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# Solid Waste Management Plan Modification

for the  
Capital Region Solid Waste Management  
Partnership Planning Unit.

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**Capital Region SWMP Modification**  
September 2008

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### 1.0 Introduction and Background

The City of Albany, on behalf of the Albany New York Solid Waste Energy Recovery System (ANSWERS) Solid Waste Management Planning Unit prepared a Draft Generic Environmental Impact Statement/Solid Waste Management Plan (SWMP) in August 1990. The SWMP was accepted in 1992 by the New York State Department of Environmental Conservation (NYSDEC). Since that time the ANSWERS facility has stopped operations and for purposes of the SWMP Modification, the ANSWERS Planning Unit will also be referred to as the Capital Region Solid Waste Management Partnership Planning Unit, or simply the Planning Unit. The current primary functions of the Planning Unit include the following:

Sharing solid waste facilities (i.e., the Rapp Road Facility) and information with all of the involved municipalities; and cultivation of opportunities to both increase recycling rates within the municipalities and reduce expenses is necessary to meet this goal. The original SWMP addressed:

1. waste reduction,
2. recycling and reuse programs,
3. continuation of ANSWERS,
4. landfilling at the Rapp Road facility,
5. implementation of a long-term landfill facility,
6. expansion of household hazardous waste programs,
7. approaches and criteria for siting recycling facilities and landfills and
8. a projected implementation schedule.

The ANSWERS SWMP was developed by the City of Albany on behalf of the Planning Unit. The SWMP details the implementation of a program of waste reduction, recycling and reuse; continuation of the ANSWERS waste disposal facility; and the implementation of a long-term, state-of-the-art landfill for disposal of non-processable and bypass waste from the ANSWERS shredding facility.

Since 1997, the City of Albany, on behalf of the Planning Unit has prepared a SWMP Compliance Report every two years, the most recent of which was submitted in 2007 and covers the calendar years 2005 and 2006. Among other reasons, the purpose of these Compliance Reports is to provide a summary of the current status of the implementation schedule for the SWMP and an updated implementation schedule.

While the Implementation Schedule and the Planning Period for the approved SWMP runs through the year 2013, progress on the development of the new long-term Landfill has been delayed. This delay has been reported to the NYSDEC in several of its Compliance Reports, including the most recent submittal cited above. In addition to the delay in siting a long-term solid disposal waste facility, membership in the Answers Planning Unit has changed. In November 1991, the members included the Cities of Albany, Cohoes, Rensselaer, Schenectady, Watervliet; the Villages of Altamont, Voorhesville, and Green Island; and the Towns of Berne, Bethlehem, Coeymans, Guilderland, Knox, New Scotland, Rensselaerville, and Westerlo. As of January 2008, the Town of East Greenbush has joined the Planning Unit. The Town of Coeymans and the Cities of Cohoes and Schenectady are no longer members of the Planning Unit. The City of Schenectady is currently a part of the Schenectady County Planning Unit. The City of Cohoes has confirmed that it is not part of a Solid Waste Planning Unit but it delivers its solid waste to the Town of Colonie Landfill. The Town of Coeymans has indicated that it is no longer part of any Solid Waste Planning Unit. It's believed that waste collected by private haulers in the Town is delivered to the Rapp Road Landfill. Notwithstanding the submittal and acceptance of SWMP Compliance Reports, NYSDEC has requested that the Planning Unit undertake a plan modification pursuant to 6 NYCRR Section 360-15.11(b)(3). This modification to the SWMP is being prepared to meet this requirement and in accordance with NYSDEC TAGM SW-96-08. Further, this modification is being prepared in accordance with Option 3 of the above referenced TAGM, which provides as follows:

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- A separate update or modification document which contains the required contents pursuant to 6 NYCRR 360-15.11(e). This document must be sent to everyone on the distribution list who received official copies of the previous Department-approved SWMP with instructions to permanently attach it to or insert into the front of the existing SWMP.

6 NYCRR 360-15.11 (e), provides that a plan modification must contain the following components:

- ◆ a detailed description of the modification proposed by the planning unit;
- ◆ reasons for the proposed modification;
- ◆ a revised implementation schedule;
- ◆ a State Environmental Quality Review determination, if any;
- ◆ an accounting of comments as required in subdivision 360-15.9(p) of this Subpart;
- ◆ a description of how the planning unit will ensure that the modification, upon department approval, will be made to all official copies of the existing department-approved plan;
- ◆ a resolution by the planning unit adopting the modification that satisfies the requirements of paragraph 360-15.10(d)(2) of this Subpart; and
- ◆ additional items as deemed necessary by the department for the development of an integrated solid waste management plan that takes into account the objectives of the state solid waste management policy.

Each of these components will be addressed in Section 2 of this document.

## 2.0 Solid Waste Management Plan Modification

### 2.1 Description of the Modification

Because of previously documented delays associated with the development of new long-term landfill capacity at Site C-2 in the Town of Coeymans, and because of development constraints related to the presence of federally regulated wetlands on Site C-2, the timely and cost effective development of that site may no longer be practicable prior to the exhaustion of permitted capacity at the Rapp Road Landfill. In order to continue to provide for uninterrupted disposal capacity for the Planning Unit, the City has developed a plan to expand the Rapp Road Landfill, to provide an additional 6 to 7 years of additional landfill capacity. This is referred to as the Eastern Expansion and is a key element of this SWMP modification. As part of the proposal for the Eastern Expansion, the City has agreed that it will be the final expansion of the Rapp Road Landfill and that it will prepare a new SWMP, to re-evaluate whether constructing a new, long-term landfill to serve the waste shed continues to make sense, and whether other waste management techniques are appropriate.

This SWMP Modification has been prepared to re-evaluate the existing options for the Planning Unit to reduce, re-use and recycle solid waste so that disposal quantities can be minimized over the short term. In addition, the SWMP Modification presents an evaluation of short-term and long-term alternatives to the Eastern Landfill Expansion.

## **2.2 Reasons for the Modification**

As noted previously, this proposed modification is necessitated by on-going delays associated with the development of new long-term landfill capacity at Site C-2 in the Town of Coeymans and by the need to continue to provide for uninterrupted disposal capacity for the Planning Unit. Further detailed discussion related the delays at Site C-2 are presented in Section 2.3.8.

Other elements of the original SWMP are also being formally amended as part of this SWMP Modification. Other elements addressed in this modification include:

- Varied progress in implementation of recycling programs for all generating sectors,
- The creation of an Authority as the implementing agency of the Planning Unit did not occur;
- The change in member municipalities since the adoption of the original Plan; and
- The Decision not to continue with the waste-to-energy component of the original Plan.

Discussion of these and other elements of the SWMP Modification is presented in Section 2.3 below.

## **2.3 SWMP Milestones and Modifications**

This section provides an overview of the principal milestones originally proposed within the 1991 SWMP and the changes proposed as part of this SWMP Modification.

### **2.3.1 Development of leaf and yard waste programs**

The approved SWMP calls for the development of a leaf waste composting facility for the City of Albany and for the other individual communities of the Planning Unit to develop and manage their leaf and yard waste management programs accordingly. Current information about yard waste management practices was solicited from each community as part of the comprehensive survey of municipal solid waste collection and recycling practices was undertaken as part of this SWMP Modification. The City of Albany implemented a yard waste composting facility in 1990. Based on the results of this survey, all of the urban and suburban communities have fully implemented yard waste collection and recycling programs. The four most rural towns in the Planning Unit have only limited yard waste management programs, but this is understandable because it is expected that most of the residents of these towns will manage their yard waste on their own property. There is wide variation between municipalities in the amount of yard waste recovered for composting or recycling. Because of their denser land use patterns, urban municipalities like the City of Albany will generate less yard waste than more suburban municipalities like Bethlehem and Guilderland. As communities get less suburban and more rural, less yard waste is generated for off-site management because more residents manage their yard waste on their own property. Additional information is presented in Attachment 1 to the SWMP Modification.

As part of this SWMP Modification backyard composting and grass waste mulching will be promoted wherever appropriate on a Planning-unit wide basis through brochures and website postings. Through the proposed Planning Unit Recycling Coordinator (PURC), it is proposed that promotional efforts to encourage backyard composting and other appropriate on-site management techniques (and discouraging municipal and residential burning) will be undertaken. The coordinator will work with the NYSDEC Regional Solid and Hazardous Materials Engineer who will provide periodic backyard composting demonstrations at the various municipal sites throughout the planning unit. The coordinator will also work to promote inter-municipal cooperation and shared use of existing yard waste composting facilities.

### **2.3.2 Expansion of recycling programs for all sectors**

A major component of this SWMP Modification is the expansion of commercial sector recycling. This section outlines the status of existing commercial sector recycling and identifies a series of steps that will be implemented to increase recycling by commercial, institutional, industrial and multi-family generators; and commercial waste haulers. The evaluation includes a review of local recycling laws, surveys of existing commercial generator recycling practices, and a discussion of steps that will be implemented to increase recycling rates through the addition of a Planning Unit Recycling Coordinator (PURC) and stepped up education and enforcement.

#### **Recycling Laws and Ordinances**

As part of this SWMP Modification, local recycling laws, ordinances and guidelines were compiled from all municipalities in the Planning Unit to determine the status of each ordinance, particularly in regard to commercial sector recycling. Based upon this review and evaluation, a number of recommendations have been made, which are summarized below. Table 1 presents a matrix summarizing the key components of each ordinance. Attachment 2 presents the review and evaluation of the local ordinances.

All New York municipalities are required to have ordinances or local laws in place which meet the requirements of GML 120aa. The City of Albany will send a letter to each municipality in the planning unit noting that they are required to have a local law or ordinance adopted which requires source separation from all sectors (residential, commercial, industrial and institutional) and request that copy of law be forwarded to the PURC no later than November 1, 2008. With continued acceptance of waste at the landfill, the City will require that any required amendments to ordinances must be effective no later than January 1, 2009. Municipalities which do not do this will not be able to use the landfill after Dec 31, 2008. Historically, the ANSWERS Planning Unit has utilized few resources to provide either education or enforcement however, in order to continue to use the landfill and remain a member of the Planning Unit, participant municipalities will be expected to sign an Inter-Municipal Agreement (IMA) with the City of Albany. The IMA will address a number of program requirements including the provision of a Planning Unit-wide Recycling Coordinator. The PURC will work with municipalities and their recycling coordinators to improve recycling education. The duties of the PURC are discussed in more detail later in this section. The IMA will also address such items as customer audits and reporting requirements.

To maximize program effectiveness and to increase understanding of program requirements, recycling ordinances across the Planning Unit should be standardized to the maximum extent practicable. Items required/accepted by the City of Albany for recycling should be required of all communities that use the landfill. Many towns provide recycling opportunities for additional items and this should continue to be actively encouraged. To assist with standardization, model ordinances could be used as a benchmark. The City of Albany's Source Separation requirements (313.11 Article 2 Source Separation of Recyclables) should be used as a model for municipalities that provide municipal collection of MSW and recyclables. The Town of Bethlehem should be used as a model for municipalities that do not provide municipal collection but use private haulers or self transport. Both of these ordinances are included in Attachment 2.

#### **Commercial Generator and Commercial Hauler Surveys**

In order to identify appropriate expansion efforts, existing commercial waste management efforts had to be quantified. As such, a survey of existing commercial waste management and recycling practices of commercial haulers and of large commercial and institutional waste generators within the Planning Unit was conducted. The major commercial waste generators within the Planning Unit were surveyed by mail. Responses were received from the Albany Law School, Albany Medical Center, Daughters of Sarah Nursing Home, Our Lady of Mercy Life Center, St. Peter's Health Care Services, and Watervliet Arsenal. This information will be used as baseline data for monitoring and enhancing commercial recycling efforts in the future. Future surveys will be conducted periodically by the PURC to assist in ongoing program enhancement and to improve the quality and quantity of data available regarding recycling

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The five respondents to the commercial waste survey represent an employee base of almost 12,100, or over 5 percent of the Albany County total. In addition, personnel at the New York State Office of General Services (OGS) were interviewed and provided information similar to what was solicited from the commercial waste survey. This information represents 19,600 state employees occupying state office buildings managed by OGS. The combination of state employees and employees of the commercial waste survey respondents represents nearly 14 percent of Albany County's total employment. Since the Planning Unit does not encompass all of Albany County, the proportion of Planning Unit employment represented by these facilities is greater.

Telephone interviews were also conducted with representatives of the United States Postal Service (USPS), who were known to operate a robust regional recycling network out of their Albany mail processing and distribution center.

Each of these survey and telephone respondents indicated significant commercial waste recycling program elements were being implemented. Waste diversion or recycling rates calculated from those respondents reporting numerical data ranged from a low of 11 % at St. Peter's to a high of 59 % for the OGS. The weighted average diversion rate calculated for the private sector commercial generators is 20%. An overall weighted average commercial waste diversion rate of 46% results when the OGS recycling and waste disposal tonnage is included.

While we do not assume that this average diversion rate would be applicable across the entire commercial, industrial and institutional waste sector, the results do show significant implementation efforts are presently on-going with respect to waste reduction and recycling programs in the Planning Unit. A more detailed description of the results of these surveys is presented in Attachment 3.

CHA has also documented reduction and recycling in the Planning Unit in 2007, based on surveys administered as part of the SWMP Modification and on Annual Reports for 2007 submitted to the NYSDEC by solid waste management facilities. These results, which account for all documented recycling of MSW and C&D and are shown on Table 2 and explained in more detail later in this section, indicate that the overall Planning Unit diversion rate in 2007 was over 33%.

#### **Planning Unit Recycling Coordinator**

The addition of a PURC is an important part of the overall goal to expand commercial sector recycling. To that end, participant municipalities will be expected to execute an Inter-Municipal Agreement (IMA) with the City of Albany. The IMA will address a number of program requirements including the provision of a PURC who will be an area-wide resource to promote waste reduction and recycling, monitor compliance with municipal recycling ordinances, provide assistance in applying for available grant funding, and compile annual information about recycling program achievement in each municipality, including commercial, industrial and institutional recycling programs. Pursuant to the IMA, the cost of this position will be allocated among the member municipalities, in proportion to their population. The enforcement of local ordinances will remain the responsibilities of each municipality. The Recycling Coordinator will be appointed in the fall of 2008. Accordingly, IMAs will need to be executed no later than the fall of 2008. The responsibilities of the PURC are described in more detail in Attachment 4. The appointment of the PURC will not replace the ongoing need for recycling program coordinators in each of the member municipalities. The IMA will also require that each municipality designate a contact person with the responsibility to work with the PURC.

Funding through state grants could help fund municipal waste reduction and recycling efforts. Through its Municipal Waste Reduction and Recycling Grant Program the NYSDEC has taken an active role in funding various recycling programs to help communities raise awareness and participation in recycling as well as funding programs and efforts to reduce solid waste generation. The grants allow for up to 50% reimbursement (up to a cap of \$2 million dollars on individual projects) and provides funding for 3 different types of program elements as noted below.

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- **Capital Projects** - provides State assistance for projects that enhance municipal recycling infrastructure through purchasing of equipment or construction of facilities. Funding can be used to construct materials recycling facilities, composting facilities, or to purchase recycling containers and new recycling vehicles.
- **Recycling Coordinators** - provides State assistance for Recycling Coordinator salaries and for waste reduction and public education programs conducted by municipalities.
- **Household Hazardous Waste State Assistance Program** - provides State assistance for HHW collection days, and construction of permanent HHW collection facilities in order to provide a safe alternative for recycling or disposal of household hazardous materials.

The City of Albany has been able to take advantage of all three of the different grant programs. The Capital Projects grant has been utilized to purchase recycling trucks, recycling bins and an assortment of compost equipment. Some of the municipalities within the Albany area planning unit have utilized the Recycling Coordinators grant and have been able to employ recycling coordinators/educators in their communities. In the Town of Bethlehem, they offer a yearly HHW drop-off the first Saturday in May, which allows for other ANSWERS communities to take part in. The PURC will work with member municipalities to take full advantage of existing as well as future grant programs in the area of recycling and waste reduction.

Other grant opportunities through agencies such as the United States Environmental Protection Agency (EPA), and New York State Energy Research and Development Authority (NYSERDA) and Empire State Development (ESD) will be explored and pursued as appropriate by the PURC. In addition, the PURC will provide information through the Planning Unit website and regular contact with the recycling coordinators of the various municipalities in the Planning Unit.

#### **Education and Enforcement**

Comprehensive education and enforcement efforts will be directed towards commercial waste haulers and generators to ensure understanding of program requirements thereby increasing diversion rates. Commercial waste haulers service not only commercial, industrial and institutional waste generators, but also residential waste generators not served by municipally sponsored programs. Oversight in the form of waste audits at City solid waste facilities can be effective in identifying non-participation in recycling programs. Haulers (and the waste generators they service) discovered to be delivering recyclable materials for disposal at the landfill will be subject to follow-up education and enforcement efforts. Failure to comply and repeated delivery of contaminated loads could result in loss of disposal privileges and imposition of fines. While City staff may discover these deliveries at the landfill, and make initial contacts, follow-up contact with non-participating waste generators will be undertaken by the PURC, in conjunction with the recycling coordinators of the various municipalities in the Planning Unit, who will initiate education efforts intended at bringing these generators into compliance.

It will be the responsibility of the municipality in which the waste originates to follow up with any enforcement effort, if that becomes necessary. The City of Albany will institute new commercial licensing requirements at the landfill to assist the member municipalities with the enforcement of their local laws and requirements. The potential viability of a hauler licensing fee program as a means to improve data collection and reporting as well as a source of recycling program funding will be re-examined as part of the New SWMP.

Commercial waste haulers will be required to provide annual reports to the City regarding the nature of the recycling and waste recovery programs being implemented by them in each municipality in the Planning Unit. The Planning Unit will specify the type of information and the level of detail required to the commercial waste haulers.

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The City of Albany has recently renewed efforts to educate generators (landowners) through a letter campaign reminding these landowners that they are required to have a recycling program in place. Currently, this campaign targets owners of multi-residential complexes. Although, this type of action has typically been complaint driven as outlined above, the City plans to take a more active role identifying and correcting problems in the separation and collection of recyclables in the non-residential sectors.

The City will take the following actions regarding education regarding generators:

- 1) Initiate written contact with all owners of multi-residential complexes within 6 months of the adoption acceptance of this modification followed by written contact with all non-residential owners within 1 year. Correspondence will outline requirements, deadlines for compliance and penalties.
- 2) Conduct informational meetings targeting owners of non-residential properties.
- 3) Specify and communicate program and reporting requirements to non-residential owners outlining regarding their on-site recycling plans and procedures.

To assist in this effort the DGS recently compiled a brochure on available recycling markets that will be made available to all commercial haulers, commercial landowners and the municipalities in the Planning Unit. This information will be promoted by the PURC and the brochure will also be available on the Planning Unit website and is included in Attachment 5.

In regards to education and communication, to more fully promote and enhance the recycling program the DGS will request that the Webmaster make some changes to the City Website such as:

- 1) adding a recycling program information tab on the home page
- 2) adding information about recycling programs not covered by the DGS collection, including :
  - a. Commercial and multifamily residential recycling program requirements
  - b. Contact information if landlord is not providing required recycling services.
  - c. Institutional recycling requirements.
  - d. School recycling requirements and recommendations.
- 3) General information about waste reduction and recycling to promote awareness.
- 4) Link to the recycling website that will be established for the Planning Unit.

As part of data collection regarding recycling programs within the Planning Unit, a review of the member municipalities identified varying educational and promotional material. The Town of Bethlehem distributes a yearly “spring clean up” brochure. It also advertises on the Town website, in the local newspaper and on the public cable channel as well as distributes flyers in public places. The Town of Berne provides recycling information through the Town newsletter, the Town website, the Berne Courier and flyers. Green Island has used flyers and in school education programs but the material is in need of updating. Both Guilderland and Knox provide information on each Town’s website and through informational flyers. Knox hands out flyers at the Transfer station. The Town of New Scotland maintains information on the Town website and maintains information and instructions at Town Hall. In Rensselaerville “face to face” instruction is provided at the transfer station and the Town provides residents with coupons to participate in HHW days in Bethlehem. Westerlo advertises HHW collection days in the local newspaper and copies of recycling instructions are maintained at Town Hall to compliment face to face instruction provided at the transfer station. The Village of Voorheesville promotes its recycling program through newsletters, brochures and mailings. There is no information regarding education programs for East Greenbush, Rensselaer, and Watervliet.

The Planning Unit Recycling coordinator will compile information and instructions from each municipality regarding their waste reduction and recycling programs. This information will be made readily accessible to residents and businesses of the Planning Unit by posting it to a new recycling website to be established with a recycling focused domain name (*such as capitalrecycling.org*).

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Multi-municipal recycling promotional materials will be considered for program components that are common across the planning unit. These might include brochures on topics like backyard composting and mulching grass clippings.

The City of Albany promotes its residential waste collection and recycling program through a comprehensive mailed brochure, which is also available on the City's website: [www.albanyny.gov](http://www.albanyny.gov). The brochure is also provided with each new recycling bin and is also available at the DGS. This brochure is included in Attachment 5 along with the City's Commercial Recycling Brochure.

### **Institutional Recycling**

To reach a wide audience of "life long" recyclers, the City will provide recycling bins to all City public schools and private schools as part of an overall recycling education program. The Planning Unit Recycling Coordinator will be tasked with promoting increased recycling in the schools. The PURC will also work with the coordinators from member municipalities and this program will be expanded to include all public and private schools in the Planning Unit. As part of their effort, the PURC and local recycling coordinators will work with the schools to ensure their collection service providers not only provide recycling collection but also assist the schools with proper structuring of their collection contracts to ensure they receive the associated cost benefit for recycling additional materials.

### **2.3.3 Develop and implement a Materials Recovery Facility (MRF)**

Establishment of a regional MRF to process recyclables did not occur by January 1992 as proposed in the 1991 SWMP. This was largely due to the Planning Unit not achieving Authority status. The City, on behalf of the Planning Unit, negotiated a contract with a local private entity to accept recyclable from members of the waste shed. After the initial contract expired, member municipalities continued to use this facility until a new contract could be procured. Meanwhile, communities delivered their recyclables to private sector processors.

In February 1997, the City of Albany issued a Request for Proposal to design, equip, maintain, and operate a solid waste transfer and materials recovery facility and to provide recycling services. In response to the 1997 RFP, proposals from the private industry to utilize the closed shredding facility as a regional MRF/transfer station were received and reviewed during the first quarter of 1998. Market conditions at that time for both recycled materials and waste disposal and the investment required to upgrade the facility, resulted in no acceptable proposals, and as a result, the City did not award a contract.

However, in October 1998, the largest private entity in the Planning Unit that accepted commingled materials unexpectedly ceased operations. As a result, the City of Albany, as lead agency, quickly developed access to the Rapp Road transfer facility to all member communities and private haulers for purposes of accepting commingled materials. At that time, the facility served the City of Albany, City of Cohoes, City of Rensselaer, Village of Green Island and the Town of Bethlehem. Until December of 2003 these communities continued to utilize the Rapp Road transfer station or private infrastructure as has been previously identified. A review of compliance reports also indicates that during the years 2005-2006, the City of Cohoes dropped out of the Planning Unit but all other municipalities continued to use the Rapp Road transfer station or private infrastructure. These compliance reports also indicate that Albany, Green Island and Bethlehem use the Rapp Road Transfer Station. The remaining planning unit communities continued to utilize the private transfer/processing infrastructure to recycle.

In January 2007, the City of Albany, acting on behalf of planning unit, entered into a recycling contract with Hudson River Recycling, a Materials Recovery Facility (MRF) operating in the Port of Albany. The MRF's operating capacity allowed for a significant program savings by instituting a major change in curbside operations. The new facility allowed for direct hauling of recycled material to the MRF. Due to a lack of processing ability in the Capital District,

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the City of Albany was required to segregate paper from containers at the Rapp Road facility and ship those items to separate MRFs. Now a direct haul arrangement provides for significant program cost savings by negating the need to segregate, reload and transport materials to single stream MRFs outside of the Capital District.

As recently as January 2008, the City had contemplated issuing an RFP for the development of a single-stream MRF in the capital district to accommodate future acceptance of recyclable materials. However, the City has elected to postpone, and possibly amend, this RFP process.

The current agreement for use of the existing regional MRFs expires on December 31, 2008. Prior to the expiration of this agreement, the City will issue a Request for Proposal (RFP) for ongoing acceptance of recyclable material. The goals and objectives of this procurement will include:

- Provide cost effective recyclable markets for existing materials collected by DGS and the member municipality recyclables program.
- Provide opportunity to increase recyclables diversion rate by allowing for expansion of resident participation, expansion of recyclable material acceptable for collection and marketing, or by other means. For example, the expansion of plastics recovery beyond the existing program collection of #1 and #2 plastics, to include all plastics #1 - #7, will be a stated preference.
- Provide opportunity for expanded commercial and institutional recycling programs.

It is anticipated that the RFP will provide a flexible mechanism for considering both dual stream and single stream recyclables processing, as well as for considering other ways to meet the above noted program objectives.

Table 3 lists area processors identified by member municipalities in their responses to the municipal survey conducted for this SWMP modification. Information about each municipal recycling program is presented in Attachment 1.

### **2.3.4 Household hazardous waste programs**

The original SWMP called for the City of Albany to sponsor spring and Fall Household Hazardous Waste Drop-Off Days for residents of the City of Albany and to provide technical assistance to communities in the planning unit so that they could plan and implement HHW collection programs. Current information about HHW management practices was solicited from each community as part of the comprehensive survey of municipal solid waste collection and recycling practices was undertaken as part of this SWMP Modification and are described below and included in Attachment 1.

This element of the original SWMP has been fully implemented and has evolved beyond the original expectations. The City of Albany now provides HHW drop-off collection at the Rapp Road Landfill on a regular basis and has scheduled eleven collection days in 2008 at this facility.

The Town of Bethlehem offers a HHW day annually in May and the Towns of Berne, New Scotland and Westerlo participate in this program. The Town of Guiderland offers two HHW days annually and the Village of Altamont also participates in this program.

The Town of Rensselaerville transfer station collects HHW once a year. Green Island does not have a program but is investigating implementing one. The Cities of Rensselaer, Watervliet and the Town of East Greenbush have not provided any information regarding the status of their HHW programs. Continued membership within the Planning Unit will be predicated on municipalities providing the required paperwork to the PURC.

In addition, the PURC will also play a role in coordinating the sharing of HHW collection services across municipalities.

### **2.3.5 Continuation of the waste-to-energy facility or incinerator**

The Sheridan Avenue incinerator was closed to refuse-derived fuel on January 26, 1994 due to potential environmental concerns associated with air emissions and in response to neighbor complaints. The City of Albany determined that the shredding operation at the Rapp Road facility was no longer economical in the following years and discontinued the operation on June 28, 1996.

Negative public reaction to the Sheridan Avenue incinerator resulted in the elimination of further consideration of waste-to-energy at that time.

The City and the Planning Unit have always been open to the consideration of new and emerging technologies for solid waste management. Waste-to-energy, as well as other proven and emerging technologies will be evaluated as part of the New SWMP. This process is scheduled to commence later in 2008. Emerging technologies will include thermal gasification, aerobic and anaerobic digestion among others. Evaluation criteria will include cost and financial risk, ability to implement, effectiveness and environmental impacts. These criteria will be developed with input from an advisory group of stakeholders which will be established early in the process.

As part of this SWMP Modification, this element of the original SWMP has been deleted. One effect of the cessation of RDF combustion at the Sheridan Avenue Incinerator has been to increase the quantity of waste that ultimately requires alternative management methods. Based upon an average annual capacity of approximately 100,000 tons per year at the RDF facility, an equivalent additional capacity of MSW must be reduced, recycled or disposed of at the landfill annually. While this additional capacity is partly offset by the ash disposal requirements from the RDF combustion process, the net effect is the more rapid depletion of available landfill disposal capacity than would have otherwise occurred.

### **2.3.6 Continue use of the Rapp Road Solid Waste Management Facility Landfill to maximum capacity**

The City of Albany, on behalf of the Planning Unit communities, has continued use of the Rapp Road Landfill through construction and operation of the Wedge (permit to construct and operate dated January 31, 1997) and the P-4 Project (permit to construct and operate dated February 29, 2000).

As part of this SWMP Modification, the Eastern Expansion of the Rapp Road Landfill is expected to provide an additional 2,925,000 cubic yards of airspace. Because of the Habitat Restoration Plan associated with the Eastern Expansion, including the provision of conservation easements, no further landfill expansions at this site will be possible. Based on the estimated disposal capacity and a waste acceptance rate of 277,200 tons per year (TPY), the Eastern Expansion is expected to reach capacity in the year 2016.

The Draft Supplemental Environmental Impact Statement (DSEIS) for the Eastern Expansion presents a discussion of alternatives, including the short-term alternative associated with the transfer and transport of solid waste to another permitted disposal site. For the purposes of this analysis, this alternative includes the redirection of 260,000 TPY, which approximates the waste currently disposed of at the Rapp Road Landfill, including the waste that is currently received from outside the Planning Unit. It also closely approximates the amount of net solid waste disposal estimated from the Planning Unit, although not entirely managed at the Rapp Road Landfill, as shown in Table 2 of Attachment 6. Currently, there is no available existing local transfer station with the capacity to accept this amount of waste. Therefore, for purpose of this analysis, this alternative assumes that a new transfer station would be developed by the City of Albany to accommodate this entire waste stream in an attempt to approximate the present waste flow

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circumstances in the Capital District area. As noted in section 5.5 of the DSEIS, the estimated cost to transfer through a newly constructed facility, transport with a fleet of new vehicles and dispose of waste at a commercially available landfill like High Acres is approximately \$90 per ton. This is comprised of estimated costs of \$7 per ton for transfer costs, as calculated below, \$45 per ton for transport costs, and \$38 per ton for disposal costs.

CHA estimates that the cost to operate a 1,000 TPD transfer station, not including transport and disposal costs is \$2,039,000 per year. When this annual transfer station operating cost is spread over the full tonnage capacity of the facility, 260,000 TPY (1,000 TPD times 260 days per year), it represents an average of \$7.84 per ton. For purposes of this analysis the cost was rounded down to \$7 per ton.

Currently, the City of Albany's waste disposal costs are subsidized by tipping fees paid by other users. If the Eastern Expansion is not approved and future waste must be exported and disposed at a commercially available site, the estimated cost for the City of Albany to transfer, transport, and dispose of its own residential collected MSW would be **\$2,890,800** per year. This value includes the cost of transfer, transport, and disposal as noted above multiplied by the approximately 32,120 tons of waste delivered to the Landfill by the City of Albany DGS in the year 2005.

If the proposed Eastern Expansion is not approved, other users of the landfill will also need to utilize an alternative disposal site and will likely incur additional costs to do so. Based on the 2005 waste delivery rates and a \$90 per ton cost for transfer station operation, transport and disposal (compared to the existing \$52/ton tipping fee at the landfill for the Planning Unit communities), the potential **increase in cost** to transfer and dispose this MSW for other members of the Planning Unit and other local users (but not including the City of Albany) could be as high as \$3,114,590, depending on how much of this material is directed to the new transfer station from the Planning Unit sources. This is based on approximately 81,963 tons of MSW delivered to the Landfill from these sources in 2005. The estimated breakdown of these increased costs is as follows:

- Municipalities of the Planning Unit (not including Albany) – 32,033 tons for a potential increase of \$1,217,250.
- Other local waste from inside the Planning Unit – 49,930 tons for a potential increase of \$1,897,340.

The proportional allocation of local waste from outside the planning unit (50%) is based on the waste disposal and recycling data for 2007 presented in Table 2 of the SWMP Modification and the results of a spring 2008 waste origin survey conducted by CHA at the Landfill. This other local waste from outside the Planning Unit (114,080 tons) may also experience an increase in costs over the \$52 per ton currently paid at the landfill; however, the precise amount is unknown as it will likely be directed to the least costly disposal alternative available at the time.

There will also be cost increases associated with the disposal of Petroleum Contaminated Soils (PCS), currently at \$25/ton, and Alternative Daily Cover Material (ADCM). These anticipated cost increases are not quantified here.

There could also be negative economic impacts on communities or waste generators who are displaced from disposal sites that accommodate the exported MSW from the Albany waste shed. These displaced communities will likely need to utilize a more distant disposal site, perhaps outside of New York, along with the attendant increases in cost.

In addition to internalizing solid waste disposal costs for the City's collected waste, the operation of the landfill currently provides revenues sufficient to pay for the City's solid waste and recyclables collection services (\$3,069,000) and annual debt service for bonds issued for previous solid waste related projects (\$2,376,100). To the extent revenues from the operation of the landfill exceed this amount; those revenues are paid into the general fund to reduce the total tax burden on the residents of the City of Albany. In the event the Eastern Expansion were not approved, the City would have to find an alternative source of revenues for these costs and provide for an additional \$2,890,800 per year in transfer, transport, and disposal costs for City collected solid waste.

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This is not an economically viable alternative for the City at this time. As a result, the City of Albany has proposed to develop the Eastern Expansion to provide the necessary time to evaluate, plan, and implement other long-term alternatives which will reduce the economic burden that would occur as a result of the long distance transport and disposal component. The evaluation and planning of other long-term alternatives will be the subject of the New SWMP that will be commenced later in 2008. Additional details regarding the New SWMP are provided in the Implementation Schedule.

