

Suggested Improvements for the Non-Residential Recycling Program

Lower Swatara Township
Recycling Committee



Picture is from the PA DEP Website

May 2000

 **Gannett Fleming**

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Background

The Pennsylvania Department of Environmental Protection (PA DEP), the Governor's Center for Local Government Services, the Pennsylvania State Association of Township Supervisors (PSATS) and the Solid Waste Association of North America (SWANA) formed a training partnership for Pennsylvania local governments interested in achieving higher recycling rates. Through this partnership, Lower Swatara Township was awarded a \$5,000 grant to receive recycling technical assistance from Gannett Fleming, Inc.

Introduction

Lower Swatara Township currently contracts with York Waste Disposal Inc., for curbside recycling collection for all residential properties. Materials collected include glass bottles and jars, aluminum, steel and bi-metal cans, and plastic bottles with necks, newsprint, junk mail, and magazines. Curbside recycling is collected on a weekly basis. Garbage and recycling collection costs to residents is \$107.82 bi-annually. According to Jean Arroyo, the residential recycling program is currently meeting the Township goals.

Non-residential recycling in the township is independent of the residential program. Non-residential establishments have the option of either contracting a commercial recycling hauler or transporting their recyclables directly to commercial recycling drop-off bins. Non-residential establishments include offices, restaurants, grocery stores, retail shops, service shops, schools, nursing homes, churches, apartment buildings of four or more units, parks, and any other non-residential or multi-family facility. In accordance with Pennsylvania State Act 101 (P.S. Act 101) and Lower Swatara Township Ordinance No. 358, all non-residential establishments are required to recycle cardboard, office paper, and aluminum cans. Local establishments are also encouraged to recycle glass, plastics, newspaper, and any additional recyclable items that may contribute to waste reduction. A receipt must be obtained for the weight of each recycled item, and reported to the Township on a quarterly basis. Despite the requirement, the Township does not have the full participation of the non-residential establishments. The Township is looking for alternatives to increase program participation by local establishments as well as to increase the quantity of recyclables collected.

Method

The purpose of this recycling survey is to summarize the current status of the non-residential recycling program as well as to offer recommendations for its improvement. To increase program participation and quantities recyclables collected, the Township's technical assistance will include a determination of alternatives to its current drop-off program. This process will include three tasks:

Task 1 Gannett Fleming will evaluate current recycling tonnage information available and any information developed and analyzed by the Township Recycling Committee.

Task 2 A survey of non-residential establishments and other appropriate individuals will be conducted to determine the feasibility of developing a commercial drop-off site within the Township. The evaluation process will include: 1) An assessment of current non-residential establishment participation in the recycling program; 2) Probability of participation and use of a non-residential drop-off site in the Township; and, 3.) Recommendation on non-residential drop-off site development.

Task 3 Develop a Non-Residential Drop-Off Site Concept Plan. This plan will include recommendations to start-up a drop-off site to improve current recycling program participation by Township businesses and a sketch plan of a drop-off site.

The recycling survey will also evaluate and recommend compliance measures that could be implemented by the Township. These measures will be directed toward increasing non-residential establishment compliance with existing recycling requirements, and any future non-residential recycling initiatives.

Task Completion to Date

Task 1: Non-Residential Recycling Information Available

In accordance with P.S. Act 101, the Township requests annual reports from commercial establishments to determine the types and quantities of recyclables collected. According to the Township Business List of February 18, 2000, there are 192 non-residential establishments. The list includes all offices, restaurants, grocery stores, retail shops, service shops, schools, nursing homes, churches, apartment buildings of four or more units, parks, and any other nonresidential or multi-family facility. Of the 192 local establishments, 90 provided an annual recycling report as of May 10, 2000, which corresponds with a response rate of 47%.

From the annual recycling reports that the Township received, the two main recycling contractors serving the Township are Waste Management and York Waste. Waste Management serves 51% of companies that reported and 68% of the represented workforce. Conversely, York Waste serves 26% of the companies, but only 9% of the workforce. Other licensed recycling contractors that serve local establishments include: Harrisburg Waste Paper Company, Tri-State Recyclers, Gordon Waste, and the Department of General Services. Please note that these figures represent only the 47% of the establishments in the Township. If more establishments had reported, the percentages would probably be different.

