HIGH ACRES LANDFILL & RECYCLING CENTER
A WASTE MANAGEMENT COMPANY

425 Perinton Parkway
Fairport, New York 14450
585/223-6132
585/223-8898 (Fax)

February 4, 2020

Mr. Greg McLean, P.E.
New York State Department of
Environmental Conservation
6274 East Avon-Lima Road
Avon, New York 14414

RE: 2019 Annual Yard Waste Composting Report
High Acres Landfill & Recycling Center

Dear Mr. McLean:

Waste Management of New York, LLC is pleased to submit the attached 2019 NYSDEC Annual Yard Waste Composting Report for High Acres Landfill and Recycling Center. To the best of our knowledge, the facility has operated in accordance with all permit conditions and there have been no instances of non-compliance. Furthermore, no changes to the reports, plans, specifications, or permit conditions are being proposed as part of this annual report.

Should you have any questions, or require any additional information, please call me at (585) 223-6132.

Sincerely,

Jeffrey Richardson
Sr. District Manager

copy: NYSDEC – Central Office (SWMFannualreport@dec.ny.com)
David Cross - WMNY

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: High Acres Landfill & Recycling Center / Yard Trimmings Composting & Wood Chipping Facility

SW FACILITY ACTIVITY NUMBER(S): (Ex. 02P20099) 59PP0001

COUNTY WHERE FACILITY IS LOCATED: Monroe County

DEC USE ONLY

Region: SWIMS:

MATRIX:

Date Reviewed:

Reviewed By:

Data Entered:

COMPOST FACILITY ANNUAL REPORT

SECTION 1 – FACILITY INFORMATION

FACILITY INFORMATION			
FACILITY NAME: High Acres Landfill & Recycling Center			
FACILITY LOCATION ADDRESS: 425 Perinton Parkway	**FACILITY CITY:** Fairport	**STATE:** NY	**ZIP CODE:** 14450
FACILITY TOWN: Perinton	**FACILITY COUNTY:** Monroe	**FACILITY PHONE NUMBER:** 585-421-6210	
NYSDEC REGION #: 8			
FACILITY CONTACT: Jeffrey Richardson	**CONTACT PHONE NUMBER:** 585-421-6210		
CONTACT EMAIL ADDRESS: jrichard3@wm.com			
OWNER INFORMATION			
OWNER NAME: Jeffrey Richardson	**OWNER PHONE NUMBER:** 585-421-6210		
OWNER ADDRESS: 425 Perinton Parkway	**OWNER CITY:** Fairpoprt	**STATE:** NY	**ZIP CODE:** 14450
OWNER CONTACT: Jeffrey Richardson	**OWNER CONTACT EMAIL ADDRESS:** jrichard3@wm.com		
OPERATOR INFORMATION			
OPERATOR NAME: ☑ *Same as owner*			
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 2019? ◉ **Yes; Complete this form.**

○ **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	9,120	Tons	Monroe County, Wayne County
	Grass Clippings		Choose Units	
	Mixture of Grass and Leaves		Choose Units	
	Brush (Small branches and limbs, <4 inch diameter)	7,353	Tons	Monroe County, Ontario County,Wayne County
SSO	Source Separated Organics (Food scraps, soiled paper products, etc.)		Choose Units	
	Food Processing Waste (brewery grains, grape pomace, etc.)		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		Choose Units	
	Sawdust		Choose Units	
	Other: _____		Choose Units	

SECTION 3 – COMPOST PRODUCTION

WHAT IS THE PROCESS DETENTION TIME? ***Note: Total time material is processed, not Including storage time***	Approximately 240 **days**
COMPOST PRODUCED DURING THE YEAR:	_____ **cubic yards *or*** 6,600 **tons**
COMPOST DISTRIBUTED DURING THE YEAR:	_____ **cubic yards *or*** 118 **tons**
QUANTITY CURRENTLY STOCKPILED: ***Note: Finished product stockpiled***	_____ **cubic yards *or*** 6,482 **tons**
AGE OF OLDEST PRODUCT ON SITE:	<6 **months**

SECTION 4 – COMPOST DISTRIBUTION

Quantity Distributed (cubic yards)	Use of Compost (landscaping, agriculture, highway, onsite, bagged, etc.)
118 Tons	Municipal Projects

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, ≥40C, ≥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 =====>	3/4/2019	6/4/2019	August, 2019	12/10/2019	Max. Conc. (mg/kg)
Arsenic (mg/kg)			<4.0		41
Cadmium (mg/kg)			<0.40		10
Chromium (mg/kg)			8.6		1,000
Copper (mg/kg)			10.7		1,500
Lead (mg/kg)			19.1		300
Mercury (mg/kg)			<0.034		10
Molybdenum (mg/kg)			<2.0		40
Nickel (mg/kg)			<10.1		200
Selenium (mg/kg)			<8.1		100
Zinc (mg/kg)			59.8		2,500
TKN (mg/kg)			5430		
Ammonia Nitrogen (mg/kg)			65.2		
Nitrate (mg/kg)			<0.05		
Total Phosphorus (mg/kg)			898		
Total Potassium (mg/kg)			2570		
pH (s.u.)	5.5	8.3	8.0	7.9	
Total Solids(%)			39.5		
Total Volatile Solids (%)			40		
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

2/6/2020
Date

Jeffrey Richardson
Name (Print)

Sr. District Manager
Title (Print)

jrichard3@wm.com
Email (Print)

425 Perinton Parkway
Address

Fairport
City

NY, 14550
State and Zip

(585) 421-6210
Phone Number

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

- Analytical Laboratory Reports
-
-

Waste Management of New York, LLC
High Acres Landfill & Recycling Center

Yard Waste

Analytical Laboratory Report
Q1-2019

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-149606-1
Client Project/Site: High Acres Landfill-Quarterly Compost
Sampling Event: Quarterly Compost (2,5,11)

For:
Waste Management
425 Perinton Parkway
Fairport, New York 14450

Attn: Jeff Richardson

Authorized for release by:
3/5/2019 2:23:14 PM
Lisa Shaffer, Senior Project Manager
(716)504-9816
lisa.shaffer@testamericainc.com

Designee for

Denise Giglia, Project Manager I
(716)691-2600
denise.giglia@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Definitions/Glossary

Client: Waste Management
Project/Site: High Acres Landfill-Quarterly Compost

TestAmerica Job ID: 480-149606-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Waste Management
Project/Site: High Acres Landfill-Quarterly Compost

TestAmerica Job ID: 480-149606-1

Job ID: 480-149606-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-149606-1

Comments
No additional comments.