### **2.3.7 Continue recycling program to maximize waste reduction and recycling**

Revised reuse and recycling goals have been developed as part of this SWMP Modification, for each year from 2008 through 2011, after which time it is anticipated that a New SWMP will have been developed and approved. The revised reuse and recycling goals are based on the measured 2007 reuse and recycling percentage of 33%, and includes both MSW and C&D recycling. The progressively increasing goals of 34% in 2008 through 47% in 2011 are based on increases in recovery expected from the MSW fraction, entirely from the residential, commercial, institutional, and industrial (CII) sectors. These goals are also detailed in Table 4, Revised Implementation Schedule.

The figures presented as tonnages or percentages of waste reduced, recycled or reused in this SWMP Modification (including Table 4 of the main body and Table 2 of Attachments 6) are goals established by the Planning Unit based upon several assumptions, including, but not limited to: available manpower, funding and material markets; that municipalities, CII waste generators and commercial haulers and others will perform their obligations under this SWMP Modification; and high level public participation and materials capture rates. In all cases, the recycling goal figures presented are based upon a combination of currently available information, future projections, and optimistic assumptions of what may be achievable.

The actual quantities of materials reduced, recycled and reused will vary from the goals presented to the extent the assumptions due not prove to have been reflective of actual conditions. Further, many factors may impact on the ability of the Planning Unit's rate and degree of success in the achieving these goals, including, but not limited to factors such as: limited financial and staffing resources; large variability in the types of areas to be serviced ( rural vs. urban); the existence of a large number of multi-family dwellings; a large diversity in commercial and institutional establishments to be integrated into the planned programs; and other factors not yet known which could bear on the achievement of these goals. Most of these factors are not within the reasonable control of the City of Albany or the Planning Unit.

Furthermore, none of the recycling goal figures used in this SWMP Modification are intended to be used as regulatory requirements or permit conditions. These goals are subject to change as a result of additional information expected to become available as a result of future evaluations to be preformed by the Planning Unit.

The reuse and recycling goals do not include any allowance for waste reduction. The original ANSWERS SWMP and the New York State SWMP had assumed that waste reduction would account for an additional 8 to 10% reduction in the amount of waste requiring disposal.

These goals are based on the elements of this SWMP Modification which are targeted at increasing the amount of recycling achieved in both the residential and CII sectors. These measures include the City's new requirement that commercial haulers using the Rapp Road landfill provide recycling services for commercial generators and report on their program results. Other measures are more fully detailed in implementation schedule and in other sections of this SWMP Modification.

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In order to increase recycling rates and maximize waste reduction the status of existing programs was evaluated. Municipal waste diversion rates for 2005, 2006 and 2007 were calculated and are presented Attachment 7 of this SWMP Modification. The total municipal residential waste diversion rate for the Planning unit was over 32% in 2005, 2006, and 2007. These diversion rates vary significantly between municipalities, in large measure due to varying quantities of yard waste recovered for recycling. The diversion rates not including yard waste were 17% in 2005 and 15% in 2006 and 2007 (Attachment 7).

The diversion rates presented above are calculated with data that do not account for most MSW recycling that is occurring from commercial haulers collecting residential waste or from MSW collection and recycling that is occurring in the CII sector. As noted in section 2.3.2 (and Attachment 3), based on surveys conducted of major waste generators and commercial haulers representing 14% of the employment in the Planning Unit, an overall average commercial and institutional waste recycling diversion rate of 46% was calculated. While we do not assume that this average diversion rate would be applicable across the entire commercial, industrial and institutional waste sector, the results do show significant implementation efforts are presently on-going with respect to waste reduction and recycling programs in the Planning Unit. Additional education and enforcement efforts are planned to increase the recovery or recyclables from the residential sector that is serviced by commercial waste collectors, and from waste generators in the CII sector.

Finally, the municipal waste diversion rates noted above are for MSW only, and do not account for the recycling of C&D debris, which is a significant component of the solid waste stream. Some communities, like New Scotland provide for the collection of C&D debris for recycling and this will be encouraged in other Planning Unit communities in the future through the efforts of the PURC. As noted in the discussion on waste generation presented in Attachment 6, based on a variety of sources, CHA estimates that total C&D generation amounts to about 4 lb per person per day, and based on the documented 2007 recycling tonnages described below, approximately 57 % of C&D is recovered for re-use and recycling.

The data for the C&D Recycling facilities came from a variety of sources, including material recovery and recycling data found in 2007 Annual Reports submitted to the NYSDEC by various C&D recycling facilities in Albany County, but does not include C&D material recovered for beneficial reuse at the Rapp Road Landfill or PCS. These included C&D recycling facilities in Ravena and Watervliet owned by Callahan Industries, the WM Biers Inc. Facility owned by William Biers, and the King Road Materials Cordell Road Facility owned by Dolomite Products Inc. These facilities that provided data on the recovery of asphalt and concrete and reported waste delivery by origin, for both Albany County and Rensselaer County. The population of the municipalities in the Planning Unit was divided by the total county population to determine the proportional share of the recycled materials that can be allocated to the Planning Unit. The population of Planning Unit municipalities represents 65% of Albany County and 5% of Rensselaer County, and for purposes of this report, waste delivery and recycling tonnage from these facilities from the Planning unit were determined based on these proportions.

Table 5 shows the C&D Recycling tonnages allocated to each facility and the total of approximately 84,500 tons of estimated C&D recycled from the Planning Unit. Dividing this by the estimated 148,100 tons of C&D generated annually (from the waste generation discussion presented in Attachment 6, Table 1) yields an estimated C&D Recycling and Recovery Rate of 57%.

During the upcoming preparation of the New SWMP, more specific information will be sought about this management and recycling of this important fraction of the total waste stream. In addition, alternatives for increased recovery of gypsum wallboard from C&D will also be evaluated as part of the New SWMP.

In connection with the preparation of this SWMP Modification, municipal representatives were contacted and requested to provide information to determine the state of recycling programs in each community as well as provide

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information to support this analysis and presentation. The results of the municipal survey are fully presented in Attachment 1. All member municipalities will be required to submit information regarding recycling programs the diversion rates annually as part of their ongoing membership in the Planning Unit. The information will be a condition of the IMA that will be required of all Planning Unit members. It is anticipated that an executed IMA will be in place with each member municipality by the fall of 2008.

In regards to data collection, the Town of East Greenbush was not a member of the Planning Unit in 2005, 2006, or 2007, years in which data was gathered for use in the preparation of this SWMP Modification. Data from East Greenbush will be reported as part of the planning unit in Recycling Reports and Compliance Reports for future years. Baseline information has been sought from the Town to benchmark solid waste generation and recycling for the year 2007. If this data is unavailable for 2007, then 2008 will be established as the baseline year for East Greenbush recycling program performance.

As noted previously, not counting yard waste recycling tonnage, residential waste diversion and recycling in the planning unit municipalities was measured at 15.5% in 2007. While many of the measures identified in this SWMP Modification are focused on improvements to the commercial waste sector, including commercially collected residential waste, there are expected to be improvements as well in the recovery of municipally collected residential recyclables. These goals are based on a combination of targeted efforts within the City of Albany as well as throughout the Planning Unit to initially educate (and enforce as needed) about the requirements of the existing programs, quickly followed by increasing the types of materials collected for recycling in many member municipalities to a relatively consistent list throughout the Planning Unit. This will be followed by further expanding the types of recyclables to be collected throughout the Planning Unit, and will be further supplemented by the consideration of PAYT. Recent educational and enforcement efforts in Westchester County which yielded an initial increase of 25% over the current recyclables recovery rate, is the basis for the initial projections followed by similar projected increases for each of the other identified program enhancements. The municipally collected MSW diversion goal not including yard waste recycling tonnages will be as follows:

- 16.5% in 2008
- 20.5% in 2009
- 25.5% in 2010
- 29.0% in 2011

These percentages are calculated as shown in the tables in Attachment 7, by dividing the documented MSW recycling tonnage from municipal programs (excluding yard waste) by the sum of reported municipal MSW collected for disposal and MSW recycling tonnage(excluding yard waste) .

The PURC will gather statistics and monitor future program performance to determine whether these goals are being met and whether program improvement are required in one or more of the member municipalities or in the planning unit program as a whole. The DGS will initiate a set out rate analysis within 6 months to benchmark its residential recycling collection program and identify specific areas for improvement as part of this evaluation.

Additionally, based on the efforts of the PURC to enhance cooperation with respect to yard waste management between member municipalities, to reduce the burning of yard waste and brush at the rural transfer stations, the potential establishment of a new yard waste composting facility in the Town of Knox, the direction of yard waste to existing facilities from municipalities that do not have composting operations, and the increased commercial sector education, enforcement and tracking efforts, it is anticipated that yard waste recovery will also increase Residential waste diversion and recycling in the Planning Unit municipalities (including yard waste) was measure at 32% in 2007. The municipality collected MSW diversion goals, including yard waste, will be as follows:

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- 35.0% in 2008
- 38.5% in 2009
- 45.0% in 2010
- 49.0% in 2011

As noted above, the overall Planning Unit Diversion Rate Goals reflect an expectation that most of the tonnage increases in waste diversion will come as result of increased commercial and residential recycling resulting from the implementation of the various elements of this SWMP Modification. As outlined more completely in the revised implementation schedule in Table 4, a significant and concentrated effort will be placed on education, expansion, development and enforcement of recycling in the CII sector. As noted, through initial survey results, it was identified that an average of 46% of material was recycled in a 14% sampling of the CII sector. As part of the effort and through the reporting requirements to be implemented in 2009, data will improve significantly as well as overall recovery performance. This will be followed by increased opportunities for additional recyclable streams such as food waste. However, based on the limited supply of data within the CII sector, we have assumed a very conservative recovery rate of 8% for 2008. This will be followed by significant increased due to the reporting, education, and enforcement efforts to be initiated in 2009, and another significant increase by the end of 2010, with a more moderate increase in 2011. The Commercial MSW Diversion rate Goal will be as follows:

- 8% in 2008
- 30% in 2009
- 46% in 2010
- 50.5% in 2011

These percentages calculated as the documented MSW recycling documented from the commercial sector divided by the total estimate of commercial waste, calculated based on a generation rate of 1.8 lb/person/day (as described in Attachment 6).

These individual component goals are also included in the detailed implementation schedule presented later in this SWMP Modification.

In regards to improving recycling rates, a review of several Pay-as-you-throw (PAYT) programs were conducted to determine if this approach is practical for the City, other Planning Unit member municipalities and Planning Unit as a whole. All the testimonials indicated that these programs were successful in reducing MSW and increasing recyclables collected, however the programs did not come without challenges. PAYT programs are discussed further in Section 2.6.2 below.

CHA has documented reduction and recycling in the Planning Unit in 2007, based on surveys administered as part of the SWMP Modification and on Annual Reports for 2007 submitted to the NYSDEC by solid waste management facilities. These results indicate that nearly 34,000 tons of MSW were recycled from municipal and commercial programs. This does not include recycling by the NYSOGS because it has not yet compiled these results for 2007.

The results also indicate that approximately 84,500 tons of C&D materials have been recycled in the Planning Unit in 2007, including (not including PCS or other materials used at the Rapp Road Landfill) and recycled concrete and asphalt from several C&D processing facilities in Albany County. In total, in 2007 approximately 118,500 tons of material was documented as recovered for recycling.

Net waste disposal from the planning unit was determined by adding the reported waste quantities delivered to the Rapp Road Landfill and the Town of Bethlehem C&D Landfill, with waste generated in the planning unit which is disposed outside the planning unit (i.e., waste delivered to Waste Management's Boat Street transfer station, which is

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disposed of at High Acres Landfill and the Hudson Falls Waste to Energy Facility). Net waste disposal also subtracts the tonnage delivered to the Rapp Road landfill from the Schenectady Transfer Station, even though some of the waste delivered to that transfer station is believed to originate in the Planning Unit. Overall, net waste disposal of Planning Unit generated waste in 2007 amounted to over 226,000 tons as noted below:

- Disposal at Rapp Road Landfill - 253,300 tons
- Disposal at Bethlehem Landfill – 1,959 tons
- Waste exported for Disposal - 66,714 tons
- Tonnage from Schenectady Transfer Station – (95,502)
- Net Waste Disposal from the Planning Unit – 226,471 tons

As shown in Table 2, these recovered material and disposal quantities result in an overall Planning Unit diversion rate in 2007 of over 33%. This may underestimate the actual recyclable diversion rate because additional recyclables are likely recovered that are not quantified here (e.g., the OGS recyclables) whereas the disposal tonnage is very well quantified.

### 2.3.8 Develop new landfill capacity to serve the Waste shed

The original SWMP called for the development of long term landfill capacity to serve the ANSWERS Waste shed once capacity at the Rapp Road facility was exhausted, and contemplated the development of such a landfill outside the City of Albany, but within the ANSWERS Waste shed. The SWMP identified 15 sites within the Waste shed recommended for further study, and after completion of two further siting studies, Site C-2, in the Town of Coeymans, was identified as the preferred site for a long term landfill once capacity at the Rapp Road facility was exhausted. Initially, it was contemplated that the capacity at the Rapp Road facility would be exhausted some time in November, 1994. The city entered into option to acquire Site C-2, and the City, on behalf of the ANSWERS Waste shed, submitted a permit application to DEC for the site in the fall of 1994. This process has been unsuccessful to date in part for the following factors:

- (a) The adamant opposition of the Town of Coeymans regarding the siting of a long-term landfill within their Town,
- (b) Litigation by the Town of Coeymans disputing the DEC acting as lead agency for the proposed long term landfill in the Town of Coeymans,
- (c) Two lawsuits commenced in December 1998 against the City regarding the City's exercise of options to purchase the site in the Town of Coeymans seeking to stop the City's long-term landfill siting process;
- (d) The presence of extensive federally regulated wetlands on Site C-2;
- (e) Additional litigation commenced in May, 2005 by residents of the Town of Coeymans seeking to nullify option extension agreements for the property; and
- (f) Additional litigation commenced in August, 2006 by the Town of Coeymans seeking to halt fulfillment of the terms of the option agreements. All of these actions resulted in such uncertainty over the City's ability to site a landfill at Site C-2, that development of the site ground to a halt.

In the interim, and while the lawsuit was pending, the City of Albany, on behalf of ANSWERS applied for and obtained a 6 NYCRR Part 360 Permit to Construct and Operate a landfill expansion to the Albany Interim Landfill. The permit for that expansion, known as the Wedge, was granted in January 1997, and was designed to provide for additional disposal capacity for an estimated 3 years at then-current waste disposal rates. Construction of the Wedge was completed summer 1997 and opened October 1997.

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Due to continued litigation with the Town of Coeymans, the City of Albany, on behalf of the ANSWERS Waste shed applied for and obtained a 6 NYCRR Part 360 Permit to Construct and Operate a landfill expansion to the Albany Interim Landfill (referred to as the P4 Project) which was granted February 29, 2000 and was designed to provide for an additional approximately 8 to 10 years of disposal capacity at then-current waste disposal rates. Construction of the P4 expansion was completed in the fall of 2000 and was granted provisional permission to operate on December 4, 2000.

The City, in the mean-time, continued to work on developing off-site long term landfill capacity for the ANSWERS Waste shed. The options the City held on the property which comprises Site C-2 were scheduled to expire in late 1998, and the City notified the property owners that it would exercise those options. On November 16, 1998 the Common Council of the City of Albany adopted a Negative Declaration for the funding of the acquisition of the property comprising site C-2 and passed a Bond Ordinance authorizing the issuance of bonds in the amount of 3.45 Million Dollars to acquire the property. However, in December 1998, two separate lawsuits were commenced challenging those actions of the Common Council, one by the Town of Coeymans, and a second by residents of both the Town of Coeymans and the City of Albany. Both lawsuits alleged that the City violated the State Environmental Quality Review Act, and the lawsuit commenced by residents also alleged that the purchase of Site C-2 constitutes a waste of City funds. These lawsuits were decided against the City, and as a result, the City was unable to acquire the property in 1998, as originally contemplated.

The City made an application to the Department to allow for segmented review of the acquisition of Site C-2, separate and apart from the review of the construction and operation of a landfill on the site, which was never acted upon. In the meantime, the City executed additional option extension agreements, which were also challenged by residents of the Town of Coeymans. This lawsuit was decided in the City's favor. Because the outcome of the litigation was unknown, it was possible that the City could have lost control over Site C-2, the City submitted an application for the Eastern Expansion at Rapp Road.

The most recent litigation commenced against the City regarding its acquisition of Site C-2 was dismissed by the Appellate Division, Third Department in November of 2007. The City now owns Site C-2.

Site C-2 may be able to play a role in connection with a facility that may be developed as part of the New SWMP. That process will include input from a stakeholder advisory group and will be used to determine what role Site C-2 will play in the future of solid waste management of the Planning Unit.

### **2.3.9 Use of Rapp Road facility as a waste transfer station**

The original SWMP noted that the Rapp Road facility will be the central location for transferring solid waste to disposal locations outside the City of Albany. This SWMP Modification includes the development of the final expansion of the Rapp Road Landfill. If the expansion is approved, the City intends to acquire land immediately adjacent to the existing Rapp Road landfill and relocate the transfer station to that parcel.

### **2.3.10 Administrative Structure**

ANSWERS never achieved Authority status as planned. Therefore, the communities continue to operate as an informal consortium with the City of Albany as the lead participant. The current administrative structure will continue under this SWMP Modification with the following enhancements. As part of this SWMP Modification, participant municipalities will be expected to execute an IMA with the City of Albany, which will provide for a PURC. The PURC will be an area-wide resource to promote waste reduction and recycling, monitor compliance with the municipal recycling ordinances, provide assistance in applying for available grant funding, and compile annual data about

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recycling program achievement in each municipality including: commercial, industrial and institutional recycling programs. Pursuant to the IMA, the cost of implementing the requirements of this position will be allocated among the member municipalities, in proportion to their population. The Recycling Coordinator will be appointed in the fall of 2008. The PURC duties are included in Attachment 4. This is a significant change to the current administrative structure of the Planning Unit and is expected to result in a more effective mechanism for achieving increased waste reduction and recycling.

Additionally, The City of Albany will take the lead in exploring the formation of a regional environmental council for the four county Capital Region. If established, among other things, such a regional environmental council could coordinate and leverage local efforts related to environmental sustainability and greenhouse gas reduction. While not part of the administrative structure of the Planning Unit, the regional council could provide another mechanism for promoting and tracking the maximization of waste reduction and recycling in the region.

### **2.4 Revised Implementation Schedule**

The Original SWMP implementation schedule was presented in Section 10.8 and Figure 10-1, and had three main program components: Recycling Programs, ANSWERS System Operation, and Landfill Capacity.

An expanded implementation schedule for recycling programs was also provided in Figure 10-1A of the Original SWMP. A revised implementation schedule is presented in Table 4. This revised schedule shows specific program activities along with revised reuse and recycling goals, through the year 2011, during which time it is anticipated that a New SWMP will have been developed and approved.

The revised reuse and recycling goals are based on the measured 2007 reuse and recycling percentage of 33%, and includes both MSW and C&D recycling. The progressively increasing goals of 34% in 2008 through 47% in 2011 are based entirely on increases in recovery expected from the MSW fraction, primarily from the commercial, institutional, and industrial sectors.

These goals are based on the elements of this SWMP Modification which are targeted at increasing the amount of recycling achieved by the residential and CII sectors. These measures include the City's new requirement that commercial haulers using the Rapp Road landfill provide recycling services for commercial generators and report on their program results. Other measures are more fully detailed in the implementation schedule and in the SWMP Modification document

The figures presented as tonnages or percentages of waste reduced, recycled or reused in this SWMP Modification (including Table 4 of the main body and Table 2 of Attachments 6) are goals established by the Planning Unit based upon several assumptions, including, but not limited to: available manpower, funding and material markets; that municipalities, CII waste generators and commercial haulers and others will perform their obligations under this SWMP Modification; and high level public participation and materials capture rates. In all cases, the recycling goal figures presented are based upon a combination of currently available information, future projections, and optimistic assumptions of what may be achievable.

The actual quantities of materials reduced, recycled and reused will vary from the goals presented to the extent the assumptions due not prove to have been reflective of actual conditions. Further, many factors may impact on the ability of the Planning Unit's rate and degree of success in the achieving these goals, including, but not limited to factors such as: limited financial and staffing resources; large variability in the types of areas to be serviced ( rural vs. urban); the existence of a large number of multi-family dwellings; a large diversity in commercial and institutional establishments

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to be integrated into the planned programs; and other factors not yet known which could bear on the achievement of these goals. Most of these factors are not within the reasonable control of the City of Albany or the Planning Unit.

Furthermore, none of the recycling goal figures used in this SWMP Modification are intended to be used as regulatory requirements or permit conditions. These goals are subject to change as a result of additional information expected to become available as a result of future evaluations to be preformed by the Planning Unit.

The PURC will gather statistical information and monitor future program performance to determine whether these goals are being met and whether program improvement are required in one or more of the member municipalities or in the planning unit program as a whole.

The final component of this SWMP Modification is the preparation of a New SWMP. Among other things, the New SWMP will identify and evaluate alternative waste management technologies, including emerging technologies which may become available to further minimize requirements for land disposal. Institutional alternatives for the future administration of the Planning Unit, including issues related to expansion of the Planning Unit and waste flow control will also be evaluated. Major elements of the New SWMP process are presented with their anticipated time frames in the revised Implementation Schedule shown in Table 4.

### **2.5 Review and Comment Process**

It is anticipated that the City of Albany Common Council will be the lead agency for the SWMP Modification. A preliminary draft of the SWMP Modification was circulated to the municipalities of the planning unit for review and comment. After receipt of the comments, the Draft SWMP Modification was compiled and submitted to the NYSDEC for review. Upon determination of DEC that the SWMP Modification is approvable, it will be circulated again to member municipalities for review and approval. Review under SEQRA will also commence at that time, including review by all involved agencies or interested parties.

It is anticipated that this approval process will be completed before the end of the year 2008. A copy of the resolution adopted by the City of Albany, meeting the requirements of paragraph 360-15.10(d) (2), will be provided in the final version of the SWMP Modification. Similar resolutions of approval are expected from all member municipalities.

Official copies of the SWMP Modification will be submitted, when approved, to all public repositories and applicable agencies, as an addendum to the currently approved SWMP. The SWMP Modification and the currently approved SWMP will also be posted on the City's website.

### **2.6 Additional Items**

Based on comments received from NYSDEC, several items were noted to be incorporated into the SWMP Modification, and these are summarized below.

#### **2.6.1 Waste Prevention and Reuse**

Recycling programs must be paired with waste reduction and prevention strategies to effectively reduce solid waste that requires disposal. The Planning Unit will employ several waste prevention strategies to further reduce solid waste quantities that require disposal. One prevention strategy is the promotion of back yard composting programs throughout the Planning Unit. The PURC will coordinate with the recycling coordinators of each municipality and the NYSDEC Regional Solid and Hazardous Materials Engineer to provide periodic backyard composting demonstrations

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at the various municipal sites throughout the planning unit. The coordinator will also work to promote inter-municipal cooperation and shared use of existing yard waste composting facilities within the Planning Unit.

As part of the backyard composting and grass waste mulching will be promoted wherever appropriate on a Planning-unit wide basis through brochures and website postings. Through the proposed Planning Unit Recycling Coordinator (PURC), it is proposed that promotional efforts to encourage backyard composting and other appropriate on-site management techniques (and discouraging municipal and residential burning) will be undertaken.

Programs to reduce office paper consumption will also be coordinated throughout the Planning Unit. Initially the effort will be focused within the City of Albany government buildings. Policies to encourage/allow double sided copying will be implemented and communicated to all City employees. Additionally, the use of e-mail over paper copies will be encouraged as appropriate and use of shared electronic files rather than many paper copies will be encouraged. The PURC will prepare simple educational/informational materials to be distributed to schools, government buildings, office buildings, and businesses. This effort will be expanded and coordinated with all member municipalities.

Although the Planning Unit cannot force the public to buy recycled or reduced packaging, educational material will be provided through the Planning Unit website regarding the benefits of buying items with reduced packaging.

In addition, the existing programs that reuse and redistribute materials will be reinforced. Groups such as The Salvation Army, community drop-off/swap sheds and church groups already operate in many of the Planning Unit municipalities. Groups that reuse and redistribute furniture and household items will be an important part of this program. These groups will be identified and promoted on the Planning Unit Website.

### **2.6.2 Pay as You Throw Programs (PAYT)**

The City and the PURC will fully explore the effectiveness of PAYT programs and the feasibility of implementing such a program in the city as well as in each member municipality or throughout the Planning Unit. Pay-as-you-throw or volume-based disposal charges have been suggested as a potential mechanism to create financial incentives for waste reduction and recycling.

PAYT programs can have the very positive impacts of decreasing the MSW stream and increasing recycling rates. Often there are both political and community opposition to such a program particularly if solid waste collection is a service provided by a municipality and is often viewed as “free” by residents. It is important to conduct adequate public education programs for both customers and haulers to ensure adequate understanding of the program in that customers can have a direct impact on their solid waste disposal costs by choosing to reduce and recycle. Once implemented and operational for a period of time communities and residents have reacted very positively to these programs; recycling rates tend to increase, while MSW disposal quantities decrease.

Successful programs can be found across the county from large cities to small urban areas. Some communities that have successfully implemented these programs include: Dover, New Hampshire; Falmouth, Massachusetts; Fort Collins, Colorado; Gainesville, Florida; Poquoson, Virginia; San Jose, California; South Kingston, Rhode Island and Vancouver, Washington. All of these communities use the PAYT system in concert with strong recycling programs. Several communities have reported recycling rates of 50% once these systems were implemented. Perhaps more importantly, municipalities have significantly decreased the quantity of MSW directed to landfills, extending the life of disposal sites and reducing costs related to tipping fees. More information regarding these programs lessons learned can be found on the EPA’s website at <http://www.epa.gov/epaoswer/non-hw/payt/tools/success.htm>.

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One example of a successful PAYT program in New York State is operated in the City of Utica through the Oneida Herkimer Solid Waste Management Authority (OHCSWA). This program was initiated in 1990 or 1991. Residents pay an annual user fee and purchase “blue” 15 or 30 gallon bags for MSW which are available at more than 30 retail outlets within the City. Trash and recyclables are collected once a week on the same day. The City’s residential set out requirements are as follows:

- Unlimited blue bags
- One cubic yard trash/construction and demolition debris per single family
- One automobile battery
- One bulk item (appliance, couch, mattress)
- Unlimited recyclables- (orange bins provided)
- Green Waste
- Two tires

Nine other communities within the (OHCSWA) have also instituted PAYT systems. Records indicate that recycling rates for these communities including Utica are between 23-31%. Recycling rates for non PAYT communities within the Authority area have been documented as low as 10-13%.

The City of Binghamton has also been operating PAYT and recycling programs since 1991. With the onset of recycling, the City eliminated the tipping fee tax from all property tax bills. A bag system was instituted and residents purchase bags, thereby only paying for the amount of garbage they generate. The City estimates that over 130,000 tons of material has been diverted from the County Landfill due to this system; saving over \$5,000,000 in tipping fees since 1991.

The City of Albany DGS had previously informally evaluated (PAYT), but did not elect to implement the program at that time. The City will investigate the feasibility of such a program including identifying any necessary changes to collection, billing and administration as part of the research and development work leading to the New SWMP. The PURC, as part of this SWMP Modification, will take the lead in educating the member communities about the benefits and challenges of instituting PAYT systems and will work with the communities which have an interest in PAYT.

### **2.6.3 Enhanced Organics Recovery**

Based upon our review of available information about existing yard waste composting facilities in the Planning Unit, it may be feasible in the short term to recover additional organics, such as food waste or biosolids at these facilities. Management of food waste and biosolids (such as sewage sludge) at these existing facilities, and at other specially developed facilities designed for this purpose will be evaluated as part of the New SWMP. The City is proposing to jump-start the organic waste recycling effort by forming a planning unit wide task force including institutional food waste generators like OGS. In addition, the City is also considering accepting source separated organic waste (SSOW) for composting at its Connors Boulevard Yard Waste Composting Facility. The long term management and recycling of food wastes and other organic waste fractions (such as sewage treatment plant sludge) by composting and other methods is ultimately a key component of the New SWMP.

### **2.6.4 Waste Disposal Bans**

Substances currently banned from the Rapp Road Landfill are included in the Rapp Road Solid Waste Management Facility Commercial Recycling Brochure (Attachment 5) and are listed below.

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- Explosives or ammunitions;
- Combustible liquid or gas containers, bottles, cylinders, or cans;
- Caustic acids, corrosives, chemicals, or other hazardous wastes, radioactive or other contaminations or pollutants prohibited by mandatory and binding laws or regulations of the United States and New York State
- Liquid or slurry waste;
- Unopened containers, except empty household spray cans;
- Lawn clearing debris including grass, leaves, stumps, tree trunks, or limbs;
- Asbestos waste;
- Thick walled or solid metallic objects such as casting, forgings, gas cylinders, or motors;
- Steel or nylon rope, cables, or slings more than four feet in length;
- Case hardened or alloy steel chains over 3/8 inches in diameter or four feet in length;
- Animal wastes or parts of animal other than normal household garbage
- Recyclables as determined by the commissioner of the Department of General Services;
- Barrels or drums;
- Asbestos waste;
- Solid blocks of metal, rubber, or plastic in excess of two cubic feet;
- Any material classified as infectious or hazardous wastes such as: contaminated hypodermic needles, syringes, broken glass, scalpel blades, isolation waste, cultures, stock from laboratories, human blood and blood products);
- Incinerated or partially incinerated materials; and
- Industrial wastes, wastes that are not easily recognizable or wastes that may pose a health risk to landfill employees will only be accepted with written approval from the Landfill.

### 2.6.5 Public Space Recycling

As part of their overall recycling program the PURC will initiate a public space recycling program. Planning for this program will begin in the first quarter of 2009 with the identification of several public space recycling locations. A three month pilot program will be initiated at several locations throughout the City (such as Washington Park and Corning preserve). Upon the evaluation of the success rate at these locations the City will expand the program to additional locations. The overall goal is to provide public space recycling in every location that the City provides trash receptacles, however the final determination will be based on the success of the various locations in the Pilot program. In NYC for instance, the PILOT program revealed that success rates were highest in heavily traveled parks and commuter locations and the collection of paper resulted in less contamination than the collection of bottles and cans.

In conjunction with the placement of receptacles, the City will review its recycling ordinance and permit requirements for all public space activities making the provision of recycling, separation and collection of materials a permit requirement. This program will be expanded to member municipalities, with assistance from the PURC and updates to local recycling regulations are anticipated in the fourth quarter of 2010.

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**Table 1**  
**Key Components of Local Recycling Ordinances**

Community	regulated	Reference	Residential	Commercial	Institutional	Industrial	comments
City of Albany	Y 7-18-93	Ch 313 Solid Waste 313.11 Article 2 Source Separation Of Recyclables (11-19-90)	Y (1-4 units)	Y	Y	Y	Municipal pick up for residential. All others including 5+ units must arrange privately.
City of Watervliet	Y 4-20-72	Ch 168 Garbage/ Waste/Littering /Recycling, Article III Source Separation of Recyclables (1-17-91)	Y (1-4 units)	Y	Y	Y	Municipal pick up for residential. All others including 5+ units must arrange privately.
City of Rensselaer	Y 9-2-81	Ch 113 Garbage, Rubbish & Refuge	Y				Recycling only referenced, no specifics outlined. Com, Inst., Ind. not identified
Town of Berne	Y 8-12-92	Ch 164 Solid Waste Article III Mandatory Recycling	Y	Not addressed	Not addressed	Not addressed	Residents must recycle to use transfer station.
Town of Bethlehem	Y 6-19-90	Chapter 97 Solid Waste Article III Mandatory Recycling	Y (1-3 units)	Y	Y	Y	Residential customers required to recycle. Haulers must meet Town permit requirements.
Town of East Greenbush	Y	Local Law #2, 1991	Y	Y	Not addressed	Not addressed	Transfer station open to residents only.
Town of Knox	Guideline	No regulatory reference; recycling center info. on Town website.					Residents must recycle to use transfer station
Town of Guilderland (Altamont)	Y	Ch. 236 Solid Waste Article II Recycling 2-4-03	Y	Y	Y	Not addressed	Only residents may use transfer station for solid waste/recyclable disposal.
Town of Rensselaerville	Y	Local Law #2, 1991	Y	Y	Y	Y	Residents must recycle to use transfer station.
Town of New Scotland (Voorheesville)	Guideline	Local Law #2 1991	Y	Y	Y	Y	Requires source separation for only those with curbside service.
Town of Westerlo	Y	Article III Mandatory Recycling	Y	Not addressed	Not addressed	Not addressed	Residents must recycle to use transfer station.
Village of Green Island	Y	Article II Mandatory Recycling	Y	Y	Y	Y	

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**Solid Waste Management Plan Modification**  
**Table 2**  
**Recycling Summary for 2007**

	<b>2007 (Tons)</b>
<b>Reported Recycling in the Planning Unit</b>	
Residential & Commercial MSW <sup>1</sup>	33,968
<i>Yard Waste Component of MSW Recycling</i>	19,319
<i>MSW Recycling not including Yard Waste</i>	14,649
C&D <sup>2</sup>	84,498
<b>Total Reported Recycling from the Planning Unit</b>	<b>118,466</b>
<b>Reported Waste Disposal in Planning Unit</b>	
Rapp Road Landfill <sup>3</sup>	264,933
Bethlehem C&D Landfill	1959
Less tonnage from Schenectady Transfer Station <sup>4</sup>	(95,502)
Waste Exported from Planning Unit	
WMI Boat Street Transfer Station	66,714
<b>Net Waste Disposal from the Planning Unit</b>	<b>238,104</b>
<b>Total Recycling plus Disposal from the Planning Unit</b>	<b>356,570</b>
<b>Overall Planning Unit Diversion Rate</b>	<b>33.2%</b>

**Notes**

- 1) MSW Recycling tonnage is based on information gathered by CHA for the 2007 Planning Unit annual recycling report. Information was gathered from conversation with municipal representatives, and annual facility reports submitted to the NYSDEC. Includes proportional share of recycling tonnage recovered at WMI Boat St. Transfer Station but does not include any tonnage from NYSOGS recycling programs, which has not yet reported 2007 recycling tonnage.
- 2) Includes the proportional share of recycled tonnage recovered from C&D Processing facilities in Albany County, as reported in their 2007 annual report submitted to the NYSDEC. Does not include ADCM or PCS recycled for utilization at the Rapp Road Landfill.
- 3) Includes 253,300 tons of waste accepted for disposal in 2007 plus 11,633 tons of ADCM not counted as recycled tonnage.
- 4) This value represents tonnage delivered to Rapp Road Landfill from Schenectady Transfer Station. Some of this waste is actually generated in the Albany Planning Unit, but this amount has not been determined.



