



TOWN OF ISLIP DEPARTMENT OF ENVIRONMENTAL CONTROL

401 MAIN STREET • ISLIP, NEW YORK 11751 • (631) 595-3630

February 10, 2020

Via email: SWMFAnnualReportR1@dec.ny.gov

Syed H. Rahman, P.E.
Regional Materials Management Engineer
NYS Department of Environmental Conservation
Division of Materials Management, Region 1
Stony Brook University
50 Circle Road
Stony Brook, NY 11790-3409

**RE: MacArthur Yard Waste Composting Facility
Permit # 1-4728-00969/00001, Facility # 52-Y-18**

Dear Mr. Rahman:

Enclosed please find the 2019 Annual Report for Facility # 52-Y-18. If you require any additional information, please contact Dr. Stuart Buckner, Director of Environmental Services at (631) 595-3500 ext. 1370.

Sincerely,

Martin J. Bellew
Commissioner

Enclosures

cc: Bureau of Waste Reduction & Recycling, NYSDEC w/enclosures (via email)
Eric Lenio, Environmental Geologist I (via email)
Dr. Stuart Buckner, Director of Environmental Services
File

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

2019
REGISTERED OR PERMITTED FACILITY ANNUAL REPORT
COMPOSTING
(DO NOT USE THIS FORM FOR BIOSOLIDS COMPOSTING)
6 NYCRR Part 361-3.2

This annual report is for the year of operation from January 01, 2019 to December 31, 2019

Annual Report Form Due: No Later than March 1, 2020

This form may be used for all composting facilities under section 361-3.2 of the Part 360 series except for biosolids composting. Biosolids composting requires the submission of a different annual report form. 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.

FACILITY NAME: MacArthur Yard Waste Composting Facility

SW FACILITY ACTIVITY NUMBER(S): (Ex. 02P20099) 52Y18

COUNTY WHERE FACILITY IS LOCATED: Suffolk

DEC USE ONLY

Region: SWIMS:
 MATRIX:

Date Reviewed:

Reviewed By:

Data Entered:

**COMPOST FACILITY ANNUAL REPORT
SECTION 1 – FACILITY INFORMATION**

| FACILITY INFORMATION | | | |
|---|-------------------------------------|--|---------------------------|
| FACILITY NAME: MacArthur Yard Waste Composting Facility | | | |
| FACILITY LOCATION ADDRESS: 1101 Railroad Avenue | FACILITY CITY: Ronkonkoma | STATE: NY | ZIP CODE: 11779 |
| FACILITY TOWN: Town of Islip | FACILITY COUNTY: Suffolk | FACILITY PHONE NUMBER: 631-467-3259 | |
| NYSDEC REGION #: 1 | | | |
| | | | |
| FACILITY CONTACT: Dr. Stuart Buckner | | CONTACT PHONE NUMBER: 631-595-3500 ext. 1370 | |
| CONTACT EMAIL ADDRESS: sbuckner@islipny.gov | | | |
| OWNER INFORMATION | | | |
| OWNER NAME: Town of Islip | | OWNER PHONE NUMBER: 631-595-3630 | |
| OWNER ADDRESS: 401 Main Street | OWNER CITY: Islip | STATE: NY | ZIP CODE: 11751 |
| OWNER CONTACT: Martin J. Bellew | | OWNER CONTACT EMAIL ADDRESS: mbellew@islipny.gov | |
| OPERATOR INFORMATION | | | |
| OPERATOR NAME: <input checked="" type="checkbox"/> Same as owner | | | |
| PREFERENCES | | | |
| Preferred address to receive correspondence: <input type="radio"/> Facility location address <input checked="" type="radio"/> Owner address <input type="radio"/> Other (provide): | | | |
| Preferred email address: <input type="radio"/> Facility Contact <input checked="" type="radio"/> Owner Contact <input type="radio"/> Other (provide): | | | |
| Preferred individual to receive correspondence: <input type="radio"/> Facility Contact <input type="radio"/> Owner <input checked="" type="radio"/> Owner Contact <input type="radio"/> Other (provide): | | | |
| Did you operate in 2019? <input checked="" type="radio"/> Yes; Complete this form. <input type="radio"/> No; Complete and submit Sections 1, 12 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, 2019 to December 31, 2019

