

CITIZEN'S ADVISORY BOARD

Cherry Island Landfill

October 15, 2007

Notes

The October 15, 2007, meeting of the Citizen's Advisory Board (CAB) commenced at 5:05 p.m. in the Conference Room of the Delaware Recycling Center, 1101 Lambsons Lane, New Castle.

Attendees:

CAB

Thomas Mitten, Chairman
Vincent D'Anna
Deborah Deubert
Jeffrey Flynn

DSWA

Richard Watson
Robin Roddy
Michael D. Parkowski
Pam Williamson

DNREC

Bryan Ashby
Robert Hartman

Introductions

Meeting attendees introduced themselves.

Department of Natural Resourced and Environmental Control (DNREC) Updates

Mr. Hartman presented a report on Cherry Island Landfill (CIL) issues during the last quarter (see attached). Mr. Hartman said that there had been only one unconfirmed report of odors in 2007. Mr. D'Anna wanted to know how it was determined where the odors come from because the wastewater treatment plant also had odors. Mrs. Roddy said that there was a study done by DNREC that tried to fingerprint the odors along the industrial corridor. The CAB recommended that DSWA consider publicizing successful operations milestones such as zero odor complaints during given timeframes. DSWA acknowledged and will consider. Mr. Hartman reported that there had been no fires at CIL during the last quarter. Mr. Mitten wanted to know how fires were handled at the landfill. Mrs. Roddy said that the DSWA's landfill operators smother the fires with on hand material. The fire department is called and they report to check the site but usually let the operators handle it. After hours the fire department has full access to the facility by way of a Knox-box®.

Update on Cherry Island Landfill Expansion Project

Mrs. Roddy reported that the wick drain installation was complete and soil was now being brought in to begin constructing the MSE wall. It has been one year since the project began. Mrs. Roddy will bring pictures of the wall to the next meeting. Mr. D'Anna wanted to know if prevailing wage rates were being paid. Mrs. Roddy said that they were. She also reported that there have been no interruptions to landfill operations as this project has moved along. Mr. Flynn inquired about the current and final elevations of the landfill. Mrs. Roddy said that the current elevation was at about Elevation123 and the permit gives DSWA permission to go to Elevation195..

A discussion then ensued regarding the Pigeon Point Landfill and the amount of stabilized sludge used in it. Mrs. Roddy said that there is a maximum amount of 250,000 tons a year that can be brought in to use for the cap enhancement project. She said that the project is about 60% complete and should be done in about three years (assuming a placement rate of 250,000 tons/year). She also pointed out that CIL has not used stabilized sludge since 2003.

Ms. Deubert said that Delaware hasn't moved in giant steps to address the waste problem. There is a need to encourage source reduction. Mr. Watson said that source reduction is something to be considered and as with all programs the solution would involve lots of money. Mr. Mitten said that the CAB does need to look at other issues as part of the group's responsibility.

Update on Cherry Island Landfill Gas Treatment System and Flare

Mrs. Roddy reported that DSWA had selected a contractor to make improvements to the landfill gas system. These improvements will allow for an increase in the amount of gas flow up to 9,000 scfm (standard cubic feet per minute). Currently the system can handle 5,000-6,000 scfm. This gas is used as an alternate fuel by Conectiv.

Update on Yard Waste Ban

Mr. Parkowski told the CAB that DSWA and DNREC were working together to make presentations to civic and community groups regarding the yard waste ban. The majority of the meetings are spent addressing specific questions that the public has. Information from haulers are also handed out. A haulers meeting was also held to discuss yard waste disposal. Mr. Parkowski said that most haulers will be offering some type of pick-up service for yard waste. DSWA will offer pay-as-you-throw service for \$1.00 a bag. Customers will use their own bags. Mr. Mitten asked why DSWA changed it's program when the CAB had promoted last year's plan which would offer yard waste pick-up to customers who had DSWA's curbside recycling service. Mr. Parkowski said that DSWA's customers complained about having to sign up for all year when they didn't have any yard waste in the winter months. Since legislators and customers asked for an alternative DSWA came up with the new plan. DSWA is aware that either plan is not going to fit every customer but, the pay-as-you-throw service will allow the private sector to compete with DSWA. Mr.

