Unconventional Ways to Generate Revenue & Impact the Botton Line!

Cindy Baker, Chicago Botanic Garden
Debbi Edelstein, Native Plant Trust
Patrick Larkin, Daniel Stowe Botanical Garden
Ken Schutz, Desert Botanical Garden





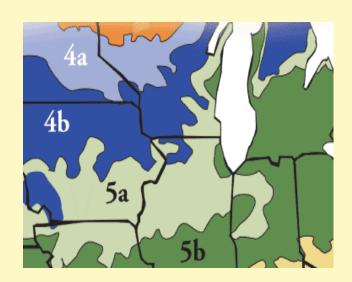
Unconventional Revenues: Turning landscape waste into cash

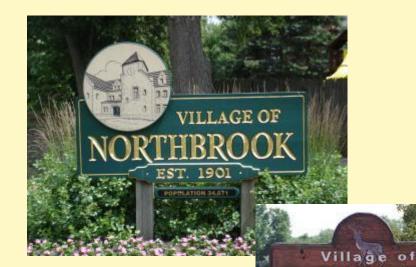
Cynthia Baker, Manager of Horticulture Services

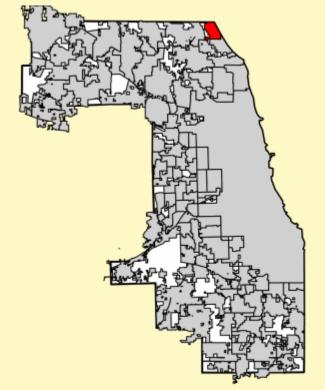
June 2019



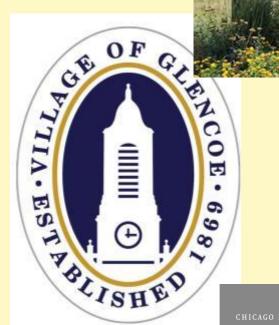














Chicago Botanic Garden

- 385 acres
- 175 acres of ornamental landscape
- 27 display gardens, 4 natural areas and general grounds
- Over 1 million visitors a year
- 2.7 million plants; 13,500 taxa
- Annual budget over \$37M
- 400 employees
- 1400 volunteers
- Horticulture Division 100

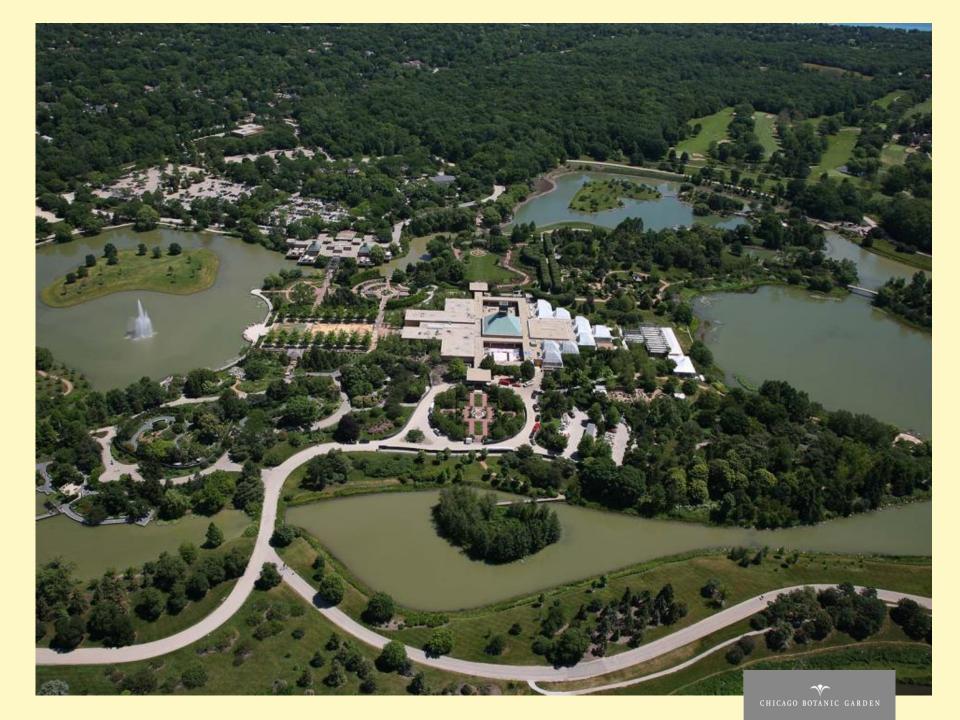




















Expand and Generate Revenue

- Charge municipalities a per cubic yard tipping fee to dump their landscape waste on our property
- Reduce purchases of mulch and compost
- Give away excess mulch to parks and community gardens
- Sell mulch to local landscapers



 Trade tipping fees for emergency services from the Village of Glencoe



Must have new equipment to expand!



