



# The Household Hazardous Waste Coordinator

The Official Newsletter of the  
Association of New Jersey  
Household Hazardous Waste Coordinators

Volume XIII, Issue No. 1

2008



ANJHHWC members at their March, 2008 meeting hosted by Anheuser Busch.

## Applying LEAN THINKING to Streamline the HHW Collection Process

Excerpted from a report by:  
Beth Berglund, Merck & Co., Inc.

Each year Merck sites have the option under the Champions for the Environment program to submit a proposal and receive funding from The Merck Company Foundation to partner with a not-for-profit organization in support of a local environmental project. Because of concerns that wait times exceeding 90 minutes could discourage the proper management of household hazardous waste, Merck approached the Hunterdon Utilities Authority and the Association of New Jersey Household Hazardous Waste Coordinators (ANJHHWC) with the opportunity to apply the Lean process improvement methodology to identify and implement changes to reduce wait times at cleanups.

Hunterdon County residents have experienced long waits in

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## Mercer County's Household Hazardous Waste Program... Past -to- Present

By Dan Napoleon, Mercer County Improvement Authority

### Past:

Mercer County's Household Hazardous Waste Disposal (HHWD) program began in 1989 to allow residents the opportunity to bring common household hazardous material to one location for proper disposal. Under the coordination of the Mercer County Improvement Authority (MCIA), two HHWD events (spring and fall) were held per year. Accepted materials included but were not limited to: oil based paint, motor oil, aerosol cans, pesticides, gasoline, and mercury. On average approximately 2,200 -2,500 residents participated annually. In 2000, due to the increasing popularity of the program, the MCIA Board of Commissioners voted to implement a used electronic collection as part of the HHWD program. CPU's, monitors, key boards, printers, fax machines among other electronic equipment were collected.

Advertisement for each HHWD event was done

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- Spotlight on Mercer County's Program
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## Message From The President

By Alain Fortier, CHMM, Hazardous Waste Operations Supervisor, Monmouth County Health Department

I am proud to report to you that ANJHHWC has obtained the "Tax Exempt/Not for Profit" status from the Internal Revenue Service. This will allow our organization greater access to grants or other funding sources for education and other programs relating to environmental management issues.

With that said, we are extremely fortunate to have been the recipients of the Merck Foundation, Champions of the Environment Grant which will enable us to better serve our State with the management of household hazardous wastes. The grant will be used to purchase materials that will exemplify the "lean thinking" models which are discussed in this newsletter. We wish to extend our gratitude to Merck and Beth Berglund, Project Engineer, Safety and the Environment for helping us obtain this grant. The *lean thinking* resources will be made available to all ANJHHWC members with the purpose of improving County run waste collection events.

Also in the news is the Compact Fluorescent Light (CFL) disposal issue. CFLs can contain up to 6 milligrams of mercury per bulb depending on the wattage. CFLs also contain an electric transformer which is also recyclable. We as a society are being encouraged to convert standard incandescent bulbs to the more energy friendly CFLs.

ANJHHWC recently participated in a stakeholders meeting at PSE&G's corporate offices in Newark. The primary concern was how to properly recycle/dispose of these bulbs once they achieve their end of service life ("burn out"). The CFL packaging refers the consumers to [www.lamprecycle.org](http://www.lamprecycle.org) for information on proper disposal because of the mercury content. When the site is accessed for NJ, I found that they direct the readers to the "local waste disposal officials for details" as an alternative to throwing them out in the trash. Yes, that's us! From past experience at the Monmouth County HHW facility we have seen a noticeable increase in CFL drop offs during the past year. Residents have told us that these bulbs usually last less than 2 years with some not making it past 6 months. There are specific instructions on the bulbs for longer product life that I believe consumers should be directed to read. Marketing efforts are at an all time high to encourage the public to convert to CFLs. The State DEP will be contacting the NJ Retailers Association to strongly encourage their active involvement with recycling efforts. We will continue to keep you updated with any new information on this CFL management and stakeholder's taskforce.

As for now have a great spring and summer and good luck with all your collection events.



