



RESOURCE RECOVERY REPORT

Vol. 9, No. 2

Spring 1990



Above are 300 - 400 tons of trash on the tipping floor of the transfer station where it is systematically inspected for illegally thrown away recyclables by MCMUA inspectors.

Implementation of Resource Recovery Facility Continues

The use of mass-burn incineration or resource recovery for solid waste volume reduction is an integral part of Morris County's comprehensive solid waste management plan. Faced with the increasing costs and uncertainty of utilizing a transfer station system and out-of-state landfills for waste disposal, the Morris County Board of Chosen Freeholders and the Municipal Utilities Authority have worked hard on developing an in-County solid waste disposal system.

After Morris County residents and businesses recycle what they can, over 1,000 tons a day of waste are remaining for disposal. Currently this remaining waste is transferred out of state to landfills primarily located in Pennsylvania, but in the near future, Morris County will be assuming responsibility for its own waste disposal.

To process most of this remaining waste, Morris County has proposed the development of a 1,340 ton-per-day resource recovery facility. This facility will incinerate non-hazardous waste transforming it into an ash which is only

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Recycling Inspections and Enforcement: Working Toward Compliance

Big Brother is watching your garbage!

Morris County's source separation recycling policy requires generators of designated recyclable materials - residential, commercial and institutional - to separate them from disposable trash. If they don't -- if cardboard or aluminum cans get mixed in with the garbage and taken to the County transfer stations -- they're likely to get a letter from the Morris County Municipal Utilities Authority (MCMUA) asking for an explanation.

This exercise is all part of Morris County's plan to enforce compliance through daily inspections of solid waste.

Glenn Clarke has been employed for two years as the MCMUA senior sanitation inspector at Morris County's two transfer stations, owned and operated by Chambers Development Company. His job is to inspect the contents of garbage trucks as they dump their loads onto the huge tipping floor. He is looking for glass, aluminum cans, office and

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Bulky Item Recycling and Composting Seminar Planned

Save the Date!

On Thursday, June 28, the Morris County Municipal Utilities Authority, in conjunction with the County Shade Tree Commission and Rutgers Cooperative Extension of Morris County, will present a day-long seminar on composting and recycling of bulky items.

For a small registration fee, participants will hear an update on the state application and permitting process for compost sites, learn about state-of-the-art methodologies, and be introduced to services and equipment available through both the public and private sectors. This information is timely, as municipalities adjust their programs to comply with the April 20 mandate to include grass in their composting programs.

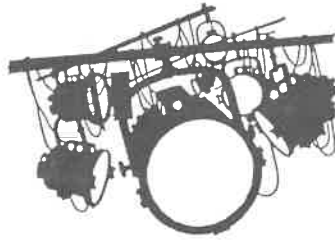
The afternoon session will feature presentations on bulky waste recycling: what, where and how. The final segment will take participants outside for a field demonstration of equipment and technologies.

A highlight of the day will be a gourmet buffet lunch prepared by Colonial Market Catering of Morristown.

Watch for more information and registration forms in May. ☐

Correction:

The Winter 1990 issue of "Resource Recovery Report" mistakenly reported that the Montville Reformed Church and the Montville United Methodist Church collected 13,000 aluminum cans in 1988. The churches actually collected 13,000 pounds of aluminum cans, which is approximately 250,000 cans.



Spotlight On: Morris County Curbside Recycling Program



Sandra Maillard, Boonton Township Recycling Coordinator, stands with the MCCRCP crew in front of the new Eager Beaver recycling vehicle.

The Morris County Curbside Recycling Program (MCCRCP) currently serves almost 30,000 residential units in eight municipalities. Service includes newspaper collection in all eight towns, and multi-material collection in four of them. The multi-material trucks can pick up glass, aluminum, steel cans and plastics, either commingled or separated.

The program utilizes County-owned vehicles and staff, and provides job-training opportunities for Occupational Training Center clients on the newspaper routes. The latest addition to the collection fleet is a multi-material truck with a high-rise lift that will allow unloading of material directly into roll-off containers.

Boonton Township became the newest municipality to take advantage of this service, beginning curbside pickups in January. East Hanover expanded its service from just newspapers to all materials as of April.