Avg Cubic Yards of Material Received

- CBG Operations
- Village of Northbrook
- Village of Glencoe

- 2000-3000 cubic yards
- 3500-5000 cubic yards
- 4500-5000 cubic yards

Income Generated from Tipping Fees

- Northbrook 5,000
 - 5,000 cu yds @ \$10/cu yd = \$50,000

Glencoe

5,000 cu yds @ \$10/cu yd = \$50,000

Glencoe

emergency services offset = <\$ 15,000>



- CBG Operations
 2000-3000 cubic yards
- Village of Northbrook 3500-5000 cubic yards
- Village of Glencoe 4500-5000 cubic yards

At 2019 Tipping Fees Prices

- Northbrook 5,000 cu yds @ \$20/cu yd = \$100,000
- Glencoe 5,000 cu yds @ \$20/cu yd = \$100,000
- Glencoe emergency services offset = <\$ 30,000>

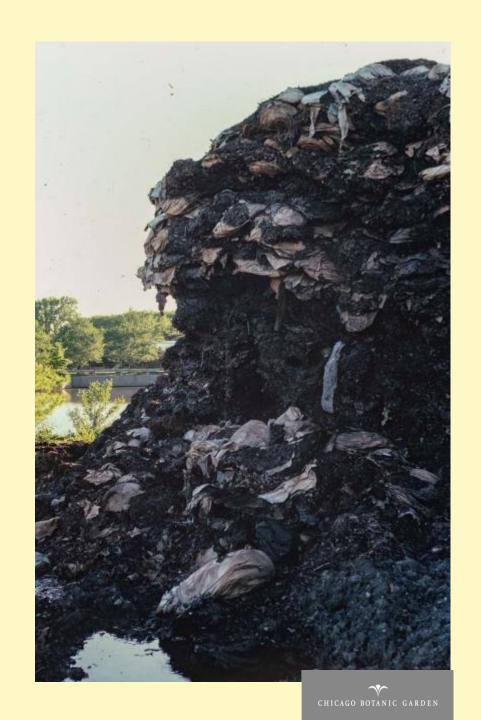




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MUCH

MATERIAL





The IL EPA Years

- Illinois Environmental Protection Agency bans all landscape waste from landfills
- Permits required to operate receiving and transfer stations
- Regulations included detailed quality control tests that had to be met
- Start-up grants were offered to encourage new facilities and expand existing ones





If a rangual, also list the Darmit Modification Numbers:

Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Application for Permit Relating to a Composting Facility for Landscape Waste (LPC-PA12)

. Site Identification:										
A. IEPA ID Number:										
Facility Name:							Cou	inty:		[
Street Address:							P.O. B	ox:		
City or Township: State: _IL							_ Zip Code:			
B. Legal description of the site as provide additional information	_	•				nan the	prope	rty bound	ary. You	may
Latitude:	(Deg)	(Min)	(Sec)	Longitude:	(Deg)	(Mir	n) (Sec)		
. Facility Description:										
Facility Type:				•						
Existing BOL Permit Number:										

