**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: Village of Sodus Composting BioSolids Facility

PERMIT NUMBER: 8-5442-00149-00003

SW FACILITY ACTIVITY NUMBER: (Ex. 02PP0099) 59C.01

COUNTY WHERE FACILITY IS LOCATED: WAYNE

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 Sodus Composting BioSolid Facility

| FACILITY LOCATION ADDRESS: | FACILITY CITY: | STATE: | ZIP CODE: |
|---|---|---|---|
| 6792 Mud Lane | Sodus | NY | 14551 |

| FACILITY TOWN: | FACILITY COUNTY: | FACILITY PHONE NUMBER: |
|---|---|---|
| Sodus | Wayne | |

**NYSDEC REGION #:**

| FACILITY CONTACT: | CONTACT PHONE NUMBER: |
|---|---|
| Phil Badman | (315) 359-8325 |

**CONTACT EMAIL ADDRESS:** Sodus.philb@gmail.com

**OWNER INFORMATION**

| OWNER NAME: | OWNER PHONE NUMBER: | | |
|---|---|---|---|
| Village of Sodus | (315) 483-9821 | | |
| **OWNER ADDRESS:** | **OWNER CITY:** | **STATE:** | **ZIP CODE:** |
| 14-16 Mill St | Sodus | NY | 14551 |
| **OWNER CONTACT:** | **OWNER CONTACT EMAIL ADDRESS:** | | |
| Karen Cline | villageclerk@rochester.twcbc.com | | |

**OPERATOR INFORMATION**

**OPERATOR NAME:** ☐ *Same as owner* Bryon Walker

**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) | Ø | Choose Units | | V/O Sodus WWTP |
| Bulking Agent/Amendment<br>Specify: Wood Chips | 440 | Choose Units | cu/yd | Tree contractor + V/O Sodus Brush that is chipped. |
| Other: _____ | | Choose Units | | |

## SECTION 3 – COMPOST PRODUCTION

| | | |
|---|---|---|
| **WHAT IS THE PROCESS DETENTION TIME?**<br>*Note: Total time material is processed, not Including storage time* | 50 | **days** |
| **COMPOST PRODUCED DURING THE YEAR:** | 220 | Choose Units<br>cu/yds |
| **COMPOST DISTRIBUTED DURING THE YEAR:** | 200 | Choose Units<br>cu/yds |
| **QUANTITY CURRENTLY STOCKPILED:**<br>*Note: Finished product stockpiled* | 60 | Choose Units<br>cu/yds |
| **AGE OF OLDEST PRODUCT ON SITE:** | 7 | **months** |

## SECTION 4 – COMPOST DISTRIBUTION

| Quantity Distributed Cubic Yards | Use of Compost (landscaping, agriculture, highway, onsite, bagged, etc.) |
|---|---|
| 180 | landscaping |
| 20 | on site |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

## 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 =====> | 8/17/2020 | 11/16/2020 | | | Permit Pre 2017 Regs. Monthly Conc. (mg/kg) | Permit Post 2017 Regs. Max. Conc. (mg/kg) |
|---|---|---|---|---|---|---|
| Arsenic (mg/kg) | <2.7 | 4.0 | | | 41 | 41 |
| Cadmium (mg/kg) | 0.94 | 0.94 | | | 21 | 10 |
| Chromium (mg/kg) | 14.9 | 22.6 | | | 1,000 | 1,000 |
| Copper (mg/kg) | 460 | 555 | | | 1,500 | 1,500 |
| Lead (mg/kg) | 23.1 | 37.9 | | | 300 | 300 |
| Mercury (mg/kg) | 0.56 | <0.17 | | | 10 | 10 |
| Molybdenum (mg/kg) | <5.4 | 7.7 | | | 40 | 40 |
| Nickel (mg/kg) | 15.9 | 20.1 | | | 200 | 200 |
| Selenium (mg/kg) | 8.4 | 7.1 | | | 100 | 100 |
| Zinc (mg/kg) | 574 | 935 | | | 2,500 | 2,500 |
| TKN (mg/kg) | 2000 | 611 | | | | |
| Ammonia Nitrogen (mg/kg) | 8260 | 4460 | | | | |
| Nitrate (mg/kg) | <5.2 | <6.3 | | | | |
| Total Phosphorus (mg/kg) | 12200 | 11900 | | | | |
| Total Potassium (mg/kg) | 2000 | 2200 | | | | |
| pH (s.u.) | 7.3 | 5.4 | | | | |
| Total Solids( %) | 17.7 | 15.7 | | | | |
| Total Volatile Solids (%) | 81.2 | 81.2 | | | | |

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

# ANALYTICAL RESULTS

Project: PART 360 8/17
Pace Project No.: 70142559

**Sample: BELT PRESS SLUDGE #1** **Lab ID: 70142559001** Collected: 08/17/20 09:45 Received: 08/19/20 12:35 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP** | Analytical Method: EPA 6010C Preparation Method: EPA 3050B<br>Pace Analytical Services - Melville | | | | | | | |
| Aluminum | 1910 | mg/kg | 54.4 | 1 | 08/21/20 10:49 | 08/28/20 18:22 | 7429-90-5 | |
| Antimony | <16.3 | mg/kg | 16.3 | 1 | 08/21/20 10:49 | 08/28/20 18:22 | 7440-36-0 | |
| Arsenic | <2.7 | mg/kg | 2.7 | 1 | 08/21/20 10:49 | 08/28/20 18:22 | 7440-38-2 | |
| Barium | 256 | mg/kg | 54.4 | 1 | 08/21/20 10:49 | 08/28/20 18:22 | 7440-39-3 | |
| Beryllium | <1.4 | mg/kg | 1.4 | 1 | 08/21/20 10:49 | 08/28/20 18:22 | 7440-41-7 | |
| Boron | 36.2 | mg/kg | 13.6 | 1 | 08/21/20 10:49 | 08/28/20 18:22 | 7440-42-8 | |
| Cadmium | 0.94 | mg/kg | 0.68 | 1 | 08/21/20 10:49 | 08/28/20 18:22 | 7440-43-9 | |
| Calcium | 20400 | mg/kg | 272 | 1 | 08/21/20 10:49 | 08/28/20 18:22 | 7440-70-2 | |
| Chromium | 14.9 | mg/kg | 2.7 | 1 | 08/21/20 10:49 | 08/28/20 18:22 | 7440-47-3 | |
| Cobalt | <13.6 | mg/kg | 13.6 | 1 | 08/21/20 10:49 | 08/28/20 18:22 | 7440-48-4 | |
| Copper | 460 | mg/kg | 6.8 | 1 | 08/21/20 10:49 | 08/28/20 18:22 | 7440-50-8 | |
| Iron | 5460 | mg/kg | 27.2 | 1 | 08/21/20 10:49 | 08/28/20 18:22 | 7439-89-6 | |
| Lead | 23.1 | mg/kg | 1.4 | 1 | 08/21/20 10:49 | 08/28/20 18:22 | 7439-92-1 | |
| Magnesium | 3810 | mg/kg | 272 | 1 | 08/21/20 10:49 | 08/28/20 18:22 | 7439-95-4 | |
| Manganese | 117 | mg/kg | 4.1 | 1 | 08/21/20 10:49 | 08/28/20 18:22 | 7439-96-5 | |
| Molybdenum | <5.4 | mg/kg | 5.4 | 1 | 08/21/20 10:49 | 08/28/20 18:22 | 7439-98-7 | |
| Nickel | 15.9 | mg/kg | 10.9 | 1 | 08/21/20 10:49 | 08/28/20 18:22 | 7440-02-0 | |
| Potassium | 2000 | mg/kg | 1360 | 1 | 08/21/20 10:49 | 08/28/20 18:22 | 7440-09-7 | |
| Selenium | 8.4 | mg/kg | 2.7 | 1 | 08/21/20 10:49 | 08/28/20 18:22 | 7782-49-2 | |
| Silver | <2.7 | mg/kg | 2.7 | 1 | 08/21/20 10:49 | 08/28/20 18:22 | 7440-22-4 | |
| Sodium | 1450 | mg/kg | 1360 | 1 | 08/21/20 10:49 | 08/28/20 18:22 | 7440-23-5 | |
| Thallium | <2.7 | mg/kg | 2.7 | 1 | 08/21/20 10:49 | 08/28/20 18:22 | 7440-28-0 | |
| Vanadium | <13.6 | mg/kg | 13.6 | 1 | 08/21/20 10:49 | 08/28/20 18:22 | 7440-62-2 | |
| Zinc | 574 | mg/kg | 5.4 | 1 | 08/21/20 10:49 | 08/28/20 18:22 | 7440-66-6 | |
| **7471 Mercury** | Analytical Method: EPA 7471B Preparation Method: EPA 7471B<br>Pace Analytical Services - Melville | | | | | | | |
| Mercury | 0.56 | mg/kg | 0.18 | 1 | 08/27/20 08:48 | 08/27/20 13:12 | 7439-97-6 | D6,M1 |
| **Percent Moisture** | Analytical Method: ASTM D2216-05M<br>Pace Analytical Services - Melville | | | | | | | |
| Percent Moisture | 62.3 | % | 0.10 | 1 | | 08/21/20 15:46 | | |
| **2540G Total Fixed Vol Solids** | Analytical Method: SM22 2540G<br>Pace Analytical Services - Melville | | | | | | | |
| Total Solids | 17.7 | % | 0.10 | 1 | | 08/20/20 13:17 | | N3 |
| Total Volatile Solids | 81.2 | % | 0.10 | 1 | | 08/20/20 13:17 | | N3 |
| **4500PE Total Phosphorus** | Analytical Method: SM22 4500-P E Preparation Method: SM22 4500-P B<br>Pace Analytical Services - Melville | | | | | | | |
| Phosphorus | 12200 | mg/kg | 749 | 50 | 08/20/20 09:47 | 08/20/20 10:55 | 7723-14-0 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: PART 360 8/17
Pace Project No.: 70142559