| | Inputs | Quantity | Unit | Source(s) |
|---------------|---|----------|-------------------------|---|
| YARD WASTE | Leaves only | 16,192 | Tons (est'd) | Residents via town licensed carting companies, landscapers, town departments and Islip residents direct |
| | Grass Clippings | 10,924 | Tons (est'd) | As above except town licensed carting companies |
| | Mixture of Grass and Leaves | | | |
| | Brush (Small branches and limbs, <4 inch diameter) | 21,218 | Tons (est'd) | Residents via town licensed carting companies, landscapers, town departments and Islip residents direct |
| SSO | XXXXXX Total Yard Waste: | 48,334 | (Actual tonnages rec'd) | |
| | XXXXXX | | Choose Units | |
| OTHER | Crop Residues (Corn stalks, etc.) | | Choose Units | |
| | Manure (including bedding) | | Choose Units | |
| | Sawdust/Shavings | | Choose Units | |
| | Animal Carcasses (road-kill, animal mortalities) | | Choose Units | |
| | Paper Mill Residuals | | Choose Units | |
| | Digestate | | Choose Units | |
| | Other: _____ | | Choose Units | |
| BULKING AGENT | Woodchips (included in brush above) | | Choose Units | |
| | Sawdust | | Choose Units | |
| | Other: <u>Wood waste (tree material) and leaves (see above)</u> | | Choose Units | |

If **PERMITTED SSO** composting facility, continue to Section #5
SSO – Source Separated Organics

ALL OTHER COMPOSTING FACILITIES, continue to Section #9

SECTION 5 – PATHOGEN AND VECTOR ATTRACTION REDUCTION

For permitted SSO composting facilities only. 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
- SOUR
- Aerobic Process 14 days, $\geq 40C$, $\geq 45 C$ avg.

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 – FINISHED COMPOST ANALYSIS

For permitted SSOW composting facilities only. 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. See 361-3.9 Table 6 for pollutant limits and Table 5 for annual product testing frequency 361-3.9 Table 5.

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

| Analysis Date =====> | | | | | Max. Conc. (mg/kg) |
|---------------------------|--|--|--|--|-----------------------|
| Arsenic (mg/kg) | | | | | 41 |
| Cadmium (mg/kg) | | | | | 10 |
| Chromium (mg/kg) | | | | | 1,000 |
| Copper (mg/kg) | | | | | 1,500 |
| Lead (mg/kg) | | | | | 300 |
| Mercury (mg/kg) | | | | | 10 |
| Molybdenum (mg/kg) | | | | | 40 |
| Nickel (mg/kg) | | | | | 200 |
| Selenium (mg/kg) | | | | | 100 |
| Zinc (mg/kg) | | | | | 2,500 |
| TKN (mg/kg) | | | | | |
| Ammonia Nitrogen (mg/kg) | | | | | |
| Nitrate (mg/kg) | | | | | |
| Total Phosphorus (mg/kg) | | | | | |
| Total Potassium (mg/kg) | | | | | |
| pH (s.u.) | | | | | |
| Total Solids(%) | | | | | |
| Total Volatile Solids (%) | | | | | |
| Fecal Coliform (MPN/g) | | | | | <1,000 MPN/g |
| Salmonella (MPN/4g) | | | | | <3MPN/4g |
| Other_____ | | | | | |

SECTION 7 –SAMPLE MANAGEMENT PLAN

For permitted SSO composting facilities only. Describe the number, frequency and location of samples taken. Include a diagram showing all sampling locations.

SECTION 8 – ATTACHMENTS (IF REQUIRED)

Permitted SSO composting facilities, 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 9 – UNAUTHORIZED WASTE

Has unauthorized solid waste been received at the composting facility during the reporting period?

Yes No

If yes, give information below for each incident (attach additional sheets if necessary):

SECTION 10 – PROBLEMS/COMPLAINTS

Describe any operational problems or neighbor 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.

