Greater MN Organics Collection

Pope & Douglas Counties

July 11-13, 2023 – MN Composting Council
Compost Operators Training @ Mystic Event Center (SMSC)
Pope/Douglas Solid Waste Management serves 7 counties across Minnesota.
Facilities/Programs Timeline

- 1983: Joint Powers Board Formed
- 1987: Original Waste-to-Energy Facility
- 1993: Household Hazardous Waste & Admin Building
- 1997: Recycling DropOff Center
- 2003: Material Processing Facility
- 2010: Wasteto Energy Facility Expansion (3rd Combustor)
- 2017: Organics Recycling Programs
- 2020: Organics Transfer Station
- 2022: Glacial Ridge Compost Facility
- 2021: Metal Recovery Facility
- 2023: Environmental Center
- 2024: Materials Recovery Facility
Undesirables in the Garbage

- Food waste has a low BTU value at the Waste to Energy Plant
- Landfilling creating excess leachate and GHG concerns
- Food waste gums up the MRF conveyers and trommel
- PDSWM processes ~80,000 tons of solid waste from Pope, Douglas, Grant, Stevens, Stearns, Benton, Sherburne
- Generate ~10,000 tons of fines
Resource Recovery Facilities Support

Counties and Minnesota Waste Combustion Facilities

- Facilities which combust municipal solid waste
- Facilities which combust refuse derived fuel
- Facilities which make refuse derived fuel
- Medical Waste

NOTE: All colored areas depict waste sheds for specific facilities.

LaCrosse, Wisconsin LFO RDF Facility serves Winona, Fillmore, and Houston Counties

Updated September, 2016
Playing our role in the waste management hierarchy

WASTE MANAGEMENT HIERARCHY

1. WASTE REDUCTION/REUSE
2. WASTE RECYCLING
3. COMPOSTING
4. WASTE-TO-ENERGY (Resource Recovery)
5. LAND DISPOSAL
Organics Recycling: Pre-Pilot

- Pre-Pilot Program – Spring 2016
  - Minnewaska Area High School
  - 2 weeklong sorting/study to make recommendations for eventual roll-out
Organics Recycling: The Beginning

- Pilot Program – 2017
  - Partially paid for with (MPCA) Greater MN EA Grant (2016-2018)
  - 4 schools to start
2016-2018 Grant

- MPCA Environmental Assistance Grant - $250K
  - Match $84K, Total Project $333K
- Develop school organics program – started with 4 schools
- Nursing homes, care facilities, hospitals
- Community awareness, trainings, workshops
- Develop transportation capacity
- Investigate setting up small composting sites
You're Invited!!

Pope/Douglas Solid Waste Management and Sanimax

Invite You

to an

Informational Presentation
Question & Answer Session

on

Setting up Organics Recycling at Commercial Businesses

When: Wednesday, June 22nd - 9:00 a.m. until 10:00 a.m.
Where: City of Alexandria City Hall—City Council Chamber Room
601 Broadway Street, Alexandria, MN

Ample Parking in Municipal Parking Lot behind City Hall
Hot Coffee/Water and Pastries will be served

For more information contact Pope/Douglas Solid Waste Management
320/763-9340 or www.popedouglasrecycle.com
District 206 – ‘After Organics’

- ‘Sanimax’ Organics Recycling Pickup
- 3 yd dumpster (fits 2,500-3,000 lbs of Organics)
- $70.00/service. No taxes or other fees.
- Comes out to $50.00 per ton.
- Organics makes up about 30% of the School’s Waste Stream.

*Sanimax required a minimum of three 65 g and 95 g Toters per placement

<table>
<thead>
<tr>
<th>Container Description</th>
<th>Pounds Per Container (AVG)</th>
<th>Price Per Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 YD steel with poly lid</td>
<td>2,500 – 3,000</td>
<td>$89.00</td>
</tr>
<tr>
<td>4 YD steel with poly lid</td>
<td>2,800 – 4,000</td>
<td>$94.00</td>
</tr>
<tr>
<td>65 Gal Toter with lid and liner</td>
<td>220</td>
<td>$52.00 *</td>
</tr>
</tbody>
</table>

* Sanimax required a minimum of three 65 g and 95 g Toters per placement
Sanimax Pricing Sheet and Customer Reporting Log Sheet: Pope/Douglas Counties