**Sample: BELT PRESS SLUDGE #1** **Lab ID: 70142559001** Collected: 08/17/20 09:45 Received: 08/19/20 12:35 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **Corrosivity pH, <20% Water** | Analytical Method: EPA 9045D<br>Pace Analytical Services - Melville | | | | | | | |
| pH | **7.3** | Std. Units | 0.10 | 1 | | 08/19/20 17:15 | | |
| Temperature, Water (C) | **23.7** | deg C | 0.10 | 1 | | 08/19/20 17:15 | | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 Preparation Method: EPA 350.1<br>Pace Analytical Services - Greensburg | | | | | | | |
| Nitrogen, Ammonia | **8260** | mg/kg | 172 | 5 | 08/31/20 07:25 | 08/31/20 16:43 | 7664-41-7 | |
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrogen, Kjeldahl, Total | **2000** | mg/kg | 353 | 5 | 08/25/20 08:08 | 08/26/20 14:22 | 7727-37-9 | M1 |
| **9056 IC Anions 48hr** | Analytical Method: EPA 9056A Preparation Method: EPA 9056A<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrate as N | **<5.2** | mg/kg | 5.2 | 1 | 08/26/20 17:47 | 08/26/20 19:56 | 14797-55-8 | |
| Nitrite as N | **<5.2** | mg/kg | 5.2 | 1 | 08/26/20 17:47 | 08/26/20 19:56 | 14797-65-0 | |

## REPORT OF LABORATORY ANALYSIS

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# ANALYTICAL RESULTS

Project: PART 360/SALMONELLA 11/16
Pace Project No.: 70153658

**Sample: BELT PRESS SLUDGE #2** **Lab ID: 70153658001** Collected: 11/16/20 09:30 Received: 11/17/20 10:45 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP** | Analytical Method: EPA 6010C Preparation Method: EPA 3050B<br>Pace Analytical Services - Melville | | | | | | | |
| Arsenic | **4.0** | mg/kg | 3.5 | 1 | 11/24/20 12:44 | 11/25/20 10:39 | 7440-38-2 | |
| Cadmium | **0.94** | mg/kg | 0.88 | 1 | 11/24/20 12:44 | 11/25/20 10:39 | 7440-43-9 | |
| Chromium | **22.6** | mg/kg | 3.5 | 1 | 11/24/20 12:44 | 11/25/20 10:39 | 7440-47-3 | |
| Copper | **555** | mg/kg | 8.8 | 1 | 11/24/20 12:44 | 11/25/20 10:39 | 7440-50-8 | |
| Lead | **37.9** | mg/kg | 1.8 | 1 | 11/24/20 12:44 | 11/25/20 10:39 | 7439-92-1 | |
| Molybdenum | **7.7** | mg/kg | 7.0 | 1 | 11/24/20 12:44 | 11/25/20 10:39 | 7439-98-7 | |
| Nickel | **20.1** | mg/kg | 14.1 | 1 | 11/24/20 12:44 | 11/25/20 10:39 | 7440-02-0 | |
| Potassium | **2200** | mg/kg | 1760 | 1 | 11/24/20 12:44 | 11/25/20 10:39 | 7440-09-7 | |
| Selenium | **7.1** | mg/kg | 3.5 | 1 | 11/24/20 12:44 | 11/25/20 10:39 | 7782-49-2 | |
| Zinc | **935** | mg/kg | 7.0 | 1 | 11/24/20 12:44 | 11/25/20 10:39 | 7440-66-6 | |
| **7471 Mercury** | Analytical Method: EPA 7471B Preparation Method: EPA 7471B<br>Pace Analytical Services - Melville | | | | | | | |
| Mercury | **<0.17** | mg/kg | 0.17 | 1 | 11/30/20 11:20 | 11/30/20 13:41 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2216-05M<br>Pace Analytical Services - Melville | | | | | | | |
| Percent Moisture | **84.3** | % | 0.10 | 1 | | 11/18/20 10:46 | | |
| **2540G Total Fixed Vol Solids** | Analytical Method: SM22 2540G<br>Pace Analytical Services - Melville | | | | | | | |
| Total Solids | **15.7** | % | 0.10 | 1 | | 11/18/20 10:46 | | N3 |
| Total Volatile Solids | **81.2** | % | 0.10 | 1 | | 11/18/20 10:46 | | N3 |
| **4500PE Total Phosphorus** | Analytical Method: SM22 4500-P E Preparation Method: SM22 4500-P B<br>Pace Analytical Services - Melville | | | | | | | |
| Phosphorus | **11900** | mg/kg | 1730 | 100 | 11/18/20 10:00 | 11/18/20 11:34 | 7723-14-0 | |
| **Corrosivity pH, <20% Water** | Analytical Method: EPA 9045D<br>Pace Analytical Services - Melville | | | | | | | |
| pH | **5.4** | Std. Units | 0.10 | 1 | | 11/19/20 08:51 | | H1 |
| Temperature, Water (C) | **21.8** | deg C | 0.10 | 1 | | 11/19/20 08:51 | | H1 |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 Preparation Method: EPA 350.1<br>Pace Analytical Services - Greensburg | | | | | | | |
| Nitrogen, Ammonia | **4460** | mg/kg | 197 | 5 | 12/01/20 08:30 | 12/01/20 14:28 | 7664-41-7 | |
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrogen, Kjeldahl, Total | **611** | mg/kg | 398 | 5 | 12/02/20 07:30 | 12/04/20 12:42 | 7727-37-9 | M1 |
| **9056 IC Anions 48hr** | Analytical Method: EPA 9056A Preparation Method: EPA 9056A<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrate as N | **<6.3** | mg/kg | 6.3 | 1 | 11/20/20 19:24 | 11/21/20 06:41 | 14797-55-8 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: PART 360/SALMONELLA 11/16
Pace Project No.: 70153658

**Sample: BELT PRESS SLUDGE #2** **Lab ID: 70153658001** Collected: 11/16/20 09:30 Received: 11/17/20 10:45 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **9056 IC Anions 48hr** | Analytical Method: EPA 9056A Preparation Method: EPA 9056A<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrite as N | <6.3 | mg/kg | 6.3 | 1 | 11/20/20 19:24 | 11/21/20 06:41 | 14797-65-0 | |

## REPORT OF LABORATORY ANALYSIS

## SECTION 6 – PATHOGEN REDUCTION & VECTOR ATTRACTION REDUCTION

Check one method for each:

**Pathogen Reduction 361-3.7(a)**

- (X) 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
- (X) 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.**

## Village Of Sodus Biosolids Composting Facility

COMPOST PILE LOG SHEET

**Pile Number 1 for 20**
Date Pile was made: 3/2/20
Bucket Size: 1.0 cu/yds.
Number of Buckets of:
Woodchips: 40 | 20 Sludge:
Volume of:
Woodchips: 40 cu/yds. | Sludge: 20 cu/yds.
Ratio of Woodchips to Sludge: 2 to 1

Pile Detention Time and Temperature

| Day | Date | Temp. | Turned Pile |
|---|---|---|---|
| THUR | 3/12/20 | 55/68 | |
| FRI | 3/13/20 | 74/55 | |
| SAT | 3/14/20 | 72/56 | |
| SUN | 3/15/20 | 68/56 | X |
| MON | 3/16/20 | 58/55 | |
| TUES | 3/17/20 | 62/55 | |
| WED | 3/18/20 | 62/58 | |
| THUR | 3/19/20 | 60/64 | X |
| FRI | 3/20/20 | 60/55 | |
| SAT | 3/21/20 | 68/60 | |
| SUN | 3/22/20 | 68/58 | X |
| MON | 3/23/20 | 59/56 | |
| TUES | 3/24/20 | 61/55 | |
| WED | 3/25/20 | 65/55 | X |
| THUR | 3/26/20 | 60/55 | |
| FRI | 3/27/20 | 61/59 | X |

Curing Time: 35 Days — Curing Ends
Drains Checked: yes, everyday with temp checks
Problems:
Comments: Screened on :

**Pile Number 2 for 20**
Date Pile was made: 3/2/20
Bucket Size: 1.0 cu/yds.
Number of Buckets of:
Woodchips: 40 | 20 Sludge:
Volume of:
Woodchips: 40 cu/yds | Sludge: 20 cu/yds.
Ratio of Woodchips to Sludge: 2 to 1

Pile Detention Time and Temperature

| Day | Date | Temp. | Turned Pile |
|---|---|---|---|
| SAT | 3/14/20 | 60/55 | |
| SUN | 3/15/20 | 61/58 | |
| MON | 3/16/20 | 60/55 | |
| TUES | 3/17/20 | 60/55 | X |
| WED | 3/18/20 | 68/56 | |
| THUR | 3/19/20 | 59/65 | X |
| FRI | 3/20/20 | 55/55 | |
| SAT | 3/21/20 | 59/56 | |
| SUN | 3/22/20 | 55/55 | X |
| MON | 3/23/20 | 60/65 | |
| TUES | 3/24/20 | 64/65 | |
| WED | 3/25/20 | 60/62 | X |
| THUR | 3/26/20 | 57/55 | |
| FRI | 3/27/20 | 61/57 | |
| SAT | 3/28/20 | 64/56 | |
| SUN | 3/29/20 | 60/58 | X |

Curing Time: 35 Days — Curing Ends
Drains Checked: yes, everyday with temp checks
Problems:
Comments: Screened on:

**Pile Number 3 for 20**
Date Pile was made: 4/1/20
Bucket Size: 1.0 cu/yds.
Number of Buckets of:
Woodchips: 40 | Sludge: 20
Volume of:
Woodchips: 40 cu/yds. | Sludge: 20 cu/yds.
Ratio of Woodchips to Sludge: 2 to 1