Flynn wanted to know if some of the haulers will still use DSWA. Mr. Parkowski said that some of the haulers would be using DSWA. Mr. Mitten wanted to know if there were any other recyclables haulers. Mr. Parkowski said that Tristate picks up single stream recyclables in Brandywine Hundred. Mr. Parkowski answered a question from Mr. Flynn regarding the number of pick up times. Mr. Parkowski said that most haulers would do once a week for solid waste and once a week for recyclables. Most municipalities have switched to once a week pick up and cut the volume by doing recycling. Mr. Flynn wanted to know when the conversion to single stream would be completed. Mr. Parkowski said that DSWA hoped to be all converted by the end of next summer. There are some municipalities already converted now and DSWA is using them as a learning curve. Mr. D'Anna wanted to know if it would be feasible alternate recycling and yard waste every other week. Mr. Parkowski said that people want the yard waste gone and not sitting around. DSWA will be buying new trucks to haul recyclables in one container and yard waste in another container on the same truck. Mr. Watson said that DSWA expects the participation rate to increase when everyone goes to single stream.

Unfinished Business

Nothing discussed.

New Business

Mr. Flynn wanted to know about building structures on the landfill when it is full. Mrs. Roddy said that there were limited uses but it has been done in other areas. Mrs. Roddy indicated that the closed landfill space is best suited for open spaces such as recreational areas and parks.

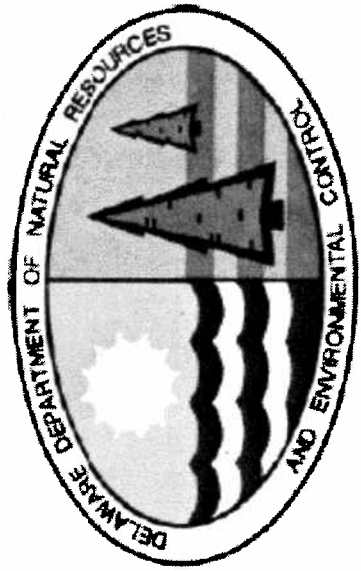
It was suggested that future CAB-CIL meetings be conducted at the Delaware Recycling Center, due to the favorable accommodations. DSWA personnel indicated this would be possible, pending other reservations for the Conference Room.

Meeting adjourned at 7:00 p.m.

DSWA Cherry Island Landfill Summary for the Citizens Advisory Board
Prepared by Robert Hartman, DNREC Solid & Hazardous Waste Management Branch
October 15, 2007

1. Again, this quarter (July – September 2007), CIL operations staff logged no direct complaints from neighbors regarding landfill odors. The DNREC on-site inspector found no significant off-site landfill odors during his routine inspections of the landfill and adjacent roadways. DNREC Enforcement (the complaints line) logged no complaints in their database regarding odors at CIL during the quarter. That database did list one odor complaint from a resident on East View Lane on June 2, 2007 (so far, the only odor complaint during 2007).
2. The DNREC on-site inspector found the DSWA to be controlling litter both on site and off. The DNREC enforcement database did not record any complaints regarding litter at the Cherry Island landfill during this quarter.
3. There were no complaints in the enforcement database this quarter regarding dust at the Cherry Island landfill.
4. I did receive one phone call from a resident advising that she had seen dump trucks with out of state tags heading for the DSWA Cherry Island Landfill and she was concerned that DSWA may have been allowing disposal of out of state waste. I advised her about the expansion work ongoing at the landfill as well as daily cover materials that DSWA imports from out of state. I advised her about controls in place to prevent out of state waste, including DSWA compliance officers and scale house operators.
5. Staff from DNREC's Sediment & Stormwater Program conducted an inspection at the site on August 30, 2007, and found sediment and stormwater controls satisfactory. The on-site Certified Construction Reviewer (Geosyntec Consultants staff) continues to inspect sediment and stormwater controls weekly and after significant rainfall.
6. On August 1st (GP1 and GP4) and again on October 11th (GP1, GP4 and GP25), DSWA reported gas levels exceeding regulatory limits in some newly installed gas monitoring probes. Gas probes are installed around the north and west sections of the landfill to monitor possible underground movement of gas from the landfill. DSWA is investigating the exceedances. DSWA had also found exceedances in some of these gas probes in May and July 2007.
7. No fires were reported at the landfill during the last quarter. During the previous quarter (April – June 2007), DSWA had reported 2 fires at the landfill. On April 25th there was a fire on the small working face (area 3) which was quickly extinguished by DSWA. On June 20th, there was a fire on about 3 acres of mulch recently placed for seeding and erosion control. DSWA extinguished the fires and there was no damage to any landfill control systems.

