



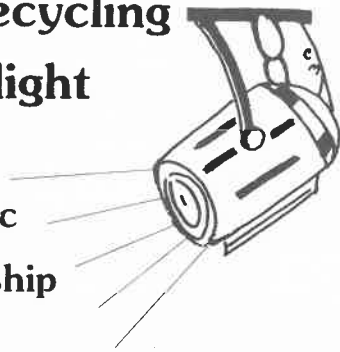
# Resource Recovery Report

Vol. 1, No. 2

Autumn, 1982

## Recycling Spotlight

### Passaic Township



Passaic Township's recycling program is a prime example of success through consistent volunteer energy.

The program, started 10 years ago by a small group of Girl Scouts, now enlists the volunteer power of 12 service organizations. They are:

Stirling Boy Scouts, TOPS Rescue Squad, Millington Boy Scouts, Police Explorers, Passaic Township Jaycees, American Legion, Millington First Aid Squad, Knights of Columbus, Girl Scouts, Grange, Stirling Presbyterian Youth Group, and Stirling Fire Company.

Every Saturday, one of these groups mans the drop-off center at the Township public works yard. The drop-off center has storage bins for separated glass and aluminum, an in-ground tank for used oil, and a trailer for newspaper.

Judy Schmidt, Recycling Chairman, reports that every Saturday, an average of 120 cars visit the center. Some of these cars are carting recyclables generated by a number of families. Every month the volunteers recycle an average of 9¼ tons of newspaper, 5¼ tons of glass, 375 pounds of aluminum, and 100 gallons of used motor oil. The

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These are only a few of the many volunteers that make Passaic Township Recycling move. Kneeling at left is Judy Schmidt, Recycling Chairman.

## Grants Completed

Fourteen Recycling Grant Applications were submitted to the N.J. Office of Recycling by municipalities and volunteer groups throughout Morris County, meeting the September 30 deadline.

All New Jersey municipalities were eligible to apply for Program Planning Grants which will provide up to 50% of the total cost of operating and/or planning a municipal recycling program. Both municipalities and volunteer recycling groups were eligible for the Education Grants, which will provide up to 75% of the cost of recycling or litter abatement

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## Receive Solid Waste Final Report

Terraqua Resources Corporation of Reading, Pa., consultants for the Morris County Solid Waste Advisory Council, delivered their final report to the county on September 29, 1982. The report recommended that the county select Site 5-5 in Roxbury Township as the designated regional sanitary landfill for Morris County's solid waste.

The recommended site comprises 333 acres and has an anticipated lifetime of 9.3 years. Initial development cost of this site is estimated at \$19.2 million dollars. Tipping fee would be approximately \$12.15 per ton.

The site was selected over three

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## Regional Recycling Coalition

The creation of a **regional recycling coalition** may be the answer for some towns which are eager to recycle. Through the development of a joint municipal service agreement, several municipalities can share expenses for operating a recycling collection, or perhaps constructing a centralized recycling depot.

There are a number of advantages to a joint municipal services agreement. The costs for planning and implementing a recycling program are spread over a larger population. Because more people are involved, a greater volume of materials can be recovered which increases the marketability of materials. Moreover, by joining together to form a stable recycling program, more people benefit from having access to a convenient recycling system.

There are two major avenues for reaching a joint municipal service agreement. The more appropriate means is through an Interlocal Services Agreement. The Interlocal Services Act (N.J.S.A. 40:8A et seq.) permits municipalities to enter into a single service contract covering all of them. For municipalities to partake in an interlocal services agreement, all parties must be authorized to do so through the passage of identically worded ordinances. The terms of the service contract must include the type of service, criteria for evaluating performance, a cost and payment schedule, and the duration of the contract. The service designated by the contract can be provided by one or all parties involved, or by a private contractor.

An alternative means of obtaining a joint municipal service agreement is through a joint purchasing agreement (N.J.S.A. 40A:11-10 of Local Public Contracts Law). Under this provision, municipalities may agree to share the costs of labor and supplies for a recycling service.

Either the interlocal service agreement or the joint purchasing agreement can be used to develop a regional recycling coalition. Legal consultation will help municipalities determine the more appropriate route. The Department of Community Affairs must review and approve all recycling



Glass crusher at Leprechaun Bar, Morristown, was installed by Glass Cycle Systems, Inc.