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<b>Table 3</b>					
<b>Recycling and Waste Management Facilities Processors</b>					
<b>Construction &amp; Debris</b>					
Facility Name	Location	Owner Info	Contact Person	Registration ID/ Permit No.	Regulatory Status
Albany Landfill  <b>C &amp; D Permitted</b>	525 Rapp Road Albany, NY 12205	City of Albany DPW 1 Connors Blvd, Albany	Joe Giebelhaus (518) 869-3651	01D02 4-0101-00241/00002-0	None
Albany DPW C & D Landfill	East of Conner Blvd at old lf Albany, NY 12204	City of Albany DPW One Connors Blvd Albany, NY 12204	Joe Giebelhaus 525 Rapp Road Albany, NY 12205 (518) 869-3651	01D02 4-0101-00241/00002-0	None  <b>For: Clean fill</b>
BBC Aggregate Recycling  <b>C &amp; D Registered</b>	Port of Albany Albany, NY 12202 (518) 434-2747	William Biers Box 340 Biers Rd. Coeymans Hollow, NY 12046 (518) 767-2531 (Private)	Not Listed	01W03 No Permit	Registration  <b>For: Asphalt, Concrete, Brick</b>
Bonded Concrete Co., Inc.  <b>C &amp; D Registered</b>	Route 155 & Grenada Terrace Latham, NY (518) 271-2518	Not Listed	Not Listed	01W04 No Permit	Registration  <b>For: Not Listed</b>
Callanan Industries Inc- Watervliet  <b>C &amp; D Registered</b>	100 Crabapple Lane Watervliet, NY 12189 (518) 273-1754	Callanan Industries Inc. PO Box 15097 Albany, NY 12212 (518) 374-2222	Not Listed	01W11 No Permit	  <b>For: C &amp; D Processing</b>
King Road Materials, Inc.  <b>C &amp; D Registered</b>	145 Cordell Road Colonie, NY (518) 382-5353	King Road Materials, Inc. PO Box 112699 Albany, NY 0 (518) 382-5353	Not Listed	01W02 No Permit	Registration  <b>For: C &amp; D Processing</b>
<b>Transfer Stations</b>					
BFI Runway Ave Waste T.S  <b>T.S Regulated</b>	Runway Avenue Latham, NY 12110	Browning-Ferris Industries 136 Sicker Rd. Latham, NY 12110 (Private)	Robert Griffin Same address (518) 785-7030	01T33 401260002000003	Permit  <b>For: Not Listed</b>
Good Riddance Trucking Co.  <b>T.S Regulated</b>	849 First Street Watervliet, NY 12008	Good Riddance Trucking Company Inc. 211 Alplaus Ave Alplaus, NY 12008	N/A (518) 346-1735	01T49 401260048300001	None  <b>For: Construction &amp; Demolition Debris</b>
Waste Management NY POA (Albany Materials Recovery Facility)	300 Church Street Ext. Port of Albany Albany, NY 12202	Waste Management of Eastern NY Widow Susan Rd. PO Box 207	Bill Sorel (518) 463-4433	01T67 4-0101-00185/00002	None

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<b>Table 3 Recycling and Waste Management Facilities Processors</b>					
<b>Construction &amp; Debris</b>					
Facility Name	Location	Owner Info	Contact Person	Registration ID/ Permit No.	Regulatory Status
<b>T.S Regulated Permit</b>		Amsterdam, NY 12010 (800) 476-6571 (Private)			<b>For: Recyclables (metal, glass, paper, plastic), MSW (Residential/ Institutional &amp; Commercial)</b>
Waste Management/EWI  <b>T.S Regulated</b>	21 Gansevoort Street Albany, NY 12206 (518) 463-4433	Waste Management of NY 123 Varick Ave Brooklyn, NY 11237 (Private)	None listed	01T70 4-0101-00283/00001	Permit  <b>For: Not Listed</b>
<b>Landfill Gas Recovery Facility</b>					
Minnesota Methane Albany LGRF  <b>LGRF Active</b>	Albany Landfill 525 Rapp Road Albany, NY 12205	Greg Johnston Minnesota Methane LLC 1675 E County Road B Maplewood, MN 55109 (651) 777-2698	Joe Mauro Minnesota Methane/United Gasco Three Brick Plant Road East Brunswick, NJ 08816 (201) 512-1848	01F01 401010027300001	Permit
Town of Colonie Sanitary Landfill  <b>LGRF Active</b>	1319 New Loudon Road Cohoes, NY 12047 (518) 783-2827	Town of Colonie 1319 New Loudon Road Cohoes, NY 12047 (518) 783-2827	None Listed	NotListed	Not Listed
<b>Waste Tire Storage Facilities</b>					
Terry Haggerty Tire Company	980 Broadway Albany, 12204	(518) 449-5185	None listed	Not listed	Not listed
RAK Tire Recovery	957/959 State Rt 143 Ravena, NY 12143	(518) 756-3641	Not Listed	None listed	Not Listed
CRM Co., LLC	4294 Albany Street Colonie, NY 12205	(518) 869-6000	Not Listed	None listed	Not listed
<b>Industrial/ Commercial Landfills</b>					
Lafarge Building Materials	Rt. 9W Ravena, NY 12143	Lafarge North American PO Box 3 Ravena, NY 12143	Fariel Benameur	01N20	None  <b>For: Dust (cement kiln), Cement contaminated with coal</b>
<b>Municipal Solid Waste Landfill</b>					
Albany Rapp Road SLF  <b>MSW Active</b>	525 Rapp Road Albany, NY 12205 (518) 869-3651	City of Albany One Connors Blvd Albany, NY 12204-2514	Joe Giebelhaus 525 Rapp Road Albany, NY 12205 (518) 869-3651	01S02 (Landfill-mixed solid waste) 40101017100011	Permit  <b>For: Asbestos, (friable), non-petroleum contaminated soil, ash (WWTP sludge), construction &amp; demolition debris, MSW (residential/ institutional &amp; commercial)</b>
Colonie (T) Sanitary Landfill <b>MSW Active</b>	1319 New Loudon Rd Cohoes, NY 12047 (518) 783-2827	Town of Colonie Memorial Town Hall Newtonville, NY 12128	Joe Stockbridge (518) 783-2827	01S26 (landfill- mixed solid waste) 401260003300001	Permit  <b>For: Yard waste, construction &amp; Demo debris, soil (petroleum contaminated) , industrial, animal carcasses, MSW (Residential/ Industrial &amp; commercial)</b>

\*No Waste to Energy Facilities in Region 4, No Ash Monofill Landfills in Region 4

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### Additional Processors Identified by Member Municipalities

Company	Recycled Material
Sierra Fibers 877 S Pearl St. Albany, NY 12202	Plastic, tin, co-mingled, aluminum, occ. Paper, corrugated cardboard, newsprint, mixed office paper
Hudson Metal 11 N. Ferry Albany, NY	Scrap metal- ferrous and non ferrous metals.
Metro Waste Paper Recovery 71 Fuller Avenue Albany, NY 12205	Newspaper, junk mail, cardboard
Bennington Paperboard RR 67 Hoosick, NY 12089 518-686-7357	Kraft paper, corrugated cardboard, newspaper.
Ash Trading 77 Broadway Albany, NY 12204	Paper and paper products & books.
Galivan Corporation 215 Oakwood Ave. Troy, NY 12182	Wood- non treated or painted. Brush also, non treated.
Rensselaer Iron & Steel 35 Riverside Ave. Rensselaer, NY 12144	Scrap metal
Troy Transfer LLC 83 Water St. (799 Burdick Ave., Troy)? Troy, NY 12180	C&D
Oneida Lake Energy Products 2195 Route 49 West Monroe, NY 10950	Old propane tanks
WM Biers Inc. 100 Port Road Albany, NY 12202	Wood waste: pallet, Construction wood, brush, leaves, grass, logs, stumps. Mixed aggregate through BBC recycling division concrete, stone, soil, bricks, glass or ceramic.



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**TABLE 4**  
**SWMP Modification**  
**Revised Implementation Schedule**

Year	Activity	Responsible Party	Deliverable or Program Metric	Reuse and Recycling Goals
Third Quarter 2008	<p>Enhance education and enforcement to increase reduction and recycling.</p> <ul style="list-style-type: none"> <li>City of Albany sends letters to all member municipalities to expand source separation ordinances to cover all sectors, including CII.</li> <li>City of Albany establishes new permit requirements for commercial haulers using landfill, requiring these haulers to provide recycling services to their commercial customers. These requirements will go into effect on January 1, 2009.</li> <li>City of Albany develops commercial recyclable marketing brochure.</li> <li>City conducts random commercial waste inspections at Rapp Road Landfill to determine presence of excess recyclables. Municipalities will follow-up with enforcement efforts as necessary.</li> </ul>	City of Albany	<p>Letters to the municipalities</p> <p>Commercial Hauler permits</p> <p>Commercial recycling brochure</p> <p>Number of inspections conducted</p>	
	<p>Enhanced Opportunities for Organic Waste Recycling.</p> <ul style="list-style-type: none"> <li>The City begins exploring accepting SSOW for composting at its Connors Boulevard Yard Waste Composting Facility.</li> </ul>	City of Albany	Status of SSOW composting	
	City of Albany drafts and distributes IMA to member municipalities to establish Planning Unit Recycling Coordinator (PURC) and other terms for ongoing participation in the Planning Unit.	City of Albany	The IMA document	
	Municipalities to publicize and operate exiting waste reduction and recycling programs.	Each Member Municipality	Publications, brochures, website information	
Fourth Quarter 2008	<p>Commence Preparation of New SWMP</p> <ul style="list-style-type: none"> <li>SEQR Scoping and establishment of Working Group or Advisory Committee of representative stakeholders</li> <li>Define existing facilities and conditions</li> <li>Limited field study of waste composition study</li> </ul>	City of Albany	Draft reports for inclusion in New SWMP	
	<ul style="list-style-type: none"> <li>City of Albany extends current contract or issues RFP or solicitation for bids for a recyclables processing facility to accept recyclables collected by the City and member municipalities. It is anticipated that this process will include expanded plastics recovery to include #1 - #7.</li> <li>Award contract for recycling processing services for the City of Albany and member municipalities.</li> </ul>	City of Albany	Contract extension or solicitation documents	

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Year	Activity	Responsible Party	Deliverable or Program Metric	Reuse and Recycling Goals
	<p>Enhance education and enforcement to increase reduction and recycling by all sectors.</p> <ul style="list-style-type: none"> <li>• City conducts random commercial waste inspections at Rapp Road Landfill to determine presence of excess recyclables. Municipalities will follow-up with enforcement efforts as necessary.</li> <li>• The DGS will recommend that the following changes to the City Website:               <ul style="list-style-type: none"> <li>○ add a recycling program information tab on the home page</li> <li>○ add information about recycling program not covered by the DGS collection, including :                   <ul style="list-style-type: none"> <li>▪ commercial and multifamily residential recycling program requirements</li> <li>▪ Who to call if landlord is not providing required recycling services.</li> </ul> </li> <li>○ General information about waste reduction and recycling to promote awareness.</li> <li>○ Link to recycling website that will be established for the planning unit.</li> </ul> </li> </ul>	<p>City of Albany</p> <p>City of Albany</p>	<p>Number of inspections conducted.</p> <p>Website enhancements as noted.</p>	
	<p>Enhanced Opportunities for Organic Waste Recycling.</p> <ul style="list-style-type: none"> <li>• City of Albany will form a planning unit wide task force including institutional food waste generators like New York State OGS and SUNY Albany.</li> </ul>	<p>City of Albany</p>	<p>Status of the task force.</p>	
	<p>Municipalities execute the IMA and implement the following measures:</p> <ul style="list-style-type: none"> <li>• Adopt expanded source separation laws, if necessary.</li> <li>• City of Albany advertises and hires PURC on behalf of the member municipalities.</li> <li>• Municipalities provide City with copy of revised source separation law by November 1, 2008.</li> <li>• Municipalities to appoint local recycling coordinator or liaisons.</li> </ul>	<p>Each Member Municipality</p>	<p>Executed IMAs</p>	
	<p>Municipalities publicize and operate exiting waste reduction and recycling programs.</p>	<p>Each Member Municipality</p>	<p>Update publications, brochures, websites</p>	
<p><b>2008</b></p>	<p><b>Year End Recycling Goals</b></p>		<p><b>34% Overall</b>  <b>16.5% Municipal MSW</b>  <b>35% Municipal MSW w/ yard waste</b>  <b>8% Commercial MSW</b></p>	

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Year	Activity	Responsible Party	Deliverable or Program Metric	Reuse and Recycling Goals
First Quarter 2009	<p>Enhance education and enforcement to increase reduction and recycling in all sectors.</p> <ul style="list-style-type: none"> <li>• Commercial property owners will be notified by letter of source separation requirements of the City of Albany.</li> <li>• City of Albany will implement and enforce new permit requirements for commercial haulers using landfill, requiring these haulers to provide recycling services to their customers. These requirements go into effect on January 1, 2009.</li> <li>• Commercial haulers to implement recycling requirements.</li> <li>• City continues to conduct random commercial waste inspections at Rapp Road Landfill to determine presence of excess recyclables. PURC to follow-up with educational efforts and municipalities will follow-up with enforcement as necessary.</li> <li>• City will supply blue recycling bins and instructions to all public and private schools in the City.</li> </ul>	City of Albany, Commercial Haulers, PURC, and each member municipality, as noted.	<p>Letter</p> <p>Number of Commercial Hauler permits</p> <p>Number of commercial recycling brochures distributed.</p> <p>Number of inspections conducted and results.</p> <p>Blue Bins for schools</p>	
	City of Albany DGS will conduct a set out rate analysis to benchmark its residential recycling collection program and identify specific areas for improvement.	City of Albany	Final Report	
	<p>Enhance Backyard Composting, Organic Waste Recycling and Yard Waste Management.</p> <ul style="list-style-type: none"> <li>• PURC to develop and distribute promotional materials to encourage backyard composting.</li> <li>• The City of Albany will finalize permit amendments at yard waste facility in advance of introduction of SSOW at their Connors Boulevard Yard Waste Compost facility on a trial basis to begin the second quarter of 2009.</li> </ul>	PURC  City of Albany	<p>Number of brochures developed and distributed.</p> <p>Application for Permit Modification</p>	
	<p>Miscellaneous Recycling Program Elements</p> <ul style="list-style-type: none"> <li>• PURC to promote waste reduction and recycling program growth throughout the planning unit including the following: <ul style="list-style-type: none"> <li>○ Monthly meetings with local recycling coordinators</li> <li>○ Assess local programs</li> <li>○ Develop data on local and CII program achievement and prepare annual recycling reports for the Planning Unit.</li> <li>○ Develop multi-municipal recycling program promotion materials, such as waste reduction and backyard composting.</li> </ul> </li> <li>• Fully involve PURC in planning unit wide organic recycling task force.</li> <li>• Develop recycling program promotional material directed specifically at schools and distribute to all local recycling coordinators.</li> </ul>	PURC	<p>Monthly meetings</p> <p>Number of programs assessed.</p> <p>Number of brochures / promotional materials distributed.</p>	

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Year	Activity	Responsible Party	Deliverable or Program Metric	Reuse and Recycling Goals
	<ul style="list-style-type: none"> <li>• PURC will review all available information concerning PAYT programs in an effort to become an educational resource for all member municipalities.</li> <li>• City of Albany will begin to actively evaluate the PAYT options available within the City as well as on a Planning Unit Wide basis by hiring a specialized PAYT consultant.</li> <li>• City of Albany begins planning a procurement process for public space recycling receptacles at all locations where public space waste collection receptacles are located.</li> </ul>			
	<p>Final Expansion of Rapp Road Landfill</p> <ul style="list-style-type: none"> <li>• DEC permit decision</li> <li>• If approved, construction of Eastern Expansion begins</li> </ul>	NYSDEC and City of Albany	Deliverables will be determined by permit conditions.	
	<p>Member municipalities will:</p> <ul style="list-style-type: none"> <li>• Review existing promotional material with the PURC and publicize, and operate local recycling programs and enforce local recycling laws.</li> <li>• Work with the PURC to develop and implement program improvements to meet reuse and recycling goals, as necessary. Program improvements could include, but are not limited to:               <ul style="list-style-type: none"> <li>○ Additional materials collected and recovered through the use of new recycling facility services contract;</li> <li>○ Increasing collection efficiency or frequency;</li> <li>○ Creating new incentives for waste reduction and recycling.</li> </ul> </li> </ul>	Each Member Municipality	<p>Update publications, brochures website</p> <p>Tonnage recovered for recycling</p> <p>Program improvements considered and/or implemented.</p>	
Second Quarter 2009	<p>Enhance education and enforcement to increase reduction and recycling in all sectors.</p> <ul style="list-style-type: none"> <li>• City follows up commercial property owners' notification letter with additional survey regarding existing recycling to supplement data received as part of initial SWMP Modification survey to help benchmark current activities.</li> <li>• City of Albany will continue to implement and enforce new permit requirements for commercial haulers using landfill, requiring these haulers to provide recycling services to their customers.</li> <li>• Commercial haulers will implement recycling requirements and report recycling program results to the City. City to provide these results to the PURC, who will monitor compliance and follow-up as necessary to maintain program improvements.</li> <li>• City of Albany and the PURC will continue to distribute commercial recyclable marketing brochure and maintain it on its website.</li> <li>• City of Albany and PURC will assemble and review commercial property survey information received and</li> </ul>	City of Albany, Commercial Haulers, PURC, and each member municipality, as noted.	<p>Number of permitted commercial haulers.</p> <p>Number of haulers reporting program results.</p> <p>Recycled tonnage reported by commercial haulers.</p> <p>Number of brochures distributed</p>	

## Capital Region SWMP Modification

September 2008

Year	Activity	Responsible Party	Deliverable or Program Metric	Reuse and Recycling Goals
	<p>compare with commercial hauler report for evaluation annually and follow-up with commercial property owners and each member municipality.</p> <ul style="list-style-type: none"> <li>• City will continue to conduct random commercial waste inspections at Rapp Road Landfill to determine presence of excess recyclables. PURC will follow-up with educational efforts and municipalities will follow-up with enforcement as necessary.</li> <li>• PURC will establish a regional recycling website and for posting information about municipal waste reduction and recycling programs in the planning unit and the Planning Unit as a whole with links to each municipal website. The content of the website will be reviewed annually and updated as necessary.</li> </ul>		<p>Summary report</p> <p>Number of inspections conducted.</p> <p>Recycling website</p>	
	<p>Enhance Backyard Composting, Organic Waste Recycling and Yard Waste Management.</p> <ul style="list-style-type: none"> <li>• PURC continue to distribute promotional materials, developed during the first quarter of 2009, to encourage backyard composting.</li> <li>• PURC will work with the NYSDEC Regional Solid and Hazardous Materials Engineer who will provide periodic backyard composting demonstrations at various municipalities throughout the planning unit.</li> <li>• PURC will promote inter-municipal cooperation and shared use of existing yard waste composting facilities.</li> <li>• Subject to permit modification, City to begin accepting Source Separated Organic Waste at the Connors Road Yard Waste Facility on a pilot basis.</li> <li>• Planning unit wide organic waste recycling task force makes recommendations to be included in the New SWMP of ways to improve and fully incorporate SSOW recycling in the New SWMP on a Planning Unit wide basis.</li> </ul>	<p>PURC</p> <p>City of Albany</p> <p>Organic Waste Task Force</p>	<p>Number of brochures distributed</p> <p>Number of composting demonstrations made.</p>	
	<p>Continue Preparation of New SWMP</p> <ul style="list-style-type: none"> <li>• Evaluate Alternative technologies, including emerging technologies. This evaluation will include both proven and emerging technologies for solid waste management, including a facility to process and recover source separated organic waste. Emerging technologies will include thermal gasification, aerobic and anaerobic digestion, among others. Evaluation criteria will include cost and financial risk, implementability, effectiveness, and environmental impacts, and will be developed with input from an advisory group of stakeholders.</li> </ul>	<p>City of Albany</p>	<p>Draft report sections for inclusion in New SWMP.</p>	

## Capital Region SWMP Modification

September 2008

Year	Activity	Responsible Party	Deliverable or Program Metric	Reuse and Recycling Goals
	<p>Member municipalities will:</p> <ul style="list-style-type: none"> <li>• Continue to work with the PURC and enhance publications, brochures and websites used for education and promotion</li> <li>• Operate local recycling programs and enforce local recycling laws.</li> <li>• Work with the PURC to develop and implement program improvements to meet reuse and recycling goals, as necessary.</li> <li>• Work with the PURC to develop and implement program evaluations for each school district to ensure compliance with local recycling laws.</li> </ul>	Each Member Municipality	<p>Tonnage recovered for recycling</p> <p>Program improvements considered and/or implemented</p>	
	<p>Final Expansion of Rapp Road Landfill</p> <ul style="list-style-type: none"> <li>• If approved, construction continues</li> </ul>	City of Albany	Deliverables will be determined by permit conditions.	
Third Quarter 2009	<p>Enhance education and enforcement to increase reduction and recycling for all sectors.</p> <ul style="list-style-type: none"> <li>• City of Albany will continue to enforce the permit requirements for commercial haulers using landfill, requiring these haulers to provide recycling services to their customers.</li> <li>• Commercial haulers will continue to implement recycling requirements and report recycling program results to the City. City to provide these results to the PURC, who will monitor compliance and follow-up as necessary to maintain program improvements.</li> <li>• The City of Albany and PURC will continue analysis of commercial property survey results and information received from commercial haulers through reporting program and review with each recycling coordinator.</li> <li>• City of Albany and the PURC will update as necessary and continue to distribute commercial recyclable marketing brochure and maintain it on its website.</li> <li>• City continues to conduct random commercial waste inspections at Rapp Road Landfill to determine presence of excess recyclables. PURC to follow-up with educational efforts and municipalities will follow-up with enforcement as necessary.</li> </ul>	City of Albany, Commercial Haulers, PURC, and each member municipality, as noted.	<p>Number of permitted commercial haulers.</p> <p>Number of haulers reporting program results.</p> <p>Recycled tonnage reported by commercial haulers.</p> <p>Number of brochures distributed</p> <p>Number of inspections conducted.</p>	
	<p>Enhance Backyard Composting, Organic Waste and Yard Waste Management.</p> <ul style="list-style-type: none"> <li>• PURC to continue to distribute promotional materials to encourage backyard composting.</li> <li>• PURC to continue work with the NYSDEC Regional Solid and Hazardous Materials Engineer who will provide periodic backyard composting demonstrations at various municipalities throughout the planning unit.</li> </ul>	PURC	<p>Number of brochures distributed</p> <p>Number of composting demonstrations made.</p>	

## Capital Region SWMP Modification

September 2008

Year	Activity	Responsible Party	Deliverable or Program Metric	Reuse and Recycling Goals
	<ul style="list-style-type: none"> <li>• PURC to enhance and promote inter-municipal cooperation and shared use of existing yard waste composting facilities by working to match municipalities who have not designed yard waste compost programs to the appropriate existing yard waste facilities</li> <li>• City of Albany evaluates the success of SSOW program at the Connors Boulevard facility to determine the feasibility of a full-scale operation.</li> <li>• PURC works with other member municipalities to initiate pilot programs for the acceptance of SSOW at their yard waste facilities.</li> </ul>			
	<p>Miscellaneous Recycling Program Elements</p> <ul style="list-style-type: none"> <li>• PURC to promote waste reduction and recycling program growth throughout the planning unit including the following:               <ul style="list-style-type: none"> <li>○ Monthly meetings with local recycling coordinators</li> <li>○ Assess local programs with local recycling coordinators</li> <li>○ Continue with the development and implementation of local assistance plans to improve program performance</li> <li>○ Develop and maintain data on local and CII program achievement and prepare annual recycling reports for the Planning Unit.</li> <li>○ Assist with the identification/development of current or future waste stream components such as the expansion of e-waste recycling and additional organic waste processing opportunities.</li> <li>○ Revise and enhance the multi-municipal recycling program promotion materials, such as waste reduction and backyard composting and ensure distribution to all member municipalities.</li> <li>○ Incorporate specific action actions as part of the local assistance plans with each local recycling coordinator to ensure recycling is in accordance with local laws in each school district.</li> <li>○ Continue with routine search to identify and pursue grants and other funding opportunities on behalf of the planning unit and assist member municipalities with same.</li> <li>○ Provide update of PAYT information to each municipality for adoption of individual PAYT programs.</li> <li>○ Discuss public space recycling needs and requirements with all Planning Unit members.</li> </ul> </li> </ul>	PURC	<p>Number of programs assessed.</p> <p>Monthly meetings</p> <p>Number of brochures or other promotional materials developed and distributed.</p> <p>Number and dollar value of grant applications prepared.</p>	
	<p>Continue Preparation of New SWMP</p> <ul style="list-style-type: none"> <li>• Evaluate institutional alternatives including expansion of Planning Unit, establishment of an Authority as an implementing agency, and waste flow control.</li> </ul>	City of Albany	Draft reports for inclusion in the New SWMP	

## Capital Region SWMP Modification

September 2008

Year	Activity	Responsible Party	Deliverable or Program Metric	Reuse and Recycling Goals
	<ul style="list-style-type: none"> <li>• Evaluate the PAYT throughout the Planning Unit.</li> <li>• Evaluate alternative sites, including development potential for Site C-2.</li> <li>• Selection of preferred alternative</li> <li>• Begin preparation and issuance of New SWMP and DGEIS</li> </ul>			
	Final Expansion of Rapp Road Landfill <ul style="list-style-type: none"> <li>• If approved, construction continues</li> </ul>	City of Albany	Deliverables will be determined by permit conditions.	
	Member municipalities will: <ul style="list-style-type: none"> <li>• Continue to publicize, and operate local recycling programs and initiate planning unit wide coordinated enhanced enforcement of local recycling laws.</li> <li>• Work with the PURC to develop and implement program improvements and opportunities throughout the Planning Unit to meet reuse and recycling goals, as necessary.</li> <li>• Work with the PURC to enhance their deliveries of information and direction to each school district within their municipalities to ensure compliance with local law.</li> </ul>	Each Member Municipality	Tonnage recovered for recycling  Program improvements considered and/or implemented	
Fourth Quarter 2009	Enhance education and enforcement to increase reduction and recycling in all sectors. <ul style="list-style-type: none"> <li>• City of Albany will enforce the new permit requirements for commercial haulers using landfill, requiring these haulers to provide recycling services to their commercial customers. A short-term, enhanced enforcement effort will be undertaken during this quarter.</li> <li>• Commercial haulers to implement recycling requirements and report recycling program results to the City. City to provide these results to the PURC, who will monitor compliance and follow-up as necessary to maintain program improvements.</li> <li>• City of Albany and the PURC will continue to distribute commercial recyclable marketing brochure and maintain it on its website.</li> <li>• As part of the City's enhanced enforcement pilot the City will conduct 2, one week intensive commercial waste inspections at Rapp Road Landfill to determine presence of excess recyclables. PURC to follow-up with educational efforts and municipalities will follow-up with enforcement as necessary.</li> <li>• PURC will finalize the regional recycling website ensuring it is linked to all the municipal member websites and all information is coordinated. The content of the website will be reviewed annually and updated as necessary.</li> </ul>	City of Albany, Commercial Haulers, PURC, and each member municipality, as noted.	Number of permitted commercial haulers.  Number of haulers reporting program results.  Recycled tonnage reported by commercial haulers.  Number of brochures distributed  Number of inspections conducted.	
	Enhance Backyard Composting Organic Waste Recycling and Yard Waste Management.	PURC		

## Capital Region SWMP Modification

September 2008

Year	Activity	Responsible Party	Deliverable or Program Metric	Reuse and Recycling Goals
	<ul style="list-style-type: none"> <li>• PURC will continue to distribute promotional materials to encourage backyard composting.</li> <li>• PURC to continue active involvement in inter-municipal cooperation agreements and shared use of existing yard waste composting facilities with the goal to have all yard waste which is not backyard composted to have a facility to which it can be brought for composting within the Planning Unit.</li> <li>• Expand acceptance of SSOW at existing yard waste facilities within the Planning Unit, as practicable.</li> </ul>		<p>Number of brochures distributed</p> <p>Number of composting demonstrations made.</p>	
	<p>Miscellaneous Recycling Program Elements</p> <ul style="list-style-type: none"> <li>• PURC to promote waste reduction and recycling program growth throughout the planning unit including the following:               <ul style="list-style-type: none"> <li>○ Monthly meetings with local recycling coordinators</li> <li>○ Assess local program performance and opportunities with local recycling coordinators.</li> <li>○ Finalize development and implementation of local assistance plans to improve program performance with each member municipality.</li> <li>○ Develop and maintain data on local and CII program achievement.</li> <li>○ Assist with the identification/development of current or future waste stream components.</li> <li>○ Distribute multi-municipal recycling program promotion materials, such as waste reduction and backyard composting.</li> <li>○ Ensure all schools districts recycling programs have been evaluated and addressed by each local recycling coordinator to ensure compliance with local recycling laws.</li> <li>○ Identify and pursue grants and other funding opportunities on behalf of the planning unit and assist member municipalities with same.</li> <li>○ PURC continues to work with Planning Unit member municipalities on public space recycling requirements.</li> </ul> </li> <li>• City of Albany revises ordinances and permit processes for all public space activities within the City to ensure public space recycling is required and carried out.</li> </ul>	<p>PURC</p> <p>City of Albany</p>	<p>Number of programs assessed.</p> <p>Monthly meetings</p> <p>Number of brochures or other promotional materials developed and distributed.</p> <p>Number and dollar value of grant applications made</p> <p>Revised Ordinance</p>	
	<p>Continue Preparation of New SWMP</p> <ul style="list-style-type: none"> <li>• Preparation and issuance of New SWMP and DGEIS</li> </ul>	<p>City of Albany</p>		
	<p>Final Expansion of Rapp Road Landfill</p> <ul style="list-style-type: none"> <li>• If approved, construction continues until completed</li> <li>• Commence operations</li> </ul>	<p>City of Albany</p>	<p>Deliverables will be determined by permit conditions.</p>	

## Capital Region SWMP Modification

September 2008

Year	Activity	Responsible Party	Deliverable or Program Metric	Reuse and Recycling Goals
	Member municipalities will: <ul style="list-style-type: none"> <li>• Continue to publicize, and operate local recycling programs and enforce local recycling laws.</li> <li>• Fully implement the local assistance plans developed by the PURC and local recycling coordinators in each municipality.</li> <li>• Work with the PURC to develop and implement program improvements to meet reuse and recycling goals, as necessary.</li> <li>• Finalize with all school districts within their jurisdiction that recycling programs are operational and consistent with local recycling laws.</li> </ul>	Each Member Municipality	Tonnage recovered for recycling  Program improvements considered and/or implemented	
<b>2009</b>	<b>Year End Recycling Goals</b>		<b>40% Overall</b> <b>20.5% Municipal MSW</b> <b>38.5% Municipal MSW w/ yard waste</b> <b>30% Commercial MSW</b>	
2010	Continue enhanced education and enforcement to increase reduction and recycling in all sectors. Ongoing modifications and program improvements are expected to occur to achieve the reuse and recycling goals. <ul style="list-style-type: none"> <li>• City of Albany will continue to implement and enforce permit requirements for commercial haulers using landfill and requiring these haulers to provide recycling services to their commercial customers.</li> <li>• Commercial haulers will continue to implement recycling requirements and report recycling program results to the City. City will provide these results to the PURC, who will monitor compliance and follow-up as necessary to maintain program improvements.</li> <li>• City of Albany and the PURC will continue to distribute commercial recyclable marketing brochure and maintain it on its website.</li> <li>• City will continue to conduct random commercial waste inspections at Rapp Road Landfill to determine presence of excess recyclables. PURC will follow-up with educational efforts and municipalities will follow-up with enforcement as necessary.</li> <li>• PURC will maintain the content of the regional recycling website.</li> </ul>	City of Albany, Commercial Haulers, PURC, and each member municipality, as noted.	Number of permitted commercial haulers.  Number of haulers reporting program results.  Recycled tonnage reported by commercial haulers.  Number of brochures distributed  Number of inspections conducted.	
	Continue to Enhance Backyard Composting Organic Waste Recycling and Yard Waste Management. <ul style="list-style-type: none"> <li>• PURC to continue the distribution of promotional materials to encourage backyard composting.</li> <li>• PURC to work with the NYSDEC Regional Solid and Hazardous Materials Engineer who will provide periodic</li> </ul>	PURC	Number of brochures distributed  Number of composting	

