium	ND		1.2	mg/Kg-dry	1	12/03/20 19:06
Chromium	15		1.2	mg/Kg-dry	1	12/03/20 19:06
Copper	260		1.2	mg/Kg-dry	1	12/03/20 19:06
Lead	24		1.2	mg/Kg-dry	1	12/03/20 19:06
Molybdenum	3.9		1.2	mg/Kg-dry	1	12/03/20 19:06
Nickel	11		1.2	mg/Kg-dry	1	12/03/20 19:06
Potassium	5600		120	mg/Kg-dry	1	12/04/20 14:38
Selenium	3.4		1.2	mg/Kg-dry	1	12/03/20 19:06
Zinc	270		2.4	mg/Kg-dry	1	12/03/20 19:06
PERCENT MOISTURE			**SM 2540 G**			
Percent Moisture	15.3		1.0	wt%	1	11/24/20

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

-- LABORATORY ANALYSIS REPORT --

Waterville, Village of *Waterville, NY*

Sample ID: Compost Sample Grab **LSL Sample ID:** 2018448-006

Location:

Sampled: 11/09/20 9:50 **Sampled By:** MK

Sample Matrix: SHW Dry Wt, Compost

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			11/9/20 16:15	DA/DA
The NYS DOH ELAP does not offer certification for this method.						
(1) SM 2540 B-2011 Total Solids						
Total Solids @ 103-105 C	88	%			11/10/20	TER
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*

- - LABORATORY ANALYSIS REPORT - -

Waterville, Village of Waterville, NY

Sample ID: Belt Press Sludge Comp. **LSL Sample ID:** 2002654-001

Location:

Sampled: 02/20/20 10:00 **Sampled By:** MK

Sample Matrix: SHW Dry Wt, Sludge

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	78	%		2/27/20	ARJ
The NYS DOH ELAP does not offer certification for this method in this matrix.					
(1) EPA 6010C Metals			EPA 3050B		
Please refer to the next page					MT
(1) EPA 7471B Mercury			EPA 7471B		
Please refer to the next page					MT
(1) EPA 9045D Water Extractable pH					
pH	6.9	Std Units		2/27/20	HKB
pH Measurement Temperature	25	Degrees C		2/27/20	HKB
This analysis is not certifiable by NYS DOH ELAP.					
(1) Modified EPA 350.1, Rev. 2.0 (1993) Ammonia					
Ammonia as N	2500	mg/kg dry	3/14/20	3/16/20	JJC
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	60000	mg/kg dry	2/28/20	2/28/20	JJC
The NYS DOH ELAP does not offer certification for this method in this matrix.					
(1) Modified EPA 365.1, Rev. 2.0 (1993) Total Phosphorus					
Phosphorus, Total as P	11000	mg/kg dry	2/27/20	2/28/20	HKB
The NYS DOH ELAP does not offer certification for this method in this matrix.This analysis was performed by Method EPA 365.3					
(1) Modified SM 18-20 2540B Total Solids					
Total Solids @ 103-105 C	11	%		2/27/20	ARJ
The NYS DOH ELAP does not offer certification for this method in this matrix.					
(1) Nitrate-N by EPA 9056A			EPA 300.0A		
Nitrate as N	46	mg/kg dry		3/7/20 18:08	MT
(1) Nitrite-N by EPA 9056A			EPA 300.0A		
Nitrite as N	<45	mg/kg dry		3/7/20 18:08	MT
(1) Water Extraction of Solids, EPA 300.0, Rev. 2.1 (1993)			EPA 300.0A		
Water Extraction				3/4/20	CRT

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: -Waterville, Village of
W Order: 2002654
Matrix: SLUDGE

Lab ID: 2002654-001A
Client Sample ID: *Belt Press Sludge Comp.*
Collection Date: 02/20/20 10:00
Date Received: 02/20/20 13:26