## Beer Bottle Bounty

Can anything good possibly become of the millions of bottles left over from one of America's favorite pastimes? Do bar owners have an alternative to the dilemma of disposing of mountains of beer bottles every week? Can a municipality actually benefit from its beer drinking establishments? The answer to all of these questions is yes.

Bar owners are learning that by crushing their bottles, they can drastically reduce their waste volume. In addition, instead of paying high hauling charges for disposing of their glass, they can sell the cullet (crushed glass) to a glass recycling market.

Glass crushers, which can be installed right under the bar counter and operate with a minimum of noise, are now available. There are manufacturers who sell and lease the crushers and even manufacturers who lend the machines on consignment in exchange for the cullet (see Recycling Guide). The bar owners can sell the crushed glass, and provide their municipality with weight slips. The municipality can then use the weight slips when applying for a Recycling Fund Tonnage Rebate at the end of each year.

Generally establishments which have large volume bottled beer sales are best suited for using the crushers. Currently 15 bars in Morris County have in-bar glass crushers and recycle cullet. Smaller bars and restaurants can also sell their bottles for recycling without crushing them, or donate them to a local recycling effort.

Although the glass crushing and recycling system is spreading by word of mouth through bar owners, municipalities can encourage these activities by informing their local establishments of the services available to them (see Recycling Guide). The small effort of educating local business will be greatly rewarded when tonnage grant rebates are distributed.

### Look for Centerfold Recycling Guide in This Issue

In this issue of Morris County Resource Recovery Report, we have added a special Recycling Guide for use as a reference.

One side of the Guide lists all of the recycling activities currently taking place within Morris County.

The second side contains lists of bar and restaurant glass buyers, office paper buyers, and licensed used oil haulers in Morris and neighboring counties.

The intent of this listing, is to provide municipalities with the information needed to involve local business in municipal recycling activities.

contracts (N.J.S.A. 40A:11-15.4). Refer to the following for further information:

- 1) Karen M. Asunmaa—N.J. Dept. of Community Affairs (609) 292-5365.
- 2) Tony Angelini — N.J. Bureau of Financial Regulations (609) 292-4806.
- 3) Lauren S. Roman — Morris County Recycling Coordinator 285-6183.

### Let's Recycle

"Let's Recycle," a booklet designed for children in Massachusetts, where one of the nation's first full scale source separation program was tested, is available from the New Jersey Office of Recycling. Telephone 648-6295.

# Morris County Recycling

October, 1982

**\*Boonton** — Newspaper only, clean glass — curbside collection every 1st Tuesday.

**Boonton Twp.** — Periodic newspaper depot — Rockaway Valley Methodist Church. Call 335 - 2606 for next open date.

**Chatham** — Newspaper only, glass, all aluminum cans — Chatham H.S., 2nd Sat. 8 A.M. - noon.

**Chatham Twp.** — Newspaper only, glass, all aluminum cans - 4th Sat. 8 A.M. - noon, Corpus Christi Church.

**Chester** — Contact Boy Scout Troop 9. Leader Mel Blaufuss at 543 - 4589 for newspaper drive dates.

**Chester Twp.** — All paper separated, all aluminum cans, glass — 1st Sat. 9 A.M. - noon, A&P Rts. 206 and 24.

**Denville** — Newspapers - 2nd Sat. 9 A.M. - Noon. Union Hill Church, Franklin Rd. (1 block S. of Rt. 10). Newspapers anytime - shed behind Christian Ed. Bldg. at church. Glass and newspaper only anytime - public works garage Morris Ave.

**\*Dover** — Newspapers only and all aluminum cans — curbside collection every Wednesday before 8 A.M. (No collection if snow or rain before 8 A.M.)

**East Hanover** — Glass and aluminum - 7 days at public works garage, Melanie Lane.

**Florham Park** — Newspaper only, glass - 2nd. & 4th. Sat. 9 A.M. - noon. Environmental Center, Columbia Turnpike E.

**Hanover Twp.** — Glass - 7 days at public works garage, 25 N. Jefferson Road. Newspaper only - 7 days at Whippany Fire Dept. or call 887 - 0100 for pick-up dates. Curbside leaf vacuuming Oct. 15 - Nov. 30. Newspaper and high grade paper - Mon. - Fri., 8 A.M. - 5 P.M. & Sat. 8 A.M. - 1 P.M. purchased by Morris Co. Recycling, 26 Ridgedale Ave., Cedar Knolls.