Yard Waste 101 Conserving a Natural Resource

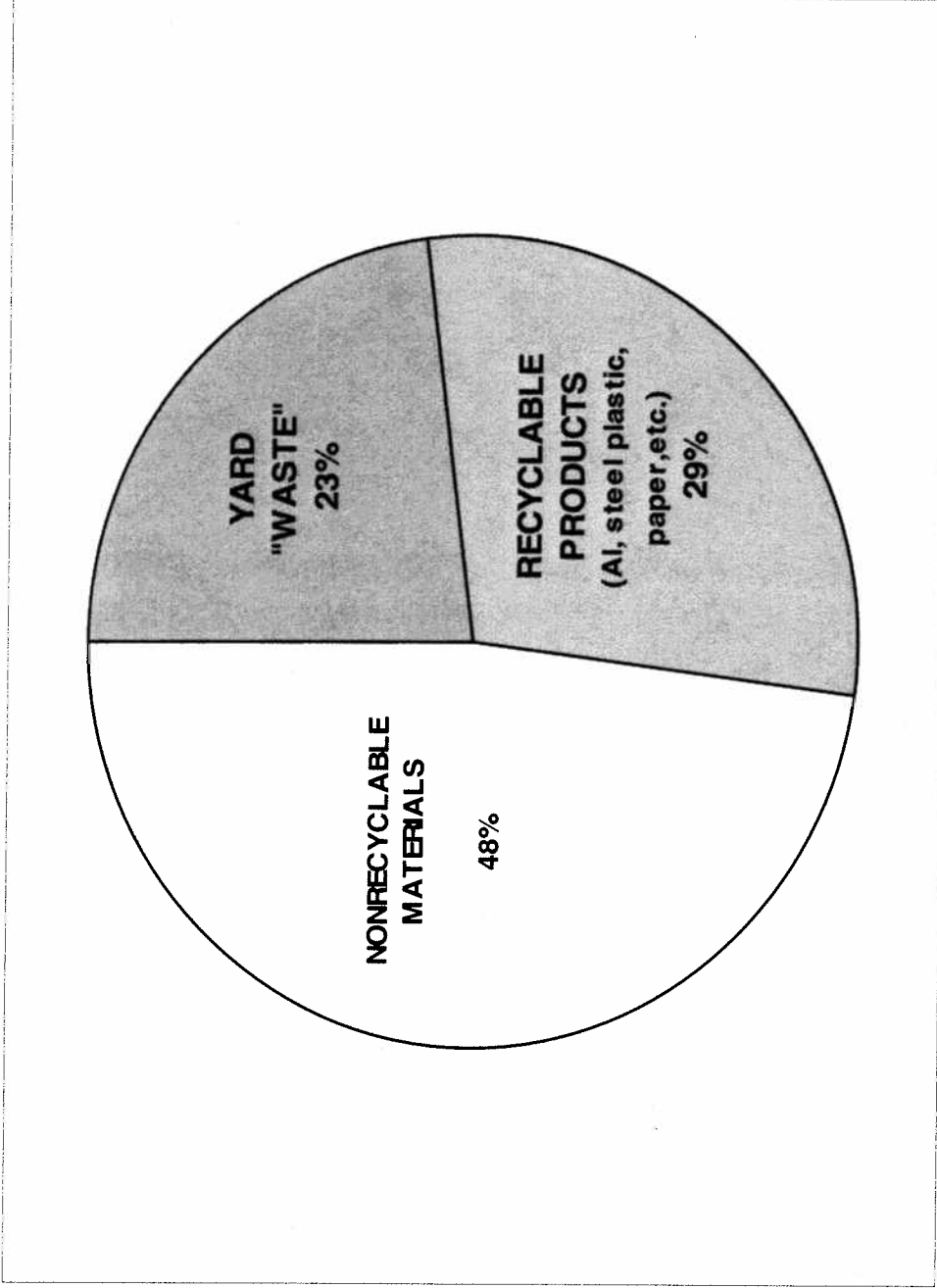


What is Yard Waste?

Plant material resulting from lawn maintenance and other horticultural gardening and