N/A

SECTION 11 – QUESTIONS

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

N/A

SECTION 12 – FOOD DONATION & FOOD SCRAPS RECYCLING LAW

If you are registered or permitted to compost food scraps please complete the following. For all other operations that are interested in processing food scraps, please contact your DEC regional office to determine what is required.

In 2019, New York State passed the Food Donation & Food Scraps Recycling law. Effective January 1, 2022, large generators of food scraps (defined as generating an annual average of two tons per week or more) must donate excess food and recycle all remaining food scraps if they are within 25 miles of an organics recycler (composting facility, anaerobic digester, etc.). Examples of large generators include: large restaurants, grocery stores, hotels, colleges, etc. For more information visit: <https://www.dec.ny.gov/chemical/114499.html>

Contact Information

Under this legislation, DEC is responsible for providing a list of organics recyclers (compost facilities, anaerobic digesters, etc.) to large generators so they can determine available food scraps recycling opportunities in their area.

You will be included in this listing if you hold a permit or registration for the composting of source separated organics or food scraps. This will educate both large generators and haulers of food scraps that you are an available composter in their area.

Please provide the following information to include in the listing.

Name of Business: _____

Business Phone Number: _____

Business Email: _____

Business Website: _____

I would like to opt out of DEC listing my facility as an available food scraps recycler for large generators as it relates to the Food Donation and Food Scraps Recycling law.

Assessing Your Food Scraps Recycling Capacity

DEC is responsible for assessing available food scraps recycling capacity across New York State. Information from your operation will help us do this. Please complete the following section to calculate the amount of excess food scraps your operation will have the capability to process in **2022**. Please stay consistent with units (wet tons or cubic yards).

A. Amount of foods scraps projected to be processed in **2020**: _____ Choose Unit

B. Amount of foods scraps projected to be processed in **2022**: _____ Choose Unit

* Note: You will not be required to process this quantity of material, these estimates will only be used to assist DEC in capacity planning across the state in preparation for the Food Donation and Food Scraps Recycling law effective January 1, 2022.

Questions?

| |
|------------------|
| DEC USE ONLY |
| Excess Capacity: |
| _____ |

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:

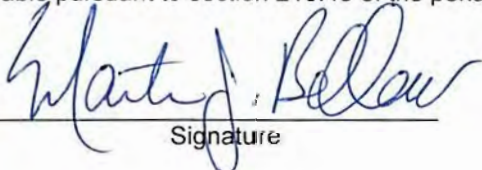
**NYS Department of Environmental Conservation
Bureau of Waste Reduction and Recycling – Annual Report
625 Broadway – 9th Floor
Albany, New York 12233-7253**

Phone: 518-402-8706

Fax 518-402-9024

Email address: organicrecycling@dec.ny.gov

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.

| | |
|---|--|
|  _____ Signature | <u>2/12/20</u> _____ Date |
| Martin J. Bellew _____ Name (Print) | Commissioner _____ Title (Print) |
| mbellew@islipny.gov _____ Email (Print) | |
| 401 Main Street _____ Address | Islip _____ City |
| New York 11751 _____ State and Zip | 631 595 3630 () - _____ Phone Number |

ATTACHMENTS: NO YES (IF YES, LIST ATTACHMENTS)

- Copy of laboratory results, January 30, 2020
- _____
- _____

SOIL CONTROL LAB

42 HANGAR WAY
WATSONVILLE
CALIFORNIA
95074
USA

Account #: 10270-2/2-1450
Group: Jan20C #2
Reporting Date: January 30, 2020

Town of Islip
401 Main Street
Islip, NY 11751
Attn: Wing Cheng

Date Received: 10 Jan. 20
Sample Identification: 01/08/2020 Market Pile 2
Sample ID #: 10270 - 2/2