The MCMUA also is initiating a commercial pickup program this spring, with a pilot project in Denville. The program is designed to provide a collection service to small, independent generators of recyclables. These businesses often have difficulty making arrangements for collection because of their small volume of material. In Denville, the service area will center on the downtown shopping district. Weekly pickups will include newspaper, glass, aluminum, corrugated cardboard and office paper.

Following a trial period in Denville, the MCMUA will offer this program to other municipalities with similar "downtown" commercial areas.

Municipalities interested in either the County's residential or commercial collection program are urged to call District Recycling Coordinator Linda Torres at 285-6037. ☐

Potential Landfill Sites Narrowed Down to Three

Morris County's comprehensive solid waste management plan is designed to make the County self-sufficient with respect to solid waste disposal. The plan has been formulated to minimize the amount of solid waste

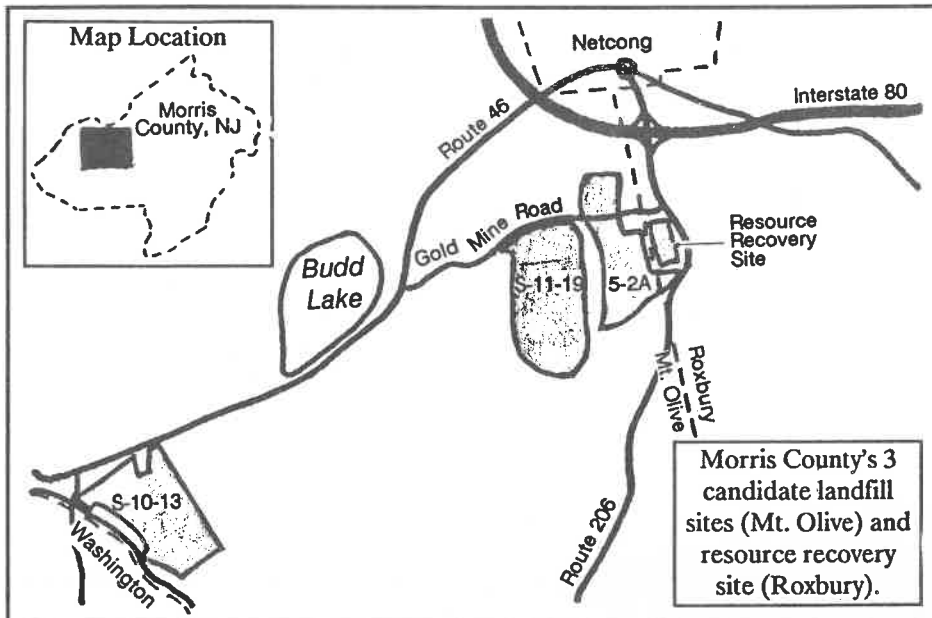
which needs to be ultimately landfilled through the use of source reduction practices, mandatory recycling programs and mass-burn incineration for volume reduction. Even with the County's aggressive stance on source

reduction and recycling, there will always be waste which has no other practical disposal option other than sanitary landfilling.

The Morris County Municipal Utilities Authority (MCMUA) has embarked on a landfill siting process and will recommend a suitable site for the landfill to the Board of Chosen Freeholders. In December 1989, the staff of the MCMUA, the agency which implements the County's solid waste management plan, completed a preliminary landfill siting study which recommended three potential candidate sites for further technical evaluations by the County's consulting engineers, Weston/Alaimo.

The MCMUA's study evaluated 121 potential sites located across the County with respect to environmental, land use and development criteria. The

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...Resource Recovery

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10 percent of the volume of the original raw garbage. This ash then needs to be landfilled in the in-County sanitary landfill which the County is also currently developing (see Landfill on page 3). Not only will the resource recovery facility diminish the County's reliance on landfilling by 80 to 90 percent, but it will also produce significant amounts of electricity which will then be sold to the power company, Jersey Central Power and Light (JCP&L).

Morris County has selected Foster Wheeler Power Systems, Inc. of Clinton, N.J. to design, permit, construct and operate this facility. Foster Wheeler is one of the industry leaders in the development of state-of-the-art resource recovery facilities with operational facilities in several states and plans to develop facilities in Camden and Passaic Counties in New Jersey. In

September 1989, a service agreement was entered into by and between the Board of Chosen Freeholders and Foster Wheeler to provide for the County's needed resource recovery services.