Cross Referencing Guide

Table 1

List of Act 101 Reporting Establishments

Table 2

List of Act 101 Non-Reporting Establishments

Appendix 1

Business List 2/18/2000

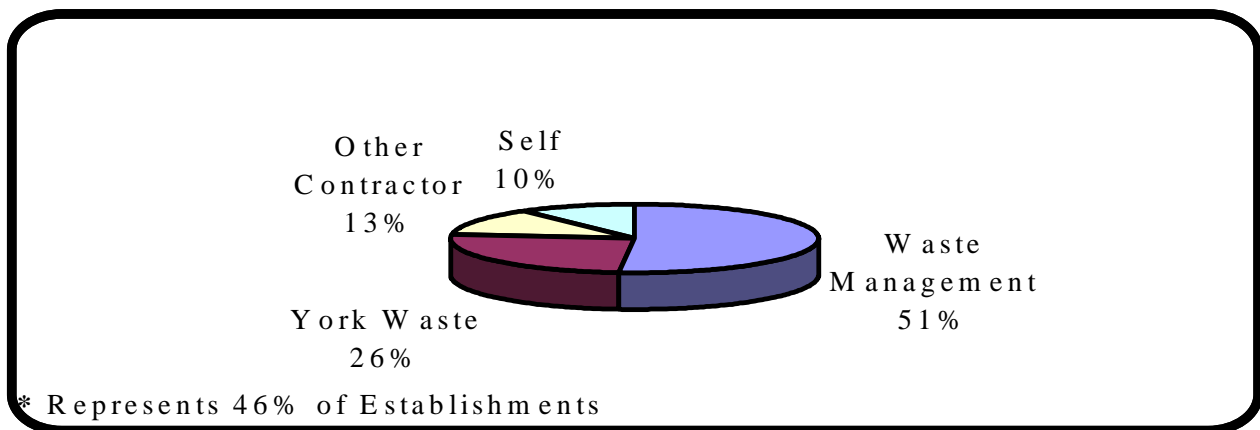


Figure 1: Companies Served by Local Recycling Contractors

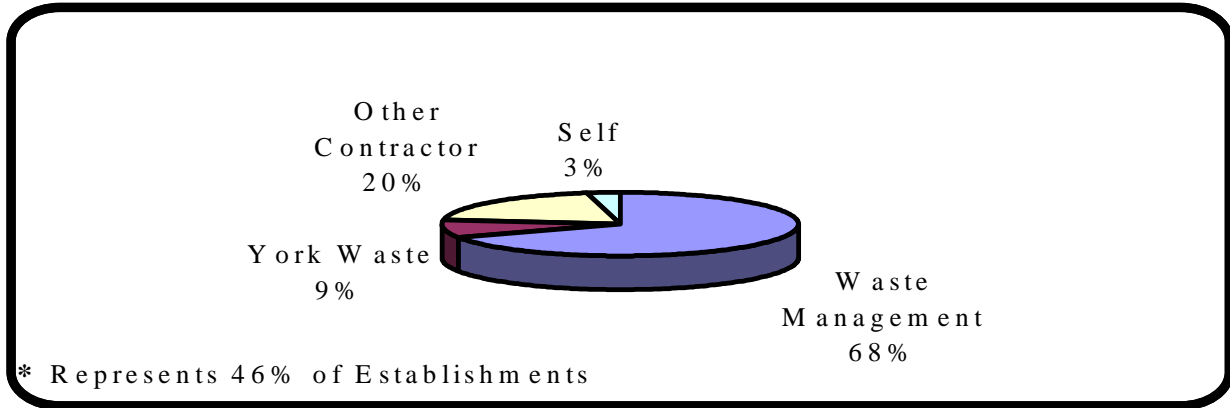


Figure 2: Workforce Served by Local Recycling Contractors

The total amount of recyclables collected from non-residential establishments in 1998 was 1,421.5 tons. Waste Management and York Waste collected 1,193 tons of the recyclables, which is 84% of the non-residential tonnage that the Township reported to the PA DEP. The reported tonnage includes all non-residential establishments that have contracted either Waste Management or York Waste for recycling regardless of whether the establishment provided an annual report to the Township. Some of the establishments that did not provide an annual report to the Township may have contracted a recycler other than Waste Management or York Waste, and therefore the 1,421 tons that was reported to the PA DEP may be lower than the actual amount.

Typical recycling rates for commercial establishments average between 2 and 3 pounds of recyclables per person per day with cardboard, which often accounts for 90% of the total weight. With 7,200 people working in Lower Swatara Township and a 260-day working year, then the Township should be collecting between 1,800 and 2,800 tons of recyclables per year. Therefore, non-residential recycling rates in the Township are lower than average.

Cross Referencing Guide

Appendix 1
1998 Commercial
Recyclers Hauling Reports

Appendix 1
PA DEP Correspondence
4/24/2000

Task 2: Non-Residential Recycling Analysis

The 90 establishments that provided Act 101 annual reports were evaluated to determine ways to improve recycling rates. Each facility provided a list of materials that are recycled. This list was compiled to generate the Table 3, which excludes businesses of less than 5 people (extremely small businesses).

Table 3: Recycling Rates of Non-Residential Establishments

| Product Recycling | Percent of Establishments* |
|--------------------------|-----------------------------------|
| Cardboard | 56.3% |
| Paper | 56.3% |
| Aluminum | 57.5% |
| Glass | 27.5% |
| Plastics | 31.3% |

* Does not include extremely small businesses

Intuitively, all establishments generate some cardboard, paper, and aluminum waste. Some types of establishments may generate, for example, minimal amounts of cardboard waste. So, if the 90 establishments are subdivided by type, a better evaluation of the needed improvements can be determined. Types of establishments include manufacturing, distribution, human services, and food services. A listing of establishments and their classifications can be found in Table 4. Establishments were selected for a category on the basis of the description given in the annual recycling report to the Township. Table 5 shows recycling rates by establishment type.

Cross Referencing Guide

Table 4
Establishment
Classifications

Table 5: Recycling Rates by Establishment Type

| Product Recycling* Letter Code | Manufacturing A | Distribution B | Human Services C | Food Services D | Avg of Listed Letter Codes | Letter Codes Used for Avg |
|--|---------------------------|--------------------------|----------------------------|---------------------------|-----------------------------------|----------------------------------|
| Cardboard | 72.2% | 82.6% | 28.6% | 60.0% | 74.9% | A, B, D |
| Paper | 72.2% | 39.1% | 67.9% | 30.0% | 67.9% | C |
| Aluminum | 50.0% | 39.1% | 78.6% | 50.0% | 58.4% | A, B, C |
| Glass | 5.6% | 21.7% | 39.3% | 50.0% | -- | |
| Plastics | 11.1% | 13.0% | 64.3% | 20.0% | -- | |
| # of Facilities in the Category | 22 | 24 | 32 | 10 | | |

* Does not include extremely small businesses

Relatively large quantities of cardboard waste are likely to be generated by manufacturing, distribution, and food service businesses. Some human service offices may accumulate a minimal amount of cardboard, and therefore have little need for recycling the material. The last column of the table shows a weighted average for the types of establishments that are likely to generate the recyclable material. So, for cardboard, the average recycling rate among manufacturing, distribution, and food service companies (columns A, B, and D) is 74.9%. Realistically, a 25% improvement can be expected of non-residential establishments for cardboard recycling.

Human service offices generate greater quantities of high-grade paper waste relative to manufacturing, distribution, and food service organizations. Only 67.9% of human services, however, claim to be recycling high-grade paper.

All non-residential establishments are expected to generate aluminum can waste, especially if there is a soda vending machine on the premises. Food services, which commonly use soda fountains, are less likely to generate aluminum waste. So for the establishments that are likely to generate aluminum recyclables, 58.4% reported that a recycling program for aluminum has been setup.

Of the 102 establishments that did not provide an annual recycling report to the Township, at least 30 have contracts for recycling. Dave Simko, Division Site Manager, stated that Waste Management has 60 commercial contracts for recycling in Lower Swatara Township of which 41 provided an annual report to the Township. David Murphy, Satellite Manager, stated that York Waste has 30 commercial contracts. Twenty of these establishments provided an annual report. We can assume that 10 (or 10%) of the non-reporting establishments are hauling their recyclables to a drop-off bin. Therefore, it appears that approximately 60 establishments are not recycling, which is 30% of all non-residential establishments.