Receipt
The samples were received on 2/28/2019 5:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

General Chemistry
Method(s) 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples have been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: COMPOST (480-149606-1) and SSOW (480-149606-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: High Acres Landfill-Quarterly Compost

TestAmerica Job ID: 480-149606-1

Client Sample ID: COMPOST — Lab Sample ID: 480-149606-1

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	5.5	HF	0.1		SU	1		9045D	Total/NA
Temperature	22.2	HF	0.001		Degrees C	1		9045D	Total/NA

Client Sample ID: SSOW — Lab Sample ID: 480-149606-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	8.3	HF	0.1		SU	1		9045D	Total/NA
Temperature	22.4	HF	0.001		Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Waste Management
Project/Site: High Acres Landfill-Quarterly Compost

TestAmerica Job ID: 480-149606-1

Client Sample ID: COMPOST
Date Collected: 02/28/19 14:30
Date Received: 02/28/19 17:30

Lab Sample ID: 480-149606-1
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.5	HF	0.1		SU			03/04/19 13:25	1
Temperature	22.2	HF	0.001		Degrees C			03/04/19 13:25	1

Client Sample Results

Client: Waste Management
Project/Site: High Acres Landfill-Quarterly Compost

TestAmerica Job ID: 480-149606-1

Client Sample ID: SSOW
Date Collected: 02/28/19 14:30
Date Received: 02/28/19 17:30

Lab Sample ID: 480-149606-2
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.3	HF	0.1		SU			03/04/19 13:25	1
Temperature	22.4	HF	0.001		Degrees C			03/04/19 13:25	1

QC Sample Results

Client: Waste Management
Project/Site: High Acres Landfill-Quarterly Compost

TestAmerica Job ID: 480-149606-1

Method: 9045D - pH

Lab Sample ID: LCS 480-461486/1
Matrix: Solid
Analysis Batch: 461486

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.1		SU		101	99 - 101

QC Association Summary

Client: Waste Management
Project/Site: High Acres Landfill-Quarterly Compost

TestAmerica Job ID: 480-149606-1

General Chemistry

Analysis Batch: 461486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-149606-1	COMPOST	Total/NA	Solid	9045D	
480-149606-2	SSOW	Total/NA	Solid	9045D	
LCS 480-461486/1	Lab Control Sample	Total/NA	Solid	9045D	

Lab Chronicle

Client: Waste Management
Project/Site: High Acres Landfill-Quarterly Compost

TestAmerica Job ID: 480-149606-1

Client Sample ID: COMPOST

Lab Sample ID: 480-149606-1

Date Collected: 02/28/19 14:30

Matrix: Solid

Date Received: 02/28/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	461486	03/04/19 13:25	MDL	TAL BUF

Client Sample ID: SSOW

Lab Sample ID: 480-149606-2

Date Collected: 02/28/19 14:30

Matrix: Solid

Date Received: 02/28/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	461486	03/04/19 13:25	MDL	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Waste Management
Project/Site: High Acres Landfill-Quarterly Compost

TestAmerica Job ID: 480-149606-1

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Waste Management
Project/Site: High Acres Landfill-Quarterly Compost

TestAmerica Job ID: 480-149606-1

Method	Method Description	Protocol	Laboratory
9045D	pH	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Waste Management
Project/Site: High Acres Landfill-Quarterly Compost

TestAmerica Job ID: 480-149606-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-149606-1	COMPOST	Solid	02/28/19 14:30	02/28/19 17:30
480-149606-2	SSOW	Solid	02/28/19 14:30	02/28/19 17:30

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-125246-236.1
Client Contact: Mr. Roger Senf	Phone:	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #:

Address: 10 Hazelwood Drive	Due Date Requested:	
City: Amherst	TAT Requested (days):	
State, Zip: NY, 14228-2298		
Phone: 585-2236132(Tel)	PO #: Purchase Order not requir	
Email: rsenf@stl-inc.com	WO #:	
Project Name: High Acres Landfill/ Event Desc: Quarterly Compost (2,5,11)	Project #: 48002986	
Site: New York	SSOW#:	

Analysis Requested

480-149606 Chain of Custody

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9045C - pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
COMPOST	2/28/19	1430	G	Solid			1		
SSOW	2/28/19	1430	G	Solid			1		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by:	2/28/19 1730	TAL	Received by:	2/28/19 1730	GDB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-149606-1

Login Number: 149606
List Number: 1
Creator: Velickovic, Zoran

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	TAL
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Waste Management of New York, LLC
High Acres Landfill & Recycling Center

Yard Waste

Analytical Laboratory Report
Q2-2019

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-154371-1
Client Project/Site: High Acres Landfill: Qrtly Compost
Sampling Event: Quarterly Compost (2,5,11)

For:
Waste Management
425 Perinton Parkway
Fairport, New York 14450

Attn: Jeff Richardson

Authorized for release by:
6/6/2019 3:36:58 PM
Katelyn Ferguson, Project Management Assistant I
katelyn.ferguson@testamericainc.com

Designee for

Denise Giglia, Project Manager I
(716)691-2600
denise.giglia@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Definitions/Glossary

Client: Waste Management
Job ID: 480-154371-1
Project/Site: High Acres Landfill: Qrtly Compost

Qualifiers

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Waste Management
Project/Site: High Acres Landfill: Qrtly Compost

Job ID: 480-154371-1

Job ID: 480-154371-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-154371-1

Comments
No additional comments.

Receipt
The samples were received on 6/3/2019 6:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.9º C.

General Chemistry
Method(s) 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: COMPOST (480-154371-1) and SSOW (480-154371-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Job ID: 480-154371-1
Project/Site: High Acres Landfill: Qrtly Compost

Client Sample ID: COMPOST
Lab Sample ID: 480-154371-1

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	8.3	HF	0.1		SU	1		9045D	Total/NA
Temperature	20.8	HF	0.001		Degrees C	1		9045D	Total/NA

Client Sample ID: SSOW
Lab Sample ID: 480-154371-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	8.0	HF	0.1		SU	1		9045D	Total/NA
Temperature	20.9	HF	0.001		Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Waste Management
Project/Site: High Acres Landfill: Qrtly Compost

Job ID: 480-154371-1

Client Sample ID: COMPOST
Date Collected: 06/03/19 12:58
Date Received: 06/03/19 18:15

Lab Sample ID: 480-154371-1
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.3	HF	0.1		SU			06/04/19 14:04	1
Temperature	20.8	HF	0.001		Degrees C			06/04/19 14:04	1

Client Sample Results

Client: Waste Management
Job ID: 480-154371-1
Project/Site: High Acres Landfill: Qrtly Compost

Client Sample ID: SSOW
Lab Sample ID: 480-154371-2
Date Collected: 06/03/19 13:00
Matrix: Solid
Date Received: 06/03/19 18:15

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0	HF	0.1		SU			06/04/19 14:04	1
Temperature	20.9	HF	0.001		Degrees C			06/04/19 14:04	1

QC Sample Results

Client: Waste Management
Project/Site: High Acres Landfill: Qrtly Compost

Job ID: 480-154371-1

Method: 9045D - pH

Lab Sample ID: LCS 480-476160/1
Matrix: Solid
Analysis Batch: 476160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

QC Association Summary

Client: Waste Management
Job ID: 480-154371-1
Project/Site: High Acres Landfill: Qrtly Compost

General Chemistry

Analysis Batch: 476160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154371-1	COMPOST	Total/NA	Solid	9045D	
480-154371-2	SSOW	Total/NA	Solid	9045D	
LCS 480-476160/1	Lab Control Sample	Total/NA	Solid	9045D	

Lab Chronicle

Client: Waste Management
Job ID: 480-154371-1
Project/Site: High Acres Landfill: Qrtly Compost