After a comprehensive siting process involving an objective comparison of many sites across Morris County, a site located on the western boundary of Roxbury Township has been selected for the facility. The facility will be located on Eden Lane in the industrialized area of Gold Mine Road approximately one-half mile south of Route 80 and just west of Route 206. Following a series of public hearings in December 1989 to solicit comments on the project, the Board of Chosen Freeholders proposed an amendment to the County's solid waste management plan to include this site. The New Jersey Department of Environmental Protection (NJDEP) is currently

reviewing this proposed plan amendment and is expected to issue its certification some time in the summer.

Currently, the County's consulting engineers, Weston/Alaimo, are gathering information for the submittal of the facility's preliminary environmental and health impact statement (PEHIS) to the NJDEP. The PEHIS is expected to be submitted to the NJDEP in late spring.

As part of data requirements for the models to be used for the final environmental and health impact statement (FEHIS), the County needs to gather one year's worth of on-site meteorological data. To facilitate this process, the County has installed a 10-meter meteorological monitoring station at the site to collect information on wind speed, wind direction, precipitation and temperature. The facility is expected to be completed with the commencement of full operations by the end of 1994. □



Loan Assistance Available for Small Recycling Businesses

On December 22, 1989, the United States Small Business Administration (SBA) made effective its new Pollution Control Loan regulation which specifically provides loan assistance to small businesses in need of capital to comply with environmental requirements and/or, otherwise, to prevent and reduce pollution.

Providing that the small business meets the SBA's credit and collateral criteria, the SBA is prepared to guarantee loans up to \$1,000,000. The loan applicant will have to document that Federal, State and/or local regulations require an expenditure of funds for an environmental remedy.

The Pollution Control Loan can only be used to finance the planning, design or installation of a pollution control facility. Any "resource recovery" property (recycling) is eligible for the loan program providing the property is stated to be useful for pollution abatement by a local, State or Federal environmental regulatory authority.

For more information contact: Steven Riva, the U.S.E.P.A. Small Business Administration contact, at (212) 264-9880, or Karen Brown, U.S.E.P.A. Small Business Ombudsman, at (703) 557-1938. Additionally, any Regional, State or Local Small Business Administration office can provide information on this program. □

Happy Birthday M.O.R.E.!

M.O.R.E. (Morris County Office Recycling Exists!) is five years old in May.



The County recycling program collected only office paper when it first started but has expanded to include newspapers, computer paper, glass, aluminum and corrugated cardboard.

Notices are regularly sent out to all department recycling coordinators to remind them about recycling and to keep them informed about the program. Containers with Morris County Recycles labels affixed to them and desk top boxes are replaced when necessary.

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computer paper, newspapers and corrugated cardboard - all mandated recyclables for residents and/or commercial businesses/institutions.

He divides his time between Mt. Olive and Parsippany. Wearing a safety vest, hard hat, goggles, safety boots and gloves, Glenn positions himself down on the tipping floor so that he can see the trash trucks arrive and dump their loads. He has about two minutes per truck from the time the trash is dumped until it is scooped up and put into a trailer headed for Pennsylvania. In those two minutes he notes the license number and DEP number on the truck and the name of the hauler. He looks and listens for any glass or aluminum cans dropping and pulls out any corrugated cardboard or office and computer paper, dragging it to one side of the floor.

Glenn then proceeds to write a partial surveillance (violation) report, later

Since the program was expanded a year ago in March to include glass and aluminum, County employees have recycled over 25,800 pounds! □



MCMUA Recycling Specialist Nadine Antebi celebrates M.O.R.E.'s birthday.

filling in such information as the origin of material and any comments about the recyclable materials. In the two years since he started, he has learned to move fast, and his eyes are trained to pick out the recyclables from the rest of the trash.

Residential trash is dumped on one part of the tipping floor and commercial garbage in another area. The commercial area is Glenn's main concern at this time of the year. Glenn looks for large amounts of corrugated and office paper. Quite often he'll find full cardboard files of paper as companies clean out their old files.

After a summer weekend or a holiday, he concentrates more on household trash because that is when more glass and aluminum cans are placed in the trash.

At the end of his day, Glenn finishes writing his surveillance reports. He uses them, along with the "evidence" -- pieces of paper and cardboard -- to generate letters sent to the violators or source of
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CAN THE LITTER

Make Morris County Glitter!