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
MERCURY			**SW7471B**		**(SW7471B)**	
Mercury	1.1		0.93	mg/Kg-dry	1	02/28/20 15:53
TOTAL METALS BY ICP			**SW6010C**		**(SW3050B)**	
Arsenic	ND		9.3	mg/Kg-dry	1	03/02/20 14:22
Cadmium	ND		9.3	mg/Kg-dry	1	03/02/20 14:22
Chromium	35		9.3	mg/Kg-dry	1	03/02/20 14:22
Copper	490		9.3	mg/Kg-dry	1	03/02/20 14:22
Lead	59		9.3	mg/Kg-dry	1	03/02/20 14:22
Molybdenum	ND		9.3	mg/Kg-dry	1	03/02/20 14:22
Nickel	21		9.3	mg/Kg-dry	1	03/02/20 14:22
Potassium	4100		930	mg/Kg-dry	1	03/03/20 16:17
Selenium	ND		9.3	mg/Kg-dry	1	03/02/20 14:22
Zinc	520		19	mg/Kg-dry	1	03/02/20 14:22
PERCENT MOISTURE			**SM 2540 G**			
Percent Moisture	89.2		1.0	wt%	1	02/27/20

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

NEATHER

~~St~~ warm

COMPOST PILE # 201

Mix Ratio 2:1
types of chip used New
type of chips covered use
MIXES 444
gallons sludge 35000

DAY	DATE	TEMP.	TIME	BLOWER #	hrs.
1.	11-21-19		8:45		
2.	11-22-19	17.1	10:00		0.0
3.	11-23-19				
4.	11-24-19				
5.	11-25-19				
6.	11-26-19		10:30		.5
7.	11-27-19	56.1	8:15		1.68
8.	11-28-19	56.3	8:45		3.10
9.	11-29-19				.67
10.	11-30-19	55.1	8:45		4.76
11.	12-1-19	53.5	8:45		4.76
12.	12-2	64.0	2:55		5.19
13.	12-3-19				6.82
14.	12-4-19	54.1			.52
15.	12-5-19	52.1			.48
16.	12-6-19		3:00		10:48
17.	12-7-19	50.3			
18.	12-8-19				
19.	12-9-19				
20.	12-10-19				
21.	12-11-19	41.5			

22. REMOVE TO CURING AREA 12-12-19

23.	12-13-19	29.	19	35.	25	41. 12-31-19	47. 6
24.	14	30.	20	36.	26	42. 1-1-20	48. 7
25.	15	31.	21	37.	27	43. 2	49. 8
26.	16	32.	22	38.	28	44. 3	50. 9
27.	17	33.	23	39.	29	45. 4	51. 10
28.	18	34.	24	40.	30	46. 5	52. 1-11-20

WEATHER

snow / cold

COMPOST PILE # 202

Mix Ratio 2:1

types of chip used new

type of chips covered used

MIXES 40 gallons 34 250

DAY	DATE	TEMP.	TIME	BLOWER #	hrs.
1.	1-9-20	17:1	10:00		0.0
2.	1-10-20	30.5			0.0
3.	1-11-20	4 7			
4.	1-12-20		7		
5.	1-13-20	5			1.1
6.	1-14-20	5 1	130		1.2
7.	1-15-20	2			1.5
8.	1-16-20	55.2	10		1.5
9.	1-17-20				
10.	1-18-20	40	845		1.6
11.	1-19-20	45			
12.	1-20-20	45.9	835		1.65
13.	1-21-20	52.5	830		1.5
14.	1-22-20	55.1			1.6.6
15.	1-23-20	55.0			2
16.	1-24-20	55.1			13.30
17.	1-25-20	56.2	845	13,30	
18.	1-26-20	54.8	845	13.30	
19.	1-27-20	41 7		13.30	
20.	1-27-20	55.2	830	13.30	
21.	1-29-20	56.1	930	4.5	

22. REMOVE TO CURING AREA 1-30-20

23.	1-31-20	29.	6	35.	12	41.	18	47.	24
24.	2-1-20	30.	7	36.	13	42.	19	48.	25
25.	2	31.	8	37.	14	43.	20	49.	26
26.	3	32.	9	38.	15	44.	21	50.	2-27 20
27.	4	33.	10	39.	16	45.	22	51.	2-28 20
28.	5	34.	11	40.	17	46.	23	52.	2-29-20

WEATHER

P. Sunny / snow
Low 30°

COMPOST PILE # 203

Mix Ratio 2:1
types of chip used New
type of chips covered mixed
MIXES 38
gallons 36000

