

# Cleanit Greenit Going Forward

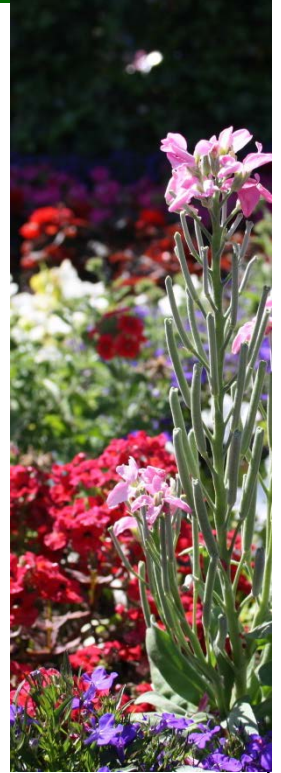
Kirstin Castro-Wunsch, P.Eng., CEO



CLEANIT GREENIT  
COMPOSTING SYSTEM INC.

Alberta Capital Airshed  
Odour Management Workshop

March 2013



# Outline

- Who we are
- Background
- Odour Management Plan
- Summary
- Questions & Answers



# Who we are

## Advanced Enviro Engineering Ltd.

Permitted environmental engineering firm  
specializing in waste management



## Cleanit Greenit Composting System Inc.

- Provides organic recycling services to ICI & municipal sector
- Produces a line of grade A compost-based landscape products, under



# Mission and Vision

Cleanit Greenit Composting System Inc. is committed to:

-  **Manufacturing organics into a line of organic products that add value to the customer and the environment.**


## **Vision**

-  We create success for business and environment. Our success comes from protecting the environment that provides us with the resources to do business.