MUNICIPAL UPDATE

The Clean Communities Program, the State-sponsored program that supplies funding through taxes to remove litter from roads, highways, parks, and public places, has sparked the interest of 20 Morris County municipalities as well as the Municipal Utilities Authority recycling office. Grants have been received by these municipalities to enable them to fund litter programs or events. The goals of the program are to clean up litter, keep it cleaned up by enforcing littering ordinances and, through education, attempt to change the attitudes and habits which result in littering.

Litter is solid waste which is out of place. It originates from one of seven

“Litter is solid waste which is out of place”

sources: pedestrians, motorists, improper household or commercial put-outs, loading docks, construction sites or uncovered trucks. Litter takes a lot of different forms, most of them man-made: paper, plastics, metal and aluminum cans, glass, cigarette butts and prepared food packaging. It can also take on natural forms such as dead leaves, tree branches, mown grass and weeds which have been disposed of improperly.

Even small amounts of litter are unsightly, unhealthy and dangerous. Litter

causes diseases in people and animals, fires, pollution, accidents, declining tourism and industry as well as poor morale. People tend to litter when they think that other people will clean it up, when an area is already littered or when they don't feel a sense of ownership or community pride.

The M.U.A. recycling office plans to survey the county roads for litter "hot spots."

Each town will have a different way of carrying out the program. T-shirts, decals, litter bags and awards will be used as incentives. Some towns are sponsoring a week of events centered around Earth Day. Others are forming patrols to carry out litter pickup. Recyclables will be removed from the litter and will then be disposed of properly in order to add to the town's recycling tonnage.

According to Dee Howard, New Jersey's Clean Communities Manager, the Department of Environmental Protection has developed a slide show presentation and other promotional materials which are available for municipal use.

This is the second year the State Department of Environmental Protection has offered the opportunity for municipalities to participate. The program is making available approximately \$12 million to all 21 counties and 557 eligible municipalities for the 1989-90 grant year. □

Boonton Township - Sandra Maillard has assumed the responsibilities as recycling coordinator for the township as of March.

Butler -The newly appointed recycling coordinator is Richard Negran.

Chatham Borough -The Cyclit Corporation of Clark is test-marketing the Cyclit recycling bin in this town. Residents have agreed to use the new product for a three-month period. The unit is designed to come apart into four separate bins, each one capable of holding a different recyclable. One hundred free units were given to residents on a first-come, first-served basis.

Chatham Township -As part of its participation in New Jersey's Clean Communities Program, the township introduced an ordinance requiring covers on all litter receptacles on residential and commercial property and on construction sites. A resolution was also passed that will require wire mesh garbage containers to be stationed at shopping centers, schools and pedestrian walkways, public buildings, railroad and bus stations, parks, drive-in restaurants, service station islands, campgrounds, bathing areas and wherever one-time public events, such as parades or carnivals, are held.

Chester Township - The township is considering a pay-per-container system for trash collection that could save customers money if they recycle. Instead of paying a flat fee of \$360 for collection of trash and recyclables, residents would pay for garbage collection by the number of containers and be charged a small flat fee for collection of recyclable items.

East Hanover -This township has become the fourth community to participate in the glass and aluminum service of the Morris County Curbside Recycling Program. Starting in April, residents will have their glass, aluminum and newspapers picked up at the curb instead of having to haul them to the recycling center.

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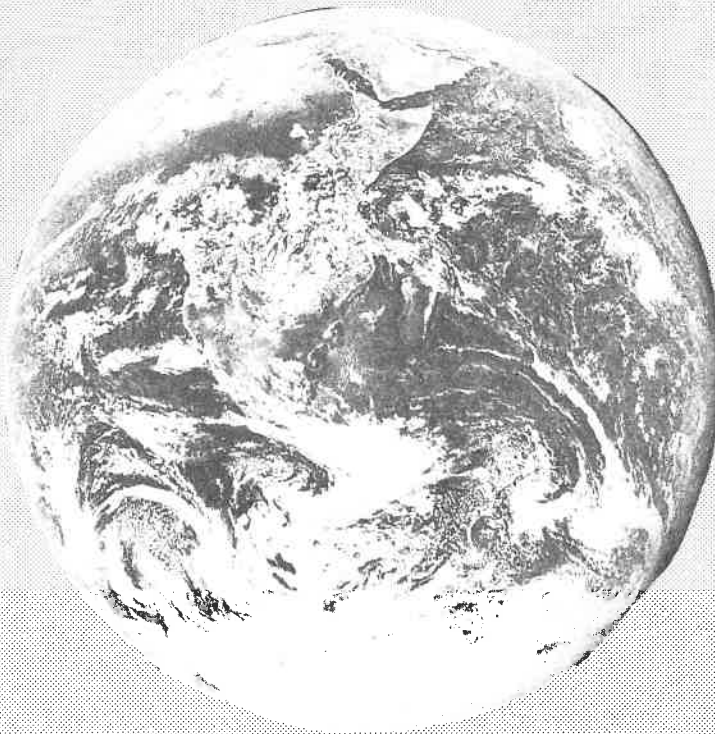
Earth Day 1990