| Nutrients | Dry wt. | As Rcvd. | units |
|---|---------|----------|----------|
| Total Nitrogen: | 1.4 | 0.67 | % |
| Ammonia (NH ₄ -N): | 370 | 170 | mg/kg |
| Nitrate (NO ₃ -N): | < 1.0 | < 0.5 | mg/kg |
| Org. Nitrogen (Org.-N): | 1.4 | 0.65 | % |
| Phosphorus (as P ₂ O ₅): | 0.32 | 0.15 | % |
| Phosphorus (P): | 1400 | 650 | mg/kg |
| Potassium (as K ₂ O): | 0.63 | 0.29 | % |
| Potassium (K): | 5200 | 2400 | mg/kg |
| Calcium (Ca): | 1.9 | 0.86 | % |
| Magnesium (Mg): | 0.34 | 0.16 | % |
| Sulfate (SO ₄ -S): | 1.9 | < 1.0 | mg/kg |
| Boron (Total B): | 37 | 17 | mg/kg |
| Moisture: | 0 | 53.7 | % |
| Sodium (Na): | 0.13 | 0.060 | % |
| Chloride (Cl): | 0.35 | 0.16 | % |
| pH Value: | NA | 8.02 | unit |
| Bulk Density : | 21 | 45 | lb/cu ft |
| Carbonates (CaCO ₃): | 10 | 4.6 | lb/ton |
| Conductivity (EC5): | 3.5 | NA | mmhos/cm |
| Organic Matter: | 46.1 | 21.3 | % |
| Organic Carbon: | 25.0 | 12.0 | % |
| Ash: | 53.9 | 24.9 | % |
| C/N Ratio | 17 | 17 | ratio |
| AgIndex | 5 | 5 | ratio |

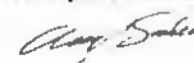
| Stability Indicator: | | | |
|--|----------------|--------------------|---------------|
| CO₂ Evolution | | Respirometry | |
| mg CO ₂ -C/g OM/day | | | 1.1 |
| mg CO ₂ -C/g TS/day | | | 0.49 |
| <i>Stability Rating</i> | | <i>very stable</i> | |
| Maturity Indicator: Cucumber Bioassay | | | |
| Compost:Vermiculite (v:v) | | | 1:2 |
| Emergence (%) | | | 100 |
| Seedling Vigor (%) | | | 107 |
| <i>Description of Plants</i> | | <i>healthy</i> | |
| Pathogens | Results | Units | Rating |
| Fecal Coliform | < 7.5 | MPN/g | <i>pass</i> |
| Salmonella | < 3 | MPN/4g | <i>pass</i> |
| Date Tested: 10 Jan. 20 | | | |
| Physical Contaminants** | | % by dry wt | |
| Total Plastic | | | 0.32 |
| Film Plastic | | | < 0.1 |
| Glass | | | < 0.1 |
| Metal | | | < 0.1 |
| Sharps | | | ND |
| Total | | | < 0.5 |

| Metals | Dry wt. | EPA Limit | units |
|------------------|---------|-----------|-------|
| Aluminum (Al): | 2500 | - | mg/kg |
| Arsenic (As): | 3.5 | 41 | mg/kg |
| Cadmium (Cd): | < 1.0 | 39 | mg/kg |
| Chromium (Cr): | 20 | - | mg/kg |
| Cobalt (Co) | 1.9 | - | mg/kg |
| Copper (Cu): | 46 | 1500 | mg/kg |
| Iron (Fe): | 4400 | - | mg/kg |
| Lead (Pb): | 27 | 300 | mg/kg |
| Manganese (Mn): | 270 | - | mg/kg |
| Mercury (Hg): | < 1.0 | 17 | mg/kg |
| Molybdenum (Mo): | 1.4 | 75 | mg/kg |
| Nickel (Ni): | 10 | 420 | mg/kg |
| Selenium (Se): | < 1.0 | 100 | mg/kg |
| Zinc (Zn): | 120 | 2800 | mg/kg |

| Size Distribution | |
|-------------------|-------------|
| MM | % by weight |
| > 50 | 0.0 |
| 25 to 50 | 0.0 |
| 16 to 25 | 0.0 |
| 9.5 to 16 | 2.4 |
| 6.3 to 9.5 | 3.3 |
| 4.0 to 6.3 | 8.3 |
| 2.0 to 4.0 | 15.2 |
| < 2.0 | 70.7 |

**Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh



*Sample was received and handled in accordance with TMECC procedures.