landscaping activities and includes:

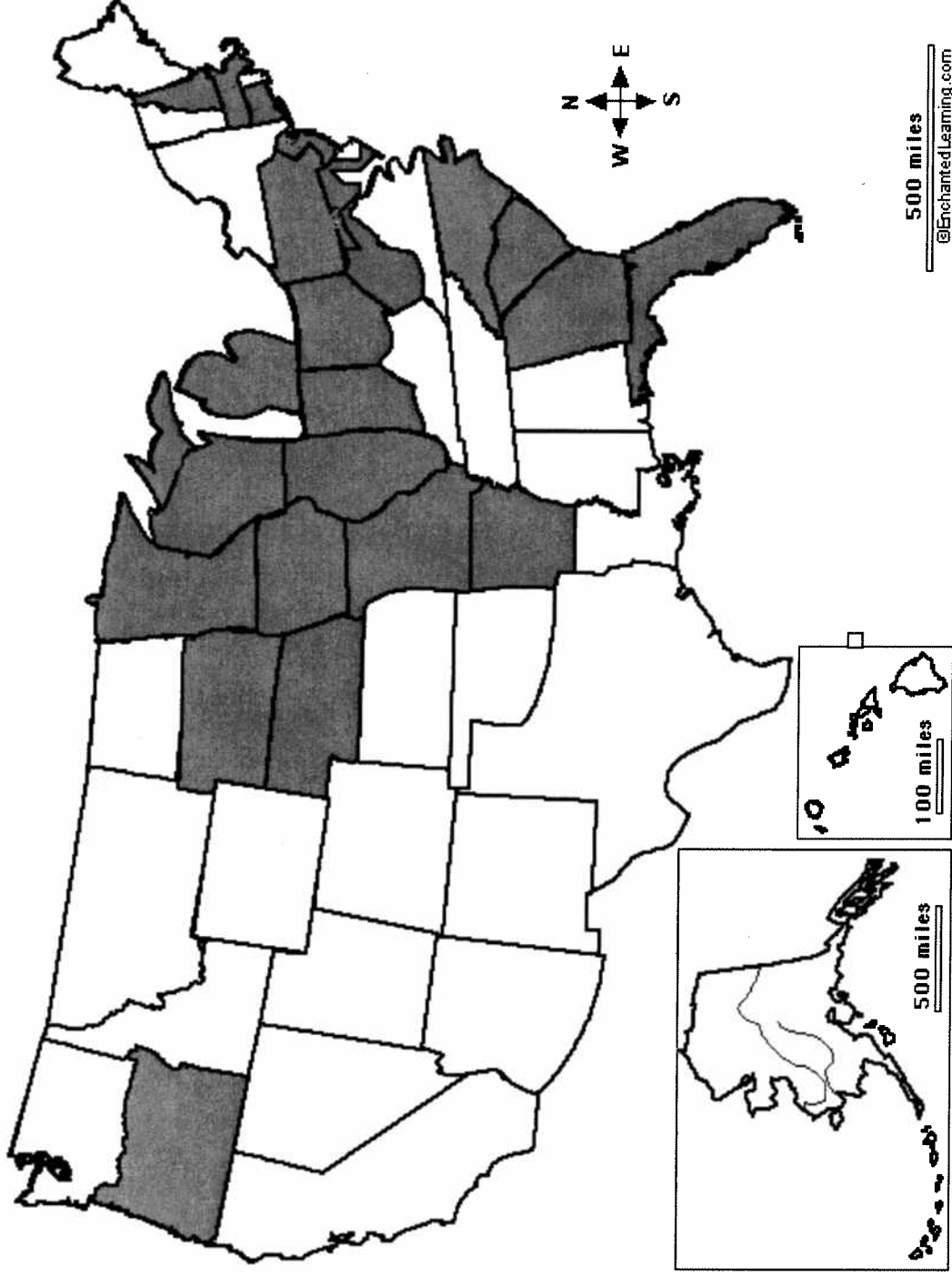
- Grass
- Leaves
- Pruning
- Brush
- Shrubs
- Garden Material
- Christmas Trees
- Tree limbs up to 4” in diameter.