Client Sample ID: COMPOST
Lab Sample ID: 480-154371-1
Date Collected: 06/03/19 12:58
Matrix: Solid
Date Received: 06/03/19 18:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	476160	06/04/19 14:04	CSS	TAL BUF

Client Sample ID: SSOW
Lab Sample ID: 480-154371-2
Date Collected: 06/03/19 13:00
Matrix: Solid
Date Received: 06/03/19 18:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	476160	06/04/19 14:04	CSS	TAL BUF

Laboratory References:
TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Waste Management
Job ID: 480-154371-1
Project/Site: High Acres Landfill: Qrtly Compost

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9045D		Solid	Temperature

Method Summary

Client: Waste Management
Job ID: 480-154371-1
Project/Site: High Acres Landfill: Qrtly Compost

Method	Method Description	Protocol	Laboratory
9045D	pH	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Waste Management
Job ID: 480-154371-1
Project/Site: High Acres Landfill: Qrtly Compost

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-154371-1	COMPOST	Solid	06/03/19 12:58	06/03/19 18:15	
480-154371-2	SSOW	Solid	06/03/19 13:00	06/03/19 18:15	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: TB	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128708-236.1
Client Contact: Mr. Roger Senf	Phone:	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #:

Address: 10 Hazelwood Drive	Due Date Requested:	Analysis Requested
City: Amherst	TAT Requested (days):	
State, Zip: NY, 14228-2298		
Phone: 585-2236132(Tel)	PO #: Purchase Order not requir	
Email: rsenf@stl-inc.com	WO #:	
Project Name: High Acres Landfill/ Event Desc: Quarterly Compost (2,5,11)	Project #: 48002986	
Site: New York	SSOW#:	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3

480-154371 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wewater, S=solid, O=wastefoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9045C - pH	Total Num	Special Instructions/Note:
			Preservation Code:				N		
COMPOST	6/3/19	1258	G	Solid			1		
SSOW	6/3/19	1300	G	Solid			1		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	6-3-19/1815	TAL		06/03/19 1815	
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.9 #1

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-154371-1

Login Number: 154371
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	TAL
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Waste Management of New York, LLC
High Acres Landfill & Recycling Center

Yard Waste

Analytical Laboratory Report
Q3-2019

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-157678-1
Client Project/Site: High Acres Landfill-Annual Compost
Sampling Event: Annual Compost (8)

For:
Waste Management
425 Perinton Parkway
Fairport, New York 14450

Attn: Jeff Richardson

Authorized for release by:
8/29/2019 4:41:39 PM
Katelyn Ferguson, Project Management Assistant I
katelyn.ferguson@testamericainc.com

Designee for

Denise Giglia, Project Manager I
(716)691-2600
denise.giglia@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Definitions/Glossary

Client: Waste Management
Job ID: 480-157678-1
Project/Site: High Acres Landfill-Annual Compost

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Waste Management
Project/Site: High Acres Landfill-Annual Compost

Job ID: 480-157678-1

Job ID: 480-157678-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-157678-1

Comments
No additional comments.

Receipt
The sample was received on 8/14/2019 6:50 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1º C.

GC Semi VOA
Method(s) 8081B: The following sample was diluted due to the nature of the sample matrix: COMPOST (480-157678-1). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

Method(s) 8082A: Surrogate recovery for the following sample was outside control limits: COMPOST (480-157678-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method(s) 350.1: The method blank for preparation batch 480-487839 and 480-488266 and analytical batch 480-488383 contained Ammonia above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank. COMPOST (480-157678-1)

Method(s) 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: COMPOST (480-157678-1).

Method(s) Distill/Ammonia: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: COMPOST (480-157678-1). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3550C: The following sample required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: COMPOST (480-157678-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Job ID: 480-157678-1
Project/Site: High Acres Landfill-Annual Compost

Client Sample ID: COMPOST
Lab Sample ID: 480-157678-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	8.6		1.0		mg/Kg	1	☼	6010C	Total/NA
Copper	10.7		2.0		mg/Kg	1	☼	6010C	Total/NA
Lead	19.1		2.0		mg/Kg	1	☼	6010C	Total/NA
Potassium	2570		60.7		mg/Kg	1	☼	6010C	Total/NA
Zinc	59.8		4.0		mg/Kg	1	☼	6010C	Total/NA
Total Kjeldahl Nitrogen	5430		291		mg/Kg	15	☼	351.2	Total/NA
pH	8.0	HF	0.1		SU	1		9045D	Total/NA
Temperature	21.6	HF	0.001		Degrees C	1		9045D	Total/NA
Total Solids	39.5	B	0.020		%	1		SM 2540G	Total/NA
Total Volatile Solids	40.0	B	0.15		%	1		SM 2540G	Total/NA
Phosphorus	898		14.6		mg/Kg	20	☼	SM 4500 P E	Total/NA
Ammonia	65.2	B	0.82		mg/Kg	1	☼	350.1	ASTM Leach

This Detection Summary does not include radiochemical test results.

Client Sample ID: COMPOST

Date Collected: 08/14/19 14:00
Date Received: 08/14/19 18:50

Lab Sample ID: 480-157678-1

Matrix: Solid
Percent Solids: 48.8

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		170		ug/Kg	☼	08/20/19 07:22	08/22/19 12:08	50
4,4'-DDE	ND		170		ug/Kg	☼	08/20/19 07:22	08/22/19 12:08	50
4,4'-DDT	ND		170		ug/Kg	☼	08/20/19 07:22	08/22/19 12:08	50
Aldrin	ND		170		ug/Kg	☼	08/20/19 07:22	08/22/19 12:08	50
alpha-BHC	ND		170		ug/Kg	☼	08/20/19 07:22	08/22/19 12:08	50
beta-BHC	ND		170		ug/Kg	☼	08/20/19 07:22	08/22/19 12:08	50
Chlordane (technical)	ND		1700		ug/Kg	☼	08/20/19 07:22	08/22/19 12:08	50
delta-BHC	ND		170		ug/Kg	☼	08/20/19 07:22	08/22/19 12:08	50
Dieldrin	ND		170		ug/Kg	☼	08/20/19 07:22	08/22/19 12:08	50
Endosulfan I	ND		170		ug/Kg	☼	08/20/19 07:22	08/22/19 12:08	50
Endosulfan II	ND		170		ug/Kg	☼	08/20/19 07:22	08/22/19 12:08	50
Endosulfan sulfate	ND		170		ug/Kg	☼	08/20/19 07:22	08/22/19 12:08	50
Endrin	ND		170		ug/Kg	☼	08/20/19 07:22	08/22/19 12:08	50
Endrin aldehyde	ND		170		ug/Kg	☼	08/20/19 07:22	08/22/19 12:08	50
gamma-BHC (Lindane)	ND		170		ug/Kg	☼	08/20/19 07:22	08/22/19 12:08	50
Heptachlor	ND		170		ug/Kg	☼	08/20/19 07:22	08/22/19 12:08	50
Heptachlor epoxide	ND		170		ug/Kg	☼	08/20/19 07:22	08/22/19 12:08	50
Methoxychlor	ND		170		ug/Kg	☼	08/20/19 07:22	08/22/19 12:08	50
Toxaphene	ND		1700		ug/Kg	☼	08/20/19 07:22	08/22/19 12:08	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X*	*30 - 124*	*08/20/19 07:22*	*08/22/19 12:08*	*50*
DCB Decachlorobiphenyl	*0*	*X*	*45 - 120*	*08/20/19 07:22*	*08/22/19 12:08*	*50*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Polychlorinated biphenyls, Total	ND		480		ug/Kg	☼	08/16/19 15:39	08/18/19 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*51*	*X*	*65 - 174*	*08/16/19 15:39*	*08/18/19 17:57*	*1*
Tetrachloro-m-xylene	*55*	*X*	*60 - 154*	*08/16/19 15:39*	*08/18/19 17:57*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.40		mg/Kg	☼	08/19/19 06:00	08/19/19 12:44	1
Chromium	**8.6**		1.0		mg/Kg	☼	08/19/19 06:00	08/19/19 12:44	1
Copper	**10.7**		2.0		mg/Kg	☼	08/19/19 06:00	08/19/19 12:44	1
Lead	**19.1**		2.0		mg/Kg	☼	08/19/19 06:00	08/19/19 18:50	1
Arsenic	ND		4.0		mg/Kg	☼	08/19/19 06:00	08/19/19 12:44	1
Molybdenum	ND		2.0		mg/Kg	☼	08/19/19 06:00	08/19/19 12:44	1
Nickel	ND		10.1		mg/Kg	☼	08/19/19 06:00	08/19/19 12:44	1
Potassium	**2570**		60.7		mg/Kg	☼	08/19/19 06:00	08/19/19 12:44	1
Selenium	ND		8.1		mg/Kg	☼	08/19/19 06:00	08/19/19 12:44	1
Zinc	**59.8**		4.0		mg/Kg	☼	08/19/19 06:00	08/19/19 12:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.034		mg/Kg	☼	08/27/19 14:43	08/27/19 17:40	1