Pile Detention Time and Temperature

| Day | Date | Temp. | Turned Pile |
|---|---|---|---|
| SUN | 4/12/20 | 56/62 | |
| MON | 4/13/20 | 59/62 | |
| TUES | 4/14/20 | 56/64 | |
| WED | 4/15/20 | 65/55 | X |
| THUR | 4/16/20 | 68/66 | |
| FRI | 4/17/20 | 72/63 | |
| SAT | 4/18/20 | 58/69 | X |
| SUN | 4/19/20 | 70/68 | |
| MON | 4/20/20 | 56/58 | X |
| TUES | 4/21/20 | 76/68 | |
| WED | 4/22/20 | 65/60 | |
| THUR | 4/23/20 | 55/55 | X |
| FRI | 4/24/20 | 78/62 | |
| SAT | 4/25/20 | 58/64 | |
| SUN | 4/26/20 | 58/65 | |
| MON | 4/27/20 | 63/60 | X |

Curing Time 35 Days: Curing Ends
Drains Checked: yes, everyday with temp. checks
Problems:
Comments: Screened on:

**Village Of Sodus Biosolids Composting Facility**

COMPOST PILE LOG SHEET

| Pile Number 4 for 20 | Pile Number 5 for 20 | Pile Number 6 for 20 |
|---|---|---|
| Date Pile was made: 4/6/20 | Date Pile was made: 4/28/20 | Date Pile was made: 5/1/20 |
| Bucket Size: 1.0 cu/yds. | Bucket Size: 1.0 cu/yds. | Bucket Size: 1.0 cu/yds. |
| Number of Buckets of: | Number of Buckets of: | Number of Buckets of: |
| Woodchips: 40 \| 20 Sludge: | Woodchips: 40 \| 20 Sludge: | Woodchips: 40 \| Sludge: 20 |
| Volume of: | Volume of: | Volume of: |
| Woodchips: 40 cu/yds. \| Sludge: 20 cu/yds. | Woodchips: 40 cu/yds \| Sludge: 20 cu/yds. | Woodchips: 40 cu/yds. \| Sludge: 20 cu/yds. |
| Ratio of Woodchips to Sludge: 2 to 1 | Ratio of Woodchips to Sludge: 2 to 1 | Ratio of Woodchips to Sludge: 2 to 1 |

Pile Detention Time and Temperature

| Day | Date | Temp. | Turned Pile |
|---|---|---|---|
| MON | 4/13/20 | 64/55 | |
| TUE | 4/14/20 | 66/55 | |
| WED | 4/15/20 | 65/55 | X |
| THUR | 4/16/20 | 65/60 | |
| FRI | 4/17/20 | 68/61 | |
| SAT | 4/18/20 | 67/60 | X |
| SUN | 4/19/20 | 65/66 | |
| MON | 4/20/20 | 63/55 | X |
| TUES | 4/21/20 | 62/64 | |
| WED | 4/22/20 | 58/61 | |
| THUR | 4/23/20 | 60/55 | |
| FRI | 4/24/20 | 63/56 | X |
| SAT | 4/25/20 | 65/65 | |
| SUN | 4/26/20 | 58/60 | |
| MON | 4/27/20 | 60/55 | |
| TUES | 4/28/20 | | X |

Curing Time: 35 Days — Curing Ends

Drains Checked: yes, everyday with temp checks

Problems:

Comments: Screened on:

Pile Detention Time and Temperature

| Day | Date | Temp. | Turned Pile |
|---|---|---|---|
| TUE | 5/5/20 | 58/55 | |
| WED | 5/6/20 | 65/61 | |
| THUR | 5/7/20 | 65/65 | |
| FRI | 5/8/20 | 60/67 | |
| SAT | 5/9/20 | 58/67 | X |
| SUN | 5/10/20 | 68/74 | |
| MON | 5/11/20 | 60/65 | |
| TUE | 5/12/20 | 58/55 | X |
| WED | 5/13/20 | 65/60 | |
| THUR | 5/14/20 | 68/62 | |
| FRI | 5/15/20 | 64/55 | X |
| SAT | 5/16/20 | 70/60 | |
| SUN | 5/17/20 | 61/60 | |
| MON | 5/18/20 | 58/61 | X |
| TUE | 5/19/20 | 58/58 | |
| WED | 5/20/20 | 58/65 | X |

Curing Time: 35 Days — Curing Ends

Drains Checked: yes, everyday with temp checks

Problems:

Comments: Screened on:

Pile Detention Time and Temperature

| Day | Date | Temp. | Turned Pile |
|---|---|---|---|
| THUR | 5/19/20 | 68/64 | |
| FRI | 5/15/20 | 74/68 | |
| SAT | 5/16/20 | 72/66 | |
| SUN | 5/17/20 | 66/55 | X |
| MON | 5/18/20 | 70/70 | |
| TUES | 5/19/20 | 70/80 | |
| WED | 5/20/20 | 72/58 | |
| THUR | 5/21/20 | 80/77 | |
| FRI | 5/22/20 | 65/75 | X |
| SAT | 5/23/20 | 75/73 | |
| SUN | 5/24/20 | 69/65 | X |
| MON | 5/25/20 | 70/73 | |
| TUES | 5/26/20 | 68/72 | |
| WED | 5/27/20 | 71/68 | X |
| THUR | 5/28/20 | 72/70 | |
| FRI | 5/29/20 | 65/70 | X |

Curing Time 35 Days: Curing Ends

Drains Checked: yes, everyday with temp. checks

Problems:

Comments: Screened on:

## Village Of Sodus Biosolids Composting Facility
### COMPOST PILE LOG SHEET

**Pile Number 7 for 20**
Date Pile was made: 5/23/20
Bucket Size: 1.0 cu/yds.
Number of Buckets of:
Woodchips: 40 | 20 Sludge:
Volume of:
Woodchips: 40 cu/yds. | Sludge: 20 cu/yds.
Ratio of Woodchips to Sludge: 2 to 1

Pile Detention Time and Temperature

| Day | Date | Temp. | Turned Pile |
|---|---|---|---|
| TUES | 6/2/20 | 65/57 | |
| WED | 6/3/20 | 65/57 | |
| THUR | 6/4/20 | 68/57 | |
| FRI | 6/5/20 | 69/57 | X |
| SAT | 6/6/20 | 67/67 | |
| SUN | 6/7/20 | 73/72 | |
| MON | 6/8/20 | 72/75 | |
| TUES | 6/9/20 | 64/68 | X |
| WED | 6/10/20 | 62/72 | |
| THUR | 6/11/20 | 72/71 | X |
| FRI | 6/12/20 | 65/62 | |
| SAT | 6/13/20 | 71/70 | |
| SUN | 6/14/20 | 69/70 | X |
| MON | 6/15/20 | 65/65 | |
| TUES | 6/16/20 | 65/62 | |
| WED | 6/17/20 | 65/55 | X |

Curing Time: 35 Days — Curing Ends
Drains Checked: yes, everyday with temp checks
Problems:
Comments: Screened on:

**Pile Number 8 for 20**
Date Pile was made: 6/15/20
Bucket Size: 1.0 cu/yds.
Number of Buckets of:
Woodchips: 40 | 20 Sludge:
Volume of:
Woodchips: 40 cu/yds | Sludge: 20 cu/yds.
Ratio of Woodchips to Sludge: 2 to 1

Pile Detention Time and Temperature

| Day | Date | Temp. | Turned Pile |
|---|---|---|---|
| TUES | 6/23/20 | 58/60 | |
| WED | 6/24/20 | 70/65 | |
| THUR | 6/25/20 | 71/74 | |
| FRI | 6/26/20 | 70/75 | X |
| SAT | 6/27/20 | 72/75 | |
| SUN | 6/28/20 | 75/69 | |
| MON | 6/29/20 | 70/74 | X |
| TUES | 6/30/20 | 64/69 | |
| WED | 7/1/20 | 66/68 | |
| THUR | 7/2/20 | 70/65 | X |
| FRI | 7/3/20 | 70/68 | |
| SAT | 7/4/20 | 76/68 | |
| SUN | 7/5/20 | 68/72 | |
| MON | 7/6/20 | 68/72 | X |
| TUES | 7/7/20 | 70/68 | |
| WED | 7/8/20 | 64/73 | X |

Curing Time: 35 Days — Curing Ends
Drains Checked: yes, everyday with temp checks
Problems:
Comments: Screened on:

**Pile Number 9 for 20**
Date Pile was made: 7/7/20
Bucket Size: 1.0 cu/yds.
Number of Buckets of:
Woodchips: 40 | Sludge: 20
Volume of:
Woodchips: 40 cu/yds. | Sludge: 20 cu/yds.
Ratio of Woodchips to Sludge: 2 to 1

Pile Detention Time and Temperature

| Day | Date | Temp. | Turned Pile |
|---|---|---|---|
| Tues | 7/14/20 | 64/45 | |
| Wed | 7/15/20 | 63/60 | |
| Thurs | 7/16/20 | 65/65 | |
| Fri | 7/17/20 | 62/67 | X |
| Sat | 7/18/20 | 60/65 | |
| Sun | 7/19/20 | 64/68 | |
| Mon | 7/20/20 | 64/70 | X |
| Tues | 7/21/20 | 78/68 | |
| Wed | 7/22/20 | 74/64 | |
| Thur | 7/23/20 | 80/70 | X |
| Fri | 7/24/20 | 65/68 | |
| Sat | 7/25/20 | 65/78 | |
| Sun | 7/26/20 | 60/74 | |
| Mon | | | |
| Tue | | | |
| Wed | | | |

Curing Time 35 Days: Curing Ends
Drains Checked: yes, everyday with temp. checks
Problems:
Comments: Screened on:

**Village Of Sodus Biosolids Composting Facility**

COMPOST PILE LOG SHEET

Pile Number 10 for 20
Date Pile was made: 8/28/20
Bucket Size: 1.0 cu/yds.
Number of Buckets of:
Woodchips: 40 | 20 Sludge:
Volume of:
Woodchips: 40 cu/yds. | Sludge: 20 cu/yds.
Ratio of Woodchips to Sludge: 2 to 1