# Capital Region SWMP Modification

September 2008

Year	Activity	Responsible Party	Deliverable or Program Metric	Reuse and Recycling Goals
	<p>backyard composting demonstrations at the various municipal sites throughout the planning unit.</p> <ul style="list-style-type: none"> <li>• PURC continues to improve upon the inter-municipal cooperation and shared use of existing yard waste composting facilities</li> <li>• Continue to expand acceptance of SSOW at facilities targeting residential generators, where feasible.</li> </ul>		<p>demonstrations made.</p> <p>Status of shared facilities</p>	
	<p>Continue Miscellaneous Recycling Program Elements</p> <ul style="list-style-type: none"> <li>• PURC to promote waste reduction and recycling program growth throughout the planning unit including the following:               <ul style="list-style-type: none"> <li>○ Quarterly meetings with local recycling coordinators</li> <li>○ Continue to assess local program effectiveness. Develop and implement revisions to the initial local assistance plans to improve program performance, as needed.</li> <li>○ Develop and maintain data on local and CII program achievement and prepare annual recycling reports for the Planning Unit.</li> <li>○ Complete benchmarking of commercial sector recycling through survey data and hauler reporting for baseline data for New SWMP analysis.</li> <li>○ Assist with the identification/development of current or future waste stream components.</li> <li>○ Distribute multi-municipal recycling program promotion materials, such as waste reduction and backyard composting.</li> <li>○ Identify and pursue grants and other funding opportunities on behalf of the planning unit and assist member municipalities with same.</li> </ul> </li> <li>• City of Albany institutes PAYT program, if determined to be feasible and acceptable.               <ul style="list-style-type: none"> <li>○ PURC continues to develop PAYT programs with local recycling coordinators based on the City of Albany efforts, to be incorporated into their local assistance plans</li> </ul> </li> </ul>	<p>PURC</p>	<p>Number of programs assessed.</p> <p>Quarterly meetings</p> <p>Number of brochures or other promotional materials developed and distributed.</p>	
	<p>Member municipalities will:</p> <ul style="list-style-type: none"> <li>• continue to publicize, and operate local recycling programs and enforce local recycling laws.</li> <li>• Work with the PURC to revise local assistance plans and implement program improvements to meet reuse and recycling goals, as necessary.</li> <li>• Ensure full compliance with recycling requirements for all schools within their jurisdictions.</li> <li>• Begin implementing PAYT programs, if feasible and otherwise practical.</li> </ul>	<p>Each Member Municipality</p>	<p>Tonnage recovered for recycling</p> <p>Program improvements considered and/or implemented</p>	

## Capital Region SWMP Modification

September 2008

Year	Activity	Responsible Party	Deliverable or Program Metric	Reuse and Recycling Goals
	<ul style="list-style-type: none"> <li>Adopt public space recycling requirements similar to those adopted by the City of Albany.</li> </ul>			
	Review and comment of the New SWMP <ul style="list-style-type: none"> <li>SEQR review of New SWMP and DGEIS</li> <li>Review and response to public comment</li> <li>Prepare and issue Final New SWMP and FGEIS</li> <li>Lead Agency Finding Statement on New SWMP and FGEIS</li> <li>Final DEC review of New SWMP.</li> </ul>	City of Albany	New SWMP and DGEIS  Final New SWMP and FSEIS	
<b>2010</b>	<b>Year End Recycling Goals</b>		<b>45% Overall</b> <b>25.5% Municipal MSW</b> <b>45% Municipal MSW w/ yard waste</b> <b>46% Commercial MSW</b>	
2011	Continue to enhance education and enforcement to increase reduction and recycling in all sectors. <ul style="list-style-type: none"> <li>City of Albany will continue to implement and enforce permit requirements for commercial haulers using landfill and requiring these haulers to provide recycling services to their commercial customers.</li> <li>Commercial haulers will continue to implement recycling requirements and report recycling program results to the City. City will provide these results to the PURC, who will monitor compliance and follow-up as necessary to maintain program improvements.</li> <li>City of Albany and the PURC will continue to distribute commercial recyclable marketing brochure and maintain it on its website.</li> <li>City will continue to conduct random commercial waste inspections at Rapp Road Landfill to determine presence of excess recyclables. PURC will follow-up with educational efforts and municipalities will follow-up with enforcement as necessary.</li> <li>PURC will maintain the content of the regional recycling website.</li> </ul>	City of Albany, Commercial Haulers, PURC, and each member municipality, as noted previously.	Number of permitted commercial hauler  Number of haulers reporting program results. Recycled tonnage reported by commercial hauler  Number of brochures distributed  Number of inspections conducted.	
2011	<ul style="list-style-type: none"> <li>Continue to Enhance Backyard Composting Organic Waste Recycling and Yard Waste Management, as noted above.</li> <li>PURC to continue the distribution of promotional materials to encourage backyard composting.</li> <li>PURC to work with the NYSDEC Regional Solid and Hazardous Materials Engineer who will provide periodic backyard composting demonstrations at the various municipal sites throughout the planning unit.</li> </ul>	PURC	Number of brochures distributed  Number of composting demonstrations made.  Status of shared	

## Capital Region SWMP Modification

September 2008

Year	Activity	Responsible Party	Deliverable or Program Metric	Reuse and Recycling Goals
	<ul style="list-style-type: none"> <li>PURC continues to improve upon the inter-municipal cooperation and shared use of existing yard waste composting facilities</li> <li>Continue expansion acceptance of SSOW at facilities targeting residential generators, if feasible.</li> </ul>		facilities Number of SSOW facilities	
	<ul style="list-style-type: none"> <li>Continue Miscellaneous Recycling Program Elements, as noted above.</li> <li>PURC to promote waste reduction and recycling program growth throughout the planning unit including the following:                             <ul style="list-style-type: none"> <li>Quarterly meetings with local recycling coordinators</li> <li>Continue to assess local program effectiveness. Develop and implement revisions to the initial local assistance plans to improve program performance, as needed.</li> <li>Develop and maintain data on local and CII program achievement and prepare annual recycling reports for the Planning Unit.</li> <li>Assist with the identification/development of current or future waste stream components.</li> <li>Distribute multi-municipal recycling program promotion materials, such as waste reduction and backyard composting.</li> <li>Continue to routinely pursue grants and other funding opportunities on behalf of the planning unit and assist member municipalities with same.</li> </ul> </li> </ul>	PURC	Number of programs assessed.  Quarterly meetings  Number of brochures or other promotional materials developed and distributed.	
	Member municipalities will: <ul style="list-style-type: none"> <li>Continue to publicize, and operate local recycling programs and enforce local recycling laws.</li> <li>Work with the PURC to develop and implement program improvements to meet reuse and recycling goals, as necessary.</li> <li>Ensure full compliance with recycling requirements for all schools within their jurisdictions.</li> </ul>			
	Review and comment of the New SWMP <ul style="list-style-type: none"> <li>DEC approval of New SWMP</li> </ul>	NYSDEC	No deliverable	
	Commence full-scale Implementation of New SWMP upon DEC approval	Each Member Municipality	To be determined	
<b>2011</b>	<b>Year End Recycling Goals</b>		<b>47% Overall</b> <b>29% Municipal MSW</b> <b>49% Municipal MSW w/ yard waste</b> <b>50.5% Commercial MSW</b>	



# Capital Region SWMP Modification

September 2008

**Table 5  
SWMP Modification  
C&D Generation and Recycling**

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<b>Estimated C&amp;D Recycling</b>	
WM Biers <sup>1</sup>	3,396
Watervliet HMA Plant <sup>1</sup>	3,762
King Road Materials <sup>1</sup>	57,436
Calahan Industries Ravena <sup>1</sup>	19,746
Other C&D Recycled <sup>2</sup>	158
<b>Subtotal C&amp;D Recycling 2007</b>	<b>84,498</b>
Estimated C&D Generation <sup>3</sup>	148,100
Estimated C&D Recovery and Recycling Rate	57%
Albany LF ADCM ( Processed C&D) <sup>4</sup>	4,077
Albany LF ADCM (Aggregate Concrete and Glass) <sup>4</sup>	7,556

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Notes:

1) Based on C&D tonnage recycled through this facility, as reported in 2007 Annual Report.

Based upon 65% of Albany County and 5% of Rensselaer County allocated to the planning unit.

2) C&D recycling reported by Albany Medical Center for 2007

3) Based on C&D Generation estimate presented in Attachment 5, Table 1

4) Processed C&D, aggregate concrete and glass used as ADCM as per 2007 Annual Report to DEC. DEC has determined that this material cannot be counted as recyclable tonnage for purposes of this SWMP Modification.



# **Albany SWMP Modification**

## **Attachment 1**

### **Results of Municipal Recycling and Collection Practices Survey**

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As part of the SWMP modification, Clough Harbour & Associates, LLP (CHA), in February 2008 CHA surveyed municipalities involved in the Albany Area Planning Unit, formerly referred to as ANSWERS, on their solid waste and recycling collection practices. Thirteen involved municipalities were surveyed by telephone including Albany, Altamont, Berne, Bethlehem, Green Island, Guilderland, Knox, New Scotland, Rensselaer, Rensselaerville, Voorheesville, Watervliet and Westerlo.

The survey focused on municipal solid waste and recycling collection practices, but included disposal methods, quantity and type of solid waste, and recycling programs and composting programs. As part of the survey, municipalities within the Planning Unit were asked about the extent of opportunities provided for residents to recycle electronics or participate in a HHW day. A copy of the survey form is included at the end of this Attachment 1.

This Attachment 1 presents a brief synopsis of each community's solid waste management and recycling practices, based on the results of this survey.

#### **ALBANY-**

##### *Solid Waste Management Summary*

The City of Albany provides weekly curbside collection of solid waste and designated recyclables to residents living in single family units, and multi-family buildings with up to four units. The city provides residents with a recycling bin and provides both trash and recycling pickup on a weekly basis. All other individuals not covered under these guidelines are required to contract private collection services to pickup waste. Private haulers serving this municipality include Allied Waste Services, and Waste Management Inc. (WMI).

Recyclables accepted by the city include, glass, plastics #1 and #2, and metal which can be placed together in the bin along with mixed paper. Mixed paper, which can include almost all types of paper (such as newspaper, magazines, and phone books), must be tied, placed in a paper bag or placed loosely inside of the recycling bin on top of the loose recyclables. The City also accepts cardboard bundled in lengths no larger than 3' x 2' and construction debris which must be neatly boxed or bundled for pickup. Curbside pickup for large items such as appliances/white goods, tires and metals can be picked up curbside but require a 24 hour advance notice to the City of Albany Department of General Services (DGS).

Recycling collection facilities within the City of Albany include Sierra Fibers, located at 877 South Pearl Street, Albany; Hudson Metal, located at 11 North Ferry Street, Albany; and Metro Waste Paper Recovery Inc., located at 71 Fuller Road #6, Albany.

In 2007, the DGS collected approximately 2,789 tons of mixed paper and 912 tons of commingled glass, metal and plastic containers. Approximately 30,759 tons of refuse was collected by DGS from its residential waste collection program.

The City also provides the opportunity for residence to participate in a Neighborhood Spring Cleanup scheduled each year. Residents who meet the guidelines for residential trash pickup are allowed to place extra non hazardous waste items out curbside for pickup on a regularly scheduled collection day announced by the city. In 2007, the DGS collected approximately 311 tons of white goods and 74 tons of tires for recycling.

#### *Local Yard Waste Management Program Summary*

Leaf collection is provided by the city to its residences who receive trash and recyclable pickup. Leaf pickup or yard waste is collected on the residents regularly scheduled trash collection day. Yard waste is defined by the city as “grass, leaves and other yard waste debris”. Collection starts on April first and runs through October or early November, depending on the weather. Material must be placed in biodegradable paper bags for collection and transportation.

Yard waste material is transported to the composting facility at DGS, located at 1 Connors Boulevard, Albany, NY 12204. The facility takes only pure yard waste (brush, branches, leaves and grass clippings) to make compost, woodchips and topsoil. The material is made available to the residents of Albany at either the DGS facility or during scheduled times, or a “help yourself” pick up station 7 days a week. Residents are limited to a maximum of 5 five-gallon buckets per visit. Material is also available to out of town residents at a cost of \$10.00 a cubic yard.

The DGS delivered approximately 8,487 cubic yards of yard waste to the composting facility in 2007. Using a conversion factor of 375 lb/CY, this represents 1,591 tons. Another 1314 tons of yard waste was delivered to the composting facility in 2007 from source other than DGS.

#### *Household Hazardous Waste (HHW) and Electronic Waste*

The DGS offers HHW collection drop off eleven times a year at the City of Albany Rapp Road Landfill. Drop off dates for 2008 occur on Thursdays from April 3<sup>rd</sup> to November 6<sup>th</sup>. Residents must preregister prior to drop off. The program is free, with the exception of a small charge of \$11.00 per computer unit (CPU), and open to only the city of Albany residents. Small businesses which produce less than 32 gallons a month of hazardous waste may also participate in the collection program for a small fee.

On scheduled drop off days, residents of the City of Albany can bring their household hazardous wastes including paint, batteries, antifreeze, asbestos, herbicides, and various household cleaning products to the landfill for proper disposal. The City of Albany website provides a list of additional acceptable and non-acceptable HHW.. ([http://www.albanyny.gov/\\_files/Household%20Hazardous%20Waste%202008.pdf](http://www.albanyny.gov/_files/Household%20Hazardous%20Waste%202008.pdf)).

All electronic waste, including televisions, computers, and stereos, are collected on these scheduled HHW dates.

In 2007 the City HHW program collected 193.11 tons of household hazardous waste, 8.7 tons of electronic waste. In 2007, 12.7 tons of old propane tanks were collected for recycling.

#### *Record Keeping*

The City keeps weight records of the solid waste and recyclable materials it collects and delivers to the landfill and its designated recycling facilities. There are no scales at the City’s yard waste composting facility, so material delivery data is recorded by volume (cubic yards) of truck making the delivery.

### **ALTAMONT-**

All waste management services for the Village of Altamont are handled by the Town of Guilderland. A discussion of Guilderland’s solid waste management strategies is included later in this section.

### **BERNE-**

#### *Solid Waste Management Summary*

The Town of Berne does not offer municipal pickup of trash. Instead, residents and businesses must hire a private hauler or bring their refuse and recyclables to the Berne transfer station; located at 1809 Helderberg Trail, Berne NY 12023. The transfer station is open three days a week, on Monday,

Wednesday and Saturday. Residents must have a permit to use the transfer station which is available through the town clerk's office.

The town offers recycling at the transfer station and accepts newspaper, glass, plastic, tin cans, cardboard, and office paper. The station also accepts four tires per year, per permit and will take appliances at a cost of \$20.00 per item.

Items such as furniture and wood are accepted at the transfer station but not recycled. The town encourages the re-use of scrap wood on their website.

#### *Local Yard Waste Management Program Summary*

Berne offers an annual one day "chip-up" program, and a once a year Christmas tree disposal day. Items such as tree limbs and brush that are brought to the Berne transfer station are turned into mulch, and provided back to the community at no cost. Grass clippings and leaves are not accepted for composting in Berne. Given the rural nature of the Town, it is expected that most of the yard waste generated in Berne is managed by residents on their own property.

#### *Household Hazardous Waste (HHW) and Electronic Waste*

The Town of Berne provides a coupon for its residents to participate in the Town of Bethlehem HHW collection. Additionally, Berne accepts electronics at the transfer station daily which they take for recycling to a facility in Rotterdam NY.

#### *Record Keeping*

In 2006, Berne reported collecting 835.17 tons of waste, 49.16 tons of co-mingled recyclables, 25.23 tons of cardboard, and 67.55 tons of newspaper.

## **BETHLEHEM-**

#### *Solid Waste Management Summary*

The Town of Bethlehem does not provide for curbside collection of solid waste or recyclables. The Town owns and operates a C&D landfill, MSW transfer station and recycling facility for use by its residents. The facilities are located at 136 Rupert Road, in Selkirk NY. Residential and business solid waste and recyclable collection is contracted by private haulers. Commercial waste haulers in the Town of Bethlehem include Allied Waste Systems of North America, LLC (136 Sicker Road, Latham NY), County Waste & Recycling Service, Inc. (PO Box 790 Clifton Park, NY), Cross Brothers (913 River Road Selkirk, NY), McKinney Refuse Service (949 Feura Bush Road, Selkirk), Robert Wright Disposal, Inc. (PO Box 1448 Slingerlands, NY), Waste Management of NY, LLC (8 Binghamton Street #2, Albany NY), and Accurate Disposal, Inc. (Schenectady, NY).

In 2007, the Town recorded the delivery of 2,600 tons of construction and demolition debris to its C&D Landfill, located at the Rupert Road Transfer Station. It has been reported that this C&D landfill will stop accepting waste after the end of the 2008 calendar year.

Residents, businesses and institutions are mandated to recycle newspaper, corrugated cardboard, kraft paper bags (and all non-shiny paper bags), magazines and catalogs, home, office and school paper, glass bottles and jars, plastic bottles, metal cans, and aluminum trays and foil wrap. Commercial haulers providing solid waste collection services are also required to provide for the collection of designated recyclables. Recyclable items delivered to Town recycling facilities are processed at Sierra Fibers, located at 877 South Pearl Street, Albany; Metro Waste Paper Recovery Inc., located at 71 Fuller Road #6, Albany, Bennington Paperboard Co., located on State Route 67 in North Hoosick, and Ash Trading, 77 Broadway, Albany.

In addition to the mandatory items, Bethlehem offers many voluntary recycling programs. Soft cover books are accepted all year at the Rupert Road Transfer Station. A telephone book drop is available at

the Elm Avenue Park N' Ride Lot in February, March, October and November. Clothing and paperboard boxes (single layer cardboard, cereal, cracker and shoe boxes) are collected at the Elm Avenue Park N' Ride all year. Computers and all components are accepted on HHW day (May 5, 2008), and electronics are accepted on September 28 and 29<sup>th</sup> 2008.

Residents are also encouraged to recycle used eyeglasses and sunglasses, and hearing aids to the local Lions Club. A drop box is available at the Town Clerk's Office. A box is also available there for U.S. Flags, license plates, six-pack rings, non-alkaline household batteries and cell phones. These items can also be dropped at the highway garage all year.

Detailed information on the Town's mandated recycling program, voluntary programs and recycling tips are available on the Town's website.

#### *Local Yard Waste Management Program Summary*

The town will pick up yard waste throughout the year if residents leave the material curbside. Bethlehem also offers a spring and fall clean up for residence in April and mid- October. The town uses a vacuum truck to pick up loose leaves, grass, and similar yard waste that is either bagged or piled curbside during these clean-up times. Collected materials are taken to the Composting Facility, located at 1244 Feura Bush Road (Route 32), Selkirk NY. The Town reported collecting 19,803 cubic yards of leaves, 1,390 cubic yards of wood chips and 29,524 cubic yards of yard waste/brush mix for 2007. Combined, this yard waste recycling accounted for approximately 10,838 tons in 2007. The Town of New Scotland reports that it delivers its collected yard waste to composting facilities in Bethlehem and Guilderland.

#### *Household Hazardous Waste (HHW) and Electronic Waste*

This town offers HHW collection day once a year on the first Saturday of May. Materials collected at this event are hazardous waste, and computers and their components. In 2007, 6,081 gallons and 29,738.5 pounds (14.86 tons) of HHW were collected. The Town provides two drop off collection days in the fall for all electronics at the Town Highway Garage, located at 74 Elm Avenue in East Selkirk.

Bethlehem allows local residence and the residence of 5 different communities, including Berne, New Scotland, Voorheesville, and Westerlo to participate in their program.

Electronic waste is collected on an additional day in fall during the Capital District Electronic Collection day a locally sponsored program for communities with in the Capital Region as well as utilizing free collections held by vendors. Residents may also participate in the WNYT Earth Day Electronic and Air Conditioner Collection day that will be held at Taft Furniture in Albany on April 26, 2008

#### *Record Keeping*

The Town of Bethlehem provided the approximate amount of solid waste collected by the following private haulers for 2007, provided in the table below. Solid waste and recyclables collected by other haulers operating in the Town were not reported.

Private Hauler	Solid Waste Collected	Solid Waste Recycled	Solid Waste Disposed
Allied Waste Systems of North America, LLC	1,532.5 tons	288.5 tons	1,245 tons
Robert Wright Disposal, Inc.	10,575 tons	2,185 tons	8,390 tons
Waste Management of NY, LLC	1,275.5 tons	75.5 tons	1,200 tons

In 2007, the Town of Bethlehem reported commercial waste haulers collecting 1,638 tons of newspapers, magazines, phonebooks and catalogues, with an additional 136 tons dropped off at the transfer station; 821 tons of plastics, cans, corrugated cardboard, glass bottles, and folding cardboard, with an additional 47.5 tons dropped off at the station. Additionally, 10 tons of tires, metal and white goods were collected, with an additional 9 tons of metal, 188 tons of tires, and 26 tons of white goods dropped at the station.

Waste Type	Collected Curbside	Dropped at Station	Total
Newspaper, magazines, catalogues, junk mail	1,638 tons	136 tons	1774 tons
Plastic, glass bottles/jars, cans, office paper	821 tons	47.5 tons	868.5 tons
Cardboard, cereal boxes & office paper	N/A	86 tons	86 tons
Metal, Tires, white goods	10 tons	9 tons, 188 tons, 26 tons	233 tons
Books, (phone and paperback)	N/A		

## **EAST GREENBUSH**

The Town of East Greenbush has not yet responded to the Solid Waste Management Survey.

## **GREEN ISLAND-**

### *Solid Waste Management Summary*

The Village of Green Island provides curbside pick up once per household weekly. Businesses and large apartment complexes are required to contract private haulers.

Newspapers, plastic and glass are collected curbside for recycling. Green Island reported they collect 50 tons of newspapers, 6 to 8 tons of plastic and glass, and 14 yards of yard waste annually.

### *Local Yard Waste Management Program Summary*

The Village of Green Island collects leaf waste, grass clippings, tree and brush debris curbside once a week. Material is then transported to Gallivan Corporation, a landscaping company located at 215 Oakwood Avenue in Troy, for composting. On Saturdays during the month of May, the Department of Public Works (DPW) located at 50 Cohoes Avenue in Green Island, is open for residence to bring in one truckload of debris related to spring cleanup for disposal. All solid waste, including electronics and other household waste, and yard waste is accepted on these spring cleanup days.

### *Household Hazardous Waste (HHW) and Electronic Waste*

The Village of Green Island does not presently provide or participate in a HHW day or electronic waste program. However, they are currently looking at offering both programs. Electronics may be disposed of on designated spring clean up days in May.

## **GUILDERLAND-**

### *Solid Waste Management Summary*

The Town of Guilderland does not provide for curbside collection of municipal solid waste or recyclables. Individual residents and businesses must contract with a private hauler, or personally transport waste to the Town of Guilderland Transfer Station located on French's Mill Road in Guilderland Center. The station is open Tuesday through Saturday. Private haulers used within Guilderland include Allied Waste, Waste Management, Robert Wright Disposal, Pollard Waste and County Waste Service.

Recyclables are collected curbside by the private haulers, or dropped off at the transfer station. Newspapers, magazines, junk mail, catalogs and office paper are comingled, as well as tin, glass and plastic. Cardboard of all kinds is also accepted. The transfer station transports the newspaper, junk mail, cardboard, magazines/catalogues etc., to Metro Waste, located on Fuller Road in Albany for processing. They also take the glass, plastic and tin to Sierra Fiber for processing. Metals and white goods are taken to Iron & Steel, located in Rensselaer.

At its transfer station site, Guilderland reported collecting 284.3 tons of newspaper, magazines, catalogues, junk mail and office paper, 12.93 tons of phone books, 126 tons of plastic, glass, aluminum and tin cans, 85 tons of cardboard, 221 tons of metal, and 7.5 tons of tires.

In 2005 1,402 tons, and in 2006 1,606 tons of construction and demolition debris was collected in Guilderland. During this time, none of the material was reused. At times collected asphalt is recycled and reused. The Town estimated that its transfer station accepted 1,469 tons of C&D for disposal in 2007.

#### *Local Yard Waste Management Program Summary*

The Guilderland Highway Department collects yard waste, including leaves, grass clippings and trees and brush curbside year-round. This material is transported to the town transfer station where it is turned into mulch for free distribution to town residence. Guilderland reported collecting 26,000 cubic yards of waste in 2007.

#### *Household Hazardous Waste (HHW) and Electronic Waste*

The Town offers a HHW day twice a year to its residences. During the HHW day a wide variety of waste is accepted. From 2005 to 2006 Guilderland reported collecting 225 gallons of antifreeze, 4,400 lbs of solid pesticides, 500 lbs of fluorescent bulbs, 15 lbs of mercury waste, 700 lbs of household batteries, 243 pounds of dry cell batteries, 75 lead acid batteries, 665 gallons of oil, 486 gallons of liquid pesticides, 4,280 gallons of oil based paint, 4,420 gallons of other house hold items, and 1,800 lbs of asbestos.

Guilderland also participates in the annual WNYT County wide electronics day held in April where computers, televisions, VCR's computer parts and phones are accepted.

## **KNOX-**

#### *Solid Waste Management Summary*

Residence and businesses in Knox are responsible for transporting their solid waste to the Knox Transfer Station and Recycling Center, located at 155 Street Road, Altamont, NY.

All recyclable material is separated at the Recycling Center/ Transfer Station and placed in separate bins. In 2007, Knox reported collecting 1,112.45 tons of solid waste, 57.67 tons of newspapers, magazines, junk mail, and catalogues, 11.95 tons of plastic, 0.5 tons of cans, 14.73 tons of corrugated cardboard, 70.49 tons of metal, and 1,004 tons of tires.

Construction and demolition debris is not accepted at the Transfer Station, and the individual generators are responsible for making arrangements for the disposal of C&D.

*Local Yard Waste Management Program Summary*

A yard waste recycling or composting program has not yet been established in the Town of Knox. Currently, all yard waste that is collected at their transfer station is burned (typically trees/brush). The Town would like to start composting in the near future in order to provide mulch for use in town parks and other areas throughout the town.

*Household Hazardous Waste (HHW) and Electronic Waste*

The Town does not currently participate in HHW program but will be implementing an electronics waste program in the future.

**NEW SCOTLAND-**

*Solid Waste Management Summary*

The Town of New Scotland contracts with private hauling company Pollard Disposal Service, Inc., to provide curbside collection of residential solid waste and recyclables. Solid waste is picked up once a week, Monday through Friday, depending on the route.

In 2007, New Scotland reported 2,144 tons of solid waste was collected by Pollard Disposal Service. Recyclable materials are collected curbside once a week. Once collected, the hauler is responsible for transporting the materials to various processing facilities. Scrap metal is taken to Rensselaer Iron & Steel (35 Riverside Avenue, Rensselaer), paper to Sierra Fibers, comingled materials are taken to Waste Management, C&D material is transported to Troy Transfer, LLC (799 Burden Avenue, Troy), and tires are taken to JB Car Services. Town of New Scotland also operates a drop-off recycling facility, located on Upper Flat Rock Road. The facility is open all year on Saturdays, as well as on Wednesdays from May to September.

In 2007 New Scotland reported that, 323.62 tons of newspaper, magazines, phonebooks, catalogues, junk mail and cardboard, 155.57 tons of plastic, glass, and cans, 8.79 tons of tires, by Pollard Disposal. Additionally, Robert Wright transported 246.45 tons of C&D material to Troy Transfer, LLC in 2007, from the Town's recycling drop off location. This location accepts C&D from residents only.

*Local Yard Waste Management Program Summary*

The Town Highway Garage collects leaves, grass clippings, and trees and brush during two six week periods in the fall and spring. The Town transports the materials to the processing facilities in Bethlehem and Guilderland (described above). Residents can also transport yard waste to the Highway Garage. Yard waste is chipped and processed into and made available to the residents free of charge.

*Household Hazardous Waste (HHW) and Electronic Waste*

New Scotland participates in the Town of Bethlehem's HHW collection program, as described above. Residents may also participate in the once a year WNYT Earth Day Electronic and Air Conditioner Collection day, held at Taft Furniture in Albany on April 26, 2008.

**RENSSELAER-**

The City of Rensselaer has not yet responded to the solid waste management survey.

**RENSSELAERVILLE-**

*Solid Waste Management Summary*

Residents in the Town of Rensselaerville are responsible for the transport of their solid waste to the Transfer Station located at 87 Barger Road, Medusa NY. The station is open twice a week on Wednesdays and Saturdays from 6 am to 4 pm.

All residences, restaurants, apartment complexes and government buildings are required to separate recyclable materials. Tin cans, glass, plastic, cardboard and paper are accepted at the transfer station comingled. Plastic and glass is processed at Sierra Fibers.

*Local Yard Waste Management Program Summary*

The Town currently has no formal yard waste program. Given the rural nature of the Town, it is expected that most of the yard waste generated in Rensselaerville is managed by residents on their own property.

*Household Hazardous Waste (HHW) and Electronic Waste*

The Town of Rensselaerville transfer station accepts HHW once a year during the first week in May. The station will accept waste from both residences and businesses. Items accepted include: paint, chemicals and other household items. Electronic waste is currently not accepted at the transfer station.

*Record Keeping*

In 2007 the Town reported collecting 4 tons of glass, 105.97 tons of mixed paper, 102.980 tons of mixed metals, 2 tons of car batteries, 18.4 tons of tires, 8 tons of oil and oil filters, and 1.5 tons of antifreeze at its transfer station for recycling. In addition, 6 tons of textiles/toys and 5 tons of TVs, radios, tables and chairs were collected at the transfer station and recycled or reused within the community.

**VOORHEESVILLE-**

*Solid Waste Management Summary*

The Village of Voorheesville contracts with a private waste hauler, Robert Wright, to collect solid waste and recyclables within the Village. Recyclables may also be transported to the Town of New Scotland drop off recycling facility, located on Upper Flat Rock Road.

Recyclables are collected curbside weekly by the private hauler and residents are required to separate newspapers, magazines, junk mail, cardboard and office paper. Plastic, tins, glass and aluminum foil are accepted comingled. Metal, tires, white goods, batteries, oil and textiles are not picked up curbside, but can be dropped off at the Town of New Scotland transfer station. Robert Wright reports collecting approximately 157 tons of mixed paper, 79 tons of corrugated glass and plastic. Fourteen tons of white goods are reportedly collected yearly from Voorheesville residents at the Town's recycling center.

*Local Yard Waste Management Program Summary*

Year-round opportunities exist for the Town of Voorheesville residences to recycle yard waste. The Town provides weekly pick up of leaf waste, grass clippings, tree and shrub debris that is placed curbside in bags, bundled or piled. The yard waste is picked up by vacuum or regular trucks. Material is transported to several different area businesses for use in composting or chipped for local use.

*Household Hazardous Waste (HHW) and Electronic Waste*

Voorheesville participates in the Town of Bethlehem's HHW collection program, as described above. Electronic waste collection is available to the residence through the WNYT Community Day program where computers, televisions and room air conditioners are accepted.

**WATERVLIET-**

The City of Watervliet has not yet responded to the solid waste management survey.

**WESTERLO-**

*Solid Waste Management Summary*

Residents in the Town of Westerlo are required to transport their solid waste and recyclables to the Town's transfer station, or contract with private haulers for waste disposal. The Town of Westerlo Transfer Station is located at 88 Anable Road in Westerlo. The station is open three days a week for collection.

Residents or private haulers are responsible for collecting and depositing recyclables at the transfer station, there is no curb side pick up provided. The Town accepts plastics, glass, aluminum, tin cans and wax cartons co-mingled at the transfer station. Newspapers, magazines, junk mail, corrugated cardboard, office paper, metal, tires, white goods, textiles, and oil are also accepted at the transfer station for recycling.

#### *Local Yard Waste Management Program Summary*

The Town of Westerlo does not currently have a yard waste composting or recycling program. Grass clippings and leaves are not accepted at this time. Given the rural nature of the Town, it is expected that most of the yard waste generated in Westerlo is managed by residents on their own property.

Currently, all yard waste collected at the transfer station is burned (typically trees/brush).