**Harding Twp.** — Glass, tin, aluminum, paper - 1st. Sat. 9 A.M. - noon, Harding School parking lot.

**Jefferson Twp.** — All separated paper - 7 days, public works garage, Minisink Rd. Newspaper only 7 days - Milton United Methodist Church, Milton Rd.

**Kinnelon** — Glass, metals, newspapers, leaves, brush - 7 days, public works garage, Kinnelon Rd. Newspaper, glass - 1st. Sat., Reformed Church of Kinnelon parking lot.

**\*Lincoln Park** — Newspaper only — Call 694 - 6100 for curbside collection schedule.

**Madison** — Newspaper only, glass - 3rd. Sat., 8 A.M. - 11:45 A.M., Borough yard at end of John Ave.

**Mendhams** — All separated paper, glass, aluminum - 2nd. Sat., 9 A.M. - 1 P.M., behind Foodtown, Rt. 24 west.

**Mine Hill** — Paper, glass, aluminum - Every Sat. 9 A.M. - noon, Road Dept. yard, Baker St.

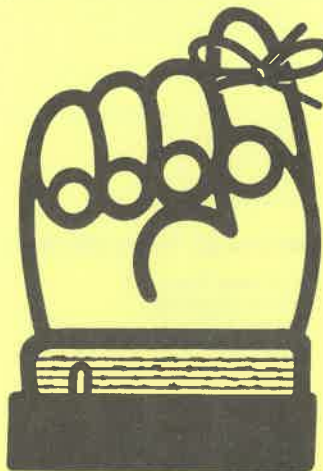
**Montville** — Newspaper only, glass, aluminum - every Sat. 9 A.M. - noon, rear municipal Bldg., River Rd.

**Morris Plains** — Newspapers only - curbside Oct. 3 & Dec. 5.

**Morristown** — Newspaper only - Mon. - Fri. 8 A.M. - 5 P.M. Market Street Mission, Lincoln & George Sts.

**Morris Twp.** — Newspaper only, glass - 9 A.M. - 1 P.M. every Sat. at Depot, Lake Rd.

## Recycling Tips to Remember



### Preparation Standards

**Newspaper Only:** No magazines, cardboard, etc. Tied in approx. 12" high bundles.

**Glass:** Remove caps and rinse. Color sort if specified. Labels may remain. Rinsing also prevents odor during storage.

**All Aluminum Cans:** Magnet will not stick to any part. (Usually say "All aluminum." Test with refrigerator magnet).

**Mt. Arlington** — Glass - 7 days, next to Knights of Columbus Bldg., Howard Blvd.

**\*Mt. Olive Twp.** — Newspaper only - curbside collection, 3rd. Mon. Yard wastes - every Mon. in season. Newspaper only - curbside collection or at Flanders A&P, 1st. Sat. 10 A.M. - 12:30 P.M.

**Mountain Lakes** — Newspaper only, all aluminum cans, color separated glass - last Sat., Jan., Mar., April, June, July, Sept., Oct., Nov. behind boro garage.

**Parsippany** — Newspaper only - last Sat. 10 A.M. - noon, Grafton Dr. cul-de-sac in Sedgefield Development off Rt. 202 S.

**Passaic Twp.** — Newspaper only, all aluminum cans, glass separated into clear and colored - every Sat. 9 A.M. - noon, Warren Ave., Stirling (next to Youth Center.)

**Pequannock** — Yard wastes - Lincoln Park Rd. Leaf Depository (adj. to Pequannock School), curbside vacuuming Nov.-Dec.

**Randolph Twp.** - Newspaper only - regular trash days. 361 - 2000 for volunteer drive dates. Newspaper only - Ironia Firemen's Assn. trailer, Dover - Chester Rd.

**Riverdale** — Newspaper - 1st Sun., Hamburg Turnpike drop-off center.

**Rockaway** — Newspaper only, all aluminum cans - 7 days, Sacred Heart School rear garage, E. Main St.

**\*Rockaway Twp.** — Newspaper only - regular trash days. Oil - 627 -7200 for locations.

**Roxbury Twp.** - Glass - 7 days, Horseshoe Lake, Succasunna. Newspaper - 2nd. Sat. 9 A.M. - 5 P.M., Redeemer Lutheran Church, Eyland & Uniburg Aves., Succasunna. 584 - 8805 for pick-up. Newspaper - 1st. Sat., United Methodist Church parking lot, 91 Main St. All aluminums, lead-acid car batteries - 7 days Berkshire Valley Firehouse.