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<tbody>
<tr>
<td>3 YD steel with poly lid</td>
<td>2,500 – 3,000 (avg: 2,750 lbs)</td>
<td>$89.00/service ‘pickup’</td>
</tr>
<tr>
<td>4 YD steel with poly lid</td>
<td>2,800 – 4,000 (avg: 3,400 lbs)</td>
<td>$94.00/service ‘pickup’</td>
</tr>
<tr>
<td>3 - 65 Gal Toter with lid and liner</td>
<td>220</td>
<td>$52.00 /service ‘pickup’</td>
</tr>
</tbody>
</table>

Sanimax Reporting of Organics Recycling customers would be sent to PDSWM for payment ‘offset’ to the customer.
Sanimax would send log info to PDSWM on a monthly basis (by the 7th calendar day of each month from the previous month’s calculations).
PDSWM would pay offset/reimbursement to Sanimax customer quarterly.

PDSWM Payment info based on Sanimax Organics Recycling Log Sheet.

<table>
<thead>
<tr>
<th>Date</th>
<th>Customer</th>
<th>3 - 65 Gallon</th>
<th>25</th>
<th>50</th>
<th>75</th>
<th>100</th>
<th>3 yard</th>
<th>25</th>
<th>50</th>
<th>75</th>
<th>100</th>
<th>4 yard</th>
<th>25</th>
<th>50</th>
<th>75</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>*7/25/16</td>
<td>Warrant</td>
<td>qty</td>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>**7/25/16</td>
<td>Woodland School</td>
<td>1</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>***7/25/16</td>
<td>Osakis School</td>
<td>1</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Osakis Schools (District 213) Offset Payment from PDSWM to District 213 would be calculated as follows:**

They have 1 - 4 yard dumpster.
Dumpster 1: 100% full. 3,400 lbs x 2,000 = 1.7 tons
1.7 tons x $30/ton ‘offset’ = $51.00 (‘offset’)

**PAYMENT/REIMBURSEMENT to District 213: $51.00**

($94.00/service ‘pickup’) - $51.00 = $43.00/service ‘pickup’ for Organics Recycling Service
Hit the First Snag

- Sanimax serviced Wal-Mart and 4 schools
- Truck capacity issues with Sanimax
- Lack of composting infrastructure
- Could not grow program

- Sanimax notified Pope/Douglas and schools that they were discontinuing their service in our area on June 2017 (would be continuing Class B ‘non-meat’ with only Wal-Marts)
- Back to the drawing board...
Hauling Truck Cooperative Solution

- Modified Env Assistance Grant to purchase rear load garbage truck
- Addressed hauler sensitivities and other real or perceived concerns
- Cooperative system
- Truck/carts/stickers branding to not identify contracted hauler
- Contracted hauler to serve any location – no matter what
- Restrictions on communication/stealing customers
- Hauler requirement to provide leads to Pope/Douglas
- Haulers to work with customers to reduce MSW pickup/right size
- 65 & 95 gallons carts
- 2 yd dumpsters
- Otto
- 45 gallon carts ordered late 2022 to right size need and use
Commercial Collection

- 80-100 customers – variation w/seasonal locations
- Need more restaurants to participate
- Solid Waste Ordinances being updated (3+ years)
Co-collection Pilot

- 2 year pilot study
- Pope/Douglas/Grant provided grants for 2 year pilot test program
  - Osakis (600 hh) – 97 hh signed up
  - Glenwood (1,300 hh) – 134 hh signed up
  - Elbow Lake (561 hh)
- Easier to implement due to single hauler – contracted by city
- On-going education and communication
- Collect feedback from pilot participants: telephone survey
HOUSEHOLD CURBSIDE

ORGANICS RECYCLING

SIGN UP TODAY!

AND RECEIVE OUR FREE RECYCLING BAGS

IT'S EASY...

RECYCLE WASTE...

AND PLACE AT CURB!

PUT WASTE IN ITS PLACE

207-765-9340 or 900-972-0418

WWW.POPEDOUGLASRECYCLE.COM

Tips for Source Separated Organics at Home

Organics Co-Collection Program

Your guide to source separated organics recycling at home.