Client Sample Results

Client: Waste Management
Project/Site: High Acres Landfill-Annual Compost

Job ID: 480-157678-1

Client Sample ID: COMPOST
Date Collected: 08/14/19 14:00
Date Received: 08/14/19 18:50

Lab Sample ID: 480-157678-1
Matrix: Solid
Percent Solids: 48.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	5430		291		mg/Kg	☼	08/27/19 17:55	08/28/19 13:12	15
Total Solids	39.5	B	0.020		%			08/15/19 16:47	1
Total Volatile Solids	40.0	B	0.15		%			08/15/19 16:47	1
Phosphorus	898		14.6		mg/Kg	☼	08/16/19 11:44	08/17/19 10:00	20

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0	HF	0.1		SU			08/15/19 09:50	1
Temperature	21.6	HF	0.001		Degrees C			08/15/19 09:50	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.99		mg/Kg	☼		08/19/19 17:17	1
Nitrite as N	ND		0.99		mg/Kg	☼		08/19/19 17:17	1
Nitrate as N	ND		0.050		mg/Kg			08/19/19 17:17	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	65.2	B	0.82		mg/Kg	☼	08/22/19 07:15	08/22/19 14:22	1

Surrogate Summary

Client: Waste Management
Project/Site: High Acres Landfill-Annual Compost

Job ID: 480-157678-1

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCBP2
Lab Sample ID	Client Sample ID	(30-124)	(45-120)
480-157678-1	COMPOST	0 X	0 X
LCS 480-487841/2-A	Lab Control Sample	51	86
MB 480-487841/1-A	Method Blank	47	97

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(65-174)	(60-154)
480-157678-1	COMPOST	51 X	55 X
LCS 480-487515/2-A	Lab Control Sample	129	96
MB 480-487515/1-A	Method Blank	133	103

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-487841/1-A
Matrix: Solid
Analysis Batch: 488243

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 487841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.7		ug/Kg		08/20/19 07:22	08/22/19 10:29	1
4,4'-DDE	ND		1.7		ug/Kg		08/20/19 07:22	08/22/19 10:29	1
4,4'-DDT	ND		1.7		ug/Kg		08/20/19 07:22	08/22/19 10:29	1
Aldrin	ND		1.7		ug/Kg		08/20/19 07:22	08/22/19 10:29	1
alpha-BHC	ND		1.7		ug/Kg		08/20/19 07:22	08/22/19 10:29	1
beta-BHC	ND		1.7		ug/Kg		08/20/19 07:22	08/22/19 10:29	1
Chlordane (technical)	ND		17		ug/Kg		08/20/19 07:22	08/22/19 10:29	1
delta-BHC	ND		1.7		ug/Kg		08/20/19 07:22	08/22/19 10:29	1
Dieldrin	ND		1.7		ug/Kg		08/20/19 07:22	08/22/19 10:29	1
Endosulfan I	ND		1.7		ug/Kg		08/20/19 07:22	08/22/19 10:29	1
Endosulfan II	ND		1.7		ug/Kg		08/20/19 07:22	08/22/19 10:29	1
Endosulfan sulfate	ND		1.7		ug/Kg		08/20/19 07:22	08/22/19 10:29	1
Endrin	ND		1.7		ug/Kg		08/20/19 07:22	08/22/19 10:29	1
Endrin aldehyde	ND		1.7		ug/Kg		08/20/19 07:22	08/22/19 10:29	1
gamma-BHC (Lindane)	ND		1.7		ug/Kg		08/20/19 07:22	08/22/19 10:29	1
Heptachlor	ND		1.7		ug/Kg		08/20/19 07:22	08/22/19 10:29	1
Heptachlor epoxide	ND		1.7		ug/Kg		08/20/19 07:22	08/22/19 10:29	1
Methoxychlor	ND		1.7		ug/Kg		08/20/19 07:22	08/22/19 10:29	1
Toxaphene	ND		17		ug/Kg		08/20/19 07:22	08/22/19 10:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*47*		*30 - 124*	*08/20/19 07:22*	*08/22/19 10:29*	*1*
DCB Decachlorobiphenyl	*97*		*45 - 120*	*08/20/19 07:22*	*08/22/19 10:29*	*1*

Lab Sample ID: LCS 480-487841/2-A
Matrix: Solid
Analysis Batch: 488243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 487841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.4	14.7		ug/Kg		89	56 - 120
4,4'-DDE	16.4	13.1		ug/Kg		80	44 - 120
4,4'-DDT	16.4	12.4		ug/Kg		76	38 - 120
Aldrin	16.4	10.0		ug/Kg		61	38 - 120
alpha-BHC	16.4	9.01		ug/Kg		55	39 - 120
beta-BHC	16.4	12.0		ug/Kg		73	40 - 120
delta-BHC	16.4	10.3		ug/Kg		63	45 - 120
Dieldrin	16.4	13.5		ug/Kg		82	58 - 120
Endosulfan I	16.4	12.7		ug/Kg		77	49 - 120
Endosulfan II	16.4	11.9		ug/Kg		72	55 - 120
Endosulfan sulfate	16.4	13.7		ug/Kg		83	49 - 124
Endrin	16.4	13.8		ug/Kg		84	58 - 120
Endrin aldehyde	16.4	14.5		ug/Kg		88	37 - 121
gamma-BHC (Lindane)	16.4	10.5		ug/Kg		64	50 - 120
Heptachlor	16.4	13.9		ug/Kg		84	50 - 120
Heptachlor epoxide	16.4	13.0		ug/Kg		79	50 - 120
Methoxychlor	16.4	19.5		ug/Kg		119	58 - 133