Pile Detention Time and Temperature

| Day | Date | Temp. | Turned Pile |
|---|---|---|---|
| WED | 9/2/20 | 60/56 | |
| THUR | 9/3/20 | 60/59 | X |
| FRI | 9/4/20 | 60/75 | |
| SAT | 9/5/20 | 60/72 | |
| SUN | 9/6/20 | 62/70 | |
| MON | 9/7/20 | 70/72 | |
| TUES | 9/8/20 | 76/65 | X |
| WED | 9/9/20 | 78/76 | |
| THUR | 9/10/20 | 64/64 | |
| FRI | 9/11/20 | 55/55 | X |
| SAT | 9/12/20 | 60/55 | |
| SUN | 9/13/20 | 55/58 | |
| MON | 9/14/20 | 55/57 | |
| TUES | 9/15/20 | 55/55 | X |
| WED | 9/16/20 | 55/58 | |
| THUR | 9/17/20 | 55/62 | X |

Curing Time: 35 Days— Curing Ends
Drains Checked: yes, everyday with temp checks
Problems:
Comments: Screened on:

Pile Number 11 for 20
Date Pile was made: 11/12/20
Bucket Size: 1.0 cu/yds.
Number of Buckets of:
Woodchips: 40 | 20 Sludge:
Volume of:
Woodchips: 40 cu/yds | 20 Sludge: cu/yds.
Ratio of Woodchips to Sludge: 2 to 1

Pile Detention Time and Temperature

| Day | Date | Temp. | Turned Pile |
|---|---|---|---|
| MON | 11/16/20 | 55/65 | |
| TUES | 11/17/20 | 65/68 | |
| WED | 11/18/20 | 67/72 | X |
| THUR | 11/19/20 | 64/68 | |
| FRI | 11/20/20 | 66/75 | |
| SAT | 11/21/20 | 72/75 | X |
| SUN | 11/22/20 | 60/70 | |
| MON | 11/23/20 | 77/79 | |
| TUES | 11/24/20 | 75/75 | |
| WED | 11/25/20 | 72/74 | X |
| THUR | 11/26/20 | 65/68 | |
| FRI | 11/27/20 | 75/78 | |
| SAT | 11/28/20 | 75/78 | |
| SUN | 11/29/20 | 70/75 | X |
| MON | 11/30/20 | 68/71 | |
| TUES | 12/1/20 | 65/68 | X |

Curing Time: 35 Days—Curing Ends
Drains Checked: yes, everyday with temp checks
Problems:
Comments: Screened on:

Pile Number ____ for 20
Date Pile was made:
Bucket Size: 1.0 cu/yds.
Number of Buckets of:
Woodchips: | Sludge:
Volume of:
Woodchips: cu/yds. | Sludge: cu/yds.
Ratio of Woodchips to Sludge: 2 to 1

Pile Detention Time and Temperature

| Day | Date | Temp. | Turned Pile |
|---|---|---|---|
| | | | |

Curing Time 35 Days: Curing Ends
Drains Checked: yes, everyday with temp. checks
Problems:
Comments: Screened on:

## 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 ===> | #1 | #2 | #3 | | Permit Pre 2017 Regs. Monthly Conc. (mg/kg) | Permit Post 2017 Regs. Max. Conc. (mg/kg) |
|---|---|---|---|---|---|---|
| Arsenic (mg/kg) | 3.8 | 2.8 | 6.1 | | 41 | 41 |
| Cadmium (mg/kg) | 1.1 | <0.28 | 0.64 | | 10 | 10 |
| Chromium (mg/kg) | 62.7 | 33.0 | 29.6 | | 1,000 | 1,000 |
| Copper (mg/kg) | 358 | 42.8 | 50.2 | | 1,500 | 1,500 |
| Lead (mg/kg) | 90.6 | 40.5 | 156 | | 300 | 300 |
| Mercury (mg/kg) | 0.91 | 0.44 | 0.33 | | 10 | 10 |
| Molybdenum (mg/kg) | 5.8 | <2.2 | <1.9 | | 40 | 40 |
| Nickel (mg/kg) | 18.8 | 41.8 | 27.2 | | 200 | 200 |
| Selenium (mg/kg) | 3.8 | <1.1 | <0.94 | | 100 | 100 |
| Zinc (mg/kg) | 603 | 138 | 172 | | 2,500 | 2,500 |
| TKN (mg/kg) | 3650 | 3550 | 2390 | | | |
| Ammonia Nitrogen (mg/kg) | 42600 | 8640 | 5720 | | | |
| Nitrate (mg/kg) | 554 | 192 | 67.5 | | | |
| Total Phosphorus (mg/kg) | 12000 | 12200 | 10600 | | | |
| Total Potassium (mg/kg) | 3160 | 3390 | 2060 | | | |
| pH (s.u.) | 6.8 | 6.7 | 6.7 | | | |
| Total Solids ( %) | 36.6 | 44.9 | 49.5 | | | |
| Total Volatile Solids (%) | 48.3 | 63.2 | 75.2 | | | |
| Fecal Coliform (MPN/g) | | | | | <1,000 MPN/g | |
| Salmonella sp. (MPN/4g) | <3 | <3 | <3 | | <3MPN/4g | |
| Other _____ | | | | | | |

Pace Analytical Services, LLC
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## ANALYTICAL RESULTS

Project: PART 360 8/17
Pace Project No.: 70142559

**Sample: FINISH COMPOST #1** **Lab ID: 70142559002** Collected: 08/17/20 09:45 Received: 08/19/20 12:35 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP** | Analytical Method: EPA 6010C Preparation Method: EPA 3050B<br>Pace Analytical Services - Melville | | | | | | | |
| Aluminum | **2910** | mg/kg | 30.4 | 1 | 08/21/20 10:49 | 08/28/20 18:24 | 7429-90-5 | |
| Antimony | **<9.1** | mg/kg | 9.1 | 1 | 08/21/20 10:49 | 08/28/20 18:24 | 7440-36-0 | |
| Arsenic | **3.8** | mg/kg | 1.5 | 1 | 08/21/20 10:49 | 08/28/20 18:24 | 7440-38-2 | |
| Barium | **660** | mg/kg | 30.4 | 1 | 08/21/20 10:49 | 08/28/20 18:24 | 7440-39-3 | |
| Beryllium | **<0.76** | mg/kg | 0.76 | 1 | 08/21/20 10:49 | 08/28/20 18:24 | 7440-41-7 | |
| Boron | **11.5** | mg/kg | 7.6 | 1 | 08/21/20 10:49 | 08/28/20 18:24 | 7440-42-8 | |
| Cadmium | **1.1** | mg/kg | 0.38 | 1 | 08/21/20 10:49 | 08/28/20 18:24 | 7440-43-9 | |
| Calcium | **43100** | mg/kg | 152 | 1 | 08/21/20 10:49 | 08/28/20 18:24 | 7440-70-2 | |
| Chromium | **62.7** | mg/kg | 1.5 | 1 | 08/21/20 10:49 | 08/28/20 18:24 | 7440-47-3 | |
| Cobalt | **<7.6** | mg/kg | 7.6 | 1 | 08/21/20 10:49 | 08/28/20 18:24 | 7440-48-4 | |
| Copper | **358** | mg/kg | 3.8 | 1 | 08/21/20 10:49 | 08/28/20 18:24 | 7440-50-8 | |
| Iron | **12300** | mg/kg | 152 | 10 | 08/21/20 10:49 | 09/01/20 14:09 | 7439-89-6 | |
| Lead | **90.6** | mg/kg | 0.76 | 1 | 08/21/20 10:49 | 08/28/20 18:24 | 7439-92-1 | |
| Magnesium | **3610** | mg/kg | 152 | 1 | 08/21/20 10:49 | 08/28/20 18:24 | 7439-95-4 | |
| Manganese | **773** | mg/kg | 2.3 | 1 | 08/21/20 10:49 | 08/28/20 18:24 | 7439-96-5 | |
| Molybdenum | **5.8** | mg/kg | 3.0 | 1 | 08/21/20 10:49 | 08/28/20 18:24 | 7439-98-7 | |
| Nickel | **18.8** | mg/kg | 6.1 | 1 | 08/21/20 10:49 | 08/28/20 18:24 | 7440-02-0 | |
| Potassium | **3160** | mg/kg | 759 | 1 | 08/21/20 10:49 | 08/28/20 18:24 | 7440-09-7 | |
| Selenium | **3.8** | mg/kg | 1.5 | 1 | 08/21/20 10:49 | 08/28/20 18:24 | 7782-49-2 | |
| Silver | **<1.5** | mg/kg | 1.5 | 1 | 08/21/20 10:49 | 08/28/20 18:24 | 7440-22-4 | |
| Sodium | **777** | mg/kg | 759 | 1 | 08/21/20 10:49 | 08/28/20 18:24 | 7440-23-5 | |
| Thallium | **<15.2** | mg/kg | 15.2 | 10 | 08/21/20 10:49 | 09/01/20 14:09 | 7440-28-0 | |
| Vanadium | **<7.6** | mg/kg | 7.6 | 1 | 08/21/20 10:49 | 08/28/20 18:24 | 7440-62-2 | |
| Zinc | **603** | mg/kg | 3.0 | 1 | 08/21/20 10:49 | 08/28/20 18:24 | 7440-66-6 | |
| **7471 Mercury** | Analytical Method: EPA 7471B Preparation Method: EPA 7471B<br>Pace Analytical Services - Melville | | | | | | | |
| Mercury | **0.91** | mg/kg | 0.088 | 1 | 08/27/20 08:48 | 08/27/20 13:18 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2216-05M<br>Pace Analytical Services - Melville | | | | | | | |
| Percent Moisture | **63.4** | % | 0.10 | 1 | | 08/21/20 15:46 | | |
| **2540G Total Fixed Vol Solids** | Analytical Method: SM22 2540G<br>Pace Analytical Services - Melville | | | | | | | |
| Total Solids | **36.6** | % | 0.10 | 1 | | 08/20/20 13:18 | | N3 |
| Total Volatile Solids | **48.3** | % | 0.10 | 1 | | 08/20/20 13:18 | | N3 |
| **4500PE Total Phosphorus** | Analytical Method: SM22 4500-P E Preparation Method: SM22 4500-P B<br>Pace Analytical Services - Melville | | | | | | | |
| Phosphorus | **12000** | mg/kg | 689 | 100 | 08/20/20 09:47 | 08/20/20 10:56 | 7723-14-0 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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## ANALYTICAL RESULTS