**\*Victory Gardens** — Newspaper only, glass-curbside collection every Thurs.

**Washington Twp.** — Newspaper - 3rd. Sun. at 1 P.M., N.I.A. Insurance parking lot, Westmill Rd. All aluminum cans, glass separated into clear and colored — 8 A.M. - noon every Sat., drop-off center, Rock Rd. near Flocktown.

**\*Wharton** — Newspaper only, glass, aluminum - 2nd. Wed. at curbside. Tires, newspaper, glass, aluminum - Mon. - Fri., drop-off center, N. Main & Pine Sts. Newspaper, high grade paper, all aluminum cans - Mon. - Fri. 8 A.M. - 5 P.M. and Sat. 8 A.M. - 1 P.M. purchased by Rockaway Valley Recycling Center, 244 E. Union Turnpike. Glass - every Thurs. 12 - 4 P.M., Thatcher Glass, Main & Washington Sts.

\* Municipalities which have mandatory recycling programs.

County	Town	Company	Telephone
<b>Glass Markets (1)</b>			
Essex	Newark W. Orange	Cash for Glass Menkes Municipal Service	642-4743 731-8563
Morris	Wharton Butler	Thatcher Glass Glass Cycle Systems (2)	361-2110 838-0034
Passaic	Clifton	Zozzaro Bros. Inc.	772-0253
Union	Hillside	Recycling Enterprises, Inc.	688-8292
<b>High Grade (office) Paper Markets</b>			
Essex	Fairfield Irvington Newark	W. Essex Recycling Center A&P Paper Stock R&S Waste Paper Co. Recycled Fibers Corp. Arrow Paper Co. E. Salerno & Sons M. J. Carlo and Lorenzo, Inc. Newark Recycling, Inc. P. Pepe Sons, Inc. Paper Recycling Corp. Patsy Ragonese & Sons Fiber Supply Industries, Inc. A. Trezza & Nine Sons	227-4441 374-1750 344-3277 589-6858 589-4665 589-6273 622-5180 643-0400 589-0479 485-2009 344-7411 589-4611 674-7462
	Orange		
Morris	Cedar Knolls Madison Wharton	Morris Co. Paper Recycling Center JLR Paper Co. Rockaway Valley Recycling Center	540-8886 543-4609 528-7080
Passaic	Clifton Passaic Paterson	Zozzaro Brothers, Inc. Occidental Metals, Inc. Annex Paper Stock Co. Joseph Damato Paper Stock M. Politinsky & Sons, Inc. R. Lobosco & Sons, Inc. Tabulating Card Salvage	772-0253 777-8747 345-3003 345-2293 942-4767 742-9429 742-1132
Somerset	Somerset	Colgate Paper Stock Co., Inc.	246-8446
Union	Elizabeth Hillside Linden Plainfield Roselle	John Rocco Scrap Material Inc. Hillside Paper Co. A&J Sorrentino, Inc. Union Salvage Great Eastern Packaging	355-4202 923-6454 862-3131 757-2408 245-6511
<b>Registered (3) Waste Oil Haulers</b>			
Essex	Elizabeth	Anderson Waste Oil BFI of Elizabeth Robert P. Usa, Jr. Active Oil Service John H. Guy Lawrence P. Hisko National Tank Cleaning A-1 Tank Cleaning Service	289-6618 352-2222 352-7373 482-4600 442-4348 465-9165 621-8866 736-5020
	Newark		
	W. Orange		
Hunterdon	Pittstown	J. R. Sopko, Inc.	735-7690
Morris	E. Hanover Randolph Riverdale	Phill's Waste Oil Co. R&R Sanitation Service Henry J. Morrow Tank Service James E. Hoelzeman	884-1165 895-2082 831-0570 841-7020
Passaic	Paterson	Olen & Hassold, Inc.	345-4000
Somerset	Bridgewater Somerville	Capital Waste Oil Inland Pollution Services	658-3241 442-4348
Sussex	Lafayette Newton	Tri-State Waste Disposal Ned's Waste Oil	383-9973 584-0090
Union	Union	Schering Corp.	588-5781

Other known haulers serving Morris County:  
Fayetteville, Pa. Baumgardner Oil Co., Inc. — 717-352-7078  
Valley Forge, Pa. Petrocon Corp. — 215- 383-5262

(1) A list of glass crusher manufacturers will be available soon. The manufacturers sell both the in-bar models, and the drum top models. Call 285-6183 for a copy.