(Mercer County --Continued from page 1)

primarily via print media – ads ran in the daily newspapers one week prior to the scheduled day. Flyers were placed in the County buildings and mailed to past participants and all Municipal Recycling Coordinators.

### **Present:**

Participation in the HHWD program continues to increase. Each HHWD event occurs between the hours of 8AM – 2PM at the John T. Dempster Fire Training School on Bakers Basin/Lawrence Station Road in Lawrence Township. In 2007 approximately 3,350 vehicles were serviced; which averaged a little over 3 cars per minute/per event. In this time frame, a total of 17,433 gallons of hazardous waste material and 1,203 propane tanks were collected. In addition to our residential participation and through a partnership with the County Environmental Health Office, we now service an average of ten schools per event. The County Health Inspector conducts random visits to schools throughout the County and identifies material that should be disposed of during the HHWD events.

The used electronic collection has seen the steadiest and most significant growth in terms of material collected. Last year yielded approximately 315,000 pounds of material which is an increase from 291,000 pounds in 2006 and 279,283 pounds in 2005.

As part of an internal assessment, we determined that high participation rates warranted an additional HHWD day and the large amount of used electronic material received warranted additional and separate used electronic collection events. As a result, we currently hold three HHWD/UEC events and two used electronic waste "only" events annually.

For additional information on these programs and many other programs and services offered by the MCIA, visit the web-site [www.mcia-nj.org](http://www.mcia-nj.org) or call the MCIA Recycling Department at 609-278-8086.

# New Jersey Household Hazardous Waste Coordinators

[www.njhazwaste.com](http://www.njhazwaste.com)