Project: PART 360 8/17
Pace Project No.: 70142559

**Sample: FINISH COMPOST #1** **Lab ID: 70142559002** Collected: 08/17/20 09:45 Received: 08/19/20 12:35 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **Corrosivity pH, <20% Water** | Analytical Method: EPA 9045D<br>Pace Analytical Services - Melville | | | | | | | |
| pH | 6.8 | Std. Units | 0.10 | 1 | | 08/19/20 17:15 | | |
| Temperature, Water (C) | 23.5 | deg C | 0.10 | 1 | | 08/19/20 17:15 | | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 Preparation Method: EPA 350.1<br>Pace Analytical Services - Greensburg | | | | | | | |
| Nitrogen, Ammonia | 42800 | mg/kg | 1720 | 100 | 08/31/20 07:25 | 08/31/20 16:53 | 7664-41-7 | |
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrogen, Kjeldahl, Total | 3650 | mg/kg | 171 | 5 | 08/25/20 08:08 | 08/26/20 14:26 | 7727-37-9 | |
| **9056 IC Anions 48hr** | Analytical Method: EPA 9056A Preparation Method: EPA 9056A<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrate as N | 554 | mg/kg | 24.9 | 10 | 08/26/20 17:47 | 08/26/20 20:30 | 14797-55-8 | |
| Nitrite as N | <2.5 | mg/kg | 2.5 | 1 | 08/26/20 17:47 | 08/26/20 20:13 | 14797-65-0 | |

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## ANALYTICAL RESULTS

Project: PART 360 8/17
Pace Project No.: 70142559

**Sample: FINISH COMPOST #1** **Lab ID: 70142559005** Collected: 08/17/20 09:45 Received: 08/19/20 12:35 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | Analytical Method: ASTM D2216-05M<br>Pace Analytical Services - Melville | | | | | | | |
| Percent Moisture | 63.4 | % | 0.10 | 1 | | 08/21/20 15:46 | | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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## ANALYTICAL RESULTS

Project: PART 360 8/17
Pace Project No.: 70142559

**Sample: FINISH COMPOST #2** **Lab ID: 70142559003** Collected: 08/17/20 09:45 Received: 08/19/20 12:35 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP** | Analytical Method: EPA 6010C Preparation Method: EPA 3050B<br>Pace Analytical Services - Melville | | | | | | | |
| Aluminum | 11800 | mg/kg | 22.3 | 1 | 08/21/20 10:49 | 08/28/20 17:54 | 7429-90-5 | |
| Antimony | <6.7 | mg/kg | 6.7 | 1 | 08/21/20 10:49 | 08/28/20 17:54 | 7440-36-0 | |
| Arsenic | 2.8 | mg/kg | 1.1 | 1 | 08/21/20 10:49 | 08/28/20 17:54 | 7440-38-2 | |
| Barium | 114 | mg/kg | 22.3 | 1 | 08/21/20 10:49 | 08/28/20 17:54 | 7440-39-3 | |
| Beryllium | <0.56 | mg/kg | 0.56 | 1 | 08/21/20 10:49 | 08/28/20 17:54 | 7440-41-7 | |
| Boron | <5.6 | mg/kg | 5.6 | 1 | 08/21/20 10:49 | 08/28/20 17:54 | 7440-42-8 | |
| Cadmium | <0.28 | mg/kg | 0.28 | 1 | 08/21/20 10:49 | 08/28/20 17:54 | 7440-43-9 | |
| Calcium | 41200 | mg/kg | 111 | 1 | 08/21/20 10:49 | 08/28/20 17:54 | 7440-70-2 | |
| Chromium | 33.0 | mg/kg | 1.1 | 1 | 08/21/20 10:49 | 08/28/20 17:54 | 7440-47-3 | |
| Cobalt | 11.7 | mg/kg | 5.6 | 1 | 08/21/20 10:49 | 08/28/20 17:54 | 7440-48-4 | |
| Copper | 42.8 | mg/kg | 2.8 | 1 | 08/21/20 10:49 | 08/28/20 17:54 | 7440-50-8 | |
| Iron | 20400 | mg/kg | 11.1 | 1 | 08/21/20 10:49 | 08/28/20 17:54 | 7439-89-6 | |
| Lead | 40.5 | mg/kg | 0.56 | 1 | 08/21/20 10:49 | 08/28/20 17:54 | 7439-92-1 | |
| Magnesium | 6590 | mg/kg | 111 | 1 | 08/21/20 10:49 | 08/28/20 17:54 | 7439-95-4 | |
| Manganese | 257 | mg/kg | 1.7 | 1 | 08/21/20 10:49 | 08/28/20 17:54 | 7439-96-5 | |
| Molybdenum | <2.2 | mg/kg | 2.2 | 1 | 08/21/20 10:49 | 08/28/20 17:54 | 7439-98-7 | |
| Nickel | 41.8 | mg/kg | 4.5 | 1 | 08/21/20 10:49 | 08/28/20 17:54 | 7440-02-0 | |
| Potassium | 3390 | mg/kg | 557 | 1 | 08/21/20 10:49 | 08/28/20 17:54 | 7440-09-7 | |
| Selenium | <1.1 | mg/kg | 1.1 | 1 | 08/21/20 10:49 | 08/28/20 17:54 | 7782-49-2 | |
| Silver | <1.1 | mg/kg | 1.1 | 1 | 08/21/20 10:49 | 08/28/20 17:54 | 7440-22-4 | |
| Sodium | <557 | mg/kg | 557 | 1 | 08/21/20 10:49 | 08/28/20 17:54 | 7440-23-5 | |
| Thallium | <5.6 | mg/kg | 5.6 | 5 | 08/21/20 10:49 | 09/01/20 14:11 | 7440-28-0 | |
| Vanadium | 41.7 | mg/kg | 5.6 | 1 | 08/21/20 10:49 | 08/28/20 17:54 | 7440-62-2 | |
| Zinc | 138 | mg/kg | 2.2 | 1 | 08/21/20 10:49 | 08/28/20 17:54 | 7440-66-6 | |
| **7471 Mercury** | Analytical Method: EPA 7471B Preparation Method: EPA 7471B<br>Pace Analytical Services - Melville | | | | | | | |
| Mercury | 0.44 | mg/kg | 0.076 | 1 | 08/27/20 08:48 | 08/27/20 13:24 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2216-05M<br>Pace Analytical Services - Melville | | | | | | | |
| Percent Moisture | 55.1 | % | 0.10 | 1 | | 08/21/20 15:46 | | |
| **2540G Total Fixed Vol Solids** | Analytical Method: SM22 2540G<br>Pace Analytical Services - Melville | | | | | | | |
| Total Solids | 44.9 | % | 0.10 | 1 | | 08/20/20 13:19 | | N3 |
| Total Volatile Solids | 63.2 | % | 0.10 | 1 | | 08/20/20 13:19 | | N3 |
| **4500PE Total Phosphorus** | Analytical Method: SM22 4500-P E Preparation Method: SM22 4500-P B<br>Pace Analytical Services - Melville | | | | | | | |
| Phosphorus | 12200 | mg/kg | 601 | 100 | 08/20/20 09:47 | 08/20/20 10:56 | 7723-14-0 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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(631)694-3040

## ANALYTICAL RESULTS

Project: PART 360 8/17
Pace Project No.: 70142559

**Sample: FINISH COMPOST #2** **Lab ID: 70142559003** Collected: 08/17/20 09:45 Received: 08/19/20 12:35 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **Corrosivity pH, <20% Water** | Analytical Method: EPA 9045D<br>Pace Analytical Services - Melville | | | | | | | |
| pH | **6.7** | Std. Units | 0.10 | 1 | | 08/19/20 17:15 | | |
| Temperature, Water (C) | **24.1** | deg C | 0.10 | 1 | | 08/19/20 17:15 | | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 Preparation Method: EPA 350.1<br>Pace Analytical Services - Greensburg | | | | | | | |
| Nitrogen, Ammonia | **8640** | mg/kg | 329 | 25 | 08/31/20 07:25 | 08/31/20 16:54 | 7664-41-7 | |
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrogen, Kjeldahl, Total | **3550** | mg/kg | 139 | 5 | 08/25/20 08:08 | 08/26/20 14:27 | 7727-37-9 | |
| **9056 IC Anions 48hr** | Analytical Method: EPA 9056A Preparation Method: EPA 9056A<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrate as N | **192** | mg/kg | 21.0 | 10 | 08/26/20 17:47 | 08/26/20 21:37 | 14797-55-8 | |
| Nitrite as N | **<2.1** | mg/kg | 2.1 | 1 | 08/26/20 17:47 | 08/26/20 20:47 | 14797-65-0 | |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: PART 360 8/17
Pace Project No.: 70142559

**Sample: FINISH COMPOST #2** **Lab ID: 70142559006** Collected: 08/17/20 09:45 Received: 08/19/20 12:35 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | Analytical Method: ASTM D2216-05M<br>Pace Analytical Services - Melville | | | | | | | |
| Percent Moisture | **55.1** | % | 0.10 | 1 | | 08/21/20 15:46 | | |