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-487841/2-A
Matrix: Solid
Analysis Batch: 488243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 487841

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	*51*		*30 - 124*
DCB Decachlorobiphenyl	*86*		*45 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-487515/1-A
Matrix: Solid
Analysis Batch: 487579

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 487515

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Polychlorinated biphenyls, Total	ND		240		ug/Kg		08/16/19 15:39	08/18/19 15:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*133*		*65 - 174*	*08/16/19 15:39*	*08/18/19 15:36*	*1*
Tetrachloro-m-xylene	*103*		*60 - 154*	*08/16/19 15:39*	*08/18/19 15:36*	*1*

Lab Sample ID: LCS 480-487515/2-A
Matrix: Solid
Analysis Batch: 487579

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 487515

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	*129*		*65 - 174*
Tetrachloro-m-xylene	*96*		*60 - 154*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-487237/1-A
Matrix: Solid
Analysis Batch: 487777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 487237

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.19		mg/Kg		08/19/19 06:00	08/19/19 11:47	1
Chromium	ND		0.47		mg/Kg		08/19/19 06:00	08/19/19 11:47	1
Copper	ND		0.95		mg/Kg		08/19/19 06:00	08/19/19 11:47	1
Lead	ND		0.95		mg/Kg		08/19/19 06:00	08/19/19 11:47	1
Arsenic	ND		1.9		mg/Kg		08/19/19 06:00	08/19/19 11:47	1
Molybdenum	ND		0.95		mg/Kg		08/19/19 06:00	08/19/19 11:47	1
Nickel	ND		4.7		mg/Kg		08/19/19 06:00	08/19/19 11:47	1
Potassium	ND		28.4		mg/Kg		08/19/19 06:00	08/19/19 11:47	1
Selenium	ND		3.8		mg/Kg		08/19/19 06:00	08/19/19 11:47	1
Zinc	ND		1.9		mg/Kg		08/19/19 06:00	08/19/19 11:47	1

Lab Sample ID: LCSSRM 480-487237/2-A
Matrix: Solid
Analysis Batch: 487777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 487237

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	153	129.9		mg/Kg		84.9	68.6 - 115.0

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-487237/2-A
Matrix: Solid
Analysis Batch: 487777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 487237

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	179	154.0		mg/Kg		86.0	65.4 - 121.2
Copper	113	95.09		mg/Kg		84.2	71.4 - 118.6
Lead	74.5	74.23		mg/Kg		99.6	67.8 - 130.3
Arsenic	221	185.1		mg/Kg		83.8	63.8 - 119.0
Molybdenum	116	99.65		mg/Kg		85.9	62.5 - 115.5
Nickel	98.0	93.96		mg/Kg		95.9	63.8 - 118.4
Potassium	2630	2298		mg/Kg		87.4	51.7 - 119.0
Selenium	54.4	44.90		mg/Kg		82.5	53.3 - 130.0
Zinc	281	237.7		mg/Kg		84.6	65.8 - 122.4

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-488888/1-A
Matrix: Solid
Analysis Batch: 489114

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 488888

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.019		mg/Kg		08/27/19 14:43	08/27/19 17:24	1

Lab Sample ID: LCSSRM 480-488888/2-A ^5
Matrix: Solid
Analysis Batch: 489114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 488888

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Hg	4.85	3.04		mg/Kg		62.6	46.0 - 107.0

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-488266/1-A
Matrix: Solid
Analysis Batch: 488383

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 488266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.169		0.020		mg/Kg		08/22/19 07:15	08/22/19 14:08	1

Lab Sample ID: LCS 480-488266/2-A
Matrix: Solid
Analysis Batch: 488383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 488266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.950		mg/Kg		95	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: MB 480-487839/1-B
Matrix: Solid
Analysis Batch: 488011

Client Sample ID: Method Blank
Prep Type: ASTM Leach
Prep Batch: 487844

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	3.22		0.40		mg/Kg		08/20/19 07:00	08/21/19 06:41	1

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-489117/1-A
Matrix: Solid
Analysis Batch: 489270

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489117

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		9.7		mg/Kg		08/27/19 17:55	08/28/19 11:07	1

Lab Sample ID: LCS 480-489117/2-A
Matrix: Solid
Analysis Batch: 489270

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 489117

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	124	117.8		mg/Kg		95	90 - 110

Lab Sample ID: 480-157678-1 MS
Matrix: Solid
Analysis Batch: 489270

Client Sample ID: COMPOST
Prep Type: Total/NA
Prep Batch: 489117

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	5430		99.4	4957	4	mg/Kg	☼	-475	90 - 110

Lab Sample ID: 480-157678-1 DU
Matrix: Solid
Analysis Batch: 489270

Client Sample ID: COMPOST
Prep Type: Total/NA
Prep Batch: 489117

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Kjeldahl Nitrogen	5430		4136	F3	mg/Kg	☼	27	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 480-487807/4
Matrix: Solid
Analysis Batch: 487807

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/Kg			08/19/19 17:03	1

Lab Sample ID: LCS 480-487807/5
Matrix: Solid
Analysis Batch: 487807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.50	1.53		mg/Kg		102	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: MB 480-487531/1-A
Matrix: Solid
Analysis Batch: 487533

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/Kg			08/16/19 20:56	1

Lab Sample ID: 480-157678-1 MS
Matrix: Solid
Analysis Batch: 487807

Client Sample ID: COMPOST
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	ND		19.8	19.22		mg/Kg	☼	94	90 - 110

Lab Sample ID: 480-157678-1 DU
Matrix: Solid
Analysis Batch: 487807

Client Sample ID: COMPOST
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	ND		ND		mg/Kg	☼	NC	20

Method: 9045D - pH

Lab Sample ID: LCS 480-487294/1
Matrix: Solid
Analysis Batch: 487294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Method: SM 2540G - Total, Fixed, and Volatile Solids

Lab Sample ID: MB 480-487321/1
Matrix: Solid
Analysis Batch: 487321

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids	99.91		0.020		%			08/15/19 16:47	1
Total Volatile Solids	0.359		0.15		%			08/15/19 16:47	1

Lab Sample ID: 480-157678-1 DU
Matrix: Solid
Analysis Batch: 487321

Client Sample ID: COMPOST
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Solids	39.5	B	38.87		%		2	10
Total Volatile Solids	40.0	B	42.59		%		6	10

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 480-487451/1-A
Matrix: Solid
Analysis Batch: 487452

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 487451

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	ND		0.35		mg/Kg		08/16/19 11:44	08/17/19 10:00	1

Client: Waste Management
Project/Site: High Acres Landfill-Annual Compost

Job ID: 480-157678-1

Method: SM 4500 P E - Phosphorus

Lab Sample ID: LCSSRM 480-487451/2-A
Matrix: Solid
Analysis Batch: 487452

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 487451

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	1170	732.5		mg/Kg		62.6	23.0 - 159.0