|  |  |   |   |
|--|--|---|---|
| <p>Mr. Ron Berenato<br/>Atlantic County Utilities Authority<br/>PO Box 996<br/>Pleasantville, NJ 08232<br/>609-272-6950 / Fax 609-569-7361<br/>rberenato@acua.com<br/>7 HHW days</p>   | <p>Mr. Richard Baroch<br/>Bergen County Utilities Authority<br/>PO Box 9<br/>Little Ferry NJ 07643<br/>201-807-8696/Fax 201-641-3509<br/>rbaroch@bcua.org<br/>8 HHW days, permanent site for UCE</p>   | <p>Ms. Ann Williams<br/>Burlington County Dept. of Solid Waste<br/>PO Box 429<br/>Columbus, NJ 08022<br/>609-499-5200 / Fax 609-499-5316<br/>awilliams@co.burlington.nj.us<br/>Permanent collection facility open year round</p>  |   |
| <p>Mr. Chuck Giacobbe<br/>Camden County Div. of Env. Affairs<br/>520 N. Newton Lake Drive<br/>Collingswood, NJ 08107<br/>856-858-5241/Fax 856-858-3470<br/>cgiacobbe@camdencounty.com<br/>6 HHW days</p>   | <p>Mr. Tony Moncman<br/>Cape May County MUA<br/>PO Box 610 1523 US Route 9<br/>Cape May Court House, NJ 08210<br/>609-465-9026 / Fax 609-465-9025<br/>moncmanag@cmcmua.com<br/>2 HHW days (spring &amp; fall), paint 6 days/wk</p>   | <p>Mr. Dennis DeMatte, Jr.<br/>Cumberland County Improvement Authority<br/>2 North High Street<br/>Millville, NJ 08332<br/>856-825-3700 / Fax 856-825-8121<br/>ddematte@ccia-net.com<br/>3 HHW/UCE days, 6 permanent UCE/lamps/<br/>batteries sites, 8 permanent oil/antifreeze sites</p>                               |   |
| <p>Mr. Michael Onysko<br/>Essex County Utilities Authority<br/>155 Passaic Ave. 4th Floor<br/>Fairfield, NJ 07004<br/>973-857-2350 / Fax 973-857-9361<br/>monysko@essexutil.com<br/>2 HHW days, 2 UCE only days</p>  | <p>Ms. Monica Gismondi<br/>Gloucester County Improvement Authority<br/>503 Monroeville Road<br/>Swedesboro, NJ 08085<br/>856-478-6045 ext 13 / Fax 856-478-4858<br/>mgismondi@gcianj.com<br/>8 HHW events (no latex paint)</p>   | <p>Ms. Mary-Ellen Gilpin<br/>Hudson County Improvement Authority<br/>574 Summit Avenue, 5th Floor<br/>Jersey City NJ 07306<br/>201-795-4555 / Fax 201-795-0240<br/>recycle@hcia.org<br/>2 HHW days in Spring &amp; 2 in Fall at 2 sites/day</p>   |   |
| <p>Mr. Alan Johnson<br/>Hunterdon County Utilities Authority<br/>Div. of Solid Waste &amp; Recycling Services<br/>PO Box 2900<br/>Flemington NJ 08822-2900<br/>908-788-1110 / Fax 908-236-7535<br/>ajohnson@co.hunterdon.nj.us<br/>4 HHW days</p>  | <p>Mr. Daniel G. Napoleon<br/>Mercer County Improvement Authority<br/>640 So. Broad St. 4th Floor<br/>PO Box 8068<br/>Trenton NJ 08650<br/>609-278-8086 / Fax 609-656-1663<br/>dnapoleon@mercercounty.org<br/>3 HHW/UCE days, 2 UCE only days</p>  | <p>Mr. Fred Stanger<br/>Middlesex County Solid Waste Management<br/>100 Bayard Street, 2<sup>nd</sup> Floor<br/>New Brunswick NJ 08901<br/>732-745-4170 Fax 732-745-3010<br/>fred.stanger@co.middlesex.nj.us<br/>7 HHW days, 9 paint sites-each open one Sat/<br/>month, 2X/month UCE collection</p>                    |   |
| <p>Mr. Greg Hulse/ Mr. Alain Fortier<br/>Monmouth County Health Department<br/>3211 Shafto Road<br/>Tinton Falls, NJ 07753<br/>732-922-2234 x 10/ Fax 732-922-4625<br/>ghulse@co.monmouth.nj.us<br/>afortier@co.monmouth.nj.us<br/>Permanent facility in operation plus 2-3 HHW<br/>days</p> | <p>Mr. Tom Burbridge<br/>Morris County MUA<br/>PO Box 370<br/>Mendham NJ 07945-0370<br/>973-631-5109 / Fax 973-285-8397<br/>tburbridge@mcmua.com<br/>Permanent facility plus 5 HHW days and a<br/>universal waste consolidation center</p>   | <p>Mr. John Haas<br/>Ocean County Solid Waste Mgmt.<br/>129 Hooper Avenue<br/>Toms River NJ 08754<br/>732-506-5047 / Fax 732-244-8396<br/>jhaas@co.ocean.nj.us<br/>12 HHW days; paint at 2 cnty. and 3 muni. sites<br/>open 6 days/wk, 2 muni. sites 5 days/wk; lamps,<br/>oil/filters, batteries at 2 county sites</p> |   |
| <p>Ms. Nina Seiden<br/>Passaic County<br/>1310 Route 23 North<br/>Wayne NJ 07470<br/>973-305-5736 / Fax 973-305-5737<br/>ninas@passaiccountynj.org<br/>3 HHW days</p>  | <p>Ms. Melinda Williams<br/>Salem County Utilities Authority<br/>PO Box 890, 52 McKillip Rd.<br/>Alloway NJ 08001-0890<br/>856-935-7900 x15 / Fax 856-935-7331<br/>mwilliams@scua.org<br/>2 HHW days (April &amp; October) &amp; ongoing<br/>program for UCE, oil paints, oil, antifreeze,<br/>propane tanks, auto batteries</p> | <p>Ms. Diana E. Vigilante<br/>Somerset County Solid Waste Mgmt.<br/>PO Box 3000<br/>Somerville NJ 08876<br/>908-231-7681 / Fax 908-707-1749<br/>vigilant@co.somerset.nj.us<br/>6 HHW days &amp; 1st Sat. drop-off at recyc. center<br/>for oil/ filters, tires, antifreeze, batteries, UCE</p>                          |   |
| <p>Ms. Reenee Casapulla<br/>Sussex County MUA<br/>34 South Rt. 94<br/>Lafayette NJ 07848<br/>973-579-6998 x107/Fax 973-579-7819<br/>rcasapulla@scmua.org<br/>2 HHW days, 4 UCE days</p>  | <p>Ms. JoAnn Gemenden<br/>Union County Planning &amp; Env. Conservation<br/>County Administration Building<br/>Elizabethtown Plaza<br/>Elizabeth, NJ 07207<br/>908-654-9890 / Fax 908-527-4901<br/>jgemenden@ucnj.org<br/>4 HHW days, 4 UCE events</p>   | <p>James Williams, Acting Executive Director<br/>Warren County PCFA<br/>500 Mt. Pisgah Avenue<br/>PO Box 587<br/>Oxford NJ 07863-0587<br/>908-453-2174 / Fax 908-453-4241<br/>2 HHW/UCE days (spring &amp; fall)</p>  |   |
| <p>Mr. Charlie D'Amico<br/>NJ DEP Solid and Hazardous Waste Management Program<br/>401 E. State St. PO Box 414<br/>Trenton, NJ 08625-0414<br/>609-984-6985<br/>charles.D'Amico@dep.state.nj.us</p>   |  |   |  |