## REPORT OF LABORATORY ANALYSIS

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# ANALYTICAL RESULTS

Project: PART 360 8/17
Pace Project No.: 70142559

**Sample: FINISH COMPOST #3** **Lab ID: 70142559004** Collected: 08/17/20 09:45 Received: 08/19/20 12:35 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP** | Analytical Method: EPA 6010C Preparation Method: EPA 3050B<br>Pace Analytical Services - Melville | | | | | | | |
| Aluminum | **9850** | mg/kg | 18.8 | 1 | 08/21/20 10:49 | 08/28/20 17:56 | 7429-90-5 | |
| Antimony | **<5.6** | mg/kg | 5.6 | 1 | 08/21/20 10:49 | 08/28/20 17:56 | 7440-36-0 | |
| Arsenic | **6.1** | mg/kg | 0.94 | 1 | 08/21/20 10:49 | 08/28/20 17:56 | 7440-38-2 | |
| Barium | **143** | mg/kg | 18.8 | 1 | 08/21/20 10:49 | 08/28/20 17:56 | 7440-39-3 | |
| Beryllium | **<0.47** | mg/kg | 0.47 | 1 | 08/21/20 10:49 | 08/28/20 17:56 | 7440-41-7 | |
| Boron | **<4.7** | mg/kg | 4.7 | 1 | 08/21/20 10:49 | 08/28/20 17:56 | 7440-42-8 | |
| Cadmium | **0.64** | mg/kg | 0.23 | 1 | 08/21/20 10:49 | 08/28/20 17:56 | 7440-43-9 | |
| Calcium | **23200** | mg/kg | 93.8 | 1 | 08/21/20 10:49 | 08/28/20 17:56 | 7440-70-2 | |
| Chromium | **29.6** | mg/kg | 0.94 | 1 | 08/21/20 10:49 | 08/28/20 17:56 | 7440-47-3 | |
| Cobalt | **9.8** | mg/kg | 4.7 | 1 | 08/21/20 10:49 | 08/28/20 17:56 | 7440-48-4 | |
| Copper | **50.2** | mg/kg | 2.3 | 1 | 08/21/20 10:49 | 08/28/20 17:56 | 7440-50-8 | |
| Iron | **17600** | mg/kg | 9.4 | 1 | 08/21/20 10:49 | 08/28/20 17:56 | 7439-89-6 | |
| Lead | **156** | mg/kg | 0.47 | 1 | 08/21/20 10:49 | 08/28/20 17:56 | 7439-92-1 | |
| Magnesium | **6020** | mg/kg | 93.8 | 1 | 08/21/20 10:49 | 08/28/20 17:56 | 7439-95-4 | |
| Manganese | **415** | mg/kg | 1.4 | 1 | 08/21/20 10:49 | 08/28/20 17:56 | 7439-96-5 | |
| Molybdenum | **<1.9** | mg/kg | 1.9 | 1 | 08/21/20 10:49 | 08/28/20 17:56 | 7439-98-7 | |
| Nickel | **27.2** | mg/kg | 3.8 | 1 | 08/21/20 10:49 | 08/28/20 17:56 | 7440-02-0 | |
| Potassium | **2060** | mg/kg | 469 | 1 | 08/21/20 10:49 | 08/28/20 17:56 | 7440-09-7 | |
| Selenium | **<0.94** | mg/kg | 0.94 | 1 | 08/21/20 10:49 | 08/28/20 17:56 | 7782-49-2 | |
| Silver | **<0.94** | mg/kg | 0.94 | 1 | 08/21/20 10:49 | 08/28/20 17:56 | 7440-22-4 | |
| Sodium | **<469** | mg/kg | 469 | 1 | 08/21/20 10:49 | 08/28/20 17:56 | 7440-23-5 | |
| Thallium | **<4.7** | mg/kg | 4.7 | 5 | 08/21/20 10:49 | 09/01/20 14:13 | 7440-28-0 | |
| Vanadium | **41.7** | mg/kg | 4.7 | 1 | 08/21/20 10:49 | 08/28/20 17:56 | 7440-62-2 | |
| Zinc | **172** | mg/kg | 1.9 | 1 | 08/21/20 10:49 | 08/28/20 17:56 | 7440-66-6 | |
| **7471 Mercury** | Analytical Method: EPA 7471B Preparation Method: EPA 7471B<br>Pace Analytical Services - Melville | | | | | | | |
| Mercury | **0.33** | mg/kg | 0.071 | 1 | 08/27/20 08:48 | 08/27/20 13:26 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2216-05M<br>Pace Analytical Services - Melville | | | | | | | |
| Percent Moisture | **50.5** | % | 0.10 | 1 | | 08/21/20 15:46 | | |
| **2540G Total Fixed Vol Solids** | Analytical Method: SM22 2540G<br>Pace Analytical Services - Melville | | | | | | | |
| Total Solids | **49.5** | % | 0.10 | 1 | | 08/20/20 13:20 | | N3 |
| Total Volatile Solids | **75.2** | % | 0.10 | 1 | | 08/20/20 13:20 | | N3 |
| **4500PE Total Phosphorus** | Analytical Method: SM22 4500-P E Preparation Method: SM22 4500-P B<br>Pace Analytical Services - Melville | | | | | | | |
| Phosphorus | **10600** | mg/kg | 475 | 100 | 08/20/20 09:47 | 08/20/20 10:56 | 7723-14-0 | |

## REPORT OF LABORATORY ANALYSIS

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# ANALYTICAL RESULTS

Project: PART 360 8/17
Pace Project No.: 70142559

**Sample: FINISH COMPOST #3** **Lab ID: 70142559004** Collected: 08/17/20 09:45 Received: 08/19/20 12:35 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **Corrosivity pH, <20% Water** | Analytical Method: EPA 9045D<br>Pace Analytical Services - Melville | | | | | | | |
| pH | 6.7 | Std. Units | 0.10 | 1 | | 08/19/20 17:15 | | |
| Temperature, Water (C) | 24.1 | deg C | 0.10 | 1 | | 08/19/20 17:15 | | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 Preparation Method: EPA 350.1<br>Pace Analytical Services - Greensburg | | | | | | | |
| Nitrogen, Ammonia | **5720** | mg/kg | 64.2 | 5 | 08/31/20 07:25 | 08/31/20 16:46 | 7664-41-7 | |
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrogen, Kjeldahl, Total | **2390** | mg/kg | 126 | 5 | 08/25/20 08:08 | 08/26/20 14:28 | 7727-37-9 | |
| **9056 IC Anions 48hr** | Analytical Method: EPA 9056A Preparation Method: EPA 9056A<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrate as N | **67.5** | mg/kg | 1.8 | 1 | 08/26/20 17:47 | 08/26/20 21:53 | 14797-55-8 | |
| Nitrite as N | **<1.8** | mg/kg | 1.8 | 1 | 08/26/20 17:47 | 08/26/20 21:53 | 14797-65-0 | |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: PART 360 8/17
Pace Project No.: 70142559

**Sample: FINISH COMPOST #3** **Lab ID: 70142559007** Collected: 08/17/20 09:45 Received: 08/19/20 12:35 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | Analytical Method: ASTM D2216-05M<br>Pace Analytical Services - Melville | | | | | | | |
| Percent Moisture | **50.5** | % | 0.10 | 1 | | 08/21/20 15:46 | | |

## REPORT OF LABORATORY ANALYSIS

# -- LABORATORY ANALYSIS REPORT --

*PACE Analytical Inc.* *Melville, NY*

**Sample ID:** Finish Compost #1 **LSL Sample ID:** 2013033-003

**Location:**

**Sampled:** 08/17/20 9:45 **Sampled By:** Client

**Sample Matrix:** SHW as Recd, 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 | | | 8/17/20 15:50 | DA/DA |
| *The NYS DOH ELAP does not offer certification for this analyte.* | | | | | | |
| (1) SM 2540 B-2011 Total Solids | | | | | | |
| **Total Solids @ 103-105 C** | 62 | % | | | 8/18/20 | ARJ |
| *The NYS DOH ELAP does not offer certification for this analyte in this matrix.* | | | | | | |

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

# -- LABORATORY ANALYSIS REPORT --

*PACE Analytical Inc.* *Melville, NY*

**Sample ID:** Finish Compost #2 **LSL Sample ID:** 2013033-001

**Location:**

**Sampled:** 08/17/20 9:45 **Sampled By:** Client

**Sample Matrix:** SHW as Reed, 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 | | | 8/17/20 15:50 | DA/DA |
| *The NYS DOH ELAP does not offer certification for this analyte.* | | | | | | |
| *(1)* SM 2540 B-2011 Total Solids | | | | | | |
| **Total Solids @ 103-105 C** | 65 | % | | | 8/18/20 | ARJ |
| *The NYS DOH ELAP does not offer certification for this analyte in this matrix.* | | | | | | |

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

# -- LABORATORY ANALYSIS REPORT --

*PACE Analytical Inc.* *Melville, NY*

**Sample ID:** Finish Compost #3 **LSL Sample ID:** 2013033-002

**Location:**

**Sampled:** 08/17/20 9:45 **Sampled By:** Client

**Sample Matrix:** SHW as Reed, 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 | | | 8/17/20 15:50 | DA/DA |
| *The NYS DOH ELAP does not offer certification for this analyte.* | | | | | | |
| *(1)* SM 2540 B-2011 Total Solids | | | | | | |
| **Total Solids @ 103-105 C** | 83 | % | | | 8/18/20 | ARJ |
| *The NYS DOH ELAP does not offer certification for this analyte in this matrix.* | | | | | | |