Non-residential establishments that are not recycling may be interested in a shared drop-off bin. To determine the best locations for a shared drop-off bin, the facilities that did not provide an annual report were grouped by location. From this grouping, it appears that the 7 best locations for a shared drop-off bin (followed by the number of establishments which could be served) are the following:

Cross Referencing Guide

Appendix 2 Grouping of Establishments by Type

Appendix 2 Checklist of Non- Residential Establishments that did not Report

- 1801 Oberlin Road (10 establishments)
- Jamesway Plaza (9 establishments)
- 1000 block of Eisenhower Blvd. (6 establishments)
- 2000 block of North Union Street (5 establishments)
- 2200 block of West Harrisburg Pike (5 establishments)
- 2800 block of Turnpike Industrial Dr. (4 establishments)
- 1011 A.I.P. Drive (3 to 4 establishments)

Cross Referencing Guide

Table 6
Location Grouping
for Establishments that
may not be Recycling

Task 3: Recommendations

Task 3 involves recommendations for developing drop-off locations for recycling and improving participation in the current recycling program. At this time, sketches of drop-off sites have not been provided. In order to determine the numbers and locations of shared drop-off sites, the following tasks are proposed:

1. Establishments that did not submit an annual recycling report can be contacted, and encouraged to report. A list of companies that did not submit an annual report and their contact information is provided in Table 2.
2. Flyers or newspaper articles can be published regarding the Township’s commercial recycling goals. A reasonable goal without commercial growth is 2,300 tons per year. If all non-residential establishments recycle the Act 101-mandated materials, this goal is achievable. With commercial growth, the goal can be increased proportionally by multiplying the number of people who work at the facility by 0.325 tons of recyclables per year.
3. When the establishments that are not recycling are identified, they can be contacted about bin sharing. Several shared drop-off bin locations are possible, with notable ones at the Jamestown Plaza, which could serve nine establishments, and 1801 Oberlin Road, which could serve 10 establishments.
4. Posting the names of non-residential establishments that will not comply with Act 101 and Township recycling requirements in the local newspaper may help to achieve compliance. The threat of bad publicity is often just as effective as the threat of a fine.
5. Chart the success toward achieving the Township’s recycling goals with the quarterly reports from York Waste, Waste Management, and other recycling contractors, and keep the community informed of the Township’s progress.

Conclusions

With 192 non-residential establishments and 7,200 people employed in Lower Swatara Township, 1,421 tons of recyclables collected in a year is lower than expected. It is estimated that 30% of the non-residential establishments are not recycling. When these establishments start recycling, and the establishments that provided the Township with an annual improve recycling rates by 25%, the Township can expect reports of 2,300 tons of recyclables collected per year. These numbers assume that the number of non-residential establishments in Lower Swatara Township does not increase.

A goal of 2,300 tons can be met by encouraging all non-residential establishments to recycle the Act 101-mandated materials. Flyers, newspaper advertisements, and personal phone calls are all effective means to encourage recycling.

The establishments that did not submit an annual report can be encouraged to do so. Despite the lack of response, one-third of these establishments have contracted either York Waste or Waste Management for recycling. Others may be either hauling recyclables to a drop-off site or working with a recycling contractor other than York Waste or Waste Management. If an establishment is not recycling, there are several possible locations for bin sharing. The approval of affected landowners is necessary before drop-off bins can be centrally located on a lot.

**Lower Swatara Township
Table 1
Act 101 Reporting Establishments**

| | Business | Contact | Phone 717 | Business Type | Employ | Materials Recycled | | | | | Method | Recycle | |
|----|-------------------------------|-------------------|-----------|----------------------|--------|--------------------|----|----|----|----|--------|----------------------|------|
| 1 | Access Graphics | David Silverstein | 986-8800 | Computer Dist | 16 | CB | Pa | Al | | | | Desk, bin | WM |
| 2 | Advanced Conversion Tech | Deb Cook | 939-2300 | Manufacture | 75 | | Pa | | | | | Desk | WM |
| 3 | AEI | Amy Ahrens | 939-1100 | Freight Forwarder | 18 | CB | Pa | Al | Gl | | | Desk, bin, dropoff | WM |
| 4 | AGCO Parts Division | Gary Strong | 939-0447 | Parts Distribution | 6 | CB | | | | | | Bin | YW |
| 5 | Aldwyn Court Apts. | Frances Pond | 815-4435 | Residential Property | 1 | | Pa | Al | | Pl | | Bins | YW |
| 6 | Alignment Specialists | Bob Stone | 944-1925 | Undercar Mechanic | 1 | | | Al | | Pl | Oil | Container | |
| 7 | Allegheny Airlines | Scott Foose | 948-5400 | Airline | 100 | | Pa | Al | | | | Containers | HWP |
| 8 | American Alum & Insulation | Rick Scott | 944-0437 | Subcontractor | 120 | CB | Pa | Al | | | | Containers | BRI |
| 9 | American Steel & Alum | George Calhoun | 939-7861 | Steel Service Center | 70 | CB | Pa | Al | | | | | WM |
| 10 | AMP (See Tyco) | James Kempf | 592-3103 | | | CB | Pa | | | Pl | | Containers | WM |
| 11 | Associated Global Systems | Chuck McKendry | 939-2900 | Transportation | 12 | CB | Pa | | | | | Containers | WM |
| 12 | Bair Foundation | Jerry Anderson | 985-6450 | Foster Care | 25 | | Pa | | | Pl | | Containers | WM |
| 13 | Bax Global | Barbara HERNERSKY | 985-1300 | Cargo Airline | 8 | | Pa | | Gl | | | Bins | YW |
| 14 | Bindley-Western Drug | Steve Zortman | 944-3026 | Drug Wholesaler | 75 | CB | Pa | | | | | Containers | WM |
| 15 | Borders Group | Mark Maloney | 939-0334 | Book Distribution | 180 | CB | | | | | | | WM |
| 16 | Brinkerhoff Mobile | Carl Brinkerhoff | 985-1874 | Mobile Home Parts | 1 | | | | | | | | None |
| 17 | Charlie's Garage | Charles Cline | 985-1900 | Auto Repair | 2 | | | | | | Oil | Drums | PE |
| 18 | CoVenco | Andy Calhoun | 939-1321 | Vending, Food Mgt | | CB | Pa | | | | | Containers, bailers | WM |
| 19 | Dairy Queen | Dave Hawkins | 930-0838 | Restaurant | 20 | CB | | Al | Gl | | | Bins | WM |
| 20 | Days Inn | Ellen Sprenkle | 939-4147 | Motel | 18 | | Pa | Al | Gl | Pl | | Bin | YW |
| 21 | Dept of Revenue (Lottery) | Tom Thompson | 986-4757 | Office, warehouse | 100 | CB | Pa | Al | | | | | DGS |
| 22 | Dominos Pizza | Charles McClain | 944-4141 | Food Services | 5 | CB | | | | | | Bin | WM |
| 23 | DuPont Flooring | Jim Grogan | 939-9080 | Contract Flooring | 24 | CB | Pa | Al | | | | Containers, bins | WM |
| 24 | Eastern PA Dist C & MA | Steve Phillips | 985-9240 | Religious Services | 5 | | Pa | | | | | Containers | YW |
| 25 | Ebenezer Christian Child Care | Beth Orris | 985-1650 | Child Care | 20 | | | Al | | Pl | | Containers | YW |
| 26 | Elegant Marble Products | Dick Coe | 939-0373 | Manufacture | 9 | CB | | | | | | Bin | |
| 27 | EMKA Inc. | Doug Reeser | 986-1111 | Distributor | 20 | | | Al | | | | Drop-off | Self |
| 28 | Exel | Mark Lafferty | 901-1308 | Distributor | 22 | CB | | Al | Gl | Pl | | Bin and drop-off | WM |
| 29 | Farr Family Tire | Ken Wise | | Tire Sales | 2 | | | | | | Tires | Drop-off | Self |
| 30 | FDA Packaging | Debra Drerolf | 944-8390 | Packaging | 75 | CB | | | | | | Bailer | GW |
| 31 | Garden Chapel | Carl Lighty | 367-1903 | Church | 3 | | | | | | | | None |
| 32 | Glad Tidings Assembly of God | Arlene Garman | 944-1042 | Church | 5 | | Pa | Al | Gl | Pl | | Containers, drop-off | YW |