#### *Household Hazardous Waste (HHW) and Electronic Waste*

The town participates in the Bethlehem HHW program that occurs once a year in May. Currently the town does not participate in an electronic waste program.

#### *Record Keeping*

Westerlo provided a recycling record for each month in 2007. According to this information in 2007, material received at the transfer station included 54.67 tons of co-mingled recyclable, 16.6 tons of corrugated cardboard, 95.81 tons of newspapers, 90.05 tons of metal, and 1,801.30 tons of garbage.



# **Blank Copy of Survey Form**



# ALBANY ANSWERS SWMP MODIFICATION MUNICIPAL SOLID WASTE/RECYCLING COLLECTION PRACTICES SURVEY

Municipality \_\_\_\_\_  
 Name/title of respondent \_\_\_\_\_  
 Phone # \_\_\_\_\_  
 Name of Interviewer \_\_\_\_\_  
 Date \_\_\_\_\_

**NOTE: Depending on how the telephone interview progresses, the interviewer may need to offer to follow up with a site visit to make the process easier or friendlier for the respondent.**

**1. How is waste disposed of in your municipality? Identify all that apply.**

- Municipal pick up? \_\_\_\_\_ Frequency \_\_\_\_\_
- Private hauler contracted by municipality? \_\_\_\_\_ Frequency \_\_\_\_\_
- Private hauler contracted by individual resident or business? \_\_\_\_\_
- Personal transport to landfill/transfer station? \_\_\_\_\_

Names & locations \_\_\_\_\_  
 \_\_\_\_\_

- Hours of operation \_\_\_\_\_

**3. Private haulers serving your municipality** (name & contact if possible, also get information on whether the municipality licenses the haulers operating in the municipality and whether there are any reporting requirements for the haulers.)

\_\_\_\_\_  
 \_\_\_\_\_

**4. Do you know how much solid waste each of the private haulers collects in your municipality? Please identify unit of measurement (tons, cubic yards, truck volume)**

Hauler Name	MSW Collected	MSW recycled	MSW disposed
• _____	_____	_____	_____
• _____	_____	_____	_____

**5. Name & location of recycling collection facilities located in your municipality (all types-transfer stations, scrap metal, tires etc)**

\_\_\_\_\_  
 \_\_\_\_\_

**6. Community recycling program.**

- How are recyclables collected and at what frequency? (Curbside, personnel transport etc.)

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

- Who is required to source separate recyclable materials as per your ordinance or as part of your program? (check all that apply)

1. Residences \_\_\_\_\_
2. Grocery stores \_\_\_\_\_
3. Restaurants \_\_\_\_\_
4. vehicle sales/service \_\_\_\_\_
5. Retail/malls \_\_\_\_\_
6. Apartment complexes \_\_\_\_\_
7. Schools, \_\_\_\_\_
8. government buildings \_\_\_\_\_
9. Other (specify) \_\_\_\_\_

- Waste stream information  
**(Provide information on annual quantities if available-specify units. Identify where possible if any of these source separation programs are all residential, commercial and institutional sectors noted above)**

	Regular Drop	Curbside	Special Curbside	Off
❖ Newspaper	_____	_____	_____	_____
❖ Magazines/phonebooks/catalogues	_____	_____	_____	_____
❖ Junk Mail	_____	_____	_____	_____
❖ Plastic (HDPE and PET)	_____	_____	_____	_____
❖ Plastic coated containers (milk cartons, juice boxes)	_____	_____	_____	_____
❖ Glass bottles & jars	_____	_____	_____	_____
❖ Aluminum Cans	_____	_____	_____	_____
❖ Ferrous Cans	_____	_____	_____	_____
❖ Corrugated Cardboard	_____	_____	_____	_____
❖ Folding cartons (e.g. cereal boxes)	_____	_____	_____	_____
❖ Office paper	_____	_____	_____	_____
❖ Metal	_____	_____	_____	_____
❖ Tires	_____	_____	_____	_____
❖ White Goods (major appliances)	_____	_____	_____	_____
❖ Dry cell or other batteries	_____	_____	_____	_____
❖ Lead acid batteries	_____	_____	_____	_____
❖ Oil/oil filters	_____	_____	_____	_____
❖ Textiles	_____	_____	_____	_____
❖ Food Waste	_____	_____	_____	_____
❖ Other (specify)	_____	_____	_____	_____

- Which materials (if any) are co-mingled for collection? \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

- Are there any specific materials that are unacceptable in your recycling program?  
 \_\_\_\_\_  
 \_\_\_\_\_

- Does your recycling ordinance require commercial businesses and institutions (i.e. schools & hospitals) to source separate and recycle the above designated materials?

\_\_\_\_\_

\_\_\_\_\_

- Name & location of facility where collected recyclables are processed. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Identify large commercial employers and institutions (including schools) in your Municipality & the programs they have instituted to reduce and recycle the solid waste they generate.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- What type of recyclable collection is provided by private waste haulers in your municipality?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- How are recyclable materials source separated and collected from public spaces like parks and recreational facilities and from seasonal functions and event in your Municipality?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- How is recycling enforced in your municipality? Details?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- What public educational and promotional programs are used in your Municipality to publicize and promote your waste reduction and recycling programs? Please provide copies of any flyers or written materials. (ask some open ended questions about staffing and any unique aspects of these programs or efforts)....

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Does your Municipality operate a SWAP or drop-off shed to facilitate the reuse of materials that are no longer wanted by their owners? Or do you know of such facilities that are operated by others (e.g. Salvation Army)? \_\_\_\_\_

\_\_\_\_\_

- How does your municipality collect data regarding program participation?

- ❖ Scale records \_\_\_\_\_

- ❖ Truck volume \_\_\_\_\_

- ❖ Frequency of data collection \_\_\_\_\_

- ❖ Estimates \_\_\_\_\_

- Does your community use or have you considered using a Pay-as-you -Throw approach to incentivize residents to minimize the amount of waste disposal?  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
  
- Suggestions to increase participation and collection rates for recyclable goods?  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
  
- Provide information on annual quantities (preferable in tons) of source separated recyclables, if possible \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
  
- Are you aware of any of the following in your municipality? If so please provide details.
  - Farms which might be recycling organic waste or utilizing on-farm composting?  
 \_\_\_\_\_  
 \_\_\_\_\_
  - Food processing facilities and how they manage their waste streams?  
 \_\_\_\_\_  
 \_\_\_\_\_
  - Food donation programs (e.g. restaurants to food pantries)  
 \_\_\_\_\_  
 \_\_\_\_\_
  - Food waste to animal feed \_\_\_\_\_

**7. How is yard waste collected, recycled, composted or disposed of?**

- Name/Location/owner/operator of composting facility(ies) \_\_\_\_\_
  
- Material collected:
 

Leaf waste	_____
<b>Identify units</b> Grass clippings	_____
Trees & brush	_____
  
- Amount of material collected/processed \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
  
- How are quantities measured? Scale records, truck counts, other methods? \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
  
- Does your yard waste composting facility have the capacity to consider accepting food waste for composting? If so is there any interest in pursuing food waste composting?  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

- How is material collected and transported to the composting facility?
  - ❖ Frequency (weekly, spring clean-up etc) \_\_\_\_\_
  - ❖ Type of equipment is used (vacuum truck, regular truck) \_\_\_\_\_
  - ❖ Preparation of yard waste (bagged, bundled, piled at curb) \_\_\_\_\_
  
- # of residential businesses or business units served (including schools and institutions) by yard waste collection program? What is the percentage of total residents and businesses served?
 

\_\_\_\_\_
  
- End use of composted materials \_\_\_\_\_
  
- How does the Municipality promote backyard composting? Do you know if many people do this? What percent of residents might handle their yard waste in this way? Are there ordinances or concerns that might discourage this practice (for example, prohibitions on backyard dumping or on-site management of this waste)?
 

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_
  
- Suggestions to increase the amount of yard waste collected in your community?
 

\_\_\_\_\_

\_\_\_\_\_
  
- Does the Municipality provide opportunities for Spring/fall clean up days? Describe program including frequency and collection method (not HHW- see below).
 

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**8. How is Construction & Demolition (C& D) debris managed in your community?**

- Do you know how much C&D debris is generated in your Municipality? If so, how much in Tons per year.
 

\_\_\_\_\_
  
- What percentage of the C&D is recycled and how is this estimated? \_\_\_\_\_
  
- What types of materials are separated/processed? \_\_\_\_\_
 

\_\_\_\_\_
  
- Name/owner/operator/location of disposal facilities \_\_\_\_\_
 

\_\_\_\_\_
  
- Quantity of C&D delivered to and processed at these facilities and methods of measurement \_\_\_\_\_
 

\_\_\_\_\_
  
- Does the highway department reuse concrete, asphalt pavement, or similar materials? Provide details \_\_\_\_\_
 

\_\_\_\_\_
  
- How can the quantity of C&D recycling in your community be increased? \_\_\_\_\_
 

\_\_\_\_\_

**9. Household Hazardous Waste (HHW) Collection**

- Does your community sponsor/participate in a HHW collection program? Yes \_\_\_\_\_  
No \_\_\_\_\_
- Identify the program and the frequency \_\_\_\_\_
- How much material is collected? \_\_\_\_\_
- What types of materials are collected? \_\_\_\_\_
- Cost associated with this program? \_\_\_\_\_
- Who may participate in the program? (residents, small businesses)  
\_\_\_\_\_

**10. Electronic Waste**

- Does your municipality collect/participated in a program to collect electronic waste?  
\_\_\_\_\_
- Identify the program and frequency \_\_\_\_\_
- Identify materials that are accepted for collection \_\_\_\_\_  
\_\_\_\_\_
- Any electronic materials that are unacceptable? \_\_\_\_\_
- Costs associated with the program? \_\_\_\_\_

**11. Sewage Sludge Management practices**

- How is sewage sludge managed? (Composting, Incineration, landfill disposal, other)? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- Name and location of sewage treatment plants in the Municipality \_\_\_\_\_  
\_\_\_\_\_
- Quantity of sewage sludge (tons per year) \_\_\_\_\_  
\_\_\_\_\_

**12. Name/location of landfills or other solid waste processing facilities in your Community not previously identified.**

\_\_\_\_\_  
\_\_\_\_\_

**13. Costs of solid waste/recycling/composting/collection programs**

- Please break down if possible (recycling vs. composting etc.) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Methods of funding? \_\_\_\_\_
- Revenue stream associated with any of these programs? \_\_\_\_\_



## **Albany SWMP Modification Attachment 2 Review and Evaluation of Local Recycling Laws and Ordinances**

As part of the SWMP modification, local ordinances were reviewed and evaluated. All recycling ordinances and guidelines that were accessible on-line, or collected after contact(s) with community officials were reviewed to determine the state of recycling programs throughout the Planning Unit. Based on the municipal survey conducted by CHA, it was confirmed that all the communities in the Planning Unit have implemented some form of recycling program. The fact that all these communities recycle in practice is not consistently backed by an adopted ordinance or law (Table 1, Key Components of Local Recycling Ordinances).

The Cities of Albany and Watervliet address recycling and source separation requirements. Recycling is required across all waste generators including: residential units, commercial, institutional and industrial generators as well as multi-residential units. Both cities provide municipal pick up for residential units. All other sectors are required to recycle but must make their own contacts with waste haulers. The City of Rensselaer also provides municipal garbage service; recycling is referenced in their Garbage, Rubbish and Refuse ordinance but no specifics are provided.

The Towns of Berne, Bethlehem, East Greenbush, Guilderland, New Scotland, Rensselaerville, and Westerlo all have local laws or ordinances that require residences to separate recyclables. As Table 1 indicates, not all of the ordinances address source separation requirements for the non-residential portions of the waste stream. During the municipal survey, the Town of Knox indicated that it has a mandatory recycling program and there is evidence that residents recycle but no regulatory reference could be located.

General Municipal Law §120aa requires that as of September 1, 1992 all municipalities in New York are to have enacted a local law or ordinance requiring source separation of recyclables or reusable items from solid waste. In order to ensure that all members of the Planning Unit continue to meet this requirement, this SWMP modification has identified the following action:

- A Planning Unit Recycling Coordinator (PURC) will be hired to address the needs of the entire Planning Unit.
- All municipalities must forward copies of their adopted solid waste/recycling ordinance by November 1, 2008 to the PURC.
- Municipalities that do not have ordinances in place that meet the requirements of GML 120aa will be denied access to the landfill.
- Any changes in ordinances or recycling practices must be updated when members provide the coordinator with their annual compliance reports.

Recycling ordinances should be standardized to the maximum extent practicable. It is recognized that resources of individual communities may drive the types of materials that are recycled and recycling methods. There should however, be a minimum standard that all the communities within the Planning Unit should meet. For example, items that are required by the City of Albany for recycling should be required of all communities that use the landfill. This should include municipal haulers, private haulers, individuals or town trucks that bring MSW to the landfill from their transfer station as well as direct deliveries of waste and recyclables from generators. Many towns provide recycling opportunities for additional items and this should continue to be actively encouraged.

To assist with standardization, model ordinances could be used as benchmark. These ordinances should clearly identify the required source separation components, that all members of the community

are required to participate (residential units, multi-residential units commercial, businesses etc.), acceptable separation practices, acceptable collection practices and penalties. Each community could expand/alter their programs based on economics and local conditions. The City of Albany's Source Separation requirements (**313.11 Article 2 Source Separation of Recyclables**) should be used as a model for municipalities that provide municipal pick up of MSW and recyclables. The Town of Bethlehem should be used as a model for municipalities that do not provide municipal pick up. Each of these ordinances is provided at the end of this attachment.

In the event waste haulers are operating within the Planning Unit but not utilizing the Rapp Road Landfill; they should be required to certify that they are transporting recyclables and MSW to a licensed waste facility. The facility name and location should be provided to the Planning Unit recycling coordinator on an annual basis.

The NYSDEC has also identified the lack of enforcement as an issue of concern. Although all the municipalities with recycling ordinances identify fines or other penalties for non-compliance, there is little use of enforcement techniques. Maximizing diversion rates will require an increased effort to educate waste generators about program requirements as well as enhanced enforcement.

Oversight in the form of waste audits at City solid waste facilities can be effective in identifying non-participation in recycling programs. Haulers (and the waste generators they service) discovered to be delivering recyclable materials for disposal at the landfill will be subject to follow-up education and enforcement efforts. Failure to comply and repeated delivery of contaminated loads could result in loss of disposal privileges and imposition of fines. While City staff may discover these deliveries at the landfill, follow-up contact with non-participating waste generators will be undertaken by the Planning Unit Recycling Coordinator, who will initiate education efforts intended at bringing these generators into compliance. It will be the responsibility of the municipality in which the waste originates to follow up with any enforcement effort, if that becomes necessary

The City has recently renewed efforts to educate generators (landowners) through a letter campaign reminding these landowners that they are required to have a recycling program in place. Currently, this campaign targets owners of multi-residential complexes. Although, this type of action has typically been complaint driven, the City plans to take a more active role in identifying and correcting problems in the separation and collection of recyclables in the non-residential sector. A sample correspondence is included at the end of this attachment.

## Sample Correspondence





**CITY OF ALBANY**

**DEPARTMENT OF GENERAL SERVICES**

GERALD D. JENNINGS  
MAYOR

WILLARD A. BRUCE  
COMMISSIONER

January 25, 2008

Mr. Joel Zbar, CFO  
Sterling Management Corporation  
72 Essex Street  
Lodi, NJ 07644

RE: New Park Run Apartments

Dear Mr. Zbar:

The City of Albany has found the reduction of solid waste and the conservation of recyclable materials to be of important public and private responsibility. The separation and collection of paper, newspaper, cardboard, glass, cans, plastic containers, vegetative yard waste and other materials for recycling from all establishments within the City of Albany is therefore mandated within its' City code. The proper handling of these materials will protect and enhance the City's physical and visual environment, as well as promote the health and well being of all persons and property within the City of Albany, while at the same time conserving landfill space and valuable natural resources.

Chapter 313-14 of the City of Albany Solid Waste Code mandates the "establishment of private collection program for multi-residential complexes." It has come to the City's attention that the apartment complex located at 640 Warren Street does not have established a program for the source separation, collection and delivery of all City designated recyclables. "The owner, manager or superintendent of every multi-residential complex within the City must provide and maintain a neat and sanitary recycling area to receive its' residents' recyclables."

The City of Albany requests that arrangements be made in order for the apartments at 640 Warren Street to be in compliance with code. The City understands that the establishment of such a program may take time and for this reason will not begin assessing fines for the lack of recycling for a period of 90 days. During this time, the City can assist by providing informative literature and technical assistance in establishment of a comprehensive recycling program at 640 Warren Street.

Please contact me with any questions or to request information on how to proceed with the recycling program at this complex. I can be reached at (518) 869-3651 (ext 1). Thank you in advance for your time and attention to this important matter; your compliance is appreciated.

Sincerely,

Joseph Giebelhaus  
Solid Waste Manager



## City of Albany's Source Separation requirements

### ARTICLE II Source Separation of Recyclables [Added 11-19-1990]

#### § 313-11. Legislative findings; intent.

The Common Council of the City of Albany finds that the reduction of the amount of solid waste and the conservation of recyclable materials are important public concerns. The separation and collection of newspaper, paper, cardboard, glass, cans, plastic containers, vegetative yard waste and other materials for recycling from the residential, commercial, industrial and institutional establishments in the City will protect and enhance the City's physical and visual environment, as well as promote the health, safety and well-being of persons and property within the City by minimizing the potential adverse effects of landfilling through reduction of the need for landfills and conservation of existing landfill capacity, facilitating the implementation and operation of other forms of solid waste management, conserving natural resources, ensuring conformance with the New York State Solid Waste Management Plan and facilitating the implementation of a solid waste management plan for the City as a whole. The promotion and use of recyclable materials, goods produced from recyclable materials and goods which facilitate recycling will further serve the same purpose by encouraging and facilitating recycling.

#### § 313-12. Definitions.

As used in this article, the following definitions shall have the meanings indicated:

**CANS** — Containers comprised of aluminum, tin, steel or a combination thereof which contain or formerly contained only food and/or beverage substances.

**CARDBOARD** — All corrugated cardboard normally used for packing, mailing, shipping of containerizing goods, merchandise or other material, but shall not mean wax-coated or soiled cardboard (i.e., pizza boxes). [Amended 12-20-2004 by Ord. No. 38.121.04]

**COMMISSIONER** — The Commissioner of the Department of General Services. [Amended 5-4-1998 by Ord. No. 28.42.98; 12-20-2004 by Ord. No. 38.121.04]

**DEPARTMENT OF GENERAL SERVICES** — The City of Albany Department of General Services. [Amended 12-20-2004 by Ord. No. 38.121.04]

**DISPOSITION or DISPOSITION OF DESIGNATED RECYCLABLE MATERIALS** — The transportation, placement or arrangement for transportation or placement of designated recyclable materials for all possible end uses to the City of Albany ANSWERS facility.

**GARBAGE** — Putrescible animal and vegetable wastes resulting from the handling, preparation, cooking and consumption of food.

**GLASS** — All clear (flint), green and brown (amber) colored glass containers.

**HAZARDOUS MATERIAL or HAZARDOUS WASTE** — A solid waste or a combination of solid wastes which, because of its quantity, concentration or physical, chemical or infectious characteristics, may cause or significantly contribute to an increase in mortality or an increase in serious irreversible or incapacitating reversible illness; or pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported or disposed of or otherwise managed. Such materials or wastes shall include, but are not limited to, explosives, hazardous radioactive materials, toxic substances and those substances which the Commissioner has identified as a hazardous waste pursuant to the above criteria and has included on a list of hazardous

waste promulgated by the Department of General Services. **[Amended 12-20-2004 by Ord. No. 38.121.04]**

**MULTIRESIDENTIAL COMPLEX** — Five or more residential units located on a single property or continuous properties under common ownership, control or management. For this purpose, "residential unit" shall mean an enclosed space consisting of one or more rooms designed for use as a separate residence and shall include, but not be limited to, an apartment, condominium unit, townhouse cooperative unit, mobile home, living unit in a group home and room or set of rooms in a boardinghouse but shall not include rooms within a single-family residence, motel or hotel.

**NEWSPAPERS** — Newsprint and all newspapers and newspaper advertisements, supplements, comics and enclosures.

**PAPER** — All high-grade office paper, fine paper, bond paper, office paper, xerographic paper, mimeo paper, duplication paper, magazines, paperback book, school paper, catalogs, junk mail, computer paper, telephone books and similar cellulosic material, but shall not mean wax paper, plastic or foil-coated paper, styrofoam, wax-coated food and beverage containers, carbon paper, blueprint paper, food-contaminated paper, soiled paper and cardboard. **[Amended 12-20-2004 by Ord. No. 38.121.04]**

**PERSON** — Any individual, firm, partnership, company, corporation, association, joint venture, cooperative enterprise, trust, municipality or other governmental agency or any other entity or any group of such persons which is recognized by law as the subject of rights and duties. In any provisions of this article prescribing a fine, penalty or imprisonment, the term "person" shall include the officers, directors, partners, managers or persons in charge of a company, corporation or other legal entity having officers, directors, partners, managers or other persons in charge.

**PLASTIC CONTAINERS** — Containers composed of high-density polyethylenes, polyethylene terephthalate or other specific plastics as the City may designate.

**RECYCLABLE MATERIAL** — A material, which would otherwise become solid waste, which can be collected, separated and/or processed, treated, reclaimed, used or reused to produce a raw material or product.

**RECYCLABLES** — Those recyclable materials designated by this article and/or by determination of the Commissioner to be source-separated. The term includes, but is not limited to, newspaper, glass, paper, cardboard, cans, plastic containers and vegetative yard waste.

**RECYCLING** — Any process by which materials, which would otherwise become solid waste, are collected, separated and/or processed, treated, reclaimed, used or reused to produce a raw material or product.

**RECYCLING COLLECTION AREA** — Any facility designed and operated solely for the receiving and storing of source-separated designated recyclable materials.

**RESIDENT** — Any person residing within the City on a temporary or permanent basis, but excluding persons residing in hotels or motels. For purposes of this article, "resident" does not include commercial, industrial or institutional establishments.

**RUBBISH** — Nonputrescible solid wastes consisting of both combustible and noncombustible wastes, including but not limited to nonrecyclable paper, wrappings, cigarettes, wood, wires, glass, bedding, furniture and similar materials which are not designated recyclable materials.

**SOLID WASTE** — All putrescible and nonputrescible materials or substances discarded or rejected as having served their original intended use or as being spent, useless, worthless or in excess to the owner at the time of such discard or rejection, including garbage, refuse, litter, rubbish and industrial waste but not including designated recyclable materials, solid or dissolved matter in domestic sewage or substances, materials in noncontainerized gaseous form or hazardous materials or waste.

SOURCE-SEPARATED — To separate recyclable materials from the solid waste stream at the point of waste generation.

VEGETATIVE YARD WASTE — Organic yard and garden waste, leaves, grass clippings and brush.

**§ 313-13. Requirements applicable to source separation and collection of designated recyclables for the curbside program.**

All designated recyclables placed for collection or at another location by residents for collection pursuant to the curbside programs established pursuant to Article I of this chapter shall be prepared for collection in accordance with regulations promulgated by the Commissioner.

**§ 313-14. Establishment of private collection program for multiresidential complexes.**

- A. In any area designated by the Commissioner of this chapter, there is also established a program ("private collection program") for the source separation, collection and delivery of newspaper and any other designated recyclable material included in the curbside program from all non-physically-disabled residents of multiresidential complexes.
- B. The owner, manager or superintendent of every multiresidential complex subject to Subsection A above shall provide and maintain, in a neat and sanitary condition, recycling collection areas to receive newspaper and other designated recyclables included in the curbside program which are generated by residents of the complex. In cases where a condominium, cooperative, homeowner or similar association exists, the association shall be responsible for provision and maintenance of the recycling collection areas. Said recycling collection areas shall be constructed and capable of receiving newspaper and other designated recyclables within 180 days of such inclusion into the curbside program.
- C. Once the recycling collection area for a particular multiresidential complex has been constructed and is capable of receiving newspaper and other designated recyclables as may be included in or added to the curbside program, all non-physically-disabled residents of such complex shall source-separate such materials by placing them in the appropriate containers or areas within the collection area.
- D. The owner, manager or superintendent of each multiresidential complex subject to Subsection A above shall arrange for the collection for recycling of newspaper and other designated recyclables from the recycling collection areas.
- E. The number and design of the recycling collection areas required by this section for each multiresidential complex shall be consistent with guidelines provided by the Commissioner.

**§ 313-15. Requirements applicable to source separation and placement of designated recyclables in recycling collection areas.**

Designated recyclables required to be placed in recycling collection areas pursuant to § 313-14 of this article shall be prepared for collection in accordance with regulations promulgated by the Commissioner.

**§ 313-16. Mandatory commercial, industrial and institutional source separation program.**

- A. All commercial, industrial and institutional establishments within an area of the City subject to a curbside program established pursuant to regulation of the Commissioner shall source-separate

and arrange for the collection for recycling of newspaper and any and all other designated recyclables as may be included in or added to such curbside program within 180 days of such inclusion in the curbside program.

- B. Designated recyclables for the mandatory commercial, industrial and institutional source separation program may consist of the following materials:
- (1) Newspaper.
  - (2) High-grade paper, including but not limited to white letterhead paper, white bond paper, white typing paper, white copier paper, white notepad paper, white writing paper, white envelopes without glassine windows, other nonglossy white office paper without plastic, computer printout paper, computer tab cards and white onionskin paper.
  - (3) Corrugated cardboard.
  - (4) Glass containers, plastic containers and cans generated by food and beverage service establishments.
  - (5) Vegetative yard waste.
  - (6) Other recyclable materials as designated by resolution of the City at all times 30 days after said designation and publication of notice in an official newspaper of the City or a newspaper of general circulation within the City.
- C. The arrangement for collection of designated recyclables for disposition hereunder shall be the responsibility of the person who owns, manages or operates the commercial, industrial or institutional establishment at which the recyclables are generated ("generator") or the person contractually obligated to the generator to arrange for collection and disposal of its solid waste.

**§ 313-17. Special provision regarding vegetative yard waste.**

Nothing in this article shall be construed as preventing any person from utilizing vegetative yard waste for compost, mulch or other agricultural, horticultural, silvicultural, gardening or landscaping purposes.

**§ 313-18. Enforcement; rules and regulations. [Amended 12-20-2004 by Ord. No. 38.121.04]**

The Department of General Services is authorized to enforce the provisions of this article and to administer the recycling programs established herein. The Commissioner may adopt and promulgate, amend and repeal rules and regulations implementing this article in order to carry out and effectuate the intent and purposes thereof.

**§ 313-19. Unlawful activities.**

- A. It shall be unlawful for:
- (1) Any person, other than those persons so authorized, to collect any designated recyclable which has been placed at the roadside for collection or within a recycling collection area pursuant to this article.
  - (2) Any person to violate or to cause to assist in the violation of any provision of this article or any implementing rule or regulation promulgated by the Commissioner. **[Amended 5-4-1998 by Ord. No. 28.42.98; 12-20-2004 by Ord. No. 38.121.04]**
  - (3) Any person to place or to cause to be placed any material other than a designated recyclable in or near a recycling collection area.

B. All unlawful conduct set forth in this section shall constitute a violation.

**§ 313-20. Noncollection of solid waste contaminated by designated recyclables. [Amended 12-20-2004 by Ord. No. 38.121.04]**

The Department of General Services may refuse to collect solid waste from any person who has clearly failed to source-separate recyclables designated under an applicable section of this article at any solid waste disposal facility owned or operated by the City.

**§ 313-21. Noninterference with existing contracts.**

- A. Nothing contained in this article shall be construed to interfere with or in any way modify the provisions of any existing contract in force in the City on the effective date of this article.
- B. No renewal of any existing contract upon the expiration of the original term thereof and no new contract for the collection, transportation, processing or purchase of solid waste or recyclables shall be entered into after the effective date of this article, unless renewal of such contract shall conform to the requirements of this article.

**§ 313-22. Penalties for offenses. [Amended 12-5-2005 by Ord. No. 73.112.05]**

Any person who engages in unlawful conduct as defined in this article may, upon conviction thereof, in a proceeding before a court of competent jurisdiction, be sentenced to imprisonment for a term not to exceed 15 days or to a term of community service related to the purposes of this article or to pay a fine of not more than \$250 and not less than \$25, or any combination of the above penalties, including all associated court costs.

**§ 313-23. Injunction; concurrent remedies.**

- A. In addition to any other remedy provided herein, the City of Albany may institute a suit in equity where unlawful conduct exists for an injunction to restrain a violation of this article.
- B. The penalties and remedies prescribed by this article shall be deemed concurrent. The existence or exercise of any remedy shall not prevent the City from exercising any other remedy provided herein or otherwise provided at law or equity.
- C. The terms and provisions of this article are to be liberally construed, so as best to achieve and effectuate the goals and purposes hereof.

**§ 313-24. Severability.**

- A. The provisions of this article are severable. If any provision of this article or its application to any person or circumstances is held invalid, said invalidity shall not affect any other provision or application which can be given effect without the invalid provision or application of the article.
- B. All provisions of any other local law or ordinance which are inconsistent with the provisions of this article are hereby repealed.

# **Town of Bethlehem's Source Separation Requirements**

## ARTICLE III Mandatory Recycling

### § 97-17. Legislative declaration.

Believing that a significant amount of recyclable or reusable material can be removed from the solid waste stream being generated within the Town of Bethlehem and in order to facilitate the conservation of vital and natural resources through recycling and in recognition of the established public policy of the State of New York to encourage local governments to implement comprehensive materials recycling programs as part of their solid waste management strategies, the Town Board hereby finds that it is in the general public interest to implement environmentally sound, yet economically feasible, recycling programs to complement the Town's solid waste management system. In so doing the Town Board acknowledges those findings and recommendations of the Town of Bethlehem New York Solid Waste Task Force, contained in its Recycling Plan, dated June 1989, revised July 25, 1989.

### § 97-18. Definitions.

For purposes of this article, those terms defined in §§ 97-1 and 97-10 of this chapter shall have the meanings indicated therein unless a different meaning or context is set forth or required in this article. The following additional terms shall have the meanings indicated:

**COMMERCIAL WASTE** — Solid waste other than residential or industrial waste.

**COMMERCIAL WASTE COLLECTOR** — Any person who collects residential, industrial or commercial waste from more than one household or from any business, institution or commercial establishment or industrial facility within the Town of Bethlehem or who otherwise transports or disposes of such wastes collected from said sources or who performs such service for a fee.

**CORRUGATED CARDBOARD** — Cardboard containers, boxes and packaging which is cleaned of contamination by food wastes, adhesives, metals, plastics and excess tape and which has been flattened or baled for transport. It excludes cereal or food-type packaging.

**GLASS CONTAINER** — Clear, green and amber (brown) glass jars, bottles and containers, empty, rinsed and with rings and caps removed.

**METAL CANS** — Tin, aluminum or other ferrous or nonferrous or composite cans and containers used for food or beverages. All-metal cans shall be cleaned of contaminants, with labels removed.

NEWSPAPER — Common machine-finished paper, made chiefly from wood pulp, used for printing newspapers.

OFFICE PAPER — All bond paper, including computer printout, stationery, photocopy and ledger-free commercial wastepaper. Paper must be free of tape, adhesives, labels, rubber bands, paper clips, binders and other contaminants. This term excludes carbon paper, chemical transfer paper, windowed envelopes, glossy paper and other wastepapers of nonbond quality.

PLASTIC CONTAINERS — All high-density polyethylene (HDPE) and PET plastic containers, clean of contaminants and with tops removed. If crushed, these containers do not break. The following "plastic containers" are acceptable: detergent bottles, plastic liquor bottles, peanut butter jars, soda bottles, milk and juice containers, shampoo containers, etc. This term excludes all film, vinyl, foam plastic materials, yogurt, cottage cheese and pudding type containers, pens, tops, bags, etc.

RECYCLABLE MATERIALS — Those materials specified by the Town of Bethlehem or the State of New York by law, ordinance, rule or regulation which are not hazardous and which are to be separated from the waste stream and held for reuse or which have, or may have in the future, market or other value. These materials shall include but not be limited to glass containers, plastic containers, corrugated cardboard, newspapers and metal cans as defined herein. The Superintendent of Highways may, with the approval of the Town Board, designate other kinds of solid wastes that shall constitute recyclable material.

RESIDENTIAL WASTE — All solid waste generated or produced by persons occupying buildings containing three or fewer dwelling units.

WASTE SEPARATION — The segregation or separation of recyclable or reusable materials from the solid waste stream at the source of its generation or production.

§ 97-19. Mandatory recycling requirements.

- A. The use by a resident, pursuant to a resident permit issued pursuant to Article II of this chapter, of any solid waste facility within the Town shall be conditioned upon said resident having separated recyclable materials as required herein from the solid waste to be disposed of.
- B. As a condition for obtaining any permit required by this chapter or for the use of any solid waste facility within the Town, all commercial waste collectors shall have filed with and obtained the approval by the Superintendent of Highways of a recycling plan setting forth the procedures, means and methods by which said commercial waste collector shall perform or require the separation from the solid waste so collected of recyclable materials. Each plan must require that recyclables from residential waste will be collected as often and on the very same day as the other residential waste collected by said commercial waste collector. Such plan shall also provide a schedule for the collection of recyclables from commercial waste.