This year is the 20th anniversary of the first Earth Day. Originally started by a group of people who were concerned about the air, water and ground pollution in the environment around them, it is being celebrated in April with a view toward making the 1990's the decade of environmentalism. Events are being held to enlighten people's environmental consciousness.

Resolutions and proclamations on the importance of the observances will be held in many localities. Schools are sponsoring contests, promoting recycling and generally educating the students about the environment.

Earth Day 1990 New Jersey, a State-wide committee, was formed to promote and sponsor events and information. The motto *Think globally. Act locally. Recycle* has been adopted, and New Jersey is promoting the Earth Day Green Pledge reproduced below.

For more information, contact Earth Day 1990 New Jersey at 317 Belleville Avenue, Bloomfield, NJ 07003, (201) 748-2114. □



**Think globally. Act locally.
Recycle**

Earth Day 1990

Green Pledge

BECAUSE.....our planet today faces severe environmental crises such as global warming, rain forest devastation, growing world population, and water and air pollution...



BECAUSE... the planet's future depends on the commitment of every nation, as well as every individual...

**I Pledge to Do My Share in Saving the Planet
By Letting My Concern for the Environment Shape How I:**

- ACT:** I pledge to do my utmost to recycle, conserve energy, save water, use efficient transportation, and to try to adopt a lifestyle as if every day were Earth Day.
- PURCHASE:** I pledge to buy and use only those products least harmful to the environment. Moreover, I will do business with corporations that promote global environmental responsibility.
- VOTE:** I pledge to vote and support those candidates who demonstrate an abiding concern for the environment.
- SUPPORT:** I pledge to support the passage of local, state and federal laws and international treaties that protect the environment.

For Earth Day 1990 - and For Ever

Household Hazardous Waste Disposal Day Saturday, June 16, 1990

Spring cleaning time has arrived and residents may discover paints, pesticides, batteries, and other hazardous materials which they no longer need. To aid residents in disposing of these unwanted items, Morris County is sponsoring a Household Hazardous Waste Disposal Day on Saturday, June 16 at the Netcong Borough Garage located on Maple Avenue between Main Street and Route 206 behind the Borough Firehouse. On this day, Morris County residents and farmers will be able to bring these materials to this facility between 9:00 a.m. and 2:00 p.m. for environmentally safe disposal.

Acceptable materials include oil-based paints, solvents, thinners, pesticides, caustic cleaners and batteries. Except for oil-based paints, all materials must be in their original containers. Oil-based paints must be consolidated into as few containers as possible. The empty paint cans may

then be discarded with the regular trash.

Residents may not bring unknown, unidentified, explosive, radioactive, pathological or dioxin-containing materials. Latex or water-based paints are also unacceptable since they are not classified as hazardous. These materials should either be used up or allowed to dry and then disposed of with the regular trash. Latex paints may be dried out by adding a substance to absorb the water such as cat litter or sawdust.

This program has a limited budget and will work on a first-come, first-served basis. All participants must pre-register with the Morris County MUA. Quantities of materials accepted may be limited to five gallons of liquid or 25 pounds of powder, and no material from commercial establishments will be accepted.

For further information or pre-registration forms call 285- 8390.☐

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MONTVILLE - The township has started commingling glass, aluminum and tin cans at curbside. Two pilot projects are now in progress at the recycling depot. Residents can now bring plastic soda bottles (PET) and milk, water and detergent bottles (HDPE) to the depot. They can also start bringing anti-freeze for recycling.

MORRIS PLAINS -The recycling center will be staffed by volunteer groups the second Saturday of each month and by the Sheriff's Labor Assistance Program (S.L.A.P.) members on the fourth Saturday of each month. Any Saturday not covered will be staffed by the Department of Public Works employees.