**Lower Swatara Township
Table 1
Act 101 Reporting Establishments**

| | Business | Contact | Phone 717 | Business Type | Employ | Materials Recycled | | | | | Method | Recycle | |
|----|------------------------------|-------------------|--------------|--------------------|--------|--------------------|----|----|----|-----|--------|---------------------|------|
| 33 | Goodwin Floor Covering | Gloria Goodwin | | Floor Covering | 0 | | | | | | | None | |
| 34 | Harry Cramer Oldsmobile | Steve Sardino | 944-0484 | Automotive | 7 | | | | | Oil | Drums | None | |
| 35 | Harry's Hot Wings | Harry Lowe | 944-8300 | Food Services | 6 | CB | | | | | | | |
| 36 | HBI of PA | James Lombardo | 939-7440 | Transportation | 20 | | Pa | Al | Gl | Pl | | Containers | YW |
| 37 | Hershey Creamery Corp. | Rolf Andersen | 238-8134 | Distributor | 25 | | | | | | | | Self |
| 38 | Highspire Memorial Post | Chris Epoca | 939-9937 | Veteran's Org | 7 | | | Al | Gl | Pl | | Containers | WM |
| 39 | Highspire Mobile Homes | Jed Yingst | 944-7437 | Home Sales | 9 | | Pa | Al | Gl | | | Containers | WM |
| 40 | J D Associates | B J Lear | 930-0622 | Manufacture | 50 | CB | Pa | | | | | Containers, bins | YW |
| 41 | JA Webster | Matt Davis | 986-9505 | Distributor | 25 | CB | | | | | | Bin | WM |
| 42 | Jack's Auto Sales | Craig Etter | 944-7363 | Auto Sales/Service | 8 | CB | | | | | | Container | YW |
| 43 | Jednota Press | Joseph Krajsa | 944-0461 | Printing | 18 | CB | Pa | Al | Gl | | | Containers | TSR |
| 44 | Karen's Catering | Karen Taylor Muro | 985-9300 | Catering | 45 | | | Al | Gl | Pl | | Containers | WM |
| 45 | Lin Garden | Qi Fun Lin | 948-3800 | | | | | Al | | | | | WM |
| 46 | Lower Swatara EMS | Dave Bollinger | 944-5959 | Emergency Services | 22 | CB | Pa | | | Pl | | Containers | YW |
| 47 | Lower Swatara FD | Jean Arroyo | 939-9377 | Emergency Service | 80 | CB | Pa | Al | | | | Containers, bins | YW |
| 48 | Lower Swatara Township | Jean Arroyo | 939-9377 | Administration | 37 | CB | Pa | Al | | | | Containers, bins | YW |
| 49 | Mack Trucks | Bill Shaffer | 939-1388 | Remanufacture | 168 | | Pa | | | | | Containers, bins | GW |
| 50 | McKesson HBOC Medical | | 986-0179 | Medical Supply | 38 | CB | | | | | | Bin | WM |
| 51 | Mechanics Savings | | 985-0100 | Bank | 6 | | | Al | | Pl | | Containers | YW |
| 52 | Mid-Atlantic Corp | Carl Dupes | 985-3300 | Credit Union | 100 | | | Al | Gl | Pl | | Containers | WM |
| 53 | Middletown Home | David Mills | 944-3351 | Nursing Home | 121 | CB | | Al | | Pl | | Containers | WM |
| 54 | Myline Messick Real Estate | Doris Messick | 985-1021 | Real Estate | 6 | | Pa | Al | | Pl | | Containers | YW |
| 55 | Olmsted Plaza Barber Shop | E. H. Givler | 944-3483 | General Contractor | | | | | | | | | |
| 56 | OnQ Technologies | Cathy Weikel | 702-2532 | Manufacture | 27 | CB | Pa | | | | | Containers, bins | WM |
| 57 | Payco Building Supplies | Barry Geeting | 939-3030 | Building Supplies | 12 | CB | | | | | | Containers | WM |
| 58 | PA Delivery Systems | Julie Scott | 985-1200 | Transportation | 21 | | Pa | | | Pl | | Containers | WM |
| 59 | PA Beef Council | Dave Ivan | 517-224-5240 | | 4 | | | Al | | Pl | | Containers | Self |
| 60 | Penske Truck Leasing | Denisa Martin | 939-4300 | Truck Rental | 22 | | Pa | Al | | | Oil | Containers | WM |
| 61 | Petroleum Products | Mary Shipley | 939-0466 | Fuel Rack | 25 | | Pa | Al | | | | Containers | Self |
| 62 | Phillips Group | Brad Crull | 948-5324 | Office Supplies | 200 | CB | | Al | | | | Containers, bins | WM |
| 63 | Phoenix Contact | Micheal Weik | 944-1300 | Manufacture | 300 | CB | Pa | Al | | | | Containers, bailers | WM&S |
| 64 | Pilkington/Libbey-Owens Ford | David Watkins | 986-0661 | Wholesale Glass | 6 | CB | | | | | | Bin | WM |