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

## 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<br>11/16/20 | #5<br>11/16/20 | #6<br>11/16/20 | | Permit Pre 2017 Regs.<br>Monthly Conc. (mg/kg) | Permit Post 2017 Regs.<br>Max. Conc. (mg/kg) |
|---|---|---|---|---|---|---|
| Arsenic (mg/kg) | 6.1 | 3.4 | 3.8 | | 41 | 41 |
| Cadmium (mg/kg) | 1.2 | 0.65 | 0.85 | | 10 | 10 |
| Chromium (mg/kg) | 20.5 | 12.3 | 15.9 | | 1,000 | 1,000 |
| Copper (mg/kg) | 347 | 278 | 349 | | 1,500 | 1,500 |
| Lead (mg/kg) | 53.2 | 27.3 | 32.7 | | 300 | 300 |
| Mercury (mg/kg) | 1.0 | 0.78 | 1.0 | | 10 | 10 |
| Molybdenum (mg/kg) | 4.1 | 4.2 | 5.3 | | 40 | 40 |
| Nickel (mg/kg) | 14.8 | 11.4 | 13.8 | | 200 | 200 |
| Selenium (mg/kg) | 4.6 | 4.3 | 4.5 | | 100 | 100 |
| Zinc (mg/kg) | 626 | 435 | 555 | | 2,500 | 2,500 |
| TKN (mg/kg) | 3990 | 3670 | 5020 | | | |
| Ammonia Nitrogen (mg/kg) | 4720 | 4740 | 5020 | | | |
| Nitrate (mg/kg) | 214 | 279 | 252 | | | |
| Total Phosphorus (mg/kg) | 9550 | 11800 | 10800 | | | |
| Total Potassium (mg/kg) | 3700 | 4370 | 4510 | | | |
| pH (s.u.) | 7.2 | 6.5 | 6.8 | | | |
| Total Solids ( %) | 53.6 | 57.6 | 56.6 | | | |
| Total Volatile Solids (%) | 54.2 | 65.0 | 53.9 | | | |
| Fecal Coliform (MPN/g) | 11/16/20 | 12/7/20 | 12/7/20 | | <1,000 MPN/g | |
| Salmonella sp. (MPN/4g) | <3 | <3 | <3 | | <3MPN/4g | |
| Other _____ | | | | | | |

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## ANALYTICAL RESULTS

Project: PART 360/SALMONELLA 11/16
Pace Project No.: 70153658

**Sample: FINISHED COMPOST #4** **Lab ID: 70153658002** Collected: 11/16/20 09:30 Received: 11/17/20 10:45 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP** | Analytical Method: EPA 6010C Preparation Method: EPA 3050B<br>Pace Analytical Services - Melville | | | | | | | |
| Arsenic | 5.1 | mg/kg | 0.84 | 1 | 11/24/20 12:44 | 11/25/20 10:41 | 7440-38-2 | |
| Cadmium | 1.2 | mg/kg | 0.21 | 1 | 11/24/20 12:44 | 11/25/20 10:41 | 7440-43-9 | |
| Chromium | 20.5 | mg/kg | 0.84 | 1 | 11/24/20 12:44 | 11/25/20 10:41 | 7440-47-3 | |
| Copper | 347 | mg/kg | 2.1 | 1 | 11/24/20 12:44 | 11/25/20 10:41 | 7440-50-8 | |
| Lead | 53.2 | mg/kg | 0.42 | 1 | 11/24/20 12:44 | 11/25/20 10:41 | 7439-92-1 | |
| Molybdenum | 4.1 | mg/kg | 1.7 | 1 | 11/24/20 12:44 | 11/25/20 10:41 | 7439-98-7 | |
| Nickel | 14.8 | mg/kg | 3.4 | 1 | 11/24/20 12:44 | 11/25/20 10:41 | 7440-02-0 | |
| Potassium | 3700 | mg/kg | 422 | 1 | 11/24/20 12:44 | 11/25/20 10:41 | 7440-09-7 | |
| Selenium | 4.6 | mg/kg | 0.84 | 1 | 11/24/20 12:44 | 11/25/20 10:41 | 7782-49-2 | |
| Zinc | 626 | mg/kg | 1.7 | 1 | 11/24/20 12:44 | 11/25/20 10:41 | 7440-66-6 | |
| **7471 Mercury** | Analytical Method: EPA 7471B Preparation Method: EPA 7471B<br>Pace Analytical Services - Melville | | | | | | | |
| Mercury | 1.0 | mg/kg | 0.046 | 1 | 11/30/20 11:20 | 11/30/20 14:03 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2216-05M<br>Pace Analytical Services - Melville | | | | | | | |
| Percent Moisture | 46.1 | % | 0.10 | 1 | | 11/18/20 10:46 | | |
| **2540G Total Fixed Vol Solids** | Analytical Method: SM22 2540G<br>Pace Analytical Services - Melville | | | | | | | |
| Total Solids | 53.6 | % | 0.10 | 1 | | 11/18/20 10:46 | | N3 |
| Total Volatile Solids | 54.2 | % | 0.10 | 1 | | 11/18/20 10:46 | | N3 |
| **4500PE Total Phosphorus** | Analytical Method: SM22 4500-P E Preparation Method: SM22 4500-P B<br>Pace Analytical Services - Melville | | | | | | | |
| Phosphorus | 9550 | mg/kg | 466 | 100 | 11/18/20 10:00 | 11/18/20 11:35 | 7723-14-0 | |
| **Corrosivity pH, <20% Water** | Analytical Method: EPA 9045D<br>Pace Analytical Services - Melville | | | | | | | |
| pH | 7.2 | Std. Units | 0.10 | 1 | | 11/19/20 08:54 | | H1 |
| Temperature, Water (C) | 22.6 | deg C | 0.10 | 1 | | 11/19/20 08:54 | | H1 |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 Preparation Method: EPA 350.1<br>Pace Analytical Services - Greensburg | | | | | | | |
| Nitrogen, Ammonia | 4720 | mg/kg | 53.1 | 5 | 12/01/20 08:30 | 12/01/20 14:29 | 7664-41-7 | |
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrogen, Kjeldahl, Total | 3990 | mg/kg | 116 | 5 | 12/02/20 07:30 | 12/04/20 12:45 | 7727-37-9 | |
| **9056 IC Anions 48hr** | Analytical Method: EPA 9056A Preparation Method: EPA 9056A<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrate as N | 214 | mg/kg | 91.8 | 50 | 11/20/20 19:24 | 11/21/20 06:58 | 14797-55-8 | |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: PART 360/SALMONELLA 11/16
Pace Project No.: 70153658

**Sample: FINISHED COMPOST #4** **Lab ID: 70153658002** Collected: 11/16/20 09:30 Received: 11/17/20 10:45 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **9056 IC Anions 48hr** | Analytical Method: EPA 9056A Preparation Method: EPA 9056A<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrite as N | 3.1 | mg/kg | 1.8 | 1 | 11/23/20 17:00 | 11/23/20 20:17 | 14797-65-0 | |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: PART 360/SALMONELLA 11/16
Pace Project No.: 70153658

**Sample: FINISHED COMPOST #5** **Lab ID: 70153658003** Collected: 11/16/20 09:30 Received: 11/17/20 10:45 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP** | Analytical Method: EPA 6010C Preparation Method: EPA 3050B<br>Pace Analytical Services - Melville | | | | | | | |
| Arsenic | **3.4** | mg/kg | 0.95 | 1 | 11/24/20 12:44 | 11/25/20 10:44 | 7440-38-2 | |
| Cadmium | **0.65** | mg/kg | 0.24 | 1 | 11/24/20 12:44 | 11/25/20 10:44 | 7440-43-9 | |
| Chromium | **12.3** | mg/kg | 0.95 | 1 | 11/24/20 12:44 | 11/25/20 10:44 | 7440-47-3 | |
| Copper | **278** | mg/kg | 2.4 | 1 | 11/24/20 12:44 | 11/25/20 10:44 | 7440-50-8 | |
| Lead | **27.3** | mg/kg | 0.48 | 1 | 11/24/20 12:44 | 11/25/20 10:44 | 7439-92-1 | |
| Molybdenum | **4.2** | mg/kg | 1.9 | 1 | 11/24/20 12:44 | 11/25/20 10:44 | 7439-98-7 | |
| Nickel | **11.4** | mg/kg | 3.8 | 1 | 11/24/20 12:44 | 11/25/20 10:44 | 7440-02-0 | |
| Potassium | **4370** | mg/kg | 476 | 1 | 11/24/20 12:44 | 11/25/20 10:44 | 7440-09-7 | |
| Selenium | **4.3** | mg/kg | 0.95 | 1 | 11/24/20 12:44 | 11/25/20 10:44 | 7782-49-2 | |
| Zinc | **435** | mg/kg | 1.9 | 1 | 11/24/20 12:44 | 11/25/20 10:44 | 7440-66-6 | |
| **7471 Mercury** | Analytical Method: EPA 7471B Preparation Method: EPA 7471B<br>Pace Analytical Services - Melville | | | | | | | |
| Mercury | **0.78** | mg/kg | 0.048 | 1 | 11/30/20 11:20 | 11/30/20 14:05 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2216-05M<br>Pace Analytical Services - Melville | | | | | | | |
| Percent Moisture | **42.4** | % | 0.10 | 1 | | 11/18/20 10:47 | | |
| **2540G Total Fixed Vol Solids** | Analytical Method: SM22 2540G<br>Pace Analytical Services - Melville | | | | | | | |
| Total Solids | **57.6** | % | 0.10 | 1 | | 11/18/20 10:47 | | N3 |
| Total Volatile Solids | **65.0** | % | 0.10 | 1 | | 11/18/20 10:47 | | N3 |
| **4500PE Total Phosphorus** | Analytical Method: SM22 4500-P E Preparation Method: SM22 4500-P B<br>Pace Analytical Services - Melville | | | | | | | |
| Phosphorus | **11800** | mg/kg | 432 | 100 | 11/18/20 10:00 | 11/18/20 11:35 | 7723-14-0 | |
| **Corrosivity pH, <20% Water** | Analytical Method: EPA 9045D<br>Pace Analytical Services - Melville | | | | | | | |
| pH | **6.5** | Std. Units | 0.10 | 1 | | 11/19/20 08:56 | | H1 |
| Temperature, Water (C) | **22.5** | deg C | 0.10 | 1 | | 11/19/20 08:56 | | H1 |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 Preparation Method: EPA 350.1<br>Pace Analytical Services - Greensburg | | | | | | | |
| Nitrogen, Ammonia | **4740** | mg/kg | 53.0 | 5 | 12/01/20 08:30 | 12/01/20 14:31 | 7664-41-7 | |
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrogen, Kjeldahl, Total | **3670** | mg/kg | 109 | 5 | 12/02/20 07:30 | 12/04/20 12:47 | 7727-37-9 | |
| **9056 IC Anions 48hr** | Analytical Method: EPA 9056A Preparation Method: EPA 9056A<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrate as N | **279** | mg/kg | 85.6 | 50 | 11/20/20 19:24 | 11/21/20 07:48 | 14797-55-8 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: PART 360/SALMONELLA 11/16
Pace Project No.: 70153658