## 2008 Schedule of New Jersey HHW events

|              |  |
|--------------|--|
| January 5    | Atlantic   |
| March 1      | Atlantic   |
| March 8      | Bergen, Gloucester, Hunterdon                              |
| March 15     | Mercer   |
| March 16     | Middlesex  |
| March 29     | Camden, Union  |
| April 5      | Somerset   |
| April 6      | Bergen   |
| April 12     | Gloucester   |
| April 19     | Cumberland, Middlesex, Salem                               |
| April 20     | Warren   |
| April 26     | Camden   |
| April 27     | Passaic  |
| May 3        | Atlantic, Essex, Hudson, Monmouth                          |
| May 10       | Cape May, Gloucester, Morris, Somerset                     |
| May 17       | Bergen, Camden, Gloucester, Middlesex, Union               |
| May 18       | Hudson   |
| June 7       | Cumberland, Passaic, Sussex                                |
| June 14      | Morris, Somerset   |
| June 21      | Camden   |
| June 28      | Mercer   |
| June 29      | Bergen   |
| July 12      | Atlantic, Gloucester, Hunterdon                            |
| July 19      | Bergen   |
| July 20      | Middlesex  |
| August 2     | Somerset   |
| August 9     | Morris, Union  |
| September 6  | Atlantic   |
| September 13 | Bergen, Cape May, Cumberland, Gloucester, Morris, Somerset |
| September 20 | Camden, Hudson, Middlesex                                  |
| September 28 | Hudson   |
| October 4    | Atlantic, Essex, Mercer                                    |
| October 5    | Warren   |
| October 11   | Gloucester, Passaic  |
| October 18   | Camden, Gloucester, Middlesex, Salem, Union                |
| October 19   | Bergen   |
| October 25   | Somerset   |
| November 1   | Atlantic, Sussex   |
| November 2   | Morris   |
| November 8   | Hunterdon  |
| November 15  | Bergen   |
| November 16  | Middlesex  |

Note: The above is only for those counties who provided information on their events. Please contact the proper County for details on these events.

Common abbreviations:  
HHW— household hazardous waste  
UCE—used consumer electronics



Visit us on the web at [www.njhazwaste.com](http://www.njhazwaste.com)

(LEAN Thinking—Continued from page 1)

line at Hazardous Waste Cleanup events. Merck, the Hunterdon County Utilities Authority, ANJHHWC, and Clean Venture agreed to partner on a Champions for the Environment project to apply Lean principles to improve the process without adding cost. Merck staff, experienced with Lean, collected data in March 2007, analyzed the data, and then brainstormed solutions. In June and July certain changes to the process were piloted. The following report provides a number of ideas for changes that Hunterdon and other NJ counties should consider to streamline the process and reduce resident wait times. We believe inconvenience, and specifically longer time commitments, reduce resident participation rates and increase the risk of hazardous waste being mixed with municipal solid waste which poses hazards to sanitation workers and results in unnecessary releases of toxic materials into the environment.