**Lower Swatara Township
Table 1
Act 101 Reporting Establishments**

| | Business | Contact | Phone 717 | Business Type | Employ | Materials Recycled | | | | | Method | Recycle | |
|----|-----------------------------|--------------------|------------|-------------------|--------|--------------------|----|----|----|----|---------------------|------------|----|
| | | | | | | CB | Pa | Al | Gl | Pl | | | |
| 65 | Priority Systems, Inc. | Dan DeLutis | 939-2700 | Mailing/Shipping | 25 | CB | Pa | | Pl | | Containers | WM | |
| 66 | R L Masons Garage | Lori Wolfersberger | 939-9588 | Truck Repair | 9 | CB | | Gl | Pl | | Containers | YW | |
| 67 | Reese Products | Duane Reinhardt | 948-9050 | Distributor | 6 | CB | Pa | Al | | | Containers | WM | |
| 68 | Rosedale Church of Nazarene | Martin Stiffuer | 249-9092 | Church | 1 | | | Al | Gl | Pl | Container | WM | |
| 69 | Scientific Games | Debra Wagner | 939-1612 | Lottery Tickets | 20 | CB | Pa | Al | | | Containers | DGS | |
| 70 | Selcher, Dr. Samuel | Samuel Selcher | 944-0426 | Dentist | 7 | | Pa | Al | Gl | Pl | Container | YW | |
| 71 | Shane's Flight Deck | Shane Mrakovich | 944-2000 | Restaurant | 5 | CB | | | Gl | | Containers | YW | |
| 72 | Shangra-La Café | Susan Beistline | 939-1300 | Tavern | 4 | | | Al | Gl | | Containers | YW | |
| 73 | Sharp Shopper | Kevin Geissinger | 944-6606 | Grocery | 30 | CB | | | | | Bailer | Self | |
| 74 | SLS | Gene Clark | 948-1896 | Warehouse | 100 | CB | Pa | | | Pl | Containers, bailers | HWP | |
| 75 | Smith Chiropractic | Deb Smith | 944-0004 | Chiropractic | 2 | | | | | | | None | |
| 76 | Strites Orchard | Joe Strite | 564-3130 | Farming | 5 | | Pa | Al | Gl | Pl | Containers | YW | |
| 77 | Susquehanna Development | Grace Thomas | 939-4579 | Group Home | 6 | | | Al | Gl | | Containers | | |
| 78 | Swatara Partners | William Collins | 985-0636 | Rental Office | 1 | | Pa | | | | Containers | WM | |
| 79 | Taco Bell | Bob Seminare | 392-1392 | Restaurant | 12 | CB | Pa | | | | Containers | WM | |
| 80 | Texas Eastern | Reuben Kreps | 985-3183 | Natural Gas | 10 | CB | Pa | Al | | | Containers | WM | |
| 81 | Thrifty Car Rental | Janice Moorhead | 944-4000 | Car Rental | 14 | | | | Gl | Pl | Containers | WM | |
| 82 | Timeway Corp. | Ken Long | 985-9777 | Delivery | 25 | CB | Pa | Al | | | Containers, bins | WM | |
| 83 | Tyco Electronics | William Beck | 592-6959 | Manufacture | 800 | CB | Pa | Al | | | Containers, bins | WM | |
| 84 | Uncle Bob's Self Storage | Kristi | 800-721-72 | Storage | 3 | CB | | | | | Containers | WM | |
| 85 | Unidare | Kathy Kapralick | 944-3610 | Welding | 20 | CB | Pa | | | | Containers | WM | |
| 86 | United Rentals Inc. | Charley Crawford | 939-5505 | Rentals | 22 | CB | | Al | Gl | Pl | Containers | WM | |
| 87 | Woolf Steel | Bill Woolf | 944-1423 | Steel Fabrication | 20 | | Pa | | | | Containers, bins | WM | |
| 88 | Yankees Auto Parts | Gregory Mrakovich | 944-1447 | Wholesale Auto | 10 | | | Al | Gl | | Containers | WM | |
| 89 | Y-Connect | David Miller | | | | | Pa | Al | | | Containers | Self | |
| 90 | York Building Products | Harvey Youe | 771-3587 | Concrete Block | 12 | | | Al | | | Steel | Containers | TT |
| | TOTALS | | | | 3622 | 45 | 45 | 46 | 22 | 25 | 6 | | |

Lower Swatara Township
Table 2
Act 101 Non-Reporting Establishments

| | Non-Reporting Business | St. # | Street | Phone(717) |
|----|-------------------------------|--------------|--------------------------|-------------------|
| 1 | Aero Oil | 911 | Eisenhower Blvd | 234-4133 |
| 2 | Alamo Rent-A-Car | 1901 | West Harrisburg Pike | 948-5001 |
| 3 | Allen's Laundomat | 2258 | West Harrisburg Pike | |
| 4 | Alphabet Academy | 1801 | Oberlin Rd | 939-6411 |
| 5 | Ameralum | 1801 | Oberlin Rd | 985-9045 |
| 6 | Angie's Diner | 1360 | Eisenhower Blvd | 939-0417 |
| 7 | Apex Asphalt | 1151 | Eisenhower Blvd | 939-1427 |
| 8 | Avis Rent-A-Car | 1885 | West Harrisburg Pike | 948-4400 |
| 9 | Bayard Sales Corp. | 1011 | A.I.P. Drive | 944-8960 |
| 10 | BDP International | 2811 | Turnpike Industrial Dr. | 985-1980 |
| 11 | Best Western | 815 | Eisenhower Blvd | 939-1600 |
| 12 | Bratina's Steak House | 2125 | West Harrisburg Pike | 944-4355 |
| 13 | Cadillac Plastic | 400 | First St | 948-9080 |
| 14 | Capitol Business Center | | First St | 652-4801 |
| 15 | Carlyle Group | 1801 | Oberlin Rd | 939-8058 |
| 16 | Central PA Air Cargo | 2811 | Turnpike Industrial Dr. | 985-9040 |
| 17 | Commonwealth Caterers | 901 | Spring Garden Dr. | 939-4003 |
| 18 | Communication Systems | 1963 | Oberlin Rd | 985-1383 |
| 19 | CVS | 1565 | Jamesway Plaza | 944-1162 |
| 20 | Dallas Spring Corp. | 181 | Fulling Mill Road | 930-0100 |
| 21 | DAS Distributors | 1011 | A.I.P. Drive | 948-0850 |
| 22 | Davis Florist | | Rte 230 and Wyoming Ave. | 944-1431 |
| 23 | Dayspring Ministries | 1600 | Spring Garden Dr. | 939-9500 |
| 24 | DHI Worldwide Express | 301 | Fulling Mill Road | 944-5260 |
| 25 | Dinello, Donald | 700 | Spring Garden Dr. | 944-6210 |
| 26 | Dollar General Store | 1573 | Jamesway Plaza | 944-3697 |
| 27 | Double M Warehouse | | A.I.P. Drive | 731-0969 |
| 28 | Dugan Appraisal | 911 | Eisenhower Blvd | 939-9350 |
| 29 | Ebenezer Cemetary | | Ebenezer Rd | |
| 30 | Ebenezer Church | 890 | Ebenezer Rd | 939-0766 |
| 31 | Electronics Institute | 1529 | Jamesway Plaza | 944-2731 |
| 32 | Emery Air Freight | 2755 | Spring Garden Dr. | 939-1312 |
| 33 | Enterprise Rent-A-Car | 2188 | West Harrisburg Pike | 944-6566 |
| 34 | Everybook | 1801 | Oberlin Rd | 939-3995 |
| 35 | Eye Care Eyewear | 1093 | North Union St. | 944-4031 |
| 36 | Fairview Inn | 1350 | South Eisenhower Blvd. | 939-9531 |
| 37 | Federal Express | 300 | Fulling Mill Road | 948-4200 |
| 38 | Fleet Tire and Batteries | 1289 | Vine St. | 944-4001 |
| 39 | Flower Pot Boutique | 1191 | Eisenhower Blvd | 939-1524 |
| 40 | Forjan Foliage | 209 | Rosedale Ave. | 930-3504 |
| 41 | Fresenius Medical | 400 | First St | 948-4460 |
| 42 | GE IT Distribution Group | 2810 | Turnpike Industrial Dr. | 986-8800 |
| 43 | Givler and Sons, Inc. | | Jamesway Plaza | 944-3483 |
| 44 | Gulf South Medical | 300 | Hunter Lane | 944-8091 |
| 45 | Handwerk Materials | 2152 | North Union St. | 566-3002 |
| 46 | Harrisburg East Cities | 835 | Eisenhower Blvd | 939-9225 |
| 47 | Hewlett-Packard | 1301 | Fulling Mill Road | 985-3940 |