(2) This company also has in-bar glass crushers available on consignment and for sale.

(3) These haulers have been registered by the Division of Waste Management of the N.J. Department of Environmental Protection (NJDEP) as of July 3, 1982, and are, therefore, in compliance with the DEP's special waste manifest system, N.J.A.C.7:26-7 et seq.

## SWAC Considers 5 Proposals

The Morris County Solid Waste Advisory Council is presently considering proposals from five consulting firms to provide services in evaluating the feasibility of various resource recovery options. The contractors under primary consideration include Burns & Roe, Camp Dresser & McKee, Malcolm Pirnie, Terraqua Resources Corp., and Roy F. Weston. All five firms have extensive experience in resource recovery implementation.

The initial scope of work calls for the consultant to evaluate alternative resource recovery technologies and to recommend a preferred system to be implemented in Morris County. Commercially available technologies include mass burning unprocessed refuse in a waterwalled incinerator and the combustion of pre-processed waste in a dedicated boiler. Either technology is capable of producing steam and electricity.

The consultants will also assess the viability of potential users of refuse derived energy in Morris County. The initial study will be limited to Picatinny Arsenal, a potential user of steam and electricity and the Jersey Central Power and Light Company. Various other industrial and institutional facilities may also be evaluated. Preliminary siting analyses will also be performed. The selected consultant will be paid in part by a \$40,000 grant to Morris County from the DEP.

According to Kenneth Gallagher, Morris County Solid Waste Coordinator, the completed studies will complement the planning efforts being carried out in his office. These studies will enable the County to complete a comprehensive Solid Waste Management Plan Update in 1983, and will form the groundwork for the implementation of resource recovery in Morris County.

The Solid Waste Advisory Council is expected to recommend selection of a consultant at its October 20th meeting.

### Free Information

Garden State Paper Co. offers free presentations to schools. Call Sandy Batty at 263-1793 or Kathy D'Ambrosio at 335-2264.



Mrs. Pauline Gunther of Mendham Garden Club tallies another tree for recycling.

## "Trees for Trash" A Unique Program

There are many, many ways to draw more people to your recycling program. One way, which has become an asset to the Mendhams' Recycling Program is the Mendham Garden Club's "Trees for Trash" project. Each time a person visits the recycling drop-off center (see *Recycling Guide for time and location*), they report to the Garden Club table where a hole is punched on an index card containing his or her name and address. If a person brings in recyclables every month, this card will contain 12 holes at the end of the year. Then, once a year, the Garden Club issues free evergreen seedlings to everyone in their card file. One tree is distributed for each hole shown on the card.

One Mendham resident was motivated to recycle every month saying "The more trees I get, the less lawn I have to mow!" Contributors to the recycling collection all seem to like the "Trees for Trash" program.

## Solid Waste/Energy Curriculum

A New Jersey State Validated Solid Waste/Energy Curriculum is available for use in grades kindergarden through 12. The curriculum was designed by the Conservation and Environmental Studies Center, Inc. (CESC) in Browns Mills, N.J. and has been met with great enthusiasm in the 40 N. J. School districts in which it has already been instituted.

The Solid Waste/Energy curriculum covers such issues as landfilling and the waste disposal dilemma, recycling, litter abatement, and hazardous wastes. These are instructed through interdisciplinary and multi-disciplinary activities provided by the curriculum.

Dr. V. Eugene Vivian, director of CESC explains that the curriculum is designed as a "take it or leave it" program, meaning that teachers can choose any section they wish without becoming bound to a rigid teaching schedule. This way a teacher may choose to use a section for science, English, social studies, math lessons, even art.

## Morris Officials To Tour Florida Site

Arrangements have been made for Morris County officials to visit the Dade County, Florida waste-to-energy facility in early November.

Freeholder Director Fred Knox said that this facility differs from others visited previously in that the refuse is processed prior to combustion. The plant, operated by Resource Recovery, Inc. is the largest of its kind in the U. S. rated at 3000 tons per day. It has been in operation since January, 1982 and is presently processing 80% of its rated capacity.