Yard Waste is Nearly $\frac{1}{4}$ of the Residential Waste in Delaware



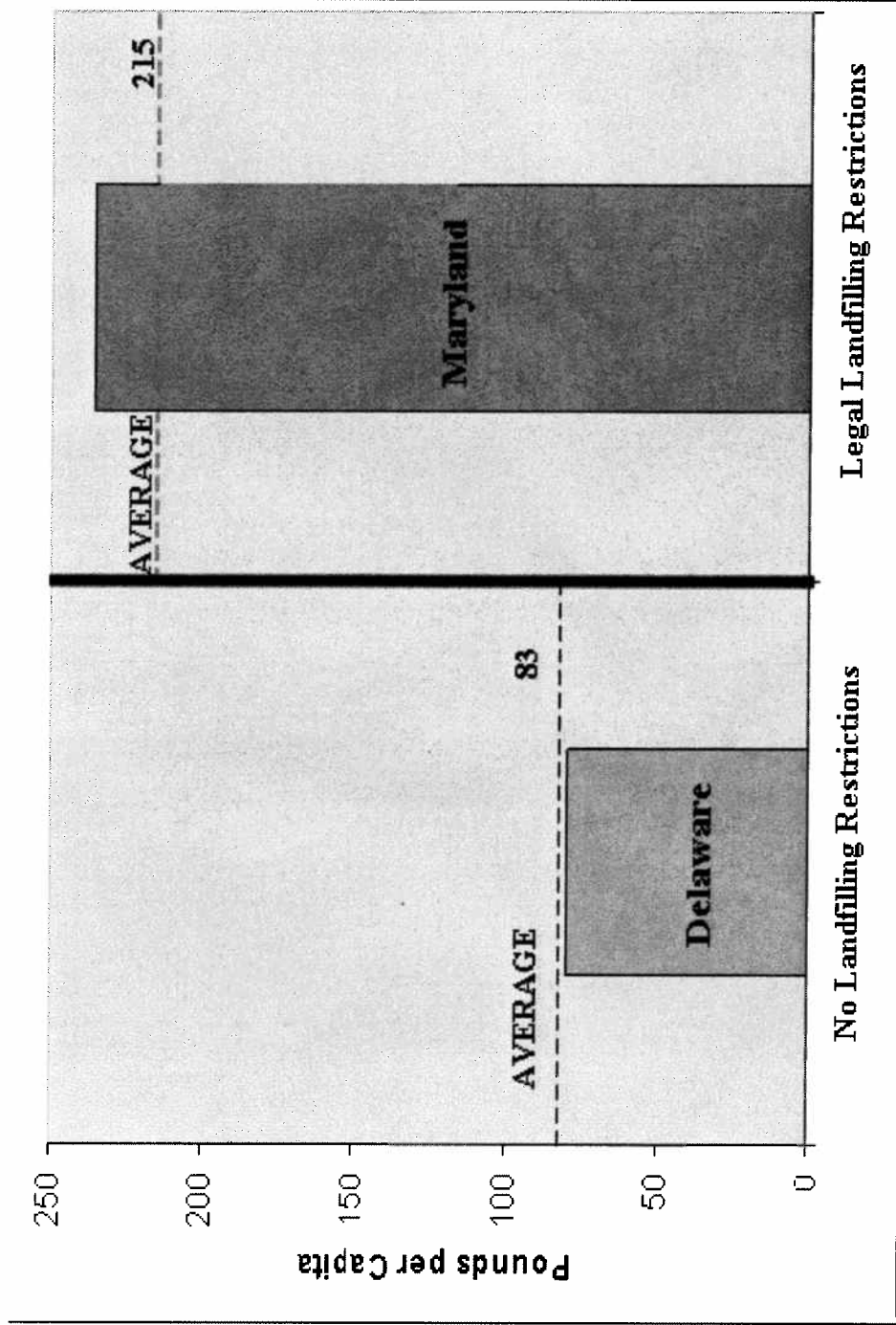
Source: DSM Environmental Services, Inc., 2004