Lower Swatara Township
Table 2
Act 101 Non-Reporting Establishments

| | Non-Reporting Business | St. # | Street | Phone(717) |
|----|-------------------------------|--------------|-------------------------|-------------------|
| 48 | Highspire Cemetary | | Eisenhower and Richards | 939-8790 |
| 49 | Hollywood Motel | 155 | Richardson Rd. | 939-9508 |
| 50 | Hydro Worx | 1961 | Fulling Mill Road | 985-1723 |
| 51 | Impact Systems | 3 | Messick Dr. | 944-4040 |
| 52 | International Health | 1801 | Oberlin Rd | 985-1667 |
| 53 | ISYS Technologies, Inc. | 1301 | Fulling Mill Road | 214-1000 |
| 54 | Jackson Hewitt Tax | 1515 | Jamesway Plaza | 944-6420 |
| 55 | Jeanne Chubb | 1801 | Oberlin Rd | 985-1530 |
| 56 | Jeff's Truck N' Car | 2069 | West Harrisburg Pike | 944-0676 |
| 57 | Jim's Auto Exchange | 403 | Richardson Rd. | 939-6860 |
| 58 | K & K Distributors | 2735 | Turnpike Industrial Dr. | 986-1177 |
| 59 | K/A Auto Sales | 1225 | Eisenhower Blvd | 939-8880 |
| 60 | Keystone Group | 2101 | Fulling Mill Road | 939-3555 |
| 61 | Keystone Financial | 1601 | West Harrisburg Pike | 944-1367 |
| 62 | Kimbob, Inc. | 2090 | North Union St. | 233-7000 |
| 63 | Kreider Poultry | 301 | Longview Dr. | 566-9422 |
| 64 | Lander Rhen Insurance | 279 A | West Main St. | 944-0466 |
| 65 | Liberty Check Printing | 2780 | Commerce Dr. | 939-0444 |
| 66 | Lingle's Garage | 2161 | North Union St. | 566-3464 |
| 67 | Lockheed Martin | 1100 | Rosedale Ave. | 930-1100 |
| 68 | Lower Swatara LIO | 2 | Theodore Ave. | 939-7659 |
| 69 | Mary Kay Cosmetics | 1801 | Oberlin Rd | |
| 70 | Menlo Logistics | 600 | Hunter Lane | 930-0712 |
| 71 | Middletown & H. RR | | Fulling Mill Road | 944-4435 |
| 72 | Millennium Lending | 1801 | Oberlin Rd | 939-6557 |
| 73 | Multi-Foods | 401 | Russell Dr. | 939-8110 |
| 74 | Nippon Express | 2831 | Turnpike Industrial Dr. | 985-9007 |
| 75 | Open Door Bible Church | 200 | Nissley Dr. | 939-5180 |
| 76 | Peifer Construction | 1365 | Eisenhower Blvd | 985-9150 |
| 77 | Pelletiers Karate | 2285 | West Harrisburg Pike | 944-2813 |
| 78 | Penn Harris Gun Club | | Richardson Rd. | 939-4694 |
| 79 | Pennsylvania Supply | 2080 | North Union St. | 566-7520 |
| 80 | Pennsylvania Wine & Spirits | 1569 | Jamesway Plaza | 948-3534 |
| 81 | Pitek, Frank--Dentist | 700 | Spring Garden Dr. | 944-9980 |
| 82 | Pizza Hut | 2298 | West Harrisburg Pike | 944-1437 |
| 83 | Plaza Styling Salon | 1511 | Jamesway Plaza | 944-7448 |
| 84 | Radio Shack | 1579 | Jamesway Plaza | 944-2708 |
| 85 | Raeden, Inc. | 1258 | Highspire Rd. | 939-8500 |
| 86 | Seminole Sales | 9 | Jamesway Plaza | 948-0887 |
| 87 | Service Motor Parts | 2741 | Turnpike Industrial Dr. | 939-1344 |
| 88 | Souder's Mini-Market | 1100 | Fulling Mill Road | 948-0388 |
| 89 | Strathmeyer Forestry | | North Union St. | 292-4117 |
| 90 | Sunburst Motel | 1115 | West Harrisburg Pike | 944-4895 |
| 91 | Tanfastic | 2285 | West Harrisburg Pike | 944-8269 |
| 92 | Tinian Manor Swim | 500 | Market St. | 939-2401 |
| 93 | Trans Tech | 461 | Harrisburg Court | 939-8255 |
| 94 | Turnpike Industrial | | Turnpike Industrial Dr. | 975-2767 |