Glass, metal, and other "heavies" are removed from the refuse and the light fraction is wet pulped to form a fluff refuse derived fuel (RDF). The RDF is then burned in a dedicated boiler and electricity is generated for internal use and sale to the power company. Operators of the facility contend that their approach is superior to mass burning since the burnable fraction is more homogeneous, has a higher heat content, and results in less residual material.

As always, no matter how large or elaborate the recovery plant, there is still the need for a landfill.

Directly adjacent to the Dade County plant site, are 80 acres set aside for landfilling. Each cell in the landfill will be constructed with plastic liners to assure that leachate does not enter the nearby Biscayne aquifer. Surface water collection systems and monitoring devices are also designed into the site.

Grants...Cont. From Page 1

educational programs.

A Recycling Grants Workshop was held in Morristown on September 9 for all interested applicants. During the workshop, which was designed to clarify the grant application process,

questions were entertained from 30 individuals representing 18 Morris County municipalities.

The following table lists applicants and the grants for which they applied:

Applicant	Program	
	Planning	Education
1. Chester Township		x
2. Dover	x	x
3. Jefferson Township	x	x
4. Lincoln Park Borough	x	x
5. Montville Township		x
6. Morristown	x	x
7. Morris Township	x	
8. Mountain Lakes Borough	x	
9. Mountain Lakes Jr. Women's Club		x
10. Mt. Olive Township	x	
11. Randolph Township	x	
12. Recycling Committee of the Chathams		x
13. Rockaway Township		x
14. Wharton Borough	x	x

The applications have been reviewed for compliance with the Morris County Solid Waste Management Plan. Endorsements for all applications have been sent to the Grants Review

Committee from the County Solid Waste and Recycling Coordinators.

Announcements for grant awards are expected in late November.

## Free Signs Available

The N. J. Office of Recycling has initiated their Uniform Sign Award Program. Both recycling drop-off programs and municipal curbside programs may be eligible for the signs.

To be eligible, a recycling depot must be a permanent facility which accepts 3 or more materials. The center must operate during weekend or evening hours and expect to remain open for at least 2 years. The drop-off center should have a designated traffic pattern, and clearly marked bins for materials.

The approved drop-off centers will receive an entrance sign with the name of the center. In addition, 6 directional signs showing a recycling symbol, the words "Recycling Center" and a directional arrow will be awarded for placement at strategic intersections.

Signs will also be awarded for curbside programs. To be eligible, the collection must operate throughout the municipality and provide curbside service for at least 2 materials. At least one pick-up per residency must be made each month.

Curbside programs meeting these requirements will receive up to 10 street signs the size of no-parking signs for posting throughout the community. The signs will have the town's name and the N. J. Recycling symbol to display state recognition.

For application guidelines contact Lauren Roman at the Planning Board.

Final Report...Cont. From Page 1

others located in Mt. Olive and Rockaway Townships, based upon an objective ranking process employed by the consultants. This process involved environmental, engineering, transportation, regulatory, and design considerations with various criteria embodied in each of these areas. Each site was given a raw score for each criteria and independently determined weighing factors were then applied to achieve a weighted score. These scores were then summed under eight different ranking scenarios to determine the final ranking.

The Solid Waste Advisory Council is expected to act on the recommendations at their November 17, 1982 meeting. Following SWAC action the Freeholder Board and the New Jersey Department of Environmental Protection (NJDEP) must approve the selected site. A Public Hearing will be scheduled prior to Freeholder action on a SWAC recommendation.

### SOLID WASTE STAFF

- Kenneth Gallagher  
*Solid Waste Coordinator*
- Glenn Schweizer  
*Senior Planner*
- Lauren S. Roman  
*Recycling Coordinator and Editor*

The final rankings are as follows: No. 1 Site 5-5 (Roxbury Township); No. 2 Site 6-1B (Rockaway Township); No. 3 Site 6-1A (Rockaway Township); and No. 4 Site 5-2 (Mt. Olive Township).

Passaic Twp.,... Cont'd. From Page 1

proceeds from the sale of materials are pooled and divided evenly among the groups twice annually.

"Although our program is 10 years old, we continue to collect more materials, said Ms. Schmidt. The aluminum bin is new and the glass bins have been extended to handle increasing loads. In an effort to continue this trend, Ms. Schmidt and other volunteers will visit township elementary schools this fall to speak on the importance and how-to of recycling.

The township's program is an enduring example of how group commitment and an educated community add up to a prosperous program for all.