23 States Have Restrictions on Yard Waste Disposal Including all 3 of Our Neighboring States-NJ, PA, and MD



Source: DSM Environmental Services, Inc., 2004

Yard Waste Restrictions Are Effective



Source: DSM Environmental Services, Inc., 2004

Benefits of Keeping Yard Waste Out of the Landfills

- **Extended landfill life.**
- **An incentive for the establishment or expansion of businesses interested in producing mulch or compost.**
- **An incentive for homeowners to manage yard waste in a more sustainable way by composting, mulching, and grasscycling.**
- **Reduction in greenhouse gas emissions**

Yard Waste Committee Consensus

- Yard Waste is a valuable resource
- A yard waste ban requires only modest changes by homeowners & business.
- No significant changes to collection systems are expected to be required.
- More than sufficient markets exist for High-quality Compost.
- An effective public education campaign should be implemented.
- Enforcement should be a tool of last resort; emphasis on education.
- Conclusion: The Committee supports the enactment of a yard waste ban in the State of Delaware.

Delaware Municipalities that Currently Have Yard Waste Management Programs

- Delaware City
- Dover
- Georgetown
- Newark
- New Castle
- Newport
- Rehoboth
- Seaford
- Wilmington

And compost demonstration sites in:
Ardentown, Felton, Laurel, Wilmington

CIL Permit Bans Yard Waste

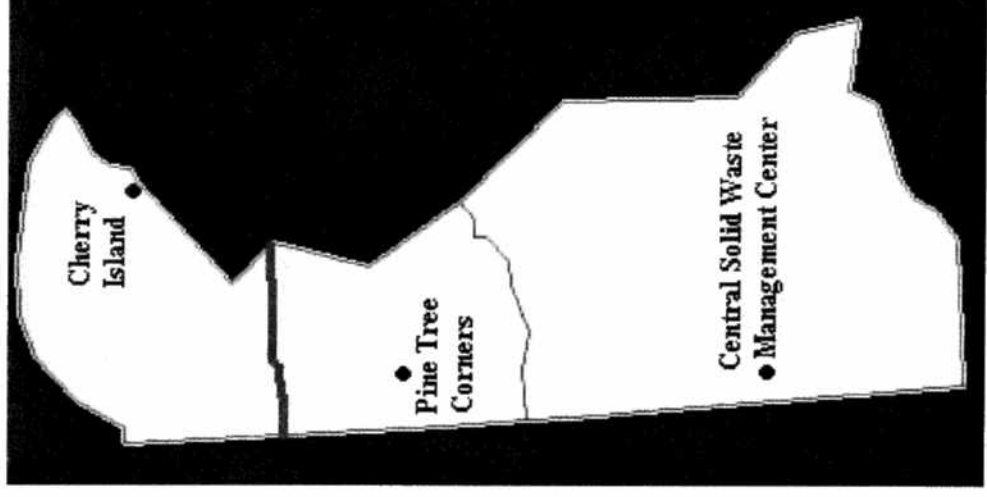
“Yard Waste Diversion: DSWA shall ban disposal of all yard waste from the NSWMC-2 effective no later than January 1, 2007. The NSWMC-2 yard waste ban shall be advertised in a manner to effectively educate the public and waste haulers...” *

Senate Joint Resolution No. 2 delayed implementation of the yard waste ban until January 24, 2008.