**Lower Swatara Township
Table 2
Act 101 Non-Reporting Establishments**

| | Non-Reporting Business | St. # | Street | Phone(717) |
|-----|-------------------------------|--------------|----------------------|-------------------|
| 95 | TVC Communication | 181 | Fulling Mill Road | 944-7422 |
| 96 | Twelve Oaks Center | 1801 | Oberlin Rd | 985-0200 |
| 97 | Twenty First Century | 1801 | Oberlin Rd | 985-0200 |
| 98 | Twin Arches LTD | 2286 | West Harrisburg Pike | 944-2524 |
| 99 | Tyson of PA | 1001 | A.I.P. Drive | 948-9222 |
| 100 | Watkins Motor Lines | 2030 | North Union St. | 566-9533 |
| 101 | Wendy's Hamburger | 801 | Eisenhower Blvd | 939-5566 |
| 102 | Youth for Christ | 1000 | Eisenhower Blvd | 939-9333 |

Lower Swatara Township

Table 4

Establishment Classifications

| | Distributors | | Manufacturers | | Human Services | | Food Services |
|----|------------------------------|----|----------------------------|----|-------------------------------|----|----------------------|
| 1 | Access Graphics | 1 | Advanced Conversion Tech | 1 | Aldwyn Court Apts. | 1 | CoVenco |
| 2 | AEI | 2 | Alignment Specialists | 2 | Allegheny Airlines | 2 | Dairy Queen |
| 3 | AGCO Parts Division | 3 | American Alum & Insulation | 3 | Associated Global Systems | 3 | Dominos Pizza |
| 4 | Bax Global | 4 | American Steel & Alum | 4 | Bair Foundation | 4 | Harry's Hot Wings |
| 5 | Bindley-Western Drug | 5 | Charlie's Garage | 5 | Days Inn | 5 | Karen's Catering |
| 6 | Borders Group | 6 | DuPont Flooring | 6 | Dept of Revenue (Lottery) | 6 | Lin Garden |
| 7 | Brinkerhoff Mobile | 7 | Elegant Marble Products | 7 | Eastern PA Dist C & MA | 7 | Shane's Flight Deck |
| 8 | EMKA Inc. | 8 | J D Associates | 8 | Ebenezer Christian Child Care | 8 | Shangra-La Café |
| 9 | Exel | 9 | Jack's Auto Sales | 9 | Garden Chapel | 9 | Strites Orchard |
| 10 | Farr Family Tire | 10 | Mack Trucks | 10 | Glad Tidings Assembly of God | 10 | Taco Bell |
| 11 | FDA Packaging | 11 | Olmsted Plaza Barber Shop | 11 | HBI of PA | | |
| 12 | Goodwin Floor Covering | 12 | OnQ Technologies | 12 | Highspire Memorial Post | | |
| 13 | Harry Cramer Oldsmobile | 13 | Petroleum Products | 13 | Highspire Mobile Homes | | |
| 14 | Hershey Creamery Corp. | 14 | Phoenix Contact | 14 | Lower Swatara EMS | | |
| 15 | JA Webster | 15 | R L Masons Garage | 15 | Lower Swatara FD | | |
| 16 | Jednota Press | 16 | Texas Eastern | 16 | Lower Swatara Township | | |
| 17 | McKesson HBOC Medical | 17 | Tyco Electronics | 17 | Mechanics Savings | | |
| 18 | Payco Building Supplies | 18 | Unidare | 18 | Mid-Atlantic Corp | | |
| 19 | Phillips Group | 19 | Woolf Steel | 19 | Middletown Home | | |
| 20 | Pilkington/Libbey-Owens Ford | 20 | York Building Products | 20 | Myline Messick Real Estate | | |
| 21 | Priority Systems, Inc. | | | 21 | PA Delivery Systems | | |
| 22 | Reese Products | | | 22 | PA Beef Council | | |
| 23 | Sharp Shopper | | | 23 | Penske Truck Leasing | | |
| 24 | SLS | | | 24 | Rosedale Church of Nazarene | | |
| 25 | Timeway Corp. | | | 25 | Scientific Games | | |
| 26 | Uncle Bob's Self Storage | | | 26 | Selcher, Dr. Samuel | | |
| 27 | Yankees Auto Parts | | | 27 | Smith Chiropractic | | |
| | | | | 28 | Susquehanna Development | | |
| | | | | 29 | Swatara Partners | | |
| | | | | 30 | Thrifty Car Rental | | |
| | | | | 31 | United Rentals Inc. | | |

Lower Swatara Township

Table 6

Location Grouping for Companies that May Not be Recycling

| A.I.P. Drive | | |
|---------------------|-------------------|----------|
| Tyson of PA | 1001 A.I.P. Drive | 948-9222 |
| Bayard Sales Corp. | 1011 A.I.P. Drive | 944-8960 |
| DAS Distributors | 1011 A.I.P. Drive | 948-0850 |
| Double M Warehouse | A.I.P. Drive | 731-0969 |

| Richardson Rd, Highspire Rd. | | |
|-------------------------------------|--------------------|----------|
| Raeden, Inc. | 1258 Highspire Rd. | 939-8500 |
| Hollywood Motel | 155 Richardson Rd. | 939-9508 |
| Jim's Auto Exchange | 403 Richardson Rd. | 939-6860 |
| Penn Harris Gun Club | Richardson Rd. | 939-4694 |

| Eisenhower Blvd | | |
|------------------------|----------------------|----------|
| Wendy's Hamburger | 801 Eisenhower Blvd | 939-5566 |
| Best Western | 815 Eisenhower Blvd | 939-1600 |
| Harrisburg East Cities | 835 Eisenhower Blvd | 939-9225 |
| Aero Oil | 911 Eisenhower Blvd | 234-4133 |
| Dugan Appraisal | 911 Eisenhower Blvd | 939-9350 |
| Youth for Christ | 1000 Eisenhower Blvd | 939-9333 |
| Apex Asphalt | 1151 Eisenhower Blvd | 939-1427 |
| Flower Pot Boutique | 1191 Eisenhower Blvd | 939-1524 |
| K/A Auto Sales | 1225 Eisenhower Blvd | 939-8880 |
| Angie's Diner | 1360 Eisenhower Blvd | 939-0417 |
| Peifer Construction | 1365 Eisenhower Blvd | 985-9150 |

| Fulling Mill Road | | |
|--------------------------|------------------------|----------|
| Dallas Spring Corp. | 181 Fulling Mill Road | 930-0100 |
| TVC Communication | 181 Fulling Mill Road | 944-7422 |
| Federal Express | 300 Fulling Mill Road | 948-4200 |
| DHI Worldwide Express | 301 Fulling Mill Road | 944-5260 |
| Souder's Mini-Market | 1100 Fulling Mill Road | 948-0388 |
| Hewlett-Packard | 1301 Fulling Mill Road | 985-3940 |
| ISYS Technologies, Inc. | 1301 Fulling Mill Road | 214-1000 |
| Hydro Worx | 1961 Fulling Mill Road | 985-1723 |
| Keystone Group | 2101 Fulling Mill Road | 939-3555 |
| Middletown & H. RR | Fulling Mill Road | 944-4435 |