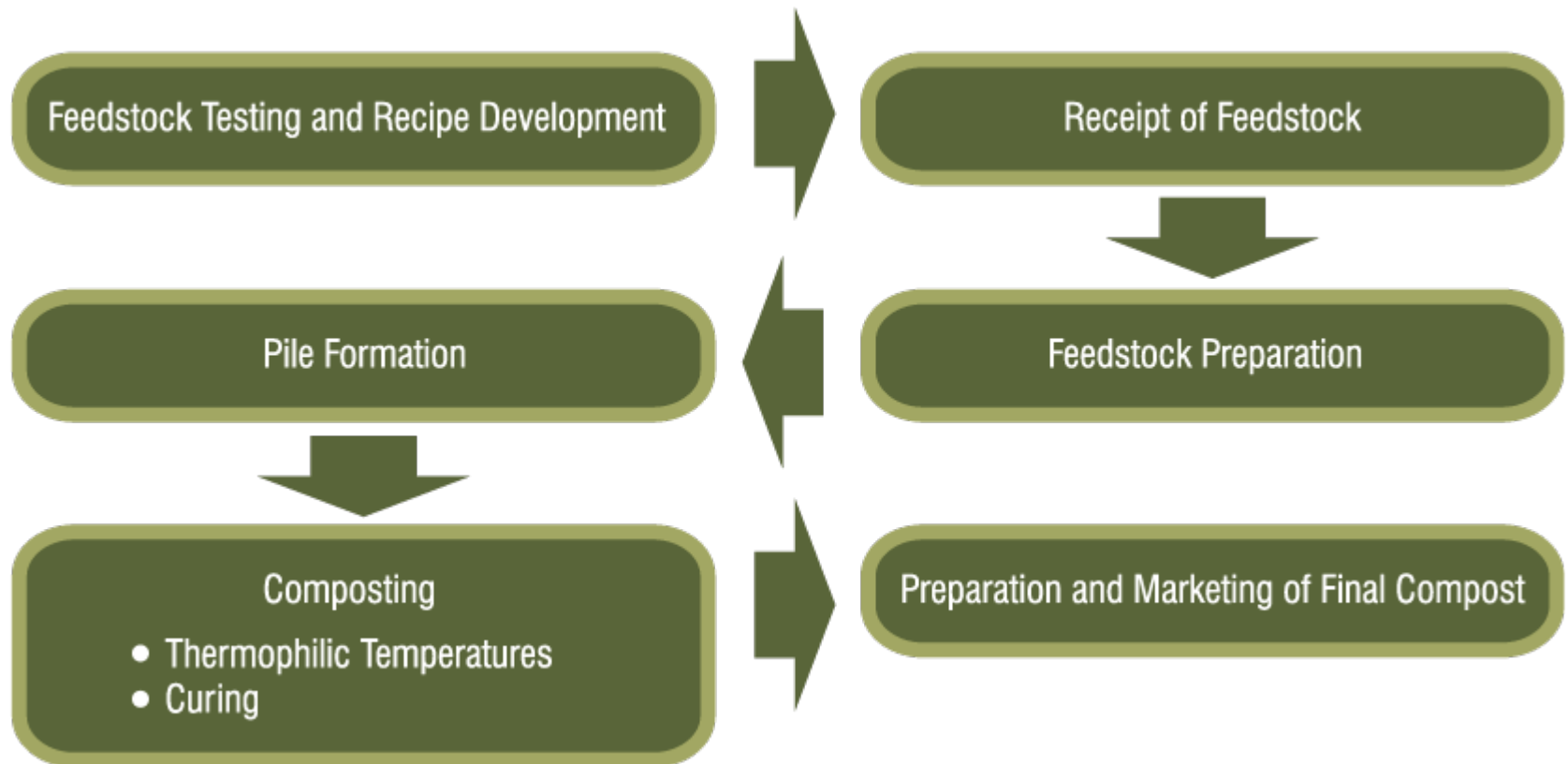
# Background

- Permitted to process 20,000 t/yr
- Organic waste is diverted from landfill
- 170,000 tonnes recycled since 1998
- Fundraiser program has raised \$250,000 to community groups

- Producers of  Organic Soil™
  - NatureMade™ Compost
  - RootZone™
  - E-Peat



# Composting Process



# Background

- Grade A Compost (unrestricted use)
- Compost meets CCME and CFIA standards since 1998
- We are thankful to be a positive part of our community
- Alberta Environment – both regulator and champion
- Enforcement Order in 2011

# Background

- Compost facilities risks:
  - Fire
  - Odour
- We have stabilized site





# Background

- Located in densified area
- Can be good neighbour
- We've caused odour
- Odour = nuisance, NOT a health issue
- Not easy to measure



# Significant Positive Changes

1. Reduce tonnage in by 60%
2. Stopped accepting odourous material:
  - Canmore's biosolids
  - Strathcona county's wet grass
3. Updating aeration system to blower pipes



# Our Barriers

- Small facility - 5 staff
- Odour complaints rarely direct – received through AESRD
- Not received in timely fashion
- More direct information needed
- In 50% of the cases we can completely eliminate odour (stop operations) in one hour



# Call us

- Call us directly so we can stop!

780.488.7926



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# Odour Management Plan

1. Characteristics of compost odour
  - Complex
  - Nose: best tool
  
2. Odour can come from:
  - Acceptance
  - Processing
  - Screening



# Odour Management Plan

Three main parts:

- a) Monitoring – odour forms, odour patrols
- b) Mitigating and managing
- c) Tracking and addressing public complaints



# Monitoring

- 1) Feedstock depositors rank odour at every visit
- 2) Visitors complete odour forms
- 3) Discussions several times per year with randomly selected neighbours - fill out odour forms
- 4) Odour Event form is provided to all neighbours - asked to report and odour event directly to CG as soon as it occurs



# Monitoring

- 5) Odour patrol – minimum of 2 times a week
- 6) Potential odour source identified at site
- 7) Neighbourhood newsletter
- 8) Wind speed and direction are monitored using on-site weather station.





# Mitigating and Managing

- 1) Mix the material identified as odourous during a time period in conditions when odour events are least likely to occur
- 2) If odour emission from screening and movement of finished compost – operator will immediately stop and work on other sections of the pile
- 3) Add finished compost overs as a biofilter
- 4) Proceed work when the potential odour has dissipated

# Tracking and Addressing Public Complaints

- Odour complainants will not likely be able to distinguish between odour coming from different stages
- Complaint Resolution Panel:
  - Site operator
  - Member of CG's management team
  - Other staff member
- Communicating within a 72-hour period of receiving a complaint



# Tracking and Addressing Public Complaints

- When odour complaint is received:
  - CG will immediately go to location of the source of the odour
  - When possible CG will consult the residents in the area – nature, intensity and source
  - Immediately upon verification, CG will phone AESRD to report
  - Upon verification, CG will complete and submit and Odour Complaint Response Form – within 72 hours
  - Action taken
- Site operator
  - Weather conditions - Incoming feedstocks – Work they are doing

# Tracking and Addressing Public Complaints

- Office Hours (8:30 – 17:00)

**780.488.7926**

- Outside Office Hours

**780.720.0193**

# Summary

- We are the experts – we know what we are doing
- Complainants please call us directly
- We want to be a good neighbour
- Significant positive changes have been made
  - Reduced tonnage in by 60%
  - Stopped accepting odourous material
  - Updating aeration system to blower pipes



# Summary

- Time needed for changes to take effect
- Odour is a nuisance, not easily measured by devices
  - Best device: the nose
- We continue to work hard to be a positive part of our community



# Questions?

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# Compost smells great!



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