Report Recommendations included:

1. Focus on Preventing Waste and Encouraging the Use of Local Outlets Where They Exist

2. Improve the Efficiency of the Unloading Process (think NASCAR pit crew!) such as:

- Improve flow. Configure vehicles into the unloading area so that each may exit independently of the vehicle in front of it and so the next vehicle may enter the vacated position immediately.
- If there is a subset of the resident population from which you want to encourage stronger participation, establish an express lane to expedite them. Examples might be (1) residential versus commercial waste, or (2) small versus large loads.
- Identify the two most common materials coming to the event and place bins within reach of the vehicles so the unloaders can eliminate extra handling, reduce the time they spend in the sorting area, and allow them to start unloading the next car sooner. At the Hunterdon county event the two most common items are currently latex paint and waste motor oil.
- If bins are placed between vehicles it would be valuable for these bins to be on wheels so the unloaders could push a full bin out of the way and move an empty bin into the slot without the intervention of the fork truck. Also, allowing the fork truck to lift the bins away from a congested area will reduce the risk of accidents.
- Assign a primary unloader to each vehicle unloading slot. Additional unloaders should float to assist with large loads. Slower or less experienced staff should either float or should cover the unloading slot nearest the sorting bins.
- Eliminate collection of non-hazardous materials at HHW Cleanups. Conduct separate (lower cost or no cost) events or establish drop-off centers for latex paint, waste motor oil, and other items that are beneficial to recycle but are not regulated as HHW.
- Include incentives and/or disincentives in the HHW vendor contract linked directly or indirectly to wait times associated with the hazardous waste events (e.g., staffing).
- Prohibit HHW staff from using music/phone headsets while they are processing waste for both safety and efficiency reasons.
- Stagger all breaks including lunch to minimize delays in processing vehicles. Cover unloaders on break using staff from the bulking or chemist function. If, like Hunterdon, the event is scheduled to end at 1pm, consider delaying delivery of lunch until 1pm and wait to break until after the last car has been unloaded. A group lunch after the last car is processed is an excellent opportunity to discuss the day and “what went well” and “what we could do better”.

**As part of this project, The Merck Company Foundation provided ANJHHWC with a \$4,970 grant to improve our HHW programs. We'd like to thank Beth Berglund, her coworkers, and The Merck Company Foundation for the grant and for all of their hard work!**



## 2008 ANJHHWC Officers

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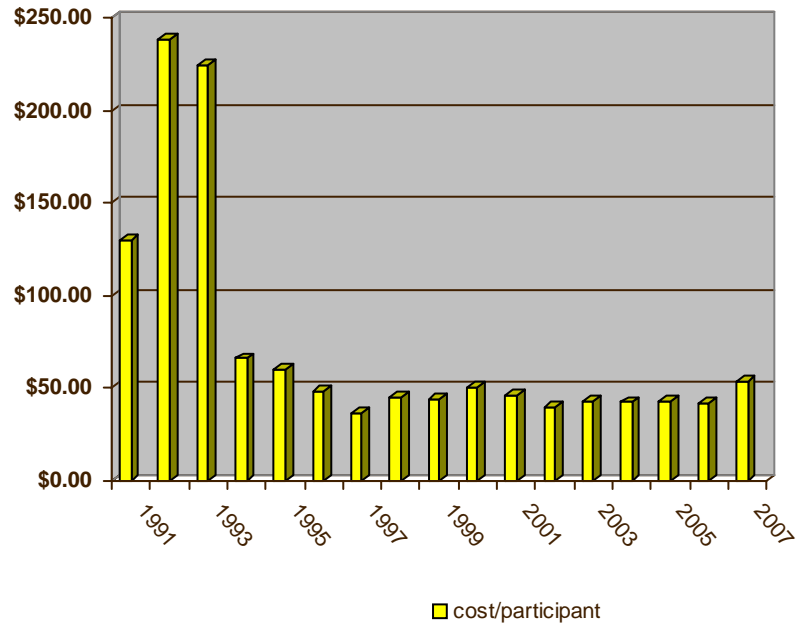
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## AVERAGE COST PER PARTICIPANT FOR NEW JERSEY HOUSEHOLD HAZARDOUS WASTE PROGRAMS



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**The Household Hazardous Waste Coordinator**

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