| First Street | | |
|-------------------------|--------------|----------|
| Cadillac Plastic | 400 First St | 948-9080 |
| Fresenius Medical | 400 First St | 948-4460 |
| Capitol Business Center | First St | 652-4801 |

| Jamesway Plaza | | |
|-----------------------------|---------------------|----------|
| Seminole Sales | 9 Jamesway Plaza | 948-0887 |
| Plaza Styling Salon | 1511 Jamesway Plaza | 944-7448 |
| Jackson Hewitt Tax | 1515 Jamesway Plaza | 944-6420 |
| Electronics Institute | 1529 Jamesway Plaza | 944-2731 |
| CVS | 1565 Jamesway Plaza | 944-1162 |
| Pennsylvania Wine & Spirits | 1569 Jamesway Plaza | 948-3534 |
| Dollar General Store | 1573 Jamesway Plaza | 944-3697 |
| Radio Shack | 1579 Jamesway Plaza | 944-2708 |
| Givler and Sons, Inc. | Jamesway Plaza | 944-3483 |

Lower Swatara Township

Table 6

Location Grouping for Companies that May Not be Recycling

| North Union Street | | |
|---------------------------|----------------------|----------|
| Eye Care Eyewear | 1093 North Union St. | 944-4031 |
| Watkins Motor Lines | 2030 North Union St. | 566-9533 |
| Pennsylvania Supply | 2080 North Union St. | 566-7520 |
| Kimbob, Inc. | 2090 North Union St. | 233-7000 |
| Handwerk Materials | 2152 North Union St. | 566-3002 |
| Lingle's Garage | 2161 North Union St. | 566-3464 |
| Strathmeyer Forestry | North Union St. | 292-4117 |

| Turnpike Industrial Drive | | |
|----------------------------------|------------------------------|----------|
| K & K Distributors | 2735 Turnpike Industrial Dr. | 986-1177 |
| Service Motor Parts | 2741 Turnpike Industrial Dr. | 939-1344 |
| GE IT Distribution Group | 2810 Turnpike Industrial Dr. | 986-8800 |
| BDP International | 2811 Turnpike Industrial Dr. | 985-1980 |
| Central PA Air Cargo | 2811 Turnpike Industrial Dr. | 985-9040 |
| Nippon Express | 2831 Turnpike Industrial Dr. | 985-9007 |
| Turnpike Industrial | Turnpike Industrial Dr. | 975-2767 |

| Oberlin Road | | |
|-----------------------|-----------------|----------|
| Alphabet Academy | 1801 Oberlin Rd | 939-6411 |
| Ameralum | 1801 Oberlin Rd | 985-9045 |
| Carlyle Group | 1801 Oberlin Rd | 939-8058 |
| Everybook | 1801 Oberlin Rd | 939-3995 |
| International Health | 1801 Oberlin Rd | 985-1667 |
| Jeanne Chubb | 1801 Oberlin Rd | 985-1530 |
| Mary Kay Cosmetics | 1801 Oberlin Rd | |
| Millennium Lending | 1801 Oberlin Rd | 939-6557 |
| Twelve Oaks Center | 1801 Oberlin Rd | 985-0200 |
| Twenty First Century | 1801 Oberlin Rd | 985-0200 |
| Communication Systems | 1963 Oberlin Rd | 985-1383 |

| West Harrisburg Pike | | |
|-----------------------------|---------------------------|----------|
| Sunburst Motel | 1115 West Harrisburg Pike | 944-4895 |
| Keystone Financial | 1601 West Harrisburg Pike | 944-1367 |
| Avis Rent-A-Car | 1885 West Harrisburg Pike | 948-4400 |
| Alamo Rent-A-Car | 1901 West Harrisburg Pike | 948-5001 |
| Jeff's Truck N' Car | 2069 West Harrisburg Pike | 944-0676 |
| Bratina's Steak House | 2125 West Harrisburg Pike | 944-4355 |
| Enterprise Rent-A-Car | 2188 West Harrisburg Pike | 944-6566 |
| Allen's Laundomat | 2258 West Harrisburg Pike | |
| Pelletiers Karate | 2285 West Harrisburg Pike | 944-2813 |
| Tanfastic | 2285 West Harrisburg Pike | 944-8269 |
| Twin Arches LTD | 2286 West Harrisburg Pike | 944-2524 |
| Pizza Hut | 2298 West Harrisburg Pike | 944-1437 |

| Spring Garden Drive | | |
|----------------------------|------------------------|----------|
| Dinello, Donald | 700 Spring Garden Dr. | 944-6210 |
| Pitek, Frank--Dentist | 700 Spring Garden Dr. | 944-9980 |
| Commonwealth Caterers | 901 Spring Garden Dr. | 939-4003 |
| Dayspring Ministries | 1600 Spring Garden Dr. | 939-9500 |
| Emery Air Freight | 2755 Spring Garden Dr. | 939-1312 |

Lower Swatara Township

Table 6

Location Grouping for Companies that May Not be Recycling

| Various Other Non-Reporting Businesses | | | |
|---|-------|-------------------------|----------|
| Liberty Check Printing | 2780 | Commerce Dr. | 939-0444 |
| Ebenezer Church | 890 | Ebenezer Rd | 939-0766 |
| Ebenezer Cemetary | | Ebenezer Rd | |
| Highspire Cemetary | | Eisenhower and Richards | 939-8790 |
| Trans Tech | 461 | Harrisburg Court | 939-8255 |
| Gulf South Medical | 300 | Hunter Lane | 944-8091 |
| Menlo Logistics | 600 | Hunter Lane | 930-0712 |
| Kreider Poultry | 301 | Longview Dr. | 566-9422 |
| Tinian Manor Swim | 500 | Market St. | 939-2401 |
| Impact Systems | 3 | Messick Dr. | 944-4040 |
| Open Door Bible Church | 200 | Nissley Dr. | 939-5180 |
| Forjan Foliage | 209 | Rosedale Ave. | 930-3504 |
| Lockheed Martin | 1100 | Rosedale Ave. | 930-1100 |
| Davis Florist | | Rte 230 and Wyoming Ave | 944-1431 |
| Multi-Foods | 401 | Russell Dr. | 939-8110 |
| Fairview Inn | 1350 | South Eisenhower Blvd. | 939-9531 |
| Lower Swatara LIO | 2 | Theodore Ave. | 939-7659 |
| Fleet Tire and Batteries | 1289 | Vine St. | 944-4001 |
| Lander Rhen Insurance | 279 A | West Main St. | 944-0466 |