QC Association Summary

Client: Waste Management
Project/Site: High Acres Landfill-Annual Compost

Job ID: 480-157678-1

GC Semi VOA

Prep Batch: 487515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157678-1	COMPOST	Total/NA	Solid	3550C	
MB 480-487515/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-487515/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 487579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157678-1	COMPOST	Total/NA	Solid	8082A	487515
MB 480-487515/1-A	Method Blank	Total/NA	Solid	8082A	487515
LCS 480-487515/2-A	Lab Control Sample	Total/NA	Solid	8082A	487515

Prep Batch: 487841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157678-1	COMPOST	Total/NA	Solid	3550C	
MB 480-487841/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-487841/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 488243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157678-1	COMPOST	Total/NA	Solid	8081B	487841
MB 480-487841/1-A	Method Blank	Total/NA	Solid	8081B	487841
LCS 480-487841/2-A	Lab Control Sample	Total/NA	Solid	8081B	487841

Metals

Prep Batch: 487237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157678-1	COMPOST	Total/NA	Solid	3050B	
MB 480-487237/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-487237/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 487777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157678-1	COMPOST	Total/NA	Solid	6010C	487237
MB 480-487237/1-A	Method Blank	Total/NA	Solid	6010C	487237
LCSSRM 480-487237/2-A	Lab Control Sample	Total/NA	Solid	6010C	487237

Analysis Batch: 487838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157678-1	COMPOST	Total/NA	Solid	6010C	487237

Prep Batch: 488888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157678-1	COMPOST	Total/NA	Solid	7471B	
MB 480-488888/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-488888/2-A ^5	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 489114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157678-1	COMPOST	Total/NA	Solid	7471B	488888
MB 480-488888/1-A	Method Blank	Total/NA	Solid	7471B	488888
LCSSRM 480-488888/2-A ^5	Lab Control Sample	Total/NA	Solid	7471B	488888

General Chemistry

Analysis Batch: 487294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157678-1	COMPOST	Total/NA	Solid	9045D	
LCS 480-487294/1	Lab Control Sample	Total/NA	Solid	9045D	

Analysis Batch: 487321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157678-1	COMPOST	Total/NA	Solid	SM 2540G	
MB 480-487321/1	Method Blank	Total/NA	Solid	SM 2540G	
480-157678-1 DU	COMPOST	Total/NA	Solid	SM 2540G	

Prep Batch: 487451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157678-1	COMPOST	Total/NA	Solid	SM 4500 P B	
MB 480-487451/1-A	Method Blank	Total/NA	Solid	SM 4500 P B	
LCSSRM 480-487451/2-A	Lab Control Sample	Total/NA	Solid	SM 4500 P B	

Analysis Batch: 487452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157678-1	COMPOST	Total/NA	Solid	SM 4500 P E	487451
MB 480-487451/1-A	Method Blank	Total/NA	Solid	SM 4500 P E	487451
LCSSRM 480-487451/2-A	Lab Control Sample	Total/NA	Solid	SM 4500 P E	487451

Analysis Batch: 487463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157678-1	COMPOST	Total/NA	Solid	Moisture	

Leach Batch: 487531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157678-1	COMPOST	Soluble	Solid	DI Leach	
MB 480-487531/1-A	Method Blank	Soluble	Solid	DI Leach	
480-157678-1 MS	COMPOST	Soluble	Solid	DI Leach	
480-157678-1 DU	COMPOST	Soluble	Solid	DI Leach	

Analysis Batch: 487533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-487531/1-A	Method Blank	Soluble	Solid	353.2	487531

Analysis Batch: 487807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157678-1	COMPOST	Soluble	Solid	353.2	487531
MB 480-487807/4	Method Blank	Total/NA	Solid	353.2	
LCS 480-487807/5	Lab Control Sample	Total/NA	Solid	353.2	
480-157678-1 MS	COMPOST	Soluble	Solid	353.2	487531
480-157678-1 DU	COMPOST	Soluble	Solid	353.2	487531

Analysis Batch: 487809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157678-1	COMPOST	Soluble	Solid	Nitrate by calc	

Leach Batch: 487839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157678-1	COMPOST	ASTM Leach	Solid	D3987-85	

General Chemistry (Continued)

Leach Batch: 487839 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-487839/1-B	Method Blank	ASTM Leach	Solid	D3987-85	

Prep Batch: 487844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-487839/1-B	Method Blank	ASTM Leach	Solid	Distill/Ammonia	487839

Analysis Batch: 487929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157678-1	COMPOST	Soluble	Solid	353.2	487531

Analysis Batch: 488011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-487839/1-B	Method Blank	ASTM Leach	Solid	350.1	487844

Prep Batch: 488266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157678-1	COMPOST	ASTM Leach	Solid	Distill/Ammonia	487839
MB 480-488266/1-A	Method Blank	Total/NA	Solid	Distill/Ammonia	
LCS 480-488266/2-A	Lab Control Sample	Total/NA	Solid	Distill/Ammonia	

Analysis Batch: 488383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157678-1	COMPOST	ASTM Leach	Solid	350.1	488266
MB 480-488266/1-A	Method Blank	Total/NA	Solid	350.1	488266
LCS 480-488266/2-A	Lab Control Sample	Total/NA	Solid	350.1	488266

Prep Batch: 489117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157678-1	COMPOST	Total/NA	Solid	351.2	
MB 480-489117/1-A	Method Blank	Total/NA	Solid	351.2	
LCS 480-489117/2-A	Lab Control Sample	Total/NA	Solid	351.2	
480-157678-1 MS	COMPOST	Total/NA	Solid	351.2	
480-157678-1 DU	COMPOST	Total/NA	Solid	351.2	

Analysis Batch: 489270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157678-1	COMPOST	Total/NA	Solid	351.2	489117
MB 480-489117/1-A	Method Blank	Total/NA	Solid	351.2	489117
LCS 480-489117/2-A	Lab Control Sample	Total/NA	Solid	351.2	489117
480-157678-1 MS	COMPOST	Total/NA	Solid	351.2	489117
480-157678-1 DU	COMPOST	Total/NA	Solid	351.2	489117

Lab Chronicle

Client: Waste Management
Job ID: 480-157678-1
Project/Site: High Acres Landfill-Annual Compost

Client Sample ID: COMPOST
Lab Sample ID: 480-157678-1
Date Collected: 08/14/19 14:00
Matrix: Solid
Date Received: 08/14/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	487294	08/15/19 09:50	CSS	TAL BUF
Total/NA	Analysis	Moisture		1	487463	08/16/19 12:28	MDH	TAL BUF
Soluble	Analysis	Nitrate by calc		1	487809	08/19/19 17:17	BEF	TAL BUF
Total/NA	Analysis	SM 2540G		1	487321	08/15/19 16:47	CSS	TAL BUF