- C. In all instances, except where the commercial waste collector shall itself perform waste separation as defined herein, said commercial waste collector shall require its customers to separate recyclable waste at its source or generation point. Each commercial waste collector shall provide its residential customers with at least one Town-approved plastic bin or container, from 14 to 40 gallons in capacity, for the placement of recyclables prior to their collection by the commercial waste collector.
- D. Each commercial waste collector shall, as a condition of maintaining a permit required by this chapter, file with the Superintendent of Highways written reports, not less than every 30 days, containing any requested amendments to the collector's recycling plan, which shall be subject to the approval of the Superintendent of Highways, and also report concerning the amount of solid waste collected or transported by the commercial waste collector and further quantifying the amount of each recyclable segregated and the location and manner of the disposal of such recyclable materials.
- E. The Superintendent of Highways may, subject to the approval of the Town Board, adopt rules and regulations concerning the specific methods by which said recyclable materials shall be segregated prior to their acceptance for disposal at any solid waste facility operated pursuant to Article II of this chapter.
- F. No solid waste will be accepted by any solid waste management facility within the Town of Bethlehem if it contains recyclables which are mixed or commingled with other solid waste.

§ 97-20. Further designation of recyclable materials.

The above listing of recyclable materials shall not prohibit the establishment, by way of regulation promulgated by the Superintendent of Highways with the approval of the Town Board, of such further or additional recyclable items or materials that must be separated pursuant to this article.

§ 97-21. Administration.

- A. The Superintendent of Highways shall be responsible for administering the mandatory recycling requirements of the Town of Bethlehem and for the issuance of rules or regulations implementing

this chapter. The Town Building Inspector shall be responsible for the enforcement of any violations of this chapter or the rules and regulations issued thereunder.

B. The Town Board may establish one or more sites for the operation by or on behalf of the Town of Bethlehem of a recycling facility and shall establish the days and hours of operation of all such facilities.

C. The Superintendent of Highways shall be empowered to:

(1) Establish rules and regulations concerning the operation and use of such recycling facilities.

(2) Suspend any permit pending a hearing for revocation pursuant to § 97-22B(1). Said suspension shall not exceed a period of 30 days. A permit may be temporarily suspended as provided for by this subsection in the event that the Superintendent of Highways determines, in his discretion, that a person holding said permit is in violation of this chapter and said violation constitutes or may create a danger to the aesthetics and environment of the Town or the health and safety of its inhabitants or that a person is utilizing said permit for a purpose or in a matter that is inconsistent with this chapter or is allowing said permit to be utilized by a person other than the issuee of said permit.

#### § 97-22. Penalties for offenses.

A. Any person who shall commit an offense against any of the provisions of this article or fail to comply therewith or with any of the provisions thereof shall be guilty of a violation and, upon conviction thereof be punishable by a fine not exceeding \$250 for each offense or by imprisonment for a term not to exceed 15 days, and/or by both fine and imprisonment. Each act or day of continuance shall constitute a separate violation.

B. Additional penalties.

(1) In addition to the penalties above provided, after a hearing the Town Supervisor may revoke any permit issued pursuant to this article if the Town Supervisor at such hearing determines that the holder of such permit is a persistent violator or incapable of or unwilling to comply with the provisions of this article or has intentionally or negligently acted or failed to act in a manner that has harmed or created a risk of harm to the aesthetics and environment of the Town and the health or safety of its inhabitants or has utilized said permit in a manner inconsistent with this article or has allowed said permit to be utilized by other than its issuee. The permittee shall have an opportunity to be heard at such hearing, which shall be held after such permittee shall be served by written notice of such hearing in person or by registered mail, return receipt requested, not less than 15 days prior to the date of such hearing.

(2) The Town shall also have such other remedies as are provided by law.

#### § 97-23. Severability.

If any clause, sentence, paragraph, section, article or part of this chapter shall be adjudged by any court of competent jurisdiction to be invalid, such judgment shall not affect,

impair or invalidate the remainder

thereof but shall be confined in its operation to the clause, sentence, paragraph, section, article or part thereof directly involved in the controversy in which such judgment shall have been rendered.

§ 97-24. Effective date.

This chapter shall take effect September 1, 1990, and when the appropriate certified copies hereof are filed with the Secretary of State pursuant to the applicable provisions of the Municipal Home Rule Law.

**Albany SWMP Modification**  
**Attachment 3**  
**Commercial Waste Generator and Hauler Survey Summary for**  
**Recycling and Collection Practices**

**Hauler Survey Summary**

One of the components for this Solid Waste Management Plan (SWMP) Modification was to administer a survey to the major private waste haulers in the Planning Unit. The purpose of the survey was to gather information about current practices for the collection and management of solid waste and recyclable materials. Clough Harbour and Associates (CHA) administered the survey to five (5) of the major commercial waste haulers operating within the planning unit. The list included Allied Waste, County Waste, Waste Management, A. Ritz, and Robert Wright Disposal. A copy of the Hauler Survey form is included at the end of this attachment.

Survey responses were received from Allied Waste and Waste Management. These responses are summarized below.

Waste Management's (WMI) survey response indicated that they provided regular collection services for source separated materials for some single family residential units, multi family units w/ >2 units, public or private schools, government offices, and private businesses. They provide two (2) sort recycling options, commingled containers and fibers. They noted that the majority of their business consists of commercial clients whom they provide a dumpsters, totes, or bins for material collection. Out of all the municipalities inside the ANSWERS community, the only ones that WMI does not provide service to are Knox, Rensselaerville and Westerlo. The recyclable materials that WMI collects in it's program are all the glass, metal and plastic container (GMP) materials (Plastic(HDPE and PET), Plastic coated containers, Glass bottles and jars, Aluminum cans, Ferrous cans, Metal) as well as all the different mixed fibers (newspaper, magazines/phonebooks/catalogues, Junk mail, Corrugated cardboard, Folding cartons and Office paper).

Since WMI handles all of the residential waste collection in Watervliet, they provided a breakdown of solid waste and recyclables collected in that municipality for 2007. WMI reported that in Watervliet 428 tons of materials were collected for recycling and 3,744 tons of waste was collected for disposal. For the entire Planning Unit, WMI estimated that it collected 1,400 tons of material for recycling (including the tonnage from Watervliet noted above) and collected 33,000 tons of waste for disposal (also including tonnage from Watervliet). Special collections such as white goods and bulky waste are handled individually based on customer purchase orders and are picked up using rear-end load trucks.

WMI reported using the following facilities to handle their source separated recyclables: Waste Management (Port of Albany Facility); Metro Waste (Colonie, NY) and; Yard Waste (Colonie, NY). WMI reported using the following facilities for solid waste disposal: Waste Management (Port of Albany Transfer Facility); Albany Landfill (Rapp Rd Facility); and Town of Colonie Landfill.

Allied Waste's (AW) survey response stated that they provide service to all the communities in the Planning Unit except Berne, Knox, Rensselaerville and Westerlo. The recyclable materials that AW collects in it's program are all the GMP materials (Plastic(HDPE and PET), Plastic coated containers, Glass bottles and jars, Aluminum cans, Ferrous cans, Metal) as well as all the different mixed fibers (newspaper, magazines/phonebooks/catalogues, Junk mail, Corrugated cardboard, Folding cartons and Office paper). There is the potential for the collection of a large single stream collection if the client calls for it. Special collections such as white goods and bulky waste are handled using either a roll-off or special pick ups with small trucks.

AW reported using the following facilities to handle their source separated recyclables, Sienna Fiber (Albany), Metro Recycling (Colonie, NY), Hudson River Recycling (Albany) and Wm Biers (Port of Albany). AW reported using the following facilities for solid waste disposal: Waste Management (Port of Albany Transfer Facility); Albany Landfill (Rapp Rd Facility); Schenectady Transfer Station (Schenectady, NY); and the Town of Colonie Landfill. Because it provides service in multiple Planning Units throughout the Capital District, AW was not able to provide tonnage data with respect the collection of solid waste or recyclable materials from the municipalities in the Planning Unit.

### **Commercial Waste Generator Survey Summary**

Another component of this SWMP Modification was a survey of major commercial waste generators in the Planning Unit. CHA administered this survey by mail to approximately 60 of the major commercial waste generators within the planning unit. Surveys were mailed on February 7, 2008, requesting return by February 22, 2008. As of March 6, 2008 only 5 responses have been received. Responses were received from the following : Albany Law School;, Albany Medical Center; Daughters of Sarah Nursing Home; Our Lady of Mercy Life Center ; and St. Peter's Health Care Services; A copy of the Commercial Waste Generator Survey form is included at the end of this attachment.

Survey respondents provided varying levels of detail and not all respondents provided material quantities. While only 5 of 60 surveyed generators responded to the survey, several of the facilities which did respond are among the largest private employers in the Planning Unit.

In addition, telephone interviews were also conducted with the New York State Office of General Services (OGS), which is responsible for the management of State Office Buildings, including those in the Albany Planning Unit. Telephone interviews were also conducted with representatives of the United States Postal Service (USPS), who were known to operate a robust regional recycling network out of their Albany mail processing and distribution center.

These survey responses and the results of the telephone interviews are summarized below.

#### **Albany Law School**

Albany Law School (ALS) has 750 students, 153 full time staff and 7 part-time staff at the New Scotland Avenue campus. ALS survey response indicated that there were separate recycling collection containers spread throughout the building that were emptied on a daily basis into larger dumpsters/totes to await removal from site. ALS takes back computers and parts and transports them to the Albany Landfill during the specific collection times offered for these components. ALS does not keep records or prepare reports regarding their waste reduction and recycling program.

ALS provided data for both their waste generated along with quantities of the materials they recycled in 2007. They recycled 2.6 tons of commingled (metal, glass, plastic) and 5 tons of corrugated cardboard. ALS had a recycling total of 38.6 tons including the materials listed above along with other miscellaneous materials. ALS generated some 100 tons of MSW. The total amount of recycled materials divided by the total waste generated and recycled gave ALS a recycling rate of 27.85%. The combined waste and recycling totals noted earlier total to 138.6 tons divided by the 910 people employed by ALS gave them a waste generation rate of 0.83 lb/day/employee.

#### **Albany Medical Center**

Albany Medical Center (AMC) is a teaching hospital which employs 6,620 people and includes 740 students. The medical facility includes 651 beds and also processes 62,468 emergency

room/outpatient visits annually. The South Clinical Campus (SCC) employs 300 people and included 20 patient beds. AMC and SCC survey response indicated that materials are source separated and stored on site while awaiting removal. The custodial staff collects recyclables and refuse. The AMC tracks weight and costs monthly of all wastes generated and disposed. An annual report is prepared and provided to both the AMC Board and the NYSDEC.

AMC provided data for both their waste generated along with quantities of the materials they recycled in 2007. They generated and recycled 262 tons of corrugated cardboard and 214 tons of office paper. AMC had a recycling total of 694 tons including the materials listed above along with other miscellaneous materials. AMC generated some 2544.9 tons of waste. The total amount of recycled materials divided by the total waste generated and recycled gave AMC a recycling rate of 21.43%. The combined waste and recycling totals noted earlier total to 3,238.9 tons divided by the 6620 people employed on a full basis time by AMC combined with the 300 full time employees from SCC gave them a waste generation rate of 2.56 lb/day/employee.

### **Daughters of Sarah**

Daughters of Sarah (DS) is a nursing home which employs 200 full-time and 100 part-time workers. This facility provides 274 beds for nursing/health care. DS survey response indicated that Allied Waste removes waste and recyclables twice weekly from the facility. No figures were provided regarding quantities for recyclable materials.

### **Our Lady of Mercy Life Center**

Our Lady of Mercy Life Center (OLMLC) is a nursing home which employs 180 people full-time and 71 people part-time. This facility provides 160 beds for nursing care. OLMLC survey response indicated that Waste Management removes waste and recyclable twice weekly from a dumpster and 55 gallon totes located outside the facility.

OLMLC provided data for both their waste generated along with quantities of the materials they recycled in 2007. They generated and recycled 93.6 tons of corrugated cardboard and 15.4 tons of wooden pallets. OLMLC had a recycling total of 118.6 tons including the materials listed above along with other miscellaneous materials. OLMLC generated some 140.1 tons of waste. The total amount of recycled materials divided by the total waste generated and recycled gave OLMLC a recycling rate of 45.84%. The combined waste and recycling totals noted earlier total to 258.7 tons divided by the 180 people employed on a full time basis combined with the 71 part time gave them a waste generation rate of 5.65 lb/day/employee.

### **St. Peter's Health Care Services**

St. Peter's Health Care Services (SPHCS) is a medical facility that includes 450 beds and processes 500,000 emergency room/outpatient visits annually. There are 4000 full time employees. Materials are stored on the waste dock while awaiting removal. Waste Management removes MSW and recyclables from this facility. Cardboard is stored in a compactor. Other items are stored in a closed roll off. St. Peter's has been recycling paper, cardboard, electronics, for more than 15 years at a cost of over \$15,000/annually. The form indicated that lead acid batteries are recycled but no quantities were provided.

SPHCS provided data for both their waste generated along with quantities of the materials they recycled in 2007. They generated and recycled 162 tons of corrugated cardboard and 3.6 tons of office paper. SPHCS had a recycling total of 185.6 tons including the materials listed above along with other miscellaneous materials. SPHCS generated some 1449.8 tons of waste. The total amount of recycled materials divided by the total waste generated and recycled gave SPHCS a recycling rate

of 11.35%. The combined waste and recycling totals noted earlier total to 1,635.4 tons divided by the 4000 people employed on a full time basis by SPHCS gave them a waste generation rate of 2.49 lb/day/employee.

### **New York State Office of General Services**

The New York State Office of General Services operates waste management and recycling programs in state-owned office buildings. Statewide, OGS buildings house roughly 25,000 state employees. An OGS representative estimated that there were approximately 19,000 employees on the two OGS complexes in the City of Albany. In every state office, employees have 2 bins at their desk, one for mixed office paper and one for non-recyclable garbage. Each floor of an office building has one or more larger containers for the collection of mixed bottles and cans (glass, plastic, metal). Food waste is sometimes collected also. Custodial staff collects the recyclables and the refuse and consolidate it at a location on the loading dock of each building.

There is good record keeping for the OGS recycling program and periodic reports are prepared. The 3R's Program is the Office of General Services Building Administration Group's response to the requirements of Section 165 Subsection 3 of the State Finance Law, and is consistent with Executive Order 142, which calls for the implementation of a comprehensive and environmentally sound Solid Waste Management Program by all state agencies.

OGS provided data from their 'Material Recovery and Waste Reduction Program' that contained quantities of waste disposed along with quantities of the materials they recycled for fiscal year 2004/2005. OGS had a recycling total of 6,402 tons and disposed of 4,405 tons of waste, which calculates to a statewide recycling diversion rate of 59.24%. No data was provided on waste disposal at the Albany OGS complexes, but these facilities recovered approximately 5,889 tons for recycling during this period. This is more than the proportional share of state employees at these complexes, so the recycling/diversion rate for the Albany area OGS facilities may have been higher than the statewide rate noted earlier. The combined waste and recycling totals noted earlier total to 10,807 tons divided by the approximately 25,000 state employees working in OGS facilities statewide yields a waste generation rate of 2.37 lb/day/per employee.

### **United States Postal Service**

The USPS in the Albany has been implementing comprehensive recycling programs since the mid 1990s. The Albany Processing and Distribution Center (P&DC) is currently recycling Office Paper, undeliverable bulk business mail, cardboard and shrink wrap through a program whereby these materials are back-hauled to Albany P&DC from the local post offices serviced by that center. At the P&DC the materials are consolidated, baled and then shipped to recycled material markets, currently Solvay Paperboard in Syracuse. Although there were no totals supplied, oil, antifreeze, and other automotive fluids are recovered for recycling by the USPS.

The ANSWERS Planning Unit represents about 16% of the population serviced by the Albany P&DC. It is reasonable to allocate the Planning unit's contribution to this recycling based on its proportional share of the population. Based on this proportion, the USPS recovered 365 tons for recycling in the Planning unit in 2007, including an estimated 31 tons of cardboard, 318 tons of paper, and 16 tons of shrink wrap.

### **Watervliet Arsenal**

The Watervliet Arsenal (WA) is a manufacturing facility operated by the Department of the Army. This information corresponds only to the portions of the site under the Department's control.

Currently, office space is listed at approximately 104,000 square feet. There are also 19 housing units on site. There are 546 full-time employees. WA survey response indicated that MSW and recycling service is provided by Waste Management twice weekly. Recyclables are co-mingled and are separated in containers provided by Waste Management. Wooden pallets are reused. No figures were provided regarding quantities of recycled materials.



**Blank Survey Form**  
**Albany Area Solid Waste Management Plan Modification**  
**Hauler survey**



**Albany Area Solid Waste Management Plan Modification  
Hauler survey**

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**Interview script**

My name is \_\_\_\_\_ with Clough Harbour & Associates, and we have been retained by the City of Albany to prepare a modification to the Solid Waste Management Plan (SWMP) for the Albany Area planning unit. To measure the progress that has been made in achieving waste reduction and recycling goals of the SWMP, several surveys of solid waste management and recycling practices are being administered to municipalities, commercial and institutional waste generators, and private companies in the business of solid waste and recyclable collection.

Your participation in this effort will be critical to our success, and we appreciate your willingness to share this information with us. This information, when combined with data from other solid waste haulers, municipalities and commercial waste generators will help us plan for the future of solid waste management in Albany Area planning unit. In addition, these data may help us expand markets for recyclable materials, better allocate resources, and gauge our need for future disposal capacity.

\*\*\*\*\*

**IF RESPONDENT ASKS ABOUT CONFIDENTIALITY – NOTE THIS**

We understand that some of the requested information might be considered confidential. As we go through this survey, please let me know what information you consider confidential and we will be sure not to release any of this confidential information as part of our report. Note that we may use this information to calculate our waste generation and recycling rates.

\*\*\*\*\*

Company Name \_\_\_\_\_

Respondent Name and Title \_\_\_\_\_

Phone Number \_\_\_\_\_

Name of Interviewer \_\_\_\_\_

Date of Interview \_\_\_\_\_

\*\*\*\*\*

Do you provide regular collection services for source separated recyclable materials collected from the following sources:

- Source 1 - Single family residential units
- Source 2 - Multi family residential buildings w/ 2 to 4 units
- Source 3 - Multi family residential buildings w > 4 units
- Source 4 - Public or private schools
- Source 5 - Government offices
- Source 6 - Private Businesses
- Source 7 - Other (Specify)

Please provide a brief description of these services.

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In which of the following municipalities do you provide source separated recyclable materials collection or solid waste collection? Please specify by applicable sources as noted above. If you have any major commercial, institutional or industrial customers, please provide specifics about these.

Municipality	Source Separated Recyclables Collection	Solid Waste Collection
Albany, City		
Rensselaer, City		
Watervliet, City		
Berne, Town		
Bethlehem, Town		
Guilderland, Town		
Knox, Town		
New Scotland, Town		
Rensselaerville, Town		
Westerlo, Town		
Green Island, Village		
Altamont, Village		
East Greenbush		

What recyclable materials are collected as part of these programs? Please specify there are any differences between municipalities in the list of materials.

- ❖ Newspaper \_\_\_\_\_
- ❖ Magazines/phonebooks/catalogues \_\_\_\_\_
- ❖ Junk Mail \_\_\_\_\_
- ❖ Plastic (HDPE and PET) \_\_\_\_\_
- ❖ Plastic coated containers (milk cartons, juice boxes)\_\_\_\_\_
- ❖ Glass bottles & jars \_\_\_\_\_
- ❖ Aluminum Cans \_\_\_\_\_
- ❖ Ferrous Cans \_\_\_\_\_
- ❖ Corrugated Cardboard \_\_\_\_\_

- ❖ Folding cartons (e.g. cereal boxes) \_\_\_\_\_
- ❖ Office paper \_\_\_\_\_
- ❖ Metal \_\_\_\_\_
- ❖ Tires \_\_\_\_\_
- ❖ White Goods (major appliances) \_\_\_\_\_
- ❖ Dry cell or other batteries \_\_\_\_\_
- ❖ Lead acid batteries \_\_\_\_\_
- ❖ Oil/oil filters \_\_\_\_\_
- ❖ Textiles \_\_\_\_\_
- ❖ Food Waste \_\_\_\_\_
- ❖ Other (specify) \_\_\_\_\_
- ❖ C&D Components? Recycled? \_\_\_\_\_
- ❖ PCS (Petroleum Contaminated Soils) \_\_\_\_\_

How much recyclable material and solid waste have you collected in the past year from each of the municipalities? Please indicate what year (2007? 2006?). If exact data are not available can you provide an estimate?

Municipality	Recyclable Materials Collected (Tons per year)	Solid Waste Collected (Tons per year)
Albany, City		
Rensselaer, City		
Watervliet, City		
Berne, Town		
Bethlehem, Town		
Guilderland, Town		
Knox, Town		
New Scotland, Town		
Rensselaerville, Town		
Westerlo, Town		
Green Island, Village		
Altamont, Village		
East Greenbush		

How are special pick-ups of white goods, bulky waste handled?

\_\_\_\_\_

Where do you deliver source separated recyclable materials that are collected?

Facility name and location \_\_\_\_\_  
 Facility name and location \_\_\_\_\_  
 Facility name and location \_\_\_\_\_  
 Facility name and location \_\_\_\_\_

Where do you deliver solid wastes that are collected?

Facility name and location \_\_\_\_\_  
 Facility name and location \_\_\_\_\_  
 Facility name and location \_\_\_\_\_  
 Facility name and location \_\_\_\_\_

Do you have any suggestions for more effective waste management and recycling in the Capital District?

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Thank you for your time.

**Blank Survey Form  
Commercial Generators Solid Waste/Recycling  
Collection Practices Survey**



**COMMERCIAL GENERATORS SOLID WASTE/RECYCLING  
COLLECTION PRACTICES SURVEY**

**Part I. General Information (Employer/resident data)**

**Firm name** \_\_\_\_\_ **Facility name** \_\_\_\_\_

**Street address** \_\_\_\_\_ **Mailing address** \_\_\_\_\_  
\_\_\_\_\_

**Contact Person/Survey Respondent** \_\_\_\_\_

**Contact Name & telephone #** \_\_\_\_\_

Number of Employees: Full time \_\_\_\_\_ Part time \_\_\_\_\_  
Hours of Operation: \_\_\_\_\_

Type of Business or SIC Code: \_\_\_\_\_

Office Buildings: \_\_\_\_\_ square feet

Apartment Building:  
Number of Units \_\_\_\_\_

Schools/Institutions  
# Students \_\_\_\_\_; If residential # Students in on-campus housing \_\_\_\_\_

Medical facilities  
# beds \_\_\_\_\_ # Emergency room/outpatient visits annually \_\_\_\_\_

Motels/hotels  
# Rooms \_\_\_\_\_

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**Part II. Solid Waste/Recyclable Information**

**1. How is solid waste collected for recycling or disposal (note all that apply)?**

- Municipal pick up? \_\_\_\_\_
- Self haul to disposal or recycling facilities?  
\_\_\_\_\_  
\_\_\_\_\_
- Private hauler contracted by your business? (name/contact information of hauler )  
\_\_\_\_\_  
\_\_\_\_\_
- Provided by landlord \_\_\_\_\_
- Pick-up schedule (weekly, bi-weekly) \_\_\_\_\_

**2. Which solid waste management facility(s) are used by your business?**

\_\_\_\_\_  
\_\_\_\_\_

**3. Approximately how much solid and other waste do you dispose of weekly/monthly or annually? Please indicate units.**

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**4. Describe in detail the collection method for recyclables at your site:**

- How are the recyclables separated and what entity is responsible for separation?  


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- Where/how are recyclables stored while awaiting removal?  


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- How is the material removed from site? \_\_\_\_\_  


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- Are any materials reused either on site or transported to another location for reuse? (e.g. wooden pallets)  


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- Where are recyclables processed? (Facility name/contact information)  


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**5. Specialty programs**

- Does your business “take back” used electronics, appliances, tires, waste oil or other materials that are sold or serviced at your business?  


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- If yes please provide information regarding quantities collected and are recycled; please include units.

Material \_\_\_\_\_                      Quantity collected & recycled \_\_\_\_\_  
 Material \_\_\_\_\_                      Quantity collected & recycled \_\_\_\_\_

**Part III. Waste Stream/Recyclable Composition:**

**1. Waste stream/recyclable composition information**

Please estimate the composition of your waste stream and the amount you recycle in the following categories, in tons/year if possible. If other units of measurement are used please specify.

	A	+	B	=	C
	Material Generated		Material Recycled		Material Disposed
❖ Newspaper	_____		_____		_____
❖ Magazines/phonebooks/catalogues	_____		_____		_____

❖	Junk Mail	_____	_____	_____	_____
❖	Plastic (HDPE and PET)	_____	_____	_____	_____
❖	Plastic coated containers (Milk cartons, juice boxes)	_____	_____	_____	_____
❖	Other Plastic	_____	_____	_____	_____
❖	Glass bottles & jars	_____	_____	_____	_____
❖	Other Glass	_____	_____	_____	_____
❖	Aluminum Cans	_____	_____	_____	_____
❖	Ferrous Cans	_____	_____	_____	_____
❖	Other metals (specify)	_____	_____	_____	_____
❖	Corrugated Cardboard	_____	_____	_____	_____
❖	Folding cartons (e.g. cereal boxes)	_____	_____	_____	_____
❖	Office paper	_____	_____	_____	_____
❖	Tires	_____	_____	_____	_____
❖	White Goods (major appliances)	_____	_____	_____	_____
❖	Dry cell or other batteries	_____	_____	_____	_____
❖	Lead acid batteries	_____	_____	_____	_____
❖	Oil/oil filters	_____	_____	_____	_____
❖	Textiles	_____	_____	_____	_____
❖	Construction & Demolition Debris	_____	_____	_____	_____
❖	Yard Waste (please specify)	_____	_____	_____	_____
❖	Food Waste	_____	_____	_____	_____
❖	Wooden Pallets	_____	_____	_____	_____
❖	Medical Waste	_____	_____	_____	_____
❖	Other (specify)	_____	_____	_____	_____
❖	Other (specify)	_____	_____	_____	_____
❖	Electronics (Specify)	_____	_____	_____	_____
❖	Mixed Refuse	_____	_____	_____	_____
	<b>TOTAL</b>	_____	_____	_____	_____
		<b>A</b>	<b>+</b>	<b>B</b>	<b>=</b> <b>C</b>

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**Part IV. Other recycling program questions**

**1. Are you familiar with the local or state recycling laws regarding governing commercial/business/institutional establishments?**

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**2. Do you keep records or prepare reports regarding your waste reduction and recycling program? Please describe**

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**3. How are new employees/residents educated about program requirements?**

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**4. How are your program requirements communicated and enforced?**

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**5. Identify costs/benefits of your recycling program.**

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**6. Are there barriers that reduce your recycling program's effectiveness or result in no recycling at your business/institution? Please describe.**

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**7. Suggestions to improve the recycling program?**

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**THANK YOU FOR YOUR TIME.**

Please FAX completed survey form by February 22, 2008 to:  
Clough, Harbour & Associates  
Attn: Jean Loewenstein, Senior Planner  
Fax Number: (518) 453- 4522  
Telephone: (518) 453-8771

**Albany SWMP Modification  
Attachment 4  
Planning Unit Recycling Coordinator Duties**

**Planning Unit-wide Recycling Coordinator (PURC)**

**General Statement of Duties**

- Participant municipalities will be expected to execute an Inter-Municipal Agreement (IMA) with the City of Albany, which will provide for a Planning Unit-wide Recycling Coordinator who will be an area-wide resource to promote: waste reduction and recycling, monitor compliance with the municipal recycling ordinances, provide assistance in applying for available grant funding, and compile annual information about recycling program achievement in each municipality, including commercial, industrial and institutional recycling program. Pursuant to the IMA, the cost of this position will be allocated among the member municipalities, in proportion to their population. The enforcement of local ordinances will remain the responsibilities of each municipality. The Recycling Coordinator will be appointed in the fourth quarter of 2008. The appointment of the PURC will **not** replace the ongoing need for recycling program coordinators in each of the member municipalities. As a condition of the IMA, each municipality will designate a contact person with the responsibility to work with the PURC.
  
- To improve communication and recycling programs, monthly recycling coordinator meetings will be instituted by the PURC beginning January 2009. Albany County will be invited to participate in these meetings and as well as the stakeholder advisory group for the New SWMP.

**1. Assessment of Recycling programs of all member communities in the Planning Unit.**

The initial responsibility of the Planning Unit Recycling coordinator will be to assess the status of the numerous programs in place within the Planning Unit. The coordinator will work with the recycling contact for each municipality to review each community's program including:

- What is recycled
- Recycling method
- Location of facilities used
- Reporting
- Education/communication

**2. Identify Plan(s) to provide assistance to member communities as needed.**

Based on the assessment completed in step 1, above the Planning Unit Recycling coordinator will compile information and instructions from each municipality regarding their waste reduction and recycling programs. This information will be made conveniently accessible to residents and businesses of the Planning Unit by posting it to the website established for the Planning Unit to make information about the Eastern Expansion publicly available. It will also be linked to the City's website as well as each member municipality's website. Some of these duties will be as follows:

- Standardize Recycling Programs/components (minimum required recycling)
- Municipal Education (municipal contacts, officials and employees)
- Public education (for example): residential and non-residential sectors

1. Brochures/website links for the planning unit as a whole as well as assistance to member municipalities
2. Development and implementation of backyard composting demonstrations in coordination with DEC personnel at various municipalities throughout the Planning Unit.
3. Development and distribution of information regarding HHW and electronics recycling to ensure that City residents are aware of the eleven HHW and electronics recycling days sponsored by the City annually and other municipally sponsored events throughout the Planning Unit.
4. Continued identification of new or additional recycling streams such as e-waste recycling.
5. Tips on every day waste reduction strategies.

- Institutional Education

Currently only two schools in the Albany School District have recycling bins to encourage recycling. The City will provide recycling bins to all the schools (public and private) located in the City. The PURC will assist the City of Albany's recycling coordinator with the promotion of increased recycling in the City's schools through educational programs offered at the beginning of each school year. After the first year, this will also be expanded to include assistance to all municipal recycling coordinators, so assistance may be provided to all schools in the Planning Unit. The PURC and municipal recycling coordinators will work with the schools to ensure their collection service providers not only provide recycling collection but will also assist the schools proper structuring of their collection contracts to ensure they receive the associated cost benefit for recycling additional material.

- Facility/hauler education

Information will be targeted annually to all haulers with permits to use the Rapp Road landfill. Information regarding separation and recycling requirements, reporting requirements and waste audits will be provided. Meetings/informational sessions will be conducted as necessary.

- Commercial/business education

Recycling requirements for the non-residential sector of the waste stream will be posted on the Planning Unit Wide website as well as through a letter campaign. Meetings/informational sessions will be conducted as necessary.

- Assistance with coordination/utilization of resources particularly in more rural municipalities.

The Planning Unit wide website will be the first resource for these communities. The PURC, based on the assessment of the specific programs in a community will help coordinate/disseminate information such as HHW days, backyard composting and e-waste recycling.

### **3. Reporting**

All member municipalities will continue to be responsible to maintain the appropriate data regarding recycling and waste stream quantities. The PURC will serve as the clearinghouse for all data regarding recycling programs and reporting within the Planning Unit and as such will be provided this data by member municipalities as necessary.

- Maintain file of recycling ordinances of all Planning Unit members.
- Maintain list of required recycling, voluntary recycling, banned materials
- Track annual reports from all member municipalities & follow up as needed. (Compliance Reports)
- Improve material/quantity tracking from all municipalities
  1. Reports from haulers operating in the Planning Unit.
  2. Reports from any municipal facilities (transfer stations, landfills etc)
- Track waste stream and recycling quantities to ensure that appropriate progress is being made towards recycling goals.
- Compile and maintain a list of area waste and recycling processors utilized and available to Planning Unit members and haulers (See Attachment 6 Rapp Road Solid Waste Management Facility Commercial Recycling Guide)

### **4. Compliance**

- Increased education and oversight will be the responsibility of the Recycling Coordinator. Each municipality will be responsible for gaining compliance from generators as well as haulers.
- Waste Audits- Maximizing diversion rates will require increased effort to educate waste generators about program requirements as well as enhanced enforcement. Oversight in the form of waste audits at City solid waste facilities can be effective in identifying non-participation in recycling programs. Haulers (and the waste generators they service) discovered to be delivering recyclable materials for disposal at the landfill will be subject to follow-up education and enforcement efforts. Failure to comply and repeated delivery of contaminated loads could result in loss of disposal privileges and imposition of fines. While City staff may discover these deliveries at the landfill, and make initial contacts, follow-up contact with non-participating waste generators will be undertaken by the PURC in coordination with the municipal recycling coordinator, who will initiate education efforts intended at bringing these generators into compliance. It will be the responsibility of the municipality in which the waste originates to follow up with any enforcement effort, if that becomes necessary.

