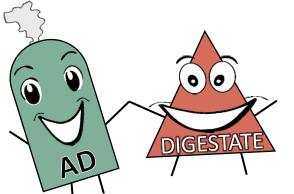
Regulation in New York State:

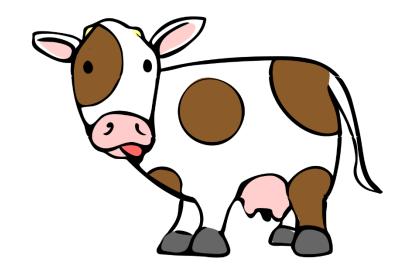
Anaerobic Digestion

NEWMOA Staff Workshop May 11, 2017

Sally Rowland, Ph.D., P.E.
Organics Reduction and Recycling
Division of Materials Management
NYSDEC



Regulation of Anaerobic Digestion and Digestate



Big Issues for AD

- PR & VAR? Required?
- Digestate stability
- Analyses of digestate?
- Storage of digestate?
- Digestate use
 - Sufficient market
 - Management
- Contaminants in waste food

Part 360: Regulation of AD and Digestate depends on:



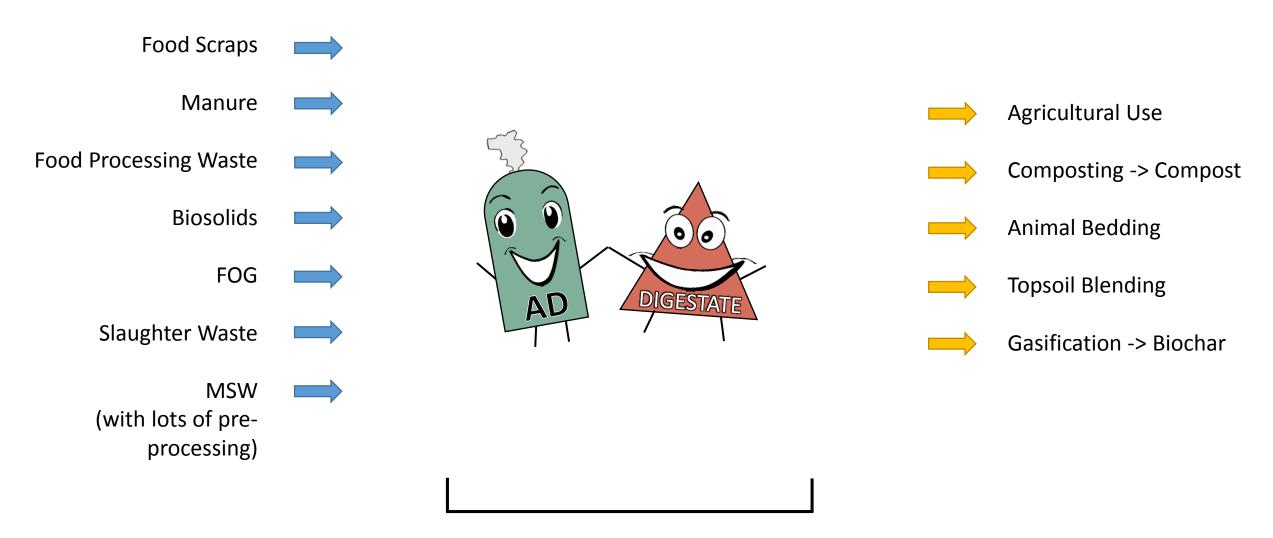
Waste inputs to the AD



Digestate use



Location of the AD



LOCATION

- At site of generation
- Farm

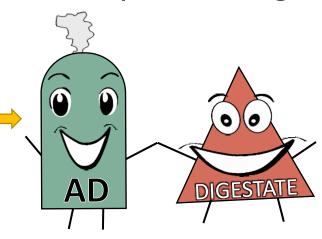
- Wastewater treatment plant
- Regional

AD located at the site of generation (no off-site inputs)





Part 360: AD is exempt from regulation



Digestate:

Food processing waste: Registration for land application (except for CAFO)

Registration for composting

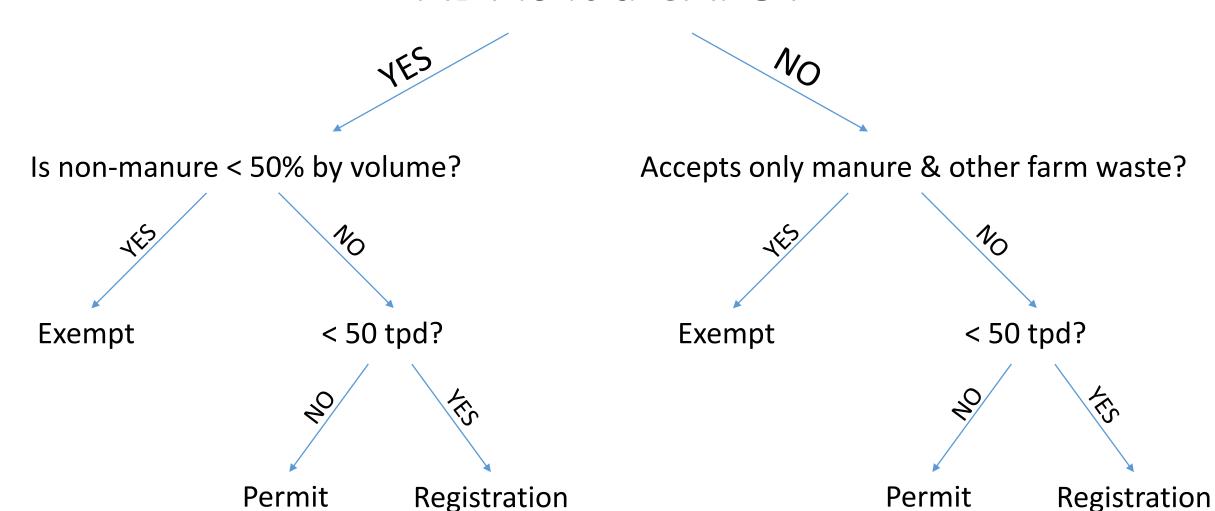
Manure: Exempt

AD Located on a Farm





AD: Is it a CAFO?



AD on a Farm: Digestate Use



Only farm waste accepted

Use of digestate for land application, bedding, composting: Exempt

Farm waste & other wastes (other waste < 50% by volume):

Use of digestate for land application, bedding, composting: Exempt

AD on a Farm: Digestate Use





Registered AD (< 50 tpd, > 50% by volume off-site waste):

Bedding – exempt

Land application – registration unless CAFO

Composting – registration

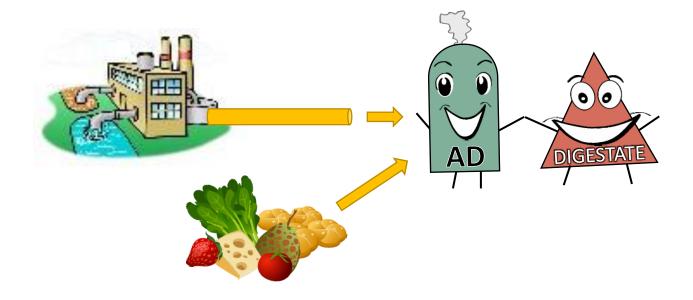
Permitted AD (> 50 tpd, > 50% by volume off-site waste):

Bedding – exempt

Land application – registration

Composting – registration

AD at Wastewater Treatment Plants (POTWs)



AD: Exempt under Part 360 (covered by SPDES)

Digestate (Whether AD takes off-site organics or not): handled under biosolids regulations (360-4&5)

AD: Regional Facility



ANY biosolids, etc: AD is permitted under 360-5

Digestate: Regulated as biosolids (360-4&5)

AD: Regional Facility



- < 50 tpd --> Registration
- > 50 tpd --> Permit

Digestate:

Registered AD: land application – registration unless CAFO

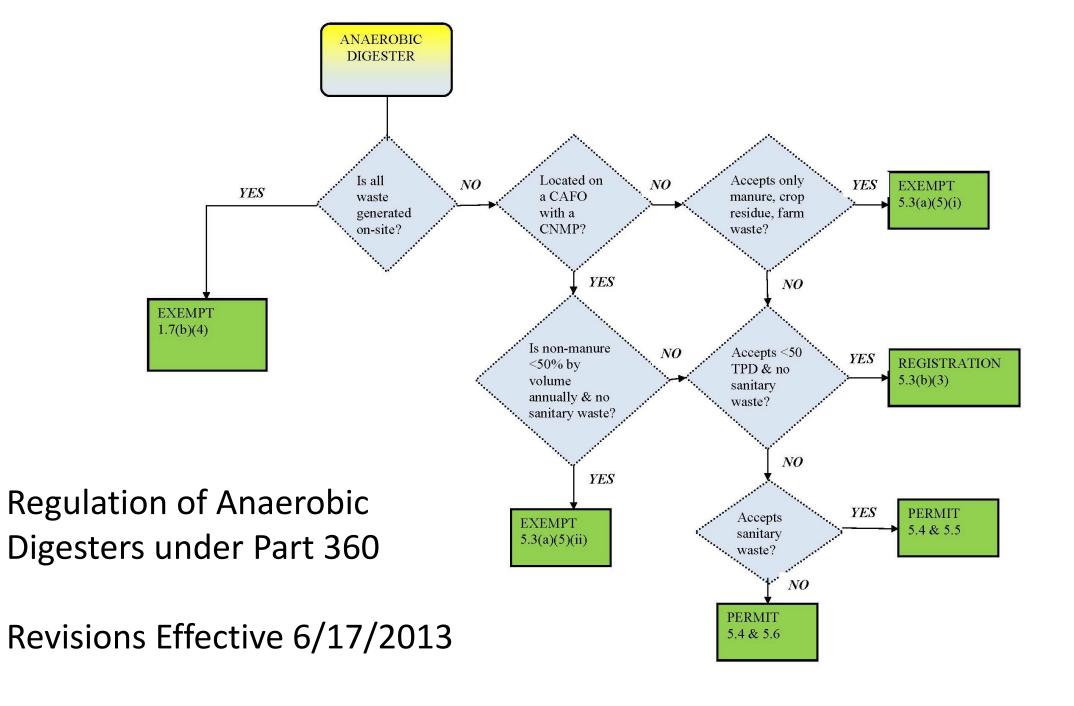
bedding - exempt

composting – registration

Permitted AD: land application – registration

bedding – exempt

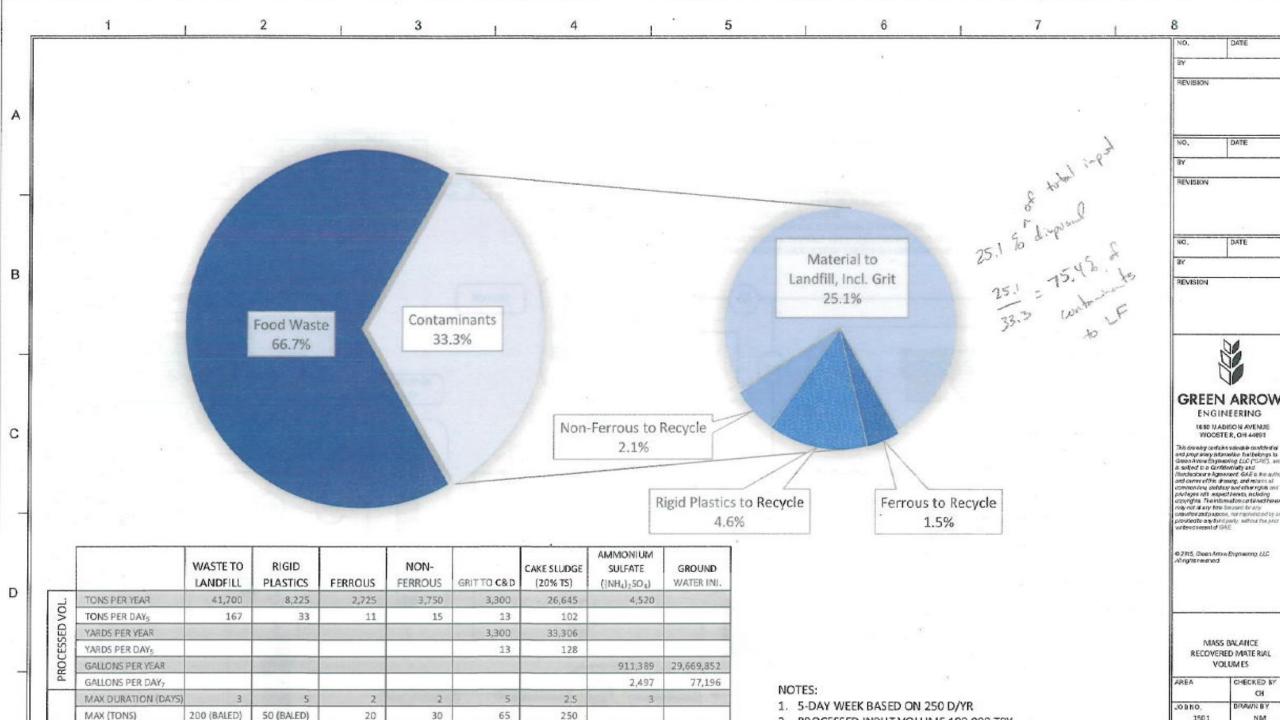
composting – registration



American Organic Energy

Long Island

600 tons per day



800.0V 20.01 10" & OVER 105 100 GROSS CONTAMINATION 800 REVISION VISUAL SORT LANDFILL WHEEL LOADER VISUAL SORT LANDFILL 121 131 BAGS (PLASTIC FILM), PAPER (OCC) DATE 110 2.75 INCH BALLISTIC HEAVY/ VISUAL SORT BALER/RDF TROMMEL LIGHT SORT REVISION 120 B REVISION 2.75-10" 125 115 535,1 WALKING FLOOR FREE LIQUIDS RIGID PLASTICS, GLASS BOTTLES, FULL TUNA 130 DOSING CONVEYOR FINES FISH CANS, SOUP CANS, GALLON BOTTLE OF AND BAG OPENER 168. ORGANICS UNDERS -MAYO, SLEDGE HAMMER HD ORGANICS **GREEN ARROW** RETURN TO TROMMEL TO 135 ENGINEERING COMPLETELY SEPARATE ORGANICS 1680 MADISON AVENUE 140 C WOOSTER, OH 44691 WACKERBAUER This downing contains valued in confidential and programmy information tradesimps to dispose a resolution of the programmy for the confidential parallel and confidentially and a facilities of a facilities of the confidential and contains a facilities of mainty, and relations of 126.1 535.1 168.2 and connectifies drawing, and retions of connections solidates and alter rights and plantages sets respect hereto, including appropries. The internations out discord mean may not as any from the same the large arounds and powerse, not reproduce of by air provided in any finding large site of the writtens present of GAE. 768.4 01,2 190 764.5 4.0 **EDDY CURRENT** SHREDDER NIR OPTICAL SORT MAGNET ©29/5, Gwan Arow Enymening (LC 20.0 102.1 116.0 All rights reserved TOMATO BOUT 180 170 150 160 D VISUAL SORT METALS, FULL FULL CANS/ CANS/BOTTLES SSO PROCESSING BOTTLES/ **DRGANICS** 155 CHECKED BY 185 FREE LIQUIDS 175 145 AREA CH RECYCLE 10.14 DRAWNBY JOBNO. 16.0 30.6 NM 1501 **EVERYTHING ELSE** RECYCLE **FERROUS** SCALE DATE N.T.5. 08/18/15 E LANDFILL DWGNO. BALER/RECYCLE **NON-FERROUS** 0120-001 RIGID PLASTICS SHEET NO.