Client Sample ID: COMPOST
Lab Sample ID: 480-157678-1
Date Collected: 08/14/19 14:00
Matrix: Solid
Date Received: 08/14/19 18:50
Percent Solids: 48.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			487841	08/20/19 07:22	SMP	TAL BUF
Total/NA	Analysis	8081B		50	488243	08/22/19 12:08	JLS	TAL BUF
Total/NA	Prep	3550C			487515	08/16/19 15:39	ATG	TAL BUF
Total/NA	Analysis	8082A		1	487579	08/18/19 17:57	DSC	TAL BUF
Total/NA	Prep	3050B			487237	08/19/19 06:00	EMB	TAL BUF
Total/NA	Analysis	6010C		1	487777	08/19/19 12:44	AMH	TAL BUF
Total/NA	Prep	3050B			487237	08/19/19 06:00	EMB	TAL BUF
Total/NA	Analysis	6010C		1	487838	08/19/19 18:50	LMH	TAL BUF
Total/NA	Prep	7471B			488888	08/27/19 14:43	BMB	TAL BUF
Total/NA	Analysis	7471B		1	489114	08/27/19 17:40	BMB	TAL BUF
ASTM Leach	Leach	D3987-85			487839	08/18/19 14:26	CLT	TAL BUF
ASTM Leach	Prep	Distill/Ammonia			488266	08/22/19 07:15	CLT	TAL BUF
ASTM Leach	Analysis	350.1		1	488383	08/22/19 14:22	CLT	TAL BUF
Total/NA	Prep	351.2			489117	08/27/19 17:55	LAW	TAL BUF
Total/NA	Analysis	351.2		15	489270	08/28/19 13:12	KEB	TAL BUF
Soluble	Leach	DI Leach			487531	08/16/19 18:00	BEF	TAL BUF
Soluble	Analysis	353.2		1	487807	08/19/19 17:17	BEF	TAL BUF
Soluble	Leach	DI Leach			487531	08/16/19 18:00	BEF	TAL BUF
Soluble	Analysis	353.2		1	487929	08/19/19 17:17	KMF	TAL BUF
Total/NA	Prep	SM 4500 P B			487451	08/16/19 11:44	EAG	TAL BUF
Total/NA	Analysis	SM 4500 P E		20	487452	08/17/19 10:00	EAG	TAL BUF

Laboratory References:

Biotrax = Biotrax Testing Lab, Inc, 3580 Harlem Road, Floor 2, Cheektowaga, NY 14215

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Waste Management
Job ID: 480-157678-1
Project/Site: High Acres Landfill-Annual Compost

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
350.1	Distill/Ammonia	Solid	Ammonia
351.2	351.2	Solid	Total Kjeldahl Nitrogen
353.2		Solid	Nitrate Nitrite as N
353.2		Solid	Nitrite as N
6010C	3050B	Solid	Arsenic
6010C	3050B	Solid	Cadmium
6010C	3050B	Solid	Chromium
6010C	3050B	Solid	Copper
6010C	3050B	Solid	Lead
6010C	3050B	Solid	Molybdenum
6010C	3050B	Solid	Nickel
6010C	3050B	Solid	Potassium
6010C	3050B	Solid	Selenium
6010C	3050B	Solid	Zinc
7471B	7471B	Solid	Hg
8081B	3550C	Solid	4,4'-DDD
8081B	3550C	Solid	4,4'-DDE
8081B	3550C	Solid	4,4'-DDT
8081B	3550C	Solid	Aldrin
8081B	3550C	Solid	alpha-BHC
8081B	3550C	Solid	beta-BHC
8081B	3550C	Solid	Chlordane (technical)
8081B	3550C	Solid	delta-BHC
8081B	3550C	Solid	Dieldrin
8081B	3550C	Solid	Endosulfan I
8081B	3550C	Solid	Endosulfan II
8081B	3550C	Solid	Endosulfan sulfate
8081B	3550C	Solid	Endrin
8081B	3550C	Solid	Endrin aldehyde
8081B	3550C	Solid	gamma-BHC (Lindane)
8081B	3550C	Solid	Heptachlor
8081B	3550C	Solid	Heptachlor epoxide
8081B	3550C	Solid	Methoxychlor
8081B	3550C	Solid	Toxaphene
8082A	3550C	Solid	Polychlorinated biphenyls, Total
9045D		Solid	pH
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids
Nitrate by calc		Solid	Nitrate as N
SM 2540G		Solid	Total Solids
SM 2540G		Solid	Total Volatile Solids
SM 4500 P E	SM 4500 P B	Solid	Phosphorus

Method Summary

Client: Waste Management
Job ID: 480-157678-1
Project/Site: High Acres Landfill-Annual Compost

Method	Method Description	Protocol	Laboratory
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
9045D	pH	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	TAL BUF
SM 2540G	Total, Fixed, and Volatile Solids	SM	TAL BUF
SM 4500 P E	Phosphorus	SM	TAL BUF
Subcontract	Colilert	None	Biotrax
Subcontract	General Subcontract Method	None	Biotrax
3050B	Preparation, Metals	SW846	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
7471B	Preparation, Mercury	SW846	TAL BUF
D3987-85	ASTM Leaching Procedure	ASTM	TAL BUF
DI Leach	Deionized Water Leaching Procedure	ASTM	TAL BUF
Distill/Ammonia	Distillation, Ammonia	None	TAL BUF
SM 4500 P B	Phosphorous, Total and Ortho	SM	TAL BUF

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

Biotrax = Biotrax Testing Lab, Inc, 3580 Harlem Road, Floor 2, Cheektowaga, NY 14215
TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Waste Management
Project/Site: High Acres Landfill-Annual Compost

Job ID: 480-157678-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-157678-1	COMPOST	Solid	08/14/19 14:00	08/14/19 18:50	

Quantitation Limit Exceptions Summary

Client: Waste Management
Job ID: 480-157678-1
Project/Site: High Acres Landfill-Annual Compost

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
8082A	Polychlorinated biphenyls, Total	Solid	Total/NA	ug/Kg	17	250
350.1	Ammonia	Solid	ASTM Leach	mg/Kg	0.40	4.0
SM 2540G	Total Solids	Solid	Total/NA	%	0.020	0.15

BIOTRAX
3580 Harlem Road
Cheektowaga NY 14215

Certificate of Analysis

Report Date	8/22/2019
Report Number	35049
Total Pages	1
Analysis Date	8/15/2019
Analysis Time	1216
LOG # / PO# Project	480-157878-1

Analyst: EL

Name / Address
Eurofins Test America, Inc 10 Hazelwood Drive Amherst, NY 14228 Attn:Sally Hoffman-

Laboratory Analysis Report

Test ID	Analytical Method & Analysis	Results / Units	Verified Date ...
1682 Salm	Salmonella Species in Compost / Biosolid Method- EPA 1682 Sample .....Compost Sample Date & Time.....6-14-2019 1400 Sample Plated Date & Time ...8-15-2019 1216 Results Interpretation MPN / 4g Dry Weight	<1 MPN / 4g Dry Weight	8-19-2019 1300
BSF Fecal	Fecal Coliform Determination in Solids/ Bio-solids Method- IDEXX Colilert-18 MDL (<1 to > 100,00 CFU) % Solids .....65 % Sample .....Compost Sample Date & Time.....6-14-2019 1400 Sample Plated Date & Time ...8-15-2019 1216 Chlorine Residual.....NA <4 degrees C / On Ice	318 CFu / g	8-16-2019 1000

This report is issued under the authority of the analysts listed above. This report only relates to the samples which was tested. Interpretation of these results is the sole responsibility of the client. This report shall not be reproduced except in full, without the written approval of the laboratory [* Denotes samples have expired test hold time]
NYSDOH and NELAC ID 11660