DAY	DATE	TEMP.	TIME	BLOWER # 1 hrs. 0.0
1.	1-20-20	10.1	3:00	0.0
2.	1-21-20	8.5	9:00	0.0
3.	1-22-20	10.2	8:30	0.0
4.	1-23-20	45.1	8:45	0.0
5.	2-24-20	55.8	8:30	.73
6.	2-25-20	51.2	4:00	2.32
7.	2-26-20	[illegible]	9:00	4.42
8.	2-27-20	55.5	9:30	6.19
9.	2-28-20	[illegible]	[illegible]	7.34
10.	2-29-20	[illegible]	[illegible]	8.78
11.	3-1-20	[illegible]	[illegible]	10.02
12.	3-2-20	[illegible]	[illegible]	11.59
13.	3-3-20	[illegible]	[illegible]	12.98
14.	3-4-20	[illegible]	[illegible]	14.81
15.	3-5-20	[illegible]	[illegible]	16.16
16.	3-6-20	[illegible]	[illegible]	17.44
17.	3-7-20	55.9	5:40	18.95
18.	3-8-20	55.3	8:40	20.30
19.	3-9-20	51.2	3:30	21.62
20.	3-10-20	55.9	11:00	23.34
21.	3-11-20	59.6	8:00	25.01

22. REMOVE TO CURING AREA 3-12-20

23.	3-13-20	29. 19	35. 25	41.	3-31-20	47. 6
24.	14	30. 20	36. 26	42.	4-1-20	48. 7
25.	15	31. 21	37. 27	43.	2	49. 8
26.	16	32. 22	38. 28	44.	3	50. 9
27.	17	33. 23	39. 29	45.	4	51. 10
28.	18	34. 24	40. 30	46.	5	52. 4-11-20

✓EATHER

cloudy / 50°F

COMPOST PILE # 204

Mix Ratio 2:1

types of chip used NEW

type of chips covered mixed

MIXES ~~47~~ 47

gallons ~~53 500~~ 53 500

DAY	DATE	TEMP.	TIME	BLOWER # 2 hrs.
1.	4-14-20	7.1	3:15	0.0
2.	4-15-20	15.5	11:45	0.0
3.	4-16	21.3	9:00	0.0
4.	4 17	26.9	8:00	0.0
5.	4 18	29.3	8:30	0.0
6.	4 19	34.1	8:30	0.0
7.	4 20	57.5	10:30	0.0
8.	4 21	55.7	8:00	5.56
9.	4 22	56.1	8:00	7.14
10.	4 23	56.2	8:00	7.74
11.	4 24	55.8		
12.	4 25	50.0	8:30	9.17
13.	4 26		8:15	9.94
14.	4 27	54.1	9:00	
15.	4 28	55.7	8:00	11.07
16.	4 29	56.2	8:00	11.78
17.	4-30-20	56.3	8:00	12.39
18.	5-1-20	56.6	8:40	13.13
19.	5-2-20	55.4	8:20	13.92
20.	5-3-20	56.2	8:05	14.72
21.	5-4-20	56.5	10:10	1.67

22. REMOVE TO CURING AREA 5-5-20

23. 5-6	29. 12	35. 18	41. 24	47. 30
24. 5-7	30. 13	36. 19	42. 25	48. 5-31-20
25. 5-8	31. 14	37. 20	43. 26	49. 6-1-20
26. 5-9	32. 15	38. 21	44. 27	50. 6-2-20
27. 5-10	33. 16	39. 22	45. 28	51. 6-3-20
28. 5-11	34. 17	40. 23	46. 29	52. 6-4-20

WEATHER

cloudy
mid 40°F

COMPOST PILE # 205

Mix Ratio 2:1
types of chip used used
type of chips covered used
MIXES 30
gallons 37500

DAY	DATE	TEMP.	TIME	BLOWER #2 hrs.
1.	5-12-20	17.0	7:00	0.0
2.	13	25.9	7:00	
3.	14	34.1	12:45	0.0
4.	15	44.1		0
5.	16	56.4	7:00	1.12
6.	17	56.0		
7.	18	60.7	8:	2.91
8.	19	55.8	7:53	3.35
9.		55.8	9:00	3.64
10.	21	56.1	7:35	.92
11.	22	56.1	8:45	4.05
12.	23	56.1		.15
13.	24	56.7	9:45	4.1
14.		54.5		4.2
15.		56.7	9:45	4.28
16.		56.1		4.39
17.		56.0	7:00	4.46
18.	29	56.1	8:45	4.50
19.	30	54.9	8:40	4.53
20.	5-31-20	52.7	8:40	4.53
21.	6-1-20	50.1	7:00	4.53