On Saturday, April 21, there will be an Earth Day and Dedication Ceremony at the recycling center. At that time a new storage shed which houses recycling equipment will be christened and the center will be named the Reimer Recycling Center in memory of Fred Reimer and in honor of all the contributions toward recycling made by the members of his family. Mr. Reimer was instrumental in organizing and operating a recycling program in the 1970's with the help of Boy Scout Troop 39. He was also an important contributing member of the recycling committee which was started in the early 1980's. His widow, Gerda, is a current member of the committee.

MORRIS TOWNSHIP -Beginning in January, plastic soda bottles and magazines were added to the curbside collection. The plastic soda bottles can be mixed in the same container with the glass jars and bottles, aluminum cans and tin cans. Magazines are to be tied in bundles not weighing more than 50 pounds. Newspapers will no longer be accepted in brown paper bags but must be tied in bundles. Brown paper bags may be included with the corrugated cardboard.

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...LANDFILL

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result of this study was the recommendation of three candidate sites, all located in Mount Olive Township. Two of the three sites are located off Gold Mine Road in close proximity to the proposed resource recovery site in Roxbury Township (see Resource Recovery page 1). The third site is located in western Mount Olive just south of Route 46 along Drakestown Road.

The landfill will need approximately 60 to 100 acres of fillable area to handle the County's landfill needs for the next twenty years. It will accept non-hazardous ash produced by the County's resource recovery facility, non-processible waste such as some demolition debris which cannot be processed at the facility, and any by-pass waste which needs to be disposed of during periods

of the resource recovery facility's scheduled maintenance.

The County's proposed landfill will be a modern sanitary landfill designed in accordance with all applicable NJDEP regulations. This will include a double-lined composite leachate containment system, a leachate collection system, a leachate treatment/disposal monitoring system, a final capping system, a surface drainage control system, and a gas venting system.

Weston/Alaimo, the County's consulting engineers, is currently performing technical evaluations on the three candidate sites and is expected to make a recommendation on one site in late spring. After a recommendation is accepted, the recommended site shall be included in the County's solid waste management plan as the site for the proposed sanitary landfill.☐

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the recyclable material, telling them they are not in compliance with New Jersey's recycling law and Morris County's District Recycling Plan. Glenn also spends time outside of the transfer stations, entering violations into a computer database and maintaining non-compliance files.

In 1989, Glenn documented almost 1,000 violations. But the good news is that almost 75 percent of those notified that they are in violation, respond to those notifications. The vast majority of the responses are positive, resulting in the establishment of new or improved recycling programs.

Many businesses contacted for non-compliance are unaware that they are supposed to recycle. They are helped by a commercial recycling packet assembled by the MCMUA recycling staff, which explains how to set up a

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Executive Director

recycling program. County staff and municipal coordinators often follow up with site visits to offer suggestions or inspect new programs.

The MCMUA inspection program complements and strengthens local en-

"In 1989, Glenn documented almost 1,000 violations."

forcement efforts. Many municipalities now are conducting their own curbside inspections, to "sticker" violators before the trash leaves the "source." Both efforts, local and County, have been stressing education and encouragement, rather than punishment. The result is that there are fewer violations at the transfer stations and more recyclable material headed for recycling centers to be reprocessed.

It is an added responsibility for the municipal recycling coordinators to see that the businesses and institutions in their towns are recycling. A tremendous amount of tonnage will be added to recycling figures when businesses comply and fewer non-compliance letters will have to be sent. □

...UPDATE

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MOUNTAIN LAKES - Steve Tripp has been named recycling coordinator for the borough. He can be reached at 366-8906.

PARSIPPANY - In January, Joseph Linfante took over as full-time recycling coordinator for the township. The township will be holding a recycling contest among the schools starting the week of April 23. Classes will collect all kinds of paper in a container and at the end of a month each school's paper will be weighed to determine a winner. The winning school will receive a monetary gift to put towards a school event such as a picnic. Another event, Parsippany Day, on May 12, will feature Recycle Pete marching in the local parade.

ROXBURY - In February, Roxbury started curbside pickup of plastics, junk mail (including magazines) and corrugated cardboard. The plastics include all plastic containers that have held liquid (milk, soda, detergent, etc.). □

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