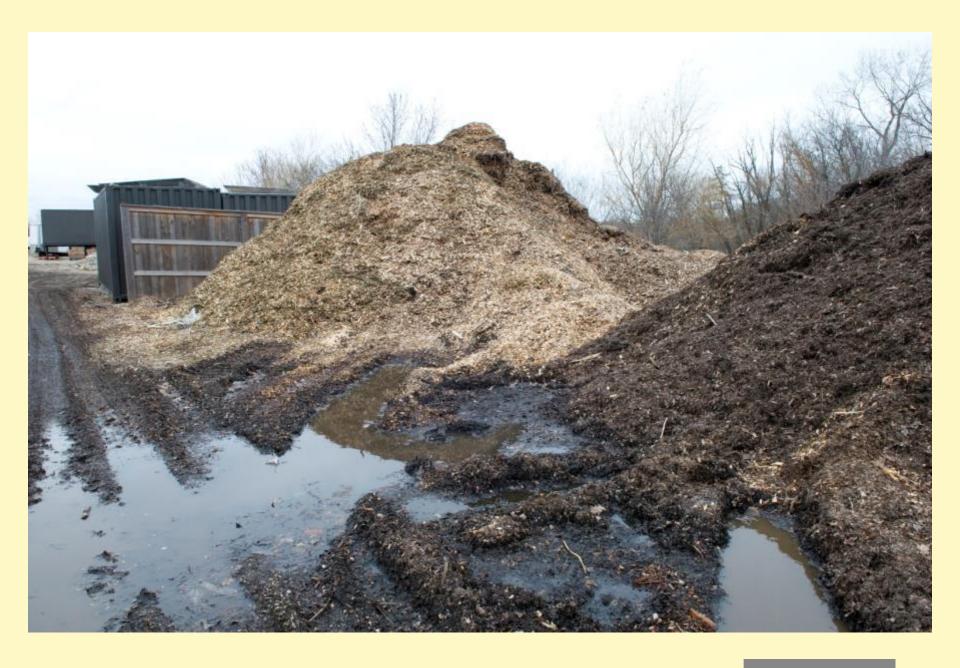
CHICAGO BOTANIC GARDEN LANDSCAPE WASTE PROGRAM TESTING PROCEDURES

- 1. Once per year, collect finished mulch product samples per instructions for sampling methods in 35 III. Admn. Code 830.507 and send to lab for testing of:
 - a) materials which pose a definite hazard to human health due to physical characteristics, such as glass or metal shards;
 - b) pH;
 - c) inorganic concentrations of materials listed in 35 III. Admn. Code 830.TABLE A;
 - d) fecal coliform;
 - e) man-made materials larger than four millimeters in size exceeding 1% of the end-product compost, on a dry weight basis.









Lake Forest council confronts smelly issue

By LeAnn Spencer TRIBUNE STAFF WRITER

Even as mowers began giving spring crew cuts to city lawns, the Lake Forest City Council decided to dismiss two members of an ad hoc committee formed to study a controversial compost site that takes the city's yard waste.

The two committee members

2 panelists ousted for seeking compost-site probe

yard. City aldermen said it is a conflict of interest for those sitting on a citizens advisory committee to solicit an outside investigation.

In addition, the committee had included only people who live near the compost facility, and residents from throughout Lake

There will be a new broadbased committee appointed, said Ald. Gail Hodge

chairman of the fi committee. "We nee this in a rational, or ner ... so when we decision we hav through a thorough public pro-

The two committee members who were dismissed, Steve Han-

"We think we are doing something that is a benefit to this Handler said. "I thought [we] were appointed precisely because we do have a viewpoint.

For almost a year, neighborn have complained about noxious odors from the compost opera-

had asked state environmental aldermen decided that they regulators for an independent wanted the committee to include investigation of the compost

in waste ples up at the Lake Forest compost and recording site along Binds Highway 60 near Washingan Road

Clearing the air on compost

Neighbors want study of dust blowing from Lake Forest site

By LeAnn Spencer Tracest Street Works

After Squax Gazrett's family dog. oily, developed a rure trafection caused by the inhaled sprews from a funghe, no one could pirpoint the source.

But Garrett has her suspicions. She worders, whether the flangue soores, produced in decaying tegetation, were blown into her back word from Lake ional's searly compant operation.

That incident list year and a spale of ted adors from the sompost site have scene the fledgeints for records in he affigent west side neighborhood. They are demonstrag a study of compact to determine whether they your a besith forest to those from nour

We can't absolutely prove that the lungton come from the compost sits, but libe diag's libered get us going," said larrett, whose I year-old galden retriever to blind in one eye and has

Corrett and her neighbors fear that what hippened to the dog could happen to neighborhood children or those at metter a middle wheel on land next to



wan Guerett wonders if fungus spores produced by rotting vegetation at the Lake Forest compost site led to her dog's health problems. The 2 year-old ablien remover is blind in one eve and has bouble breathing

Those kids potentially could be affect ed," she sold.