22. REMOVE TO CURING AREA 6-2-20

23. 6-3-20	29. 9	35. 15	41.	47.
24. 4	30. 10	36. 16	42. 22	48. 0
25. 5	31. 11	37. 17	43. 23	49. 0
26. 6	32. 12	38. 18	44. 24	50. 6-30-20
27. 7	33. 13	39. 19	45.	51. 7-1-20
28. 8	34. 14	40. 20	46.	52. 7-2-20

NEATHER

Mix Ratio 2:1
types of chip used used
type of chips covered used
MIXES 34
gallons 39000

COMPOST PILE # 206

DAY	DATE	TEMP.	TIME	BLOWER # 2 hrs. 0.0
1.	6-16-26			0.0
2.		25.1	9:00	0.0
3.		35.6	10 4.5	0.0
4.		4 2.4	8:15	0.0
5.		0.3	8:0	
6.		55.1	8.00	0.0
7.		56.6	10:35	.60
8.		56.8	7:	2.55
9.		56.7	7:00	11.13
10.		57.7	7:0	.9
11.	7	55 7	7:1	19.99
12.			1:45	23.04
13.		56.1		5.1
14.		55.1	11 40	28.46
15.				30.2
16.		5	7:	1.73
17.		56.1	830	33.75
18.		55.1	830	35.68
19.		56.7	845	37.20
20.		56.1	850	38.88
21.		50.4	820	41.95

22. REMOVE TO CURING AREA 7

23. 7-8	29.	35.	41.	47.
24.	30.	36.	42.	48.
25:	31.	37.	43.	49.
26.	32.	38.	44.	50.
27.	33.	39.	45.	51.
28.	34.	40.	46. 31	52. 6.40

WEATHER
Sunny
Hot

COMPOST PILE # 207

Mix Ratio 2:1
types of chip used used
type of chips covered used
MIXES 43
gallons 365000

DAY	DATE	TEMP.	TIME	BLOWER #	hrs.
1.	7-8-20	40.c	2:00		0.0
2.	7-9	41.0	7:ce		c
3.	7-10	73.6	8:00	16.65	
4.	11	56.7	8:00	37.79	
5.	12	55.9	8:00	51.46	
6.	13	56.0	7.0c	61.34	
7.	14	56.1	8:3c	72.41	
8.	15	55.4	8.3c	84.0	
9.	16	56.7	8:-	4.5c	
10.	17	56.4	8:15	94.67	
11.	18	55.7	c c	1 [illegible].52	
12.	19	56.c	1:c	105.13	
13.	20	55.3	7:15	111.74	
14.	21	55.9	7:-	7.34	
15.	22	56.6	12		
16.	23	56.6	720	131.26	
17.	24	56.6	7:30	134.19	
18.	25	56.2		141	
19.	26	56.1	9:30	149.12	
20.	7-27-20	56.3	6:46	1526.60	
21.	7-28-20	56.1	730	158.27	

22. REMOVE TO CURING AREA

23. 7-30	29.	35.	41.	47.
24.	30.	36.	42.	48.
25.	31.	37.	43.	49.
26.	32.	38.	44.	50.
27.	33.	39.	45.	51.
28.	34.	40.	46.	52.

WEATHER
sunny

COMPOST PILE # 208

Mix Ratio 2:1
types of chip used new
type of chips covered new
MIXES 25
gallons 20000

DAY	DATE	TEMP.	TIME	BLOWER # 2 hrs.
1.	7-16-20	56.1	2:00	1,3.7
2.	7-17-2	55.8	8:17	2.0.8
3.	18	56.5	8:30	2.7.5
4.	19	56.7	8:15	3.4.3
5.	20	56.1	7:15	4.1.4
6.	21	56.0	7:15	4.8.1
7.	22	56.2	7:45	5.37
8.	23	56.	7:20	5
9.	24	55.2	7:30	
10.	25	55.7	8:	
11.	26	54.7	8:30	.61
12.	27	53.6	8:10	
13.	28	54.	8:30	6.61
14.	29	51.3	8:15	6.01
15.	30			6.61
16.	7-31-20	47.4	830	6.61
17.	8-1-20	48.9	830	6.61
18.	2	49.6	830	6.61
19.	3	36.6	7:00	6.61
20.	4	40.1	7:00	6.61
21.	5-5-20	41.1	7:00	6.61

22. REMOVE TO CURING AREA 8-6-20

23. 8-7-	29.	35.	41.	47.
24.	30.	36.	42.	48.
25.	31.	37.	43.	49.
26.	32.	38.	44.	50.
27.	33.	39.	45.	51.
28.	34.	40.	46.	52.