* Section, 6.b of DNREC Permit to DSWA for CIL Expansion, January 6, 2006⁹

Who is Affected by the Ban?

- Anyone taking waste to
**Cherry Island
Landfill**



Options for Handling Yard Waste

After January 24, 2008

- Manage your own yard waste by composting, mulching and grasscycling (buy a mulching mower and leave the grass on the lawn).
- Drop-off yard waste at existing facilities.*
- Establish a neighborhood yard waste compost or mulch site.
- Contact trash haulers or DSWA. They may provide a separate collection service for yard waste.*
- Contact a lawn service company.*

* Fees may apply.

Fee based Drop-Off Facilities for Yard Waste

- First State Green Recycling, 5 Christiana Avenue, near the port of Wilmington call 302-757-5091 or visit www.fsgrecycling.com \$25 per pickup truck load or \$33.50/ton.
- DSWA's Cherry Island Landfill, Wilmington, call 1-800-404-7080 or visit www.dswa.com \$61.50/ton.
- Robert Gallo Mulch & Tree Service, Inc., 74 Christiana Road, New Castle, DE 19720. Phone: (302)325-2257 or 800-BY-MULCH
- Copeland's Mulch Depot, Routes 4 and 7, Stanton, DE 19804. Phone: 302-633-9536 or visit www.copelandsmulchdepot.com

Community Yard Waste Sites

- DART Mid County Site located at the southwest corner of Routes 13 and 72 with access off of Route 13.
- Under consideration – Brandywine Hundred site located on the north side of Cauffiel Parkway.
- Under consideration - Polly Drummond Site located on the west side of Polly Drummond Hill Road.
- Sites are open Fridays, Saturdays and Sundays from 8:30 to 4:30.

Enforcement and Illegal Dumping

- Emphasis on education for first 12 months.
- Enforcement defined by stakeholders.
- Illegal Dumping not allowed – Call DNREC 24/7 at 1-800-662-8802 to report dumping.

Waste Haulers and Landscapers Providing Their Own Yard Waste Collection Service

- Allied Waste Services, Wilmington, 658-4097
- Arriola Landscape, New Castle, 353-9668
- Delaware Sanitation, Inc., New Castle, 322-7714
- Econo-Haul, Inc., New Castle, 366-7630
- The House Service, Wilmington, 475-6401
- KRC Waste Management, Inc., 999-9276
- Independent Disposal Services, Townsend, 378-5400
- City of Newark, 366-7040 (residents only)
- Palmatary's Sanitation Serv., Wilmington, 652-2270
- Service Disposal of Delaware, New Castle, 326-9155
(roll-offs only)
- Tri-State Waste Solutions, New Castle, 622-8600

How much will it cost?

Cost varies depending on circumstances:

- Backyard composting is FREE & reduces garden fertilizer expenses
- Community mulching can be low cost and offers free mulch to residents
- Hauling costs: Last year estimates were between \$3 to \$7 per month.
- DSWA offers yard waste collection for \$1 per bag.

How should the yard waste be prepared for pick up?

- Yard waste/hauler collector will establish requirements for collection.
- Details (e.g., collection method & frequency) are business decisions made by each hauler & landscaping company.
- Typically - branches cut to 4 feet or less, and leaves bagged or put at curb on assigned dates.

How is Yard Waste Processed?

- Mulch: After curing and/or grinding, material is “screened” and used decoratively.
- Compost: Higher value-added product that is blended with the soil to add organic matter, nutrients and aids in moisture retention.

DNREC has prepared guidelines for operation of composting sites.

For more Information

1. Call **DSWA** at 800-404-7080 or visit website at www.dswa.com
2. Call **DNREC** at 302-739-9403 or visit website at: <http://www.dnrec.delaware.gov/yardwaste>
3. Call **U of D Extension Service** at 302-831-2667 or visit their website at <http://www.ag.udel.edu/extension/> for information about composting at home.

October 9, 2007