The Lake Forest debale is one of many such controversies. The battles over send and possible health risks have been waged from south suburben Lenward to Aurora in Daffage County and in the North Shore towns of Evanston and Wassella, Residents have complained of everything from increased bradacters to severy astisma and affergy

Some ductors are asking that compan sites be lorge away from residences, and one has some so for as to advise that they be 5 miles from the neurost house

Federal and state public health offi male and controppedal regulation car? my with assurance that airborns pur riches from rothing company; are camplayely safe. But they are quick to add that there is no evolution that they are harmful to neighbors or that more

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and court WILL SELECT Depise.

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McHenry County composter shuts down amid complaints

By Charles Mount TRIBUNE STAFF WRITER

Disposal of yard waste throughout much of McHenry County was thrown up for grabs Wednesday when the owner of the only commercial compost processing facility quietly shut it down.

Henry DeBoer, owner of Compost Enterprises Inc., south of Union, declined to say why he was closing the 6-acre site, but an Illinois Environmental Protection through June 25, said Gary Cima, environmental protection specialist for the state EPA.

The facility is on East Coral Road about 4 miles east of U.S. Highway 20. It has been the subject of numerous complaints from nearby residents since it began accepting yard waste in October

The complaints included reports of foul odors similar to those of horse manure, as well as noise from heavy equipment and trucks.



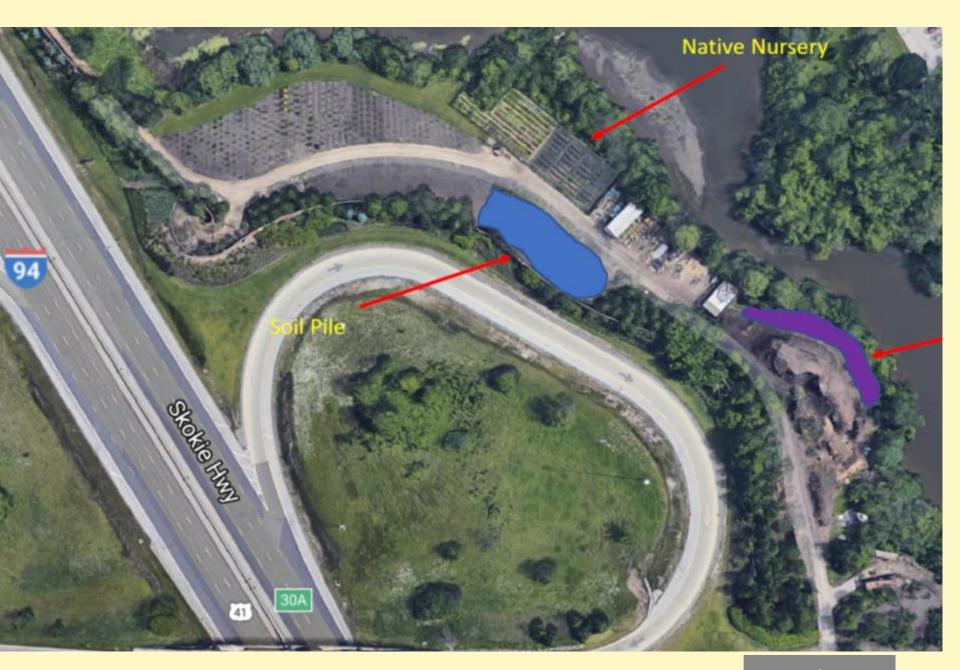
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Drastic Downsize

Glencoe Fall Leaves 3000 cu yds

CBG Operations 3000 cu yds

The value of the incoming Village of Glencoe fall leaves is determined to be equivalent to the value of the emergency services offered – whatever that may be.







The true Gold Leaf!







New equipment arriving July 2019 ProGrind 2000. Cost \$334,000





What didn't work 😕

- We had much more landscape waste than we could process, use, sell and even give away
- Collection bags shredded with the mulch was messy
- Foul odors when summer grass clippings were included
- Neighbors unhappy when we stopped giving away mulch



Tub grinder burned up



Truck burned up



What did work ©

 Generated some significant revenue for many years

Reduced the amount of mulch and compost

purchased





 Continued our leaves for emergency services trade with our closest neighbor, the Village of Glencoe





 Received international media coverage when our landscape waste operation was featured in a segment of 'Dirty Jobs'



Good Advance Planning = Success

- Rules and regulations
- What products you want to create
- Space available for receiving, grinding, turning windrowing and storing – possibly long term
- Equipment and labor capacity
- What to do if you accumulate excess
- Realistic business plan
- Green industry competitors
- Public reaction, especially neighbors