Sample Dilution:
<1 CFU= No Dilution
<10 CFU=1:10 Dilution
<100 CFU = 1:100 Dilution

Reviewed By: Edward J. Lukaszek

Edward J Lukaszek
Laboratory Director

Phone #	716-651-0146	Form CC-01
Fax #	716-242-3010	www.biotrax.net
E-mail	edward@biotrax.net	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: TB/SO	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-133068-29964.1
Client Contact: Timothy Bly	Phone:	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc				Job #:

Address: 10 Hazelwood Drive	Due Date Requested:
City: Amherst	TAT Requested (days):
State, Zip: NY, 14228	
Phone: 585-2236132(Tel)	PO #: Purchase Order Requested
Email: timothy.bly@testamericainc.com	WO #:
Project Name: High Acres Landfill/ Event Desc: Annual Compost (8)	Project #: 48002986
Site: New York	SSOW#:

Analysis Requested

Preservation Codes: A - HCL, M - Hexane, N - None, L - EDA, Other:

480-157678 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	4500_P_E, Nitrate_Calc	SUBCONTRACT - EPA 1682 - Salmonella	Nitrate_Calc - Nitrate as N	350.1, 353.2, 353.2_Nitrite	9045D - (MOD) Local Method	6010C, 7471B	8081B, 8082A	351.2 - Total Kjeldahl Nitrogen	2540G - Total Solids	9221E - Coliform, Fecal			Total Number of containe	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	N	N	N				
COMPOST	8/14/19	1400	G	Solid			1	1	1	2	1	1	1	0	1	1				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
S.OZ	08-14-19 1840	TAL			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8-14-19 1850	Company TAS

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 3.1

Ver. 01/16/2019

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-157678-1

Login Number: 157678
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	TAL
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Waste Management of New York, LLC
High Acres Landfill & Recycling Center

Yard Waste

Analytical Laboratory Report
Q4-2019

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-163777-1
Client Project/Site: High Acres Landfill: Qrtly Compost
Sampling Event: Quarterly Compost (2,5,11)

For:
Waste Management
425 Perinton Parkway
Fairport, New York 14450

Attn: Jeff Richardson

Authorized for release by:
12/13/2019 4:49:08 PM
Lisa Shaffer, Senior Project Manager
(716)504-9816
lisa.shaffer@testamericainc.com

Designee for

Denise Giglia, Project Manager I
(716)691-2600
denise.giglia@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Definitions/Glossary

Client: Waste Management
Job ID: 480-163777-1
Project/Site: High Acres Landfill: Qrtly Compost

Qualifiers

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Waste Management
Project/Site: High Acres Landfill: Qrtly Compost

Job ID: 480-163777-1

Job ID: 480-163777-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-163777-1

Comments
No additional comments.

Receipt
The samples were received on 12/5/2019 7:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7º C.

General Chemistry
Method 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples have been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: COMPOST (480-163777-1) and SSOW (480-163777-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Job ID: 480-163777-1
Project/Site: High Acres Landfill: Qrtly Compost

Client Sample ID: COMPOST
Lab Sample ID: 480-163777-1

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.9	HF	0.1		SU	1		9045D	Total/NA
Temperature	18.2	HF	0.001		Degrees C	1		9045D	Total/NA

Client Sample ID: SSOW
Lab Sample ID: 480-163777-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.2	HF	0.1		SU	1		9045D	Total/NA
Temperature	18.2	HF	0.001		Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Waste Management
Project/Site: High Acres Landfill: Qrtly Compost

Job ID: 480-163777-1

Client Sample ID: COMPOST
Date Collected: 12/05/19 12:35
Date Received: 12/05/19 19:20

Lab Sample ID: 480-163777-1
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9	HF	0.1		SU			12/10/19 12:15	1
Temperature	18.2	HF	0.001		Degrees C			12/10/19 12:15	1

Client Sample Results

Client: Waste Management
Project/Site: High Acres Landfill: Qrtly Compost

Job ID: 480-163777-1

Client Sample ID: SSOW
Date Collected: 12/05/19 12:33
Date Received: 12/05/19 19:20

Lab Sample ID: 480-163777-2
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.2	HF	0.1		SU			12/10/19 12:15	1
Temperature	18.2	HF	0.001		Degrees C			12/10/19 12:15	1

QC Sample Results

Client: Waste Management
Project/Site: High Acres Landfill: Qrtly Compost

Job ID: 480-163777-1

Method: 9045D - pH

Lab Sample ID: LCS 480-509141/1
Matrix: Solid
Analysis Batch: 509141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

QC Association Summary

Client: Waste Management
Job ID: 480-163777-1
Project/Site: High Acres Landfill: Qrtly Compost

General Chemistry

Analysis Batch: 509141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163777-1	COMPOST	Total/NA	Solid	9045D	
480-163777-2	SSOW	Total/NA	Solid	9045D	
LCS 480-509141/1	Lab Control Sample	Total/NA	Solid	9045D	

Lab Chronicle

Client: Waste Management
Job ID: 480-163777-1
Project/Site: High Acres Landfill: Qrtly Compost

Client Sample ID: COMPOST
Lab Sample ID: 480-163777-1
Date Collected: 12/05/19 12:35
Matrix: Solid
Date Received: 12/05/19 19:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	509141	12/10/19 12:15	CSS	TAL BUF

Client Sample ID: SSOW
Lab Sample ID: 480-163777-2
Date Collected: 12/05/19 12:33
Matrix: Solid
Date Received: 12/05/19 19:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	509141	12/10/19 12:15	CSS	TAL BUF

Laboratory References:
TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Waste Management
Job ID: 480-163777-1
Project/Site: High Acres Landfill: Qrtly Compost

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-20

Method Summary

Client: Waste Management
Job ID: 480-163777-1
Project/Site: High Acres Landfill: Qrtly Compost

Method	Method Description	Protocol	Laboratory
9045D	pH	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Waste Management
Project/Site: High Acres Landfill: Qrtly Compost

Job ID: 480-163777-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-163777-1	COMPOST	Solid	12/05/19 12:35	12/05/19 19:20	
480-163777-2	SSOW	Solid	12/05/19 12:33	12/05/19 19:20	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: TB/EA	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-136847-236.1
Client Contact: Mr. Roger Senf	Phone:	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #:

Address: 10 Hazelwood Drive	Due Date Requested:
City: Amherst	TAT Requested (days):
State, Zip: NY, 14228-2298	
Phone: 585-2236132(Tel)	PO #: Purchase Order not requir
Email: rsenf@stl-inc.com	WO #:
Project Name: High Acres Landfill/ Event Desc: Quarterly Compost (2,5,11)	Project #: 48002986
Site: New York	SSOW#:

Analysis Requested

480-163777 Chain of Custody

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9045C - pH												Total Num	Special Instructions/Note:
			Preservation Code:				N													
COMPOST	12/5/19	1235	G	Solid			1													
SSOW	12/5/19	1233	G	Solid			1													

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 12-5-19/1920	Company: TAL	Received by:	Date/Time: 12/5/19 1920	Company: TAB
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 3.7

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-163777-1

Login Number: 163777
List Number: 1
Creator: Harper, Marcus D

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	TABUF
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	