**Sample: FINISHED COMPOST #5** **Lab ID: 70153658003** Collected: 11/16/20 09:30 Received: 11/17/20 10:45 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| 9056 IC Anions 48hr | Analytical Method: EPA 9056A Preparation Method: EPA 9056A<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrite as N | <1.7 | mg/kg | 1.7 | 1 | 11/23/20 17:00 | 11/23/20 20:34 | 14797-65-0 | |

## REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

# ANALYTICAL RESULTS

Project: PART 360/SALMONELLA 11/16
Pace Project No.: 70153658

**Sample: FINISHED COMPOST #6** **Lab ID: 70153658004** Collected: 11/16/20 09:30 Received: 11/17/20 10:45 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP** | Analytical Method: EPA 6010C Preparation Method: EPA 3050B<br>Pace Analytical Services - Melville | | | | | | | |
| Arsenic | **3.8** | mg/kg | 0.81 | 1 | 11/24/20 12:44 | 11/25/20 10:46 | 7440-38-2 | |
| Cadmium | **0.85** | mg/kg | 0.20 | 1 | 11/24/20 12:44 | 11/25/20 10:46 | 7440-43-9 | |
| Chromium | **15.9** | mg/kg | 0.81 | 1 | 11/24/20 12:44 | 11/25/20 10:46 | 7440-47-3 | |
| Copper | **349** | mg/kg | 2.0 | 1 | 11/24/20 12:44 | 11/25/20 10:46 | 7440-50-8 | |
| Lead | **32.7** | mg/kg | 0.41 | 1 | 11/24/20 12:44 | 11/25/20 10:46 | 7439-92-1 | |
| Molybdenum | **5.3** | mg/kg | 1.6 | 1 | 11/24/20 12:44 | 11/25/20 10:46 | 7439-98-7 | |
| Nickel | **13.8** | mg/kg | 3.3 | 1 | 11/24/20 12:44 | 11/25/20 10:46 | 7440-02-0 | |
| Potassium | **4510** | mg/kg | 407 | 1 | 11/24/20 12:44 | 11/25/20 10:46 | 7440-09-7 | |
| Selenium | **4.5** | mg/kg | 0.81 | 1 | 11/24/20 12:44 | 11/25/20 10:46 | 7782-49-2 | |
| Zinc | **555** | mg/kg | 1.6 | 1 | 11/24/20 12:44 | 11/25/20 10:46 | 7440-66-6 | |
| **7471 Mercury** | Analytical Method: EPA 7471B Preparation Method: EPA 7471B<br>Pace Analytical Services - Melville | | | | | | | |
| Mercury | **1.0** | mg/kg | 0.050 | 1 | 11/30/20 11:20 | 11/30/20 14:08 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2216-05M<br>Pace Analytical Services - Melville | | | | | | | |
| Percent Moisture | **43.4** | % | 0.10 | 1 | | 11/18/20 10:47 | | |
| **2540G Total Fixed Vol Solids** | Analytical Method: SM22 2540G<br>Pace Analytical Services - Melville | | | | | | | |
| Total Solids | **56.6** | % | 0.10 | 1 | | 11/18/20 10:47 | | N3 |
| Total Volatile Solids | **53.9** | % | 0.10 | 1 | | 11/18/20 10:47 | | N3 |
| **4500PE Total Phosphorus** | Analytical Method: SM22 4500-P E Preparation Method: SM22 4500-P B<br>Pace Analytical Services - Melville | | | | | | | |
| Phosphorus | **10800** | mg/kg | 433 | 100 | 11/18/20 10:00 | 11/18/20 11:36 | 7723-14-0 | |
| **Corrosivity pH, <20% Water** | Analytical Method: EPA 9045D<br>Pace Analytical Services - Melville | | | | | | | |
| pH | **6.8** | Std. Units | 0.10 | 1 | | 11/19/20 08:58 | | H1 |
| Temperature, Water (C) | **22.3** | deg C | 0.10 | 1 | | 11/19/20 08:58 | | H1 |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 Preparation Method: EPA 350.1<br>Pace Analytical Services - Greensburg | | | | | | | |
| Nitrogen, Ammonia | **5020** | mg/kg | 52.2 | 5 | 12/01/20 08:30 | 12/01/20 14:32 | 7664-41-7 | |
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrogen, Kjeldahl, Total | **5020** | mg/kg | 110 | 5 | 12/02/20 07:30 | 12/04/20 12:48 | 7727-37-9 | |
| **9056 IC Anions 48hr** | Analytical Method: EPA 9056A Preparation Method: EPA 9056A<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrate as N | **252** | mg/kg | 86.0 | 50 | 11/20/20 19:24 | 11/21/20 08:05 | 14797-55-8 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: PART 360/SALMONELLA 11/16
Pace Project No.: 70153658

**Sample: FINISHED COMPOST #6** **Lab ID: 70153658004** Collected: 11/16/20 09:30 Received: 11/17/20 10:45 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **9056 IC Anions 48hr** | Analytical Method: EPA 9056A Preparation Method: EPA 9056A<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrite as N | <1.7 | mg/kg | 1.7 | 1 | 11/23/20 17:00 | 11/23/20 20:51 | 14797-65-0 | |

## REPORT OF LABORATORY ANALYSIS

# - - LABORATORY ANALYSIS REPORT - -

*PACE Analytical Inc. Melville, NY*

**Sample ID:** Finish Compost #4 **LSL Sample ID:** 2018888-001

**Location:**

**Sampled:** 11/16/20 9:30 **Sampled By:** Client

**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 | | | 11/16/20 16:10 | DA/DA |
| *The NYS DOH ELAP does not offer certification for this analyte.* | | | | | | |
| (1) SM 2540 B-2011 Total Solids | | | | | | |
| **Total Solids @ 103-105 C** | 54 | % | | | 11/17/20 | ARJ |
| *The NYS DOH ELAP does not offer certification for this analyte in this matrix.* | | | | | | |

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

# -- LABORATORY ANALYSIS REPORT --

*PACE Analytical Inc.* *Melville, NY*

**Sample ID:** Compost Pile #5 **LSL Sample ID:** 2019960-001

**Location:**

**Sampled:** 12/07/20 9:30 **Sampled By:** Client

**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 | | | 12/7/20 15:50 | DA/DA |
| *The NYS DOH ELAP does not offer certification for this analyte.* | | | | | | |
| *(1)* SM 2540 B-2011 Total Solids | | | | | | |
| **Total Solids @ 103-105 C** | 53 | % | | | 12/8/20 | ARJ |
| *The NYS DOH ELAP does not offer certification for this analyte in this matrix.* | | | | | | |

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

# -- LABORATORY ANALYSIS REPORT --

*PACE Analytical Inc. Melville, NY*

**Sample ID:** Compost Pile #6 **LSL Sample ID:** 2019960-002

**Location:**

**Sampled:** 12/07/20 9:30 **Sampled By:** Client

**Sample Matrix:** SHW Dry Wt, Compost

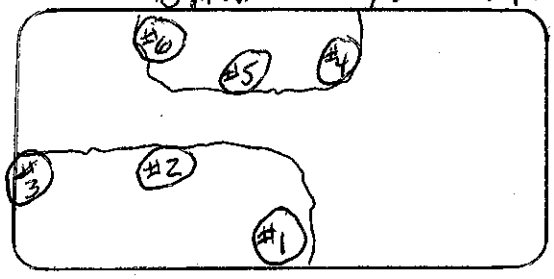
| Analytical Method / Analyte | Result | Units | Prep Method | Prep Date | Analysis Date & Time | Analyst Initials |
|---|---|---|---|---|---|---|
| (1) EPA 1682(2014) Salmonella by MSRV | | | | | | |
| Salmonella | <3 | MPN/4g Dry | | | 12/7/20 15:50 | DA/DA |
| *The NYS DOH ELAP does not offer certification for this analyte.* | | | | | | |
| (1) SM 2540 B-2011 Total Solids | | | | | | |
| Total Solids @ 103-105 C | 67 | % | | | 12/8/20 | ARJ |
| *The NYS DOH ELAP does not offer certification for this analyte in this matrix.* | | | | | | |

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

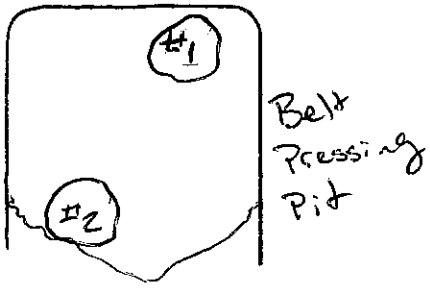
## SECTION 8 – SAMPLE MANAGEMENT

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

#1, 2, 3 - 8/17/20
#4 - 11/16/20
#5, 6 - 12/7/20




#1 - 8/17/20
#2 - 11/16/20




## 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 (X) No

If yes, please describe:

## SECTION 10 – UNAUTHORIZED WASTE

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

◯ Yes (X) No

If yes, please explain.

## 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.

None this year

## Section 12 – QUESTIONS

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

None this year

## 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.

Phillip S. Badman — Signature
1/29/21 — Date

Phillip L. Badman — Name (Print)
Chief Operator — Title (Print)

Sodus_phil_b@gmail.com — Email (Print)

14-16 Mill St — Address
Sodus — City

N.Y. 14551 — State and Zip
(315) 359-8325 — Phone Number

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

- LAB ANALYTICAL RESULTS
- COMPOST PILE LOG SHEETS
- _____

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