Osakis

Elbow Lake

Glenwood

Resources

City of Osakis

1321 Jefferson St
Osakis, MN 56570

Phone: 765-9340
Website: osakinm.org

Elbow Lake

1260 1st Ave N
Elbow Lake, MN 56439

Phone: 765-9340
Website: elbowlakemn.org

Glenwood

300 2nd St N
Glenwood, MN 56334

Phone: 765-9340
Website: glenwoodmn.org

www.organismn.com

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Household Organics Recycling

It's Here. It's Easy. Sign up!

Put Waste In Its Place!
PopeDouglasRecycle.com

Household Organics Recycling
Join Your Neighbors in creating less waste and a sustainable community!
Sign up: pope douglasrecycle.com
320/763-9340

Already Signed Up?
Here are a few tips:

- Check the acceptable items for organics recycling list received in your welcome kit
- Tie a sturdy knot on the top of your green bag before placing it in your trash can
- Place tied green bag on top of your other trash within your trash can
- Do not place the green bag on top of your trash can
Drop Sites

- 9 community based/supported sites
- Collected weekly
- Schedule cart cleaning rotation
- Uniform look and feel
- Standardized signs/brochures
- Starter kits – collection bin/bags/brochure
Zero Waste Events

- Targeted events for greater impact
- Buy-in and acceptance
- BPI compostable supplies/bins
- Green Warrior Program
Organics Transfer & Facility Development
2018-2021 Grant

- MPCA Environmental Assistance Grant - $250K
  - Match $137K, Total Project $387K
- Glacial Ridge Regional Organics Composting Phase I Facility Development and Community Outreach
- Regional approach to growth
- Pope/Douglas, Grant, Stevens, Otter Tail
- Mass growth
- Transfer Capacity
- Hub and Spoke
Organics Transfer Station

- Phase 1 of Glacial Ridge Compost Facility
  - Capacity to transfer up to 1,000 tons/year
  - Partially paid for with (MPCA) Greater MN EA Grant (2018-2020)
Glacial Ridge Compost Facility

- Why go through the hassle?
  - SCORE – increase recycling access and rate
  - Regional Collaboration
    - Pope/Douglas, Tri-County, Grant, Stevens, Otter Tail
    - Long term MSW delivery contracts – ‘bread and butter’
  - Managing organics to a higher use aligns with Solid Waste Plan and MPCA overall goals of increasing access throughout the state
Glacial Ridge Compost Facility

- CAP (Capital Assistance Program)
  - Phase I Bonding - $5 Million State Contribution
    - Environmental Center (HHW/Recycling/Problem Materials/Education/Administration)
    - Scale House (Shipping/Receiving, Truck Scale/Internal Roads & Queuing Areas)
    - Regional Organics Composting Facility (Office/Processing Facility)
Glacial Ridge Compost Facility

- Intensive research on type of facility to build
  - Low capital/high labor?
  - High capital/low labor?
  - O&M
- WLSSD comparison: 12,000 TPY (45 tons/operating day)
- Right-sizing facility
- Expect minimum of 2,000 tons in the short term and growing to projections of 10,000 tons – including ground up yard trimmings/wood chips
Glacial Ridge Compost Facility

- Local/regional processing
  - In control of our collective destiny
  - Local source of finished compost
Glacial Ridge Compost Facility

- Local/regional processing
  - Ability to expand facility as programs grow
Glacial Ridge Compost Facility

- Summer of 2022 (Officially opened September)
  - Site Security
  - Fine-tuning automation systems
  - Finishing concrete pours
Getting the organics dropped at GRCF

- Commercial organics collection
- Community organics drop sites
- Regional county partners
Plate to Garden Events

- High profile events for organics awareness
- Building confidence in compost end-use
Committed Partners
Compost End-Use

- Goal: Develop county compost use requirement
- Goal: Produce biochar with partner/mix with composting process
- Goal: Professionally bagged compost/market to garden centers
- Goal: MN DOT supplier/vendor setup
- Goal: Shovel your own compost @ Env Center
- Goal: Rental of top-spreader to households
Glacial Ridge Compost Facility

- Special thank you for all those who helped lead us on a good path!
  - SMSC, WLSSD, Swift, SET, Mississippi Topsoils, Creekside
  - Engineered Compost Systems
  - MPCA
  - MN Composting Council
  - US Composting Council
Questions?
- Nathan Reinbold – Environmental Programs Mgr
  - nathan@popedouglasrecycle.com
  - 320/763-9340 or 218/831-3515
  - popedouglasrecycle.com
- Steve Vrchota – Director

Thank You!

Put Waste In Its Place!