### **5. Identification & Development of New Recycling/Waste Reduction Opportunities**

The PURC will assist with the identification/development of current or future waste stream component recycling opportunities such as the expansion of e-waste recycling and food waste processing. As new recycling opportunities and markets are identified, this information will be made available on the Capital Region Solid Waste Management Planning Unit's website that will be established by the PURC.

Additionally the PURC will assist with the identification, evaluation and promotion of waste reduction strategies such as backyard composting and PAYT. PAYT programs are discussed more fully in Section 2.6.2.

#### **6. Drive the expansion of Commercial/Institutional/Industrial Sector Recycling**

The PURC with assistance from City employees and municipal recycling coordinators, will initiate a campaign to remind all businesses and commercial institutions of recycling requirements. This may take the form of letters, website announcements, public service announcements and public meetings. This will occur in conjunction with increased education/enforcement of area haulers.

- All commercial/institutions/industries will be provided the Rapp Road Solid Waste Management Facility Commercial Recycling Guide to assist them in locating haulers/markets for recyclables.
- Initial efforts to focus on largest employers/institutions to educate them about recycling requirements.
- Assist with program implementation if needed.
- Market Development- the PURC will provide/acquire technology/information regarding waste reduction and recycling opportunities and markets to/from area haulers and all commercial and business institutions. The PURC will serve as a clearinghouse for recycling markets information by maintaining this database on the Planning Unit website. This information will be updated as new/additional information becomes available.

#### **7. Identify/pursue grant & other funding opportunities**

The PURC will pursue funding through state or other grants to fund municipal waste reduction and recycling efforts. Through its Municipal Waste Reduction and Recycling Grant Program, the NYSDEC has taken an active role in funding various recycling programs to help communities raise awareness and participation in recycling as well funding programs and efforts to reduce solid waste generation. The grant program allows for up to 50% reimbursement (up to a maximum of \$2 million dollars per individual project) and provides funding for the following as they relate to recycling: capital projects, education and recycling coordinators, and HHW collection and education (see Section 2.3.3).

In addition the Empire State Development (ESD) offers assistance to companies that want to substantially reduce costs and/or expand operations by reusing, remanufacturing, or recycling materials that are normally disposed; or by reducing the volume or toxicity of waste and/or by-products.

**Financial Assistance** – ESD offers funding for projects that produce measurable results in pollution prevention, reuse, and recycling.

- **Capital** funding invests in the physical assets (such as plant, machinery and equipment and infrastructure) needed to achieve pollution prevention, recycling and waste reduction at manufacturing and other companies.
- **Technical assistance** funding is available for NYS non-profit organizations or municipalities that directly assist New York State businesses to achieve pollution prevention, reuse or recycling results.
- **Research, development and demonstration (RD&D)** funds to test, evaluate or demonstrate the technical and/or economic feasibility of technologies or practices that prevent, reuse, remanufacture or recycle waste.

More information regarding ESD and the assistance it provides is located at: [http://www.empire.state.ny.us/Manufacturing\\_& Environment/Environment/pollution\\_prevention.asp](http://www.empire.state.ny.us/Manufacturing_& Environment/Environment/pollution_prevention.asp)

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# Rapp Road Solid Waste Management Facility Commercial Recycling

City of Albany, New York



Reduce, Reuse,  
Recycle

525 Rapp Road, Albany NY

Phone No. 518.869.3651

# IT'S THE LAW



## MANDATORY COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL SOURCE SEPARATION PROGRAM - CITY OF ALBANY CODES 313-14 & 313-16

**IT'S THE LAW** - Did you know that it is **mandatory** that all **commercial, industrial, institutional establishments**, and **multi-residential complexes** (five or more apartments) within the City of Albany arrange for a private collection program for recyclable materials?

If an establishment or complex is found to not be in compliance with the mandatory recycling requirements set fourth by the City then the responsible person(s) may be **sentenced to 15 days imprisonment or to a term of community service or to pay a fine of up to \$250 and not less than \$25, or any combination of the above penalties, including all associated court costs.**

**UNACCEPTABLE MATERIALS** - The list of materials on Page 3 are materials that are **NOT** to be placed in your refuse container for pick up by your private hauler. **Your private hauler is not allowed to dispose of these items at the Rapp Road Solid Waste Management Facility.** If your multi-residence complex or establishment is located outside the City of Albany, your city or town ordinances may differ. However your private hauler most likely deposes your waste at the Rapp Road Facility and therefore these items in addition to what your city or town prohibits are not to be placed in your refuse container for disposal.

**HAULERS** - On Page 6 a list of local haulers that can be contracted to pickup waste and recyclables from **commercial, industrial, institutional establishments**, and **multi-residential complexes.**

**THIS DIRECTORY**— This Directory provides company names, contact persons and locations of local recyclers and reuse organizations for recyclable materials including some materials listed as unacceptable. Should you have any unacceptable materials that are not listed in this Directory please visit [http://www.empire.state.ny.us/Manufacturing & Environment/Recycle/secondary\\_markets.asp](http://www.empire.state.ny.us/Manufacturing & Environment/Recycle/secondary_markets.asp) for additional companies throughout the Northeast that might accept your material.

## WOOD

Company Name	Contact	Phone Number	City
AquaTerraSys	Glenn Warren, PE	978-430-4977	Bolton Land-
County Waste & Recycling Services	G. Houk	518-877-7007	Halfmoon
Montgomery-Otsego-Schoharie Solid Waste Management Authority	G. L. Chichester	518-296-8884	Howes Cave
Sierra Fibers	Dan Dorlon, III	518-433-0020	Albany
Sterling Recycling, Inc.	Sales	845-753-6666	Sloatsburg
WM Biers, Inc.	Chuck Oliver	518-434-2747	Albany



## TIRES

Company Name	Contact	Phone Number	City
AquaTerraSys	Glenn Warren, PE	978-430-4977	Bolton Landing
Auburn, Inc.	Sales	800-424-1494	Auburn
Barmore-Sellstrom Tires, Inc.	Service	716-665-6426	Jamestown
BCD Tire Chip Manufacturing	Customer Service	518-269-0590	Hagaman
Casings, Inc.	Jim Fabrizio	518-943-9404	Catskill
CRM Co., LLC	Al Akhavain	518-869-6000	Colonie
G & G Tire Company	Service	518-563-6430	Plattsburgh
GCR Truck Tire Center	Service	518-462-6507	Albany
McCarthy Tire	Service	518-234-3586	Cobleskill
RAK Tire Recovery	Collection	518-756-3641	Ravena
TCI Tire Centers	Service	518-434-8115	Albany
Terry-Haggerty Tire Company	Sales	518-449-5185	Albany
Unity Creations, LTD	Erick Prinz	877-418-6489	Saugerties
Van Kleeck Tires	Sales	518-828-3020	Hudson

## VEHICLE FLUIDS-WASTE OIL, ANTIFREEZE

Company Name	Contact	Phone Number	City
Advanced Liquid Recycling, Inc.	Sales	800-582-5906	Cohoes
Eastern Environmental Technologies Inc	Neil Farans	800-808-7227	Port Chester
Emil Norsic & Son, Inc.	Stu	800-451-6875	Southampton
Feher Rubbish Removal	Larry Feher	315-422-0715	Syracuse
Gianco Environmental Services, Inc.	Michael Gianchetta Jr	631-952-9900 X13	Brentwood
Precision Industrial Maintenance	William Verhayden	888-888-7464	Schenectady
Solvents and Petroleum Services	Phil No	800-315-4467	Cheektowage
Sullivan County Division of Solid Waste	Bill Cutler	845-794-4466 X301	Monticello
Tompkins County Solid Waste Division	Thomas Richardson	607-273-6632	Ithaca
United Industrial Services	Sales	888-276-0887	Syracuse
United Industrial Services	Sales	888-276-0887	Cohoes
WeRecycle, Inc.	Sales	877-937-3292	Mount Vernon

## UNACCEPTABLE MATERIALS



- Explosives or ammunitions;
- Combustible liquid or gas containers, bottles, cylinders, or cans;
- Caustic acids, corrosives, chemicals, or other hazardous wastes, radioactive or other contaminations or pollutants prohibited by mandatory and binding laws or regulations of the United States and New York State
- Liquid or slurry waste;
- Unopened containers, except empty household spray cans;
- No lawn clearing debris including grass, leaves, stumps, tree trunks, or limbs;
- No asbestos waste;
- Thick walled or solid metallic objects such as casting, forgings, gas cylinders, or motors;
- Steel or nylon rope, cables, or slings more than four feet in length;
- Case hardened or alloy steel chains over 3/8 inches in diameter or four feet in length;
- Animal wastes or parts of animal other than normal household garbage
- No recyclables as determined by the commissioner of the Department of General Services;
- No barrels or drums;
- No asbestos waste;
- Solid block of metal, rubber, or plastic in excess of two cubic feet;
- Any material classified as infectious or hazardous wastes such as: contaminated hypodermic needles, syringes, broken glass, scalpel blades, isolation waste, cultures, stock from laboratories, human blood and blood products);
- No incinerated or partially incinerated materials; and
- Industrial wastes, wastes that are not easily recognizable or wastes that may pose a health risk to landfill employees will only be accepted with written approval from the Landfill.

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## REUSABLE BUILDING EQUIPMENT

Company Name	Contact	Phone Number	City
Demolition Depot		212-860-1138	Middletown, CT
ERC Community Warehouse	Joanna Decker	518-686-7540	Hoosick Falls
Hudson Valley Materials Exchange	Warehouse	845-567-1445	New Windsor

## REUSABLE CLOTHING

Company Name	Contact	Phone Number	City
Harbor Textiles Co.	Gary Edelstein	978-946-9473	Lawrence, MA
Kids In Distressed Situations, Inc.	Donations	800-266-3314	New York
Neighborhood Coalition for Shelter, Inc.	Millicent Cavanaugh	212-537-5100	New York
Wearable Collections Clothing Recycling	Sales	646-515-4387	New York

## REUSABLE FURNITURE

Company Name	Contact	Phone Number	City
Build It Green! NYC	Justin Green	718-777-0132	Astoria
ERC Community Warehouse	Joanna Decker	518-686-7540	Hoosick Falls
Tools for Schools, Inc.	Janice Hepburn	917-250-6200	New York

## REUSABLE MEDICAL SUPPLIES

Company Name	Contact	Phone Number	City
Hudson Valley Materials Exchange	Warehouse	845-567-1445	New Windsor
Recovery of Unused Medical Supplies	Donations	585-922-5810	Rochester

## SINGLE-STREAM RECYCLABLES

Company Name	Contact	Phone Number	City
FCR Ontario	Stephen Klemann	585-526-4789	Stanley
Naef Recycling, LLC	Sales	315-463-7266	East Syracuse

## TEXTILE

Company Name	Contact	Phone Number	City
American Clothing Recycling Co.	John D'ambrosia	518-793-7785	Glens Falls
Cottrell Paper Company	Procurement	800-948-3559	Rock City Falls
Muran International	Procurement	516-248-3830	New Hyde Park
Rock Solid	Matt Evans	518-943-9404	Catskill
Sterling Recycling, Inc.	Sales	845-753-6666	Sloatsburg

## PLASTIC #7 OTHER

Company Name	Contact	Phone Number	City
Allied Waste Services of Albany	Bob Griffin	518-785-7030	Latham
Fiber Conversion Inc	Nick Poot	518-883-3431	Broadalbin
Fulton County Recycling Center	Cindy Livingston	518-736-5501	Johnstown
Hudson Baylor Corporation	Straat Tenney	845-561-0167	Newburgh
J.C. Paper Co., Inc.	Ronald Chugerman	845-454-2170	Poughkeepsie
Montgomery-Otsego-Schoharie Solid Waste Management Authority	G. L. Chichester	518-296-8884	Howes Cave
PlastiCycle Corporation	Joseph Cirillo	914-997-6882	White Plains
Sierra Fibers	Sales	518-433-0020	Schenectady
Sierra Fibers	Dan Dorlon, III	518-433-0020	Albany
Sterling Recycling, Inc.	Sales	845-753-6666	Sloatsburg
Sullivan County Division of Solid Waste	Bill Cutler	845-794-4466 X301	Monticello
Thompson Sanitation	Chet Smith	845-796-1032	Rock Hill
UltrePET, LLC	Paul Zordan	518-459-1080	Albany
Upland Industries	Michael Carman	518-357-0855	Schenectady

## REUSABLE APPLIANCES

Company Name	Contact	Phone Number	City
Build It Green! NYC	Justin Green	718-777-0132	Astoria
ERC Community Warehouse	Joanna Decker	518-686-7540	Hoosick Falls

## REUSABLE ARCHITECTURE SALVAGE

Company Name	Contact	Phone Number	City
Build It Green! NYC	Justin Green	718-777-0132	Astoria
Demolition Depot	Thomas	212-860-1138	New York
Filco Carting	Michael	718-456-5000	Brooklyn

## REUSABLE ART & PAINT SUPPLIES

Company Name	Contact	Phone Number	City
Hudson Valley Materials Exchange	Warehouse	845-567-1445	New Windsor
Build It Green! NYC	Justin Green	718-777-0132	Astoria

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# HAULERS

Hauler	Phone Number	City
A Waste Management & Recycling Products Inc	518-377-9900	Schenectady
Accurate Disposal, Inc.	518-355-8139	Schenectady
Allied Waste Services	518-785-7030	Latham
Ash Trading Corporation	518-463-6666	Albany
Biers W M Inc	518-434-2747	Albany
Burt Process Equip.	518-477-5005	East Greenbush
County Waste & Recycling Service Inc	518-877-0079	Clifton Park
CRM	518-869-6000	Albany
Cross Brother Transportation	518-767-3127	Selkirk
Freedman R Kelly & Son Inc	518-273-1141	Green Island
GOTCANS.ORG	518-377-2267	Scotia
Hjohnson Controls Inc	518-451-2700	Albany
Hudson Metal	518-465-3387	Albany
Hudson River Recycling	518-465-2288	Albany
Kruger Recycling Inc	518-433-0020	Albany
Mead Enterprise Inc Crush-It-Division	518-235-2841	Waterford
Metro Waste Paper Recovery	518-689-1020	Albany
New York Rubber Recycling	518-357-4747	Schenectady
Norris Disposal Service	518-518-458-7033	Clifton Park
Predel T A & Co. Inc	518-346-3445	Schenectady
S & S Disposal	518-384-0546	Schenectady
Sierra Fibers	518-433-0020	Albany
Stephentown Transfer Station	518-733-9254	Averill Park
Superior Waste Control Inc	518-377-2424	Clifton Park
Tire Conversion Technologies	518-372-1300	Scotia
Upland Industrial Inc	518-357-0855	Schenectady
W T E Recycling Corp	518-459-1080	Albany
Waste Management	518-445-6700	Fort Edward
West Albany Scrap Metal	518-458-8133	Albany
West Central Envir. Corp	518-272-6891	Albany
Yank Waste Co Inc	518-456-2345	Albany

## PLASTIC #5 PP (continued)

Company Name	Contact	Phone Number	City
Montgomery-Otsego-Schoharie Solid Waste Management Authority	Attendant	518-296-8884	Oneonta
Montgomery-Otsego-Schoharie Solid Waste Management Authority	G. L. Chichester	518-296-8884	Howes Cave
PlastiCycle Corporation	Joseph Cirillo	914-997-6882	White Plains
Sierra Fibers	Sales	518-433-0020	Schenectady
Sierra Fibers	Dan Dorlon, III	518-433-0020	Albany
Sterling Recycling, Inc.	Sales	845-753-6666	Sloatsburg
Sullivan County Division of Solid Waste	Bill Cutler	845-794-4466 X301	Monticello
Thompson Sanitation	Chet Smith	845-796-1032	Rock Hill
Upland Industries	Michael Carman	518-357-0855	Schenectady

## PLASTIC #6 PS

Company Name	Contact	Phone Number	City
Adirondack Plastics & Recycling, Inc.	John Aspland	518-638-8960	Argyle
Adirondack Plastics & Recycling, Inc.	John Aspland	518-638-8960	Fort Edward
Allied Waste Services of Albany	Buffalo Recyclery	518-785-7030	Kenmore
Allied Waste Services of Albany	Bob Griffin	518-785-7030	Latham
Enstar Corporation	John Engster	518-279-4311	Troy
Fiber Conversion Inc	Nick Poot	518-883-3431	Broadalbin
Fulton County Recycling Center	Cindy Livingston	518-736-5501	Johnstown
Hudson Metal	Sales	518-465-3387	Albany
J.C. Paper Co., Inc.	Ronald Chugerman	845-454-2170	Poughkeepsie
JCS Distribution	Charles Lindsell		Central Valley
PlastiCycle Corporation	Joseph Cirillo	914-997-6882	White Plains
Sterling Recycling, Inc.	Sales	845-753-6666	Sloatsburg
Sullivan County Division of Solid Waste	Bill Cutler	845-794-4466 X301	Monticello
Thompson Sanitation	Chet Smith	845-796-1032	Rock Hill
Upland Industries	Michael Carman	518-357-0855	Schenectady

**PLASTIC #4 LDPE**

Company Name	Contact	Phone Number	City
Adirondack Plastics & Recycling, Inc.	John Aspland	518-638-8960	Argyle
Allied Waste Services of Albany	Bob Griffin	518-785-7030	Latham
B&R Specialties Inc	Dr. Robert Fried	845-889-4000	Staatsburg
Enstar Corporation	John Engster	518-279-4311	Troy
Hudson Baylor Corporation	Straat Tenney	845-561-0167	Newburgh
Hudson Metal	Sales	518-465-3387	Albany
J.C. Paper Co., Inc.	Ronald Chugerman	845-454-2170	Poughkeepsie
JCS Distribution	Charles Lindsell		Central Valley
Montgomery-Otsego-Schoharie Solid Waste Management Authority	G. L. Chichester	518-296-8884	Howes Cave
PlastiCycle Corporation	Joseph Cirillo	914-997-6882	White Plains
Sealed Air Corp	Earle Boothe	518-386-0520	Scotia
Sierra Fibers	Dan Dorlon, III	518-433-0020	Albany
Sterling Recycling, Inc.	Sales	845-753-6666	Sloatsburg
Sullivan Co. Division of Solid Waste	Bill Cutler	845-794-4466	Monticello
Thompson Sanitation	Chet Smith	845-796-1032	Rock Hill
UltrePET, LLC	Paul Zordan	518-459-1080	Albany
Upland Industries	Michael Carman	518-357-0855	Schenectady

**PLASTIC #5 PP**

Company Name	Contact	Phone Number	City
Adirondack Plastics & Recycling, Inc.	John Aspland	518-638-8960	Argyle
Adirondack Plastics & Recycling, Inc.	John Aspland	518-638-8960	Fort Edward
Allied Waste Services of Albany	Buffalo Recyclery	518-785-7030	Kenmore
Allied Waste Services of Albany	Bob Griffin	518-785-7030	Latham
B&R Specialties Inc	Dr. Robert Fried	845-889-4000	Staatsburg
Enstar Corporation	John Engster	518-279-4311	Troy
Fiber Conversion Inc	Nick Poot	518-883-3431	Broadalbin
Fulton County Recycling Center	Cindy Livingston	518-736-5501	Johnstown
Hudson Metal	Sales	518-465-3387	Albany
J.C. Paper Co., Inc.	Ronald Chugerman	845-454-2170	Poughkeepsie

**DIRECTORY****BATTERIES**

Company Name	Contact	Phone Number	City
Advanced Recovery, Inc.	Sales	866-794-8050	Port Jervis
All Recycling, Inc.	Sales	845-562-0216	Newburgh
American Lamp Recycling, LLC	Robert Judkins, Jr.	800-315-6262	Wappingers Falls
Eco-Bat New York, LLC	Tom Kelly	800-527-9452	Middletown
Edison Computers, Inc.	Ahren Edison	866-432-9311	Oneonta
Fulton County Recycling Center	Cindy Livingston	518-736-5501	Johnstown
Hudson Metal	Sales	518-465-3387	Albany
Mercury Refining Co. Inc.	Leon Cohen	800-833-3505	Albany
Nathan Kelman Inc.	Fran Kelman	518-237-5133	Cohoes
Ontario Scrap Metal	Bill Ahl	518-463-2213	Albany
Precision Industrial Maintenance	William Verhayden	888-888-7464	Schenectady
RK Freedman	Sales	518-273-1142	Albany
Sullivan Co. Division of Solid Waste	Bill Cutler	845-794-4466	Monticello
Town of Colonie	Joseph Stockbridge	518-783-2826	Cohoes
Ulster Co. Resource Recovery Agency	Laura Petit	845-336-0600	Kingston
Universal Metal & Ore	Sales	914-664-0200	Mt. Vernon
WeRecycle, Inc.	Sales	877-937-3292	Mount Vernon

**CONSTRUCTION & DEMOLITION**

Company Name	Contact	Phone Number	City
Allied Waste Services of Albany	Bob Griffin	518-785-7030	Latham
AquaTerraSys	Glenn Warren, PE	978-430-4977	Bolton Landing
County Waste & Recycling Services	G. Houk	518-877-7007	Halfmoon
Cristo Demolition Inc.	Tony Cristo	518-463-6985	Albany
King Road Materials, Inc.	Jeff Frani	518-381-9995	Schenectady
Montgomery-Otsego-Schoharie Solid Waste Management Authority	G. L. Chichester	518-296-8884	Howes Cave
Pallette Stone Corporation	Bill Bokus	518-584-3877	Saratoga Springs
Precision Industrial Maintenance	William Verhayden	888-888-7464	Schenectady
Sierra Fibers	Dan Dorlon, III	518-433-0020	Albany
UM Industrial Services	Sales	888-276-0887	Cohoes
WM Biers, Inc.	Chuck Oliver	518-434-2747	Albany

**CARPET**

Company Name	Contact	Phone Number	City
ALPCO Recycling, Inc.	Sales	800-706-9449	Macedon
AquaTerraSys	Glenn Warren, PE	978-430-4977	Bolton Landing
Carpetcycle, LLC	Sales	908-353-5900	Elizabeth
Rug-Cycle	Jeremy Krasny	716-864-3875	Buffalo
Sierra Fibers	Dan Dorlon, III	518-433-0020	Albany
Sterling Recycling, Inc.	Sales	845-753-6666	Sloatsburg
Testani Recycling	Customer Service	516-328-1130	Westbury

**CHEMICAL SOLVENTS**

Company Name	Contact	Phone Number	City
Advanced Liquid Recycling, Inc.	Sales	800-582-5906	Cohoes
Advanced Recycling Technology, Inc.	Sales	800-999-1660	Hudson
Precision Industrial Maintenance	William Verhayden	888-888-7464	Schenectady
United Industrial Services	Sales	888-276-0887	Cohoes

**CHEMICAL WASTE**

Company Name	Contact	Phone Number	City
Advanced Liquid Recycling, Inc.	Sales	800-582-5906	Cohoes
Advanced Recycling Technology, Inc.	Sales	800-999-1660	Hudson
Precision Industrial Maintenance	William Verhayden	888-888-7464	Schenectady
Sullivan Co. Division of Solid Waste	Bill Cutler	845-794-4466	Monticello
United Industrial Services	Sales	888-276-0887	Cohoes

**DRINK BOXES/ASEPTIC**

Company Name	Contact	Phone Number	City
Adirondack Plastics & Recycling, Inc.	John Aspland	518-638-8960	Fort Edward
Emil Norsic & Son, Inc.	Stu	800-451-6875	Southampton
FCR Claverack	Angelo Porfirio	800-227-3552	Ghent
J.C. Paper Co., Inc.	Ronald Chugerman	845-454-2170	Poughkeepsie
Montgomery-Otsego-Schoharie Solid Waste Management Authority	G. L. Chichester	518-296-8884	Howes Cave
Sierra Fibers	Dan Dorlon, III	518-433-0020	Albany
Sterling Recycling, Inc.	Sales	845-753-6666	Sloatsburg
Ulster Co. Resource Recovery Agency	Laura Petit	845-336-0600	Kingston

**PLASTIC #2 HDPE - (continued)**

Company Name	Contact	Phone Number	City
Hudson Metal	Sales	518-465-3387	Albany
J.C. Paper Co., Inc.	Ronald Chugerman	845-454-2170	Poughkeepsie
JCS Distribution	Charles Lindsell		Central Valley
Sierra Fibers	Dan Dorlon, III	518-433-0020	Albany

**PLASTIC #3 PVC**

Company Name	Contact	Phone Number	City
Adirondack Plastics & Recycling, Inc.	John Aspland	518-638-8960	Argyle
Allied Waste Services of Albany	Bob Griffin	518-785-7030	Latham
B&R Specialties Inc	Dr. Robert Fried	845-889-4000	Staatsburg
Enstar Corporation	John Engster	518-279-4311	Troy
Fiber Conversion Inc	Nick Poot	518-883-3431	Broadalbin
Fulton County Recycling Center	Cindy Livingston	518-736-5501	Johnstown
Hudson Baylor Corporation	Straat Tenney	845-561-0167	Newburgh
Hudson Metal	Sales	518-465-3387	Albany
J.C. Paper Co., Inc.	Ronald Chugerman	845-454-2170	Poughkeepsie
JCS Distribution	Charles Lindsell		Central Valley
Sterling Recycling, Inc.	Sales	845-753-6666	Sloatsburg
Sullivan County Division of Solid Waste	Bill Cutler	845-794-4466 X301	Monticello
Thompson Sanitation	Chet Smith	845-796-1032	Rock Hill
Upland Industries	Michael Carman	518-357-0855	Schenectady



**PLASTIC #1 PET**

Company Name	Contact	Phone Number	City
Allied Waste Services of Albany	Bob Griffin	518-785-7030	Latham
Enstar Corporation	John Engster	518-279-4311	Troy
Fulton County Recycling Center	Cindy Livingston	518-736-5501	Johnstown
Gemark Corp	Trudy Batelic	845-561-1720	Newburgh
Hudson Baylor Corporation	Straat Tenney	845-561-0167	Newburgh
Hudson Metal	Sales	518-465-3387	Albany
J.C. Paper Co., Inc.	Ronald Chugerman	845-454-2170	Poughkeepsie
Lahr Recycling & Resins	Craig Lahr	585-425-8608	Fairport
Lake Placid Disposal Service Inc.	Ann Marie Trombley	518-523-3554	Lake Placid
Montgomery-Otsego-Schoharie Solid Waste Management Authority	Attendant	518-296-8884	Oneonta
Royal Carting Service	Sales	800-522-7235	Hopewell Junction
Sierra Fibers	Dan Dorlon, III	518-433-0020	Albany
Sterling Recycling, Inc.	Sales	845-753-6666	Sloatsburg
Sullivan Co. Division of Solid Waste	Bill Cutler	845-794-4466	Monticello
Thompson Sanitation	Chet Smith	845-796-1032	Rock Hill
Town of Colonie	Joseph Stockbridge	518-783-2826	Cohoes
Ulster Co. Resource Recovery Agency	Laura Petit	845-336-0600	Kingston
UltrePET, LLC	Paul Zordan	518-459-1080	Albany
Upland Industries	Michael Carman	518-357-0855	Schenectady
Waste Stream Management	Ann Marie Trombley	518-483-4746	Malone

**PLASTIC #2 HDPE**

Company Name	Contact	Phone Number	City
Adirondack Plastics & Recycling, Inc.	John Aspland	518-638-8960	Argyle
Allied Waste Services of Albany	Bob Griffin	518-785-7030	Latham
B&R Specialties Inc	Dr. Robert Fried	845-889-4000	Staatsburg
CRP Sanitation	Attendant	914-592-4129	Peekskill
Enstar Corporation	John Engster	518-279-4311	Troy
FCR Claverack	Angelo Porfirio	800-227-3552	Ghent
Fiber Conversion Inc	Nick Poot	518-883-3431	Broadalbin
Fulton County Recycling Center	Cindy Livingston	518-736-5501	Johnstown
Hudson Baylor Corporation	Straat Tenney	845-561-0167	Newburgh

**ELECTRONICS**

Company Name	Contact	Phone Number	City
Advanced Recycling Technology, Inc.	Sales	800-999-1660	Hudson
Asset Management & Control	Nick Magliato	845-236-6650	Marlborough
Edison Computers, Inc.	Ahren Edison	866-432-9311	Oneonta
Asset Management & Control	Nick Magliato	845-236-6650	Marlborough
Edison Computers, Inc.	Ahren Edison	866-432-9311	Oneonta
eLot Electronics Recycling, Inc.	Sales	518-266-9385	Troy
ERC Community Warehouse	Joanna Decker	518-686-7540	Hoosick Falls
Hudson Metal	Sales	518-465-3387	Albany
Itek Computer Recycling	David Stinner	716-447-7000	Buffalo
LifeSpan Technology Recycling	Sales	888-720-0900	Albany
Mercury Refining Co. Inc.	Leon Cohen	800-833-3505	Albany
Montgomery-Otsego-Schoharie	G. L. Chichester	518-296-8884	Howes Cave
PlastiCycle Corporation	Joseph Cirillo	914-997-6882	White Plains
Precision Industrial Maintenance	William Verhayden	888-888-7464	Schenectady
SunnKing, Inc.	Manager	877-860-7866	Albany
Waste Management & Recycling	Peter Bennison	518-377-9900	Scotia

**FERROUS**

Company Name	Contact	Phone Number	City
All Recycling, Inc.	Sales	845-562-0216	Newburgh
Amsterdam Wrecking & Salvage	Steve Skee	518-842-1400	Amsterdam
County Waste & Recycling Services	G. Houk	518-877-7007	Halfmoon
Hudson Metal	Sales	518-465-3387	Albany
Montgomery-Otsego-Schoharie	G. L. Chichester	518-296-8884	Howes Cave
RK Freedman	Sales	518-273-1142	Albany
Sierra Fibers	Dan Dorlon, III	518-433-0020	Albany
Sterling Recycling, Inc.	Sales	845-753-6666	Sloatsburg

**FLUORESCENT OR HID LAMP**

Company Name	Contact	Phone Number	City, State
Advanced Environmental Recycling	Michelle Towler	610-797-7608	Allentown, PA
American Lamp Recycling, LLC	Robert Boil	800-315-6262	Fishkill, NY
Bethlehem Apparatus		610-838-7034	Hellertown, PA
Complete Recycling Solutions, LLC	Sales	508-402-7700	Fall River, MA
Corporate Lamp Recycling	Sales	610-444-0688	Kennett Square, PA
Earth Protection Services, Inc.	David Vhilcott	800-588-7190	Lancaster, PA
Eastern Environmental, Inc.		800-808-PCBS	Port Chester, NY
Frey-Electric Construction, Co.	Bob Synder	716-874-1710	Tonawanda, NY
International Marine Salvage, Inc.	Marie Gilmore	905-835-1203	Port Colborne, ON
Northeast Lamp Recycling, Inc.	Steven Rorick	860-292-1992	East Windsor, CT
Partners in Planet Protection			Kennett Square, PA
PMC Recycling Corp.		718-518-9800	Bronx, NY
Veolia Environmental Services	Sandy	800-556-5267	Stoughton, MA
Waste Management & Recycling Products, Inc.	Sales	518-377-9900	Scotia, New York
We Recycle!, Inc.		877-937-3292	Meriden, CT

**GLASS**

Company Name	Contact	Phone Number	City
Advanced Recovery, Inc.	Sales	866-794-8050	Port Jervis
Andela Products, Ltd.	Cynthia Andela	315-858-0055	Richfield Springs
County Waste & Recycling Services	G. Houk	518-877-7007	Halfmoon
CRP Sanitation	Attendant	914-592-4129	Peekskill
Edison Computers, Inc.	Ahren Edison	866-432-9311	Oneonta
FCR Claverack	Angelo Porfirio	800-227-3552	Ghent
Montgomery-Otsego-Schoharie Solid Waste Management Authority	G. L. Chichester	518-296-8884	Howes Cave
Royal Carting Service	Sales	800-522-7235	Hopewell Junction
Sierra Fibers	Dan Dorlon, III	518-433-0020	Albany
Sterling Recycling, Inc.	Sales	845-753-6666	Sloatsburg
Trilogy Glass	Stephen Klemann	585-526-4789	Stanley
WM Biers, Inc.	Chuck Oliver	518-434-2747	Albany

**PAPER-SORTED OFFICE (continued)**

Company Name	Contact	Phone Number	City
Sterling Recycling, Inc.	Sales	845-753-6666	Sloatsburg
Sullivan Co. Division of Solid Waste	Bill Cutler	845-794-4466	Monticello
Syracuse Materials Recovery	Joe T.	315-476-0800	Syracuse
T.A. Predel & Sons	Mary Predel	518-346-3445	Schenectady
Thompson Sanitation	Chet Smith	845-796-1032	Rock Hill
Town of Colonie	Joseph Stockbridge	518-783-2826	Comes
Ulster Co. Resource Recovery Agency	Laura Petit	845-336-0600	Kingston
Waste Stream Management	Ann Marie Trombley	518-483-4746	Malone

**PLASTIC-BOTTLE LAW REDEEMABLE**

Company Name	Contact	Phone Number	City
ALPCO Recycling, Inc.	Sales	800-706-9449	Macedon
American Recycling & Manuf. Co., Inc.	Joseph Meindl	585-235-2210	Rochester
Confidential Services	John Shatraw	315-386-1206	Canton
CRP Sanitation	Attendant	914-592-4129	Peekskill
Metropolitan Paper Recycling, Inc.	Glen Murray	718-257-0261	Brooklyn
Royal Carting Service	Sales	800-522-7235	Hopewell Junction
SunnKing, Inc.	Sales	877-860-7866	Brockport
Taylor Garbage Service, Inc.	Sales	607-797-5277	Owego

**PLASTIC-FILM**

Company Name	Contact	Phone Number	City
Barkley World Trade/International Recycling of America, Ltd.	Spencer Sharwell	516-671-7100	Glen Cove
Blackrock Plastics, LLC	Brendan Murray	646-278-6731	New York
Buffalo Polymer Processing/Staroba Plastics & Metals	Miro Staroba	716-537-3153	Holland
Domino Plastics Company, Inc.	Mike Domino	631-642-1995	Setauket
Great Lakes Paper Fibres Corp.	Nick Nemeti	716-854-3232	Buffalo

## PAPER-RESIDENTIAL MIX (continued)

Company Name	Contact	Phone Number	City
Montgomery-Otsego-Schoharie Solid Waste Management Authority	Attendant	518-296-8884	Oneonta
Naef Recycling, LLC	Sales	315-463-7266	East Syracuse
Natural Environmental, Inc.	Bob VanMeter	800-227-3552	Blasdell
Perkins Recycling Corporation	Jeff Davis	518-798-4041	Queensbury
Sierra Fibers	Sales	518-433-0020	Schenectady
Sterling Recycling, Inc.	Sales	845-753-6666	Sloatsburg
Sullivan Co. Division of Solid Waste	Bill Cutler	845-794-4466	Monticello
T.A. Predel & Sons	Mary Predel	518-346-3445	Schenectady
Thompson Sanitation	Chet Smith	845-796-1032	Rock Hill
Town of Colonie	Joseph Stockbridge	518-783-2826	Cohoes
Ulster Co. Resource Recovery Agency	Laura Petit	845-336-0600	Kingston
Waste Stream Management	Ann Marie Trombley	518-483-4746	Malone

## PAPER-SORTED OFFICE

Company Name	Contact	Phone Number	City
Adirondack Plastics & Recycling, Inc.	John Aspland	518-638-8960	Argyle
Allied Waste Services of Albany	Bob Griffin	518-785-7030	Latham
Ash Trading Corporated	Irwin Margolis	518-463-6666	Menands
Bennington Paperboard Company	Procurement	518-686-7357	North Hoosick
CRP Sanitation	Attendant	914-592-4129	Peekskill
FCR Claverack	Angelo Porfirio	800-227-3552	Ghent
Finch Paper, LLC.	Everett O'Neill	800-833-9983	Glens Falls
Fulton County Recycling Center	Cindy Livingston	518-736-5501	Johnstown
Hudson Baylor Corporation	Straat Tenney	845-561-0167	Newburgh
Hudson Metal	Sales	518-465-3387	Albany
J.C. Paper Co., Inc.	Ronald Chugerman	845-454-2170	Poughkeepsie
Jordan Trading Inc.	Elisabeth Jordan	845-338-5379	Kingston
Montgomery-Otsego-Schoharie Solid Waste Management Authority	Attendant	518-296-8884	Oneonta
Nathan Kelman Inc.	Fran Kelman	518-237-5133	Cohoes
Northeast Data Destruction & Recycling	Mark Wachtel	845-331-5554	Kingston
Perkins Recycling Corporation	Jeff Davis	518-798-4041	Queensbury
Sierra Fibers	Sales	518-433-0020	Schenectady

## HAZARDOUS WASTE

Company Name	Contact	Phone Number	City
Advanced Liquid Recycling, Inc.	Sales	800-582-5906	Cohoes
Precision Industrial Maintenance	William Verhayden	888-888-7464	Schenectady
United Industrial Services	Sales	888-276-0887	Cohoes

## INDUSTRIAL BYPRODUCTS

Company Name	Contact	Phone Number	City, State
Bayshore Recycling Corporation	Sales	732-738-6000	Keasbey, NJ
Advanced Recycling Technology, Inc.	Sales	800-999-1660	Hudson

## MIXED CONTAINERS

Company Name	Contact	Phone Number	City
Allied Waste Services of Albany	Bob Griffin	518-785-7030	Latham
County Waste & Recycling Services	G. Houk	518-877-7007	Halfmoon
FCR Claverack	Angelo Porfirio	800-227-3552	Ghent
Fulton County Recycling Center	Cindy Livingston	518-736-5501	Johnstown
Hudson Baylor Corporation	Straat Tenney	845-561-0167	Newburgh
Montgomery-Otsego-Schoharie Solid Waste Management Authority	Attendant	518-296-8884	Oneonta
Sierra Fibers	Dan Dorlon, III	518-433-0020	Albany
Sterling Recycling, Inc.	Sales	845-753-6666	Sloatsburg
Sullivan Co. Division of Solid Waste	Bill Cutler	845-794-4466	Monticello
Thompson Sanitation	Chet Smith	845-796-1032	Rock Hill
Town of Colonie	Joseph Stockbridge	518-783-2826	Cohoes
Ulster Co. Resource Recovery Agency	Laura Petit	845-336-0600	Kingston
Waste Stream Management	Ann Marie Trombley	518-483-4746	Malone



**MIXED PLASTIC**

Company Name	Contact	Phone Number	City
Allied Waste Services of Albany	Bob Griffin	518-785-7030	Latham
County Waste & Recycling Services	G. Houk	518-877-7007	Halfmoon
FCR Ontario	Stephen Klemann	585-526-4789	Stanley
Fulton County Recycling Center	Cindy Livingston	518-736-5501	Johnstown
Hudson Metal	Sales	518-465-3387	Albany
Montgomery-Otsego-Schoharie Solid	G. L. Chichester	518-296-8884	Howes Cave
Sierra Fibers	Dan Dorlon, III	518-433-0020	Albany
Sterling Recycling, Inc.	Sales	845-753-6666	Sloatsburg
Sullivan Co. Division of Solid Waste	Bill Cutler	845-794-4466	Monticello
Thompson Sanitation	Chet Smith	845-796-1032	Rock Hill
Upland Industries	Michael Carman	518-357-0855	Schenectady

**NON-FERROUS**

Company Name	Contact	Phone Number	City
Advanced Recovery, Inc.	Sales	866-794-8050	Port Jervis
Advanced Recycling Technology, Inc.	Sales	800-999-1660	Hudson
All Recycling, Inc.	Sales	845-562-0216	Newburgh
Empire Recycling Corporation	Steven	315-724-7161	Utica
FCR Claverack	Angelo Porfirio	800-227-3552	Ghent
Hudson Metal	Sales	518-465-3387	Albany
Montgomery-Otsego-Schoharie Solid Waste Management Authority	G. L. Chichester	518-296-8884	Howes Cave
RK Freedman	Sales	518-273-1142	Albany
Royal Carting Service	Sales	800-522-7235	Hopewell Junction
Sierra Fibers	Dan Dorlon, III	518-433-0020	Albany
Sterling Recycling, Inc.	Sales	845-753-6666	Sloatsburg
Thompson Sanitation	Chet Smith	845-796-1032	Rock Hill
Universal Metal & Ore	Sales	914-664-0200	Mt. Vernon
Valley View Organics, Inc.	Alexander Kasper	845-526-0956	Putnam Valley

**PAPER - NEWSPAPER (continued)**

Company Name	Contact	Phone Number	City
Oneida Herkimer Solid Waste Management Authority	David Lupinski	315-733-1224	Utica
Perkins Recycling Corporation	Jeff Davis	518-798-4041	Queensbury
Royal Carting Service	Sales	800-522-7235	Hopewell Junction
Sierra Fibers	Sales	518-433-0020	Schenectady
Sterling Recycling, Inc.	Sales	845-753-6666	Sloatsburg
Sullivan Co. Division of Solid Waste	Bill Cutler	845-794-4466	Monticello
T.A. Predel & Sons	Mary Predel	518-346-3445	Schenectady
Town of Colonie	Joseph Stockbridge	518-783-2826	Cohoes
Ulster Co. Resource Recovery Agency	Laura Petit	845-336-0600	Kingston
Waste Stream Management	Ann Marie Trombley	518-483-4746	Malone

**PAPER-OTHER**

Company Name	Contact	Phone Number	City
Bennington Paperboard Company	Procurement	518-686-7357	North Hoosick
Finch Paper, LLC.	Everett O'Neill	800-833-9983	Glens Falls
Mohawk Paper Mills, Inc.	Procurement	800-843-6455	Cohoes
SCA Tissue -- North America	Kyle Brock	518-793-5684	South Glens Falls

**PAPER-RESIDENTIAL MIX**

Company Name	Contact	Phone Number	City
Adirondack Plastics & Recycling, Inc.	John Aspland	518-638-8960	Fort Edward
Allied Waste Services of Albany	Bob Griffin	518-785-7030	Latham
Ash Trading Corporated	Irwin Margolis	518-463-6666	Menands
Bennington Paperboard Company	Procurement	518-686-7357	North Hoosick
County Waste & Recycling Services	G. Houk	518-877-7007	Halfmoon
FCR Claverack	Angelo Porfirio	800-227-3552	Ghent
Fulton County Recycling Center	Cindy Livingston	518-736-5501	Johnstown
Hudson Baylor Corporation	Straat Tenney	845-561-0167	Newburgh
Hudson Metal	Sales	518-465-3387	Albany
J.C. Paper Co., Inc.	Ronald Chugerman	845-454-2170	Poughkeepsie
Jordan Trading Inc.	Elisabeth Jordan	845-338-5379	Kingston

**PAPER - MIXED OFFICE PAPER (continued)**

Company Name	Contact	Phone Number	City
Fulton County Recycling Center	Cindy Livingston	518-736-5501	Johnstown
Hudson Baylor Corporation	Straat Tenney	845-561-0167	Newburgh
Hudson Metal	Sales	518-465-3387	Albany
J.C. Paper Co., Inc.	Ronald Chugerman	845-454-2170	Poughkeepsie
Jordan Trading Inc.	Elisabeth Jordan	845-338-5379	Kingston
Montgomery-Otsego-Schoharie Solid Waste Management Authority	G. L. Chichester	518-296-8884	Howes Cave
Nathan Kelman Inc.	Fran Kelman	518-237-5133	Cohoes
Northeast Data Destruction & Recycling	Mark Wachtel	845-331-5554	Kingston
Perkins Recycling Corporation	Jeff Davis	518-798-4041	Queensbury
SCA Tissue -- North America	Kyle Brock	518-793-5684	So. Glens Falls
Sierra Fibers	Dan Dorlon, III	518-433-0020	Albany
Sterling Recycling, Inc.	Sales	845-753-6666	Sloatsburg
T.A. Predel & Sons	Mary Predel	518-346-3445	Schenectady
Town of Colonie	Joseph Stockbridge	518-783-2826	Cohoes

**PAPER - NEWSPAPER**

Company Name	Contact	Phone Number	City
Adirondack Plastics & Recycling, Inc.	John Aspland	518-638-8960	Argyle
Allied Waste Services of Albany	Bob Griffin	518-785-7030	Latham
Ash Trading Corporated	Irwin Margolis	518-463-6666	Menands
Bennington Paperboard Company	Procurement	518-686-7357	North Hoosick
Fulton County Recycling Center	Cindy Livingston	518-736-5501	Johnstown
Hudson Baylor Corporation	Straat Tenney	845-561-0167	Newburgh
Hudson Metal	Sales	518-465-3387	Albany
J.C. Paper Co., Inc.	Ronald Chugerman	845-454-2170	Poughkeepsie
Jordan Trading Inc.	Elisabeth Jordan	845-338-5379	Kingston
Montgomery-Otsego-Schoharie Solid Waste Management Authority	Attendant	518-296-8884	Oneonta
Nathan Kelman Inc.	Fran Kelman	518-237-5133	Cohoes
Northeast Data Destruction & Recycling, LLC	Mark Wachtel	845-331-5554	Kingston
Northern Recycling Facility	Chris Dolce	845-294-3789	Goshen
Omni Recycling of Babylon	Michael Coletta		West Babylon

**ORGANIC WASTE**

Company Name	Contact	Phone Number	City
Baker Commodities Inc.	Steve Twitchell	315-458-4901	E. Syracuse
Bayshore Recycling Corporation	Sales	732-738-6000	Keasbey
AquaTerraSys	Glenn Warren, PE	978-430-4977	Bolton Landing
Cayuga Compost	Mark Wittig	607-387-6826	Trumansburg
Cornell University Farm Services	Andrew Lewis	607-423-6145	Ithaca
Emil Norsic & Son, Inc.	Stu	800-451-6875	Southampton
Food Not Bombs--NYC	Leah Blanchard	212-254-3697	New York
Guptill/Toad Hollow Farms	Bill Guptill	315-345-5451	Nedrow
JC Rendering	Sales	315-732-5759	Frankfort
Liotta Brothers Recycling Corp	Sales	516-432-7085	Oceanside
McEnroe Organic Farm Assoc., LLC	Raymond McEnroe	518-789-3252	Millerton
Misty Hills Farm, LLC	Herbert Headwell	518-279-3886	Troy
Mother Natures Farms	John Crockett	845-225-7763	Carmel
MOPAC Rendering Headquarters	Chappie Shelly	800-967-8325	Babylon
Outstanding Renewal Enterp. Inc.	Christina Datz-Romero	212-477-4022	New York
Parallel Products, Inc.	Ed Stewart	718-585-2030	Bronx
Postma Brothers Farm	Robert Smith	315-698-9342	New Berlin
Southern Tier Hide & Tallow, Inc.	Barb	607-734-3661	Elmira
The Ketcham Group	Sales	631-368-4000	Kings Park
Valley View Organics, Inc.	Alexander Kasper	845-526-0956	Putnam Valley
Western Mass Rendering Co.	Sales	413-569-6265	Southwick
WM Biers, Inc.	Chuck Oliver	518-434-2747	Albany

**PAPER - BOOKS**

Company Name	Contact	Phone Number	City
Adirondack Plastics & Recycling, Inc.	John Aspland	518-638-8960	Argyle
Advanced Recovery, Inc.	Sales	866-794-8050	Port Jervis
Ash Trading Corporated	Irwin Margolis	518-463-6666	Menands
FCR Claverack	Angelo Porfirio	800-227-3552	Ghent
Fulton County Recycling Center	Cindy Livingston	518-736-5501	Johnstown
Hudson Metal	Sales	518-465-3387	Albany
J.C. Paper Co., Inc.	Ronald Chugerman	845-454-2170	Poughkeepsie
Montgomery-Otsego-Schoharie Solid Waste Management Authority	G. L. Chichester	518-296-8884	Howes Cave
Nathan Kelman Inc.	Fran Kelman	518-237-5133	Cohoes
Perkins Recycling Corporation	Jeff Davis	518-798-4041	Queensbury
Sierra Fibers	Dan Dorlon, III	518-433-0020	Albany
Sterling Recycling, Inc.	Sales	845-753-6666	Sloatsburg
Sullivan Co. Division of Solid Waste	Bill Cutler	845-794-4466	Monticello
Thompson Sanitation	Chet Smith	845-796-1032	Rock Hill
Town of Colonie	Joseph Stockbridge	518-783-2826	Cohoes
Ulster Co. Resource Recovery Agency	Laura Petit	845-336-0600	Kingston

**PAPER - CARDBOARD**

Company Name	Contact	Phone Number	City
Adirondack Plastics & Recycling, Inc.	John Aspland	518-638-8960	Argyle
Advanced Recovery, Inc.	Sales	866-794-8050	Port Jervis
Allied Waste Services of Albany	Bob Griffin	518-785-7030	Latham
Ash Trading Corporated	Irwin Margolis	518-463-6666	Menands
County Waste & Recycling Services	G. Houk	518-877-7007	Halfmoon
CRP Sanitation	Attendant	914-592-4129	Peekskill
FCR Claverack	Angelo Porfirio	800-227-3552	Ghent
Fulton County Recycling Center	Cindy Livingston	518-736-5501	Johnstown
Hudson Baylor Corporation	Straat Tenney	845-561-0167	Newburgh
Hudson Metal	Sales	518-465-3387	Albany
J.C. Paper Co., Inc.	Ronald Chugerman	845-454-2170	Poughkeepsie
Jordan Trading Inc.	Elisabeth Jordan	845-338-5379	Kingston
Lake Placid Disposal Service Inc.	Ann Marie Trombley	518-523-3554	Lake Placid

**PAPER - CARDBOARD (continued)**

Company Name	Contact	Phone Number	City
Montgomery-Otsego-Schoharie Solid Waste Management Authority	G. L. Chichester	518-296-8884	Howes Cave
Northeast Data Destruction & Recycling	Mark Wachtel	845-331-5554	Kingston
Northern Recycling Facility	Chris Dolce	845-294-3789	Goshen
Perkins Recycling Corporation	Jeff Davis	518-798-4041	Queensbury
Royal Carting Service	Sales	800-522-7235	Hopewell Junction
STOPCO	Mark Shaw	518-686-7897	Hoosick Falls
Sierra Fibers	Dan Dorlon, III	518-433-0020	Albany
Sterling Recycling, Inc.	Sales	845-753-6666	Sloatsburg
Sullivan Co. Division of Solid Waste	Bill Cutler	845-794-4466	Monticello
T.A. Predel & Sons	Mary Predel	518-346-3445	Schenectady
Thompson Sanitation	Chet Smith	845-796-1032	Rock Hill
Town of Colonie	Joseph Stockbridge	518-783-2826	Cohoes
Upland Industries	Michael Carman	518-357-0855	Schenectady

**PAPER - CONFIDENTIAL DOCUMENTS**

Company Name	Contact	Phone Number	City
Allied Waste Services of Albany	Bob Griffin	518-785-7030	Latham
Hudson Baylor Corporation	Straat Tenney	845-561-0167	Newburgh
Hudson Metal	Sales	518-465-3387	Albany
J.C. Paper Co., Inc.	Ronald Chugerman	845-454-2170	Poughkeepsie
Perkins Recycling Corporation	Jeff Davis	518-798-4041	Queensbury
Sierra Fibers	Dan Dorlon, III	518-433-0020	Albany
T.A. Predel & Sons	Mary Predel	518-346-3445	Schenectady

**PAPER - MIXED OFFICE PAPER**

Company Name	Contact	Phone Number	City
Adirondack Plastics & Recycling, Inc.	John Aspland	518-638-8960	Argyle
Allied Waste Services of Albany	Bob Griffin	518-785-7030	Latham
Ash Trading Corporated	Irwin Margolis	518-463-6666	Menands
County Waste & Recycling Services	G. Houk	518-877-7007	Halfmoon
CRP Sanitation	Attendant	914-592-4129	Peekskill
FCR Claverack	Angelo Porfirio	800-227-3552	Ghent
Finch Paper, LLC.	Everett O'Neill	800-833-9983	Glens Falls

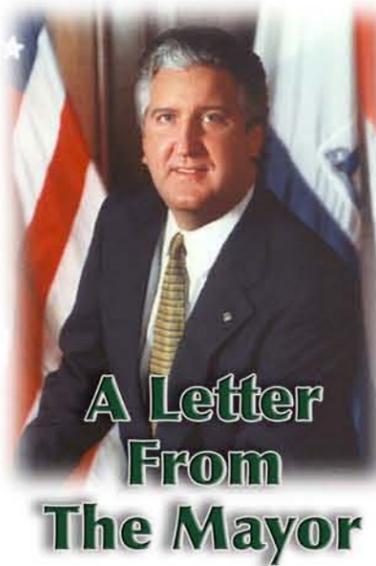
Visit our web site at: [www.albany.org](http://www.albany.org)  
 Nicholas J. D'Antonio, Deputy Commissioner  
 Willard A. Bruce, Commissioner  
 Gerald D. Jennings, Mayor  
 Department of General Services (DGS)

# Waste Collection & Recycling Program



**City of Albany**  
 Department of General Services (DGS)  
 One Conners Boulevard  
 Albany, New York 12204

PRSRT STD  
 US POSTAGE  
 PAID  
 ALBANY NY  
 PERMIT # 164



## A Letter From The Mayor

Dear Resident,

The City of Albany provides one of the most comprehensive waste collection and recycling programs in New York State. Our programs have been successful thanks in large part to the cooperation of our residents.

For more than ten years, we have continued to decrease the amount of waste brought to our landfill. Today, nearly one third of the waste generated within the City is recycled. We remain committed to recycling for our solid waste management. We offer a number of special waste collection programs and initiatives to increase awareness of this important program and the benefits for our community. Choosing to recycle is clearly good for our health, economy and environment.

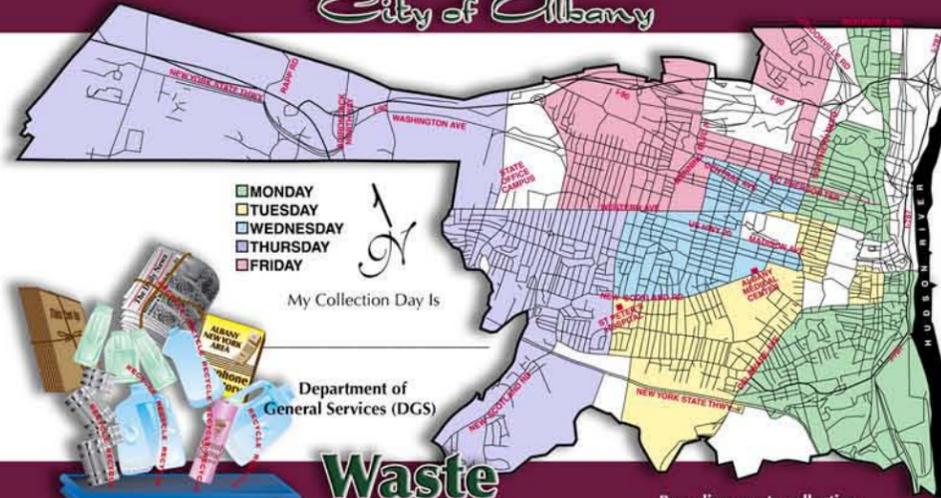
This brochure outlines Albany's Trash and Recycling Guidelines. Please keep it handy for your reference. I thank you for your on-going participation and ask that you continue to help keep New York's Capital City a clean and environmentally friendly community.

Sincerely,

*Gerald D. Jennings*

Gerald D. Jennings

## City of Albany



- MONDAY
- TUESDAY
- WEDNESDAY
- THURSDAY
- FRIDAY

My Collection Day Is

Department of General Services (DGS)



## Waste Collection Program

Recycling, waste collection,  
 24 hour emergency, information: 432-1144  
 visit our web site: [www.albany.org](http://www.albany.org)

Gerald D. Jennings, Mayor  
 Willard A. Bruce, Commissioner  
 Nicholas J. D'Antonio, Deputy Commissioner

# City of Albany Waste Collection Program

### Your collection day is \_\_\_\_\_

The City of Albany only collects trash and recycling from residential dwellings with (4) four or less units located on a single property. All others, including mixed occupancy buildings, must contract for private collection.

Trash, recyclables, yard waste and bulky items must be placed curbside not before 7:00 p.m. and/or dusk but before 12 midnight the evening prior to your collection day.

The purpose of Albany's waste collection and recycling program is to collect normal weekly-generated trash and recycling. Excessive quantities of trash and recycling are subject to billing and a fine up to \$250.00.

- All **Holidays** will have normal trash and recycling pickup.
- All garbage must be containerized using heavy-duty plastic bags, metal or plastic containers. Such metal or plastic containers shall have a maximum volume of 50 gallons and shall be fitted with lids. If you wish to dispose of a broken or damaged garbage container, please label "CONTAINER BROKEN, PLEASE DISPOSE" on the outside of the container.
- A recycling bin (provided by the city) for containers (glass/metal/plastic) and mixed paper must be used.
- The containers (glass/metal/ #1 & #2 plastics) must be clean and placed loosely in the bottom of your recycling bin. Broken glass is **not** recyclable and should be independently wrapped and placed with regular household trash. Only #1 & #2 plastic in the form of a bottle or jug can be recycled. A simple rule is to **look for the neck**; if the plastic container has a neck, it can be recycled.
- NO PLASTIC BAGS PLEASE!**
- Mixed paper, which can include almost all types of paper (such as newspaper, magazines and phone books), must be tied, placed in a paper bag, or placed loosely inside of the recycling bin on top of the loose recyclables. **Plastic Bags are not accepted.** Papers in a paper bag can be placed on top of the recycling bin.
- Cardboard must be flattened and tied no longer than 3 feet x 2 feet.
- Yard waste for city collection must be placed in a biodegradable paper bag and placed curbside the evening prior to your collection day. Grass and leaves only. **No dirt or stones.** Branches must be bundled and tied together and should not exceed 4 feet 4 inches long. Yard waste will not be collected unless it is placed in a paper biodegradable bag.

- Absolutely no plastic bags.**
- Trash cans and recycling bins are not permitted to be stored in public view.
- Residential construction debris will be picked up as long as the following is adhered to:
  - It must be neatly containerized in boxes, bags, metal or plastic cans, or tied in bundles. All of which, must be manageable by (1) one person.
  - Loading the debris into collection vehicles should take laborers no more than (4) four trips between the debris piles and the vehicle.
  - Building debris should be placed curbside no more than (2) two times per month on your scheduled collection day.
- Bulky items, such as tires and white goods (refrigerators, washing machines, hot water tanks, etc), must be placed curbside the evening prior to your collection day. Please call the Department of General Services at 434-CITY (2489) at least 24 hours prior to setting out these materials. **BE AWARE:** Doors must be removed from refrigerators and freezers.
- It's the law!**
- Household hazardous waste and medical waste is **not** accepted curbside however the City of Albany sponsors (11) eleven **FREE** household hazardous waste drop off events each year. Call the **Department of General Services at 434-CITY (2489)** for dates and a list of acceptable materials.

TRIM HERE AND SAVE THIS SECTION

**FOR BULKY ITEMS**  
 CALL 24 HOURS BEFORE COLLECTION DAY  
 434-CITY

# Waste Collection Enforcement & City Code Reminders

- The purpose of Albany's waste collection and recycling program is to collect normal weekly-generated household trash and recycling. Excessive quantities of trash and recycling placed curbside are subject to billing and a fine. (Code: 313-8)
- Residential construction debris will be picked up curbside as long it is neatly containerized, manageable by 1 person, able to be loaded into a collection vehicle and takes laborers no more than 4 trips between the pile and the vehicle. These items should be placed curbside not before 7 p.m. and/or dusk but before 12 midnight the evening prior to your collection day. Building material should not be placed curbside more than twice a month. (Code: 313-8)
- Prior to placement for collection, all waste containers and waste stored in plastic bags for weekly pickup must be stored in areas away from front yards, sidewalks, or other public right of ways affecting the visual and aesthetic character of city streetscapes. (Code: 313-8)
- All properties and/or adjoining public ways in the City of Albany must be maintained free of litter, debris and excessive accumulation of animal waste. (Code: 313-47)
- All properties must be maintained free of heavy overgrowth and/or accumulation of weeds. (Code: 313-51.1)
- At no time should leaves, grass clippings and other yard waste debris be raked into the street. These items should be placed in a biodegradable paper bag and placed curbside not before 7 p.m. and/or dusk but before 12 midnight the evening prior to your collection day. **No Plastic Bags Please.** (Code: 313-4B)
- It is the responsibility of all property owners to remove snow and ice from the sidewalks adjacent to their property within 24 hours of the end of a snowstorm. (Code: 323-21/22)
- In no event shall snow, by anyone, be shoveled, plowed or snow blown into the city streets, carriageways, or crosswalks for removal. (Code: 323-21)

Violators of these codes can be subject to a fine up to \$250.00 plus cost of cleanup.

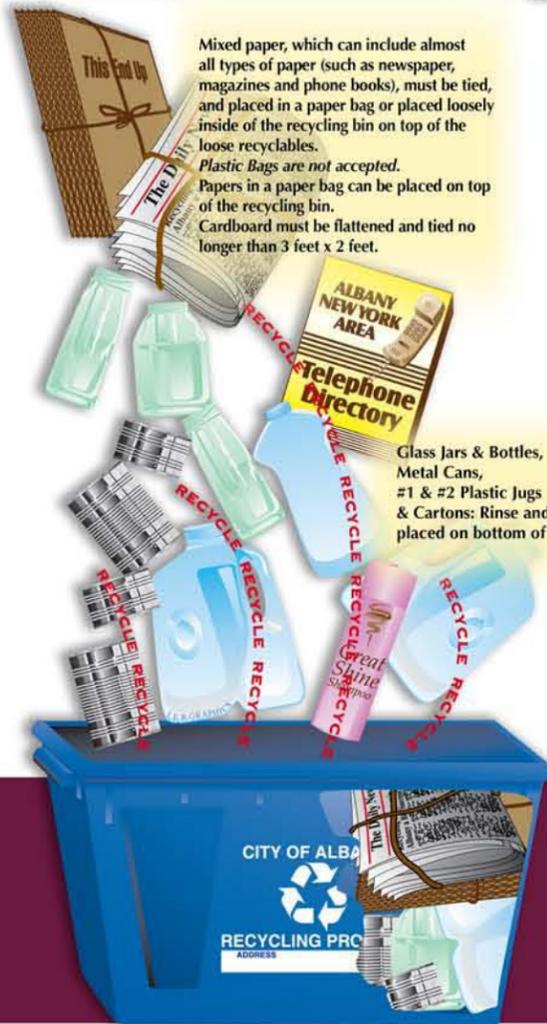
## Important Phone Numbers

**Department of General Services**  
 Administrative Office 432-1144  
 City of Albany Landfill 869-3651

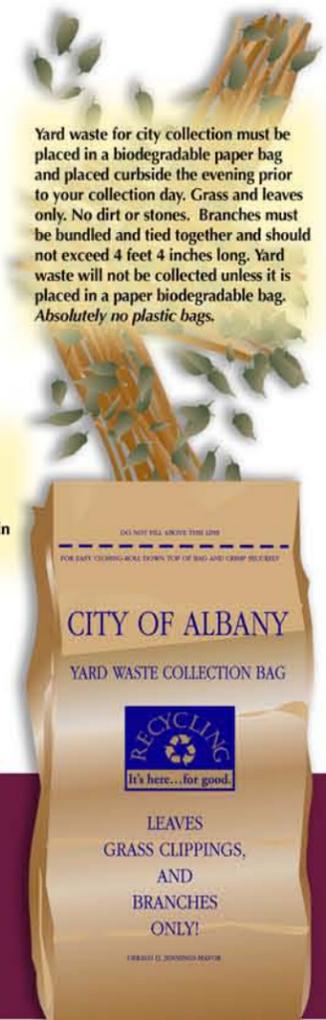
Recycling, waste collection,  
 24 hour emergency, information  
 434-CITY (2489)  
 visit our web site: [www.albanyny.org](http://www.albanyny.org)

TRIM HERE AND SAVE THIS SECTION

## Recycling Bins



## Yard Waste Bags & Bundles



## Bulky Recyclables & Bulky Trash

Bulky Recyclables: Such as tires and white goods (refrigerators, washing machines, hot water tanks, etc.) must be placed curbside the evening prior to your collection day.



## Trash & Rubbish

Trash: Must be bagged & tied or placed in a trash can no larger than 50 gallons.



**Attachment 6**  
**Albany Area Solid Waste Management Plan Modification**  
**Solid Waste Generation**

At this time, there is no single method of recordkeeping maintained on a regular basis by which the quantity of waste generated for recycling or disposal within the Planning Unit can be definitively determined. As a result, it is necessary to estimate waste generation and recycling from a variety of sources.

The original Solid Waste Management Plan included a solid waste stream evaluation based on US Census data through 1980, ANSWERS scale house records from 1981 through 1988, data collected through a field survey and a municipal survey in 1989, among other sources. These estimates are now out of date. This Solid Waste Management Plan Modification utilized more current information available from the same or similar sources, as the basis for preparing this evaluation of solid waste generation. A field survey of solid waste composition was not conducted as part of this evaluation, but will be included in the near future as part of the evaluation that will be conducted as part of the development of the New SWMP.

With respect to waste generation, one estimation method that can be used is described in Section 2.3.1 of the Draft Supplemental Environmental Impact Statement DSEIS for the Eastern Expansion. Using statewide solid waste generation data for 2004 published by the New York State Department of Environmental Conservation (NYSDEC) and dividing by statewide population, Clough Harbour & Associates (CHA) estimates an average daily waste generation rate of 10.6 lbs per person per day. This is somewhat less than, but comparable to reported waste generation rates in several neighboring states including Massachusetts (11.9 lbs/person/day) and New Jersey (12.44 lbs/person/day). It is important to note that these per capita generation rates are not limited to just municipal solid waste (MSW), but represent a larger subset of the waste stream including Construction and Demolition (C&D) debris and, non-hazardous industrial waste, among others.

As noted in the DSEIS, using this average daily waste generation rate multiplied times the estimated population of the communities within the planning unit yields and total waste generation rate of 392,506 tons per year, or 1,075 tons per day on a 365 day basis. This waste generation estimate includes not only waste that is destined for disposal, but also waste that is re-used or recycled.

A more detailed discussion of the major waste stream components which are the subject of this SWMP Modification is presented below.

**Municipal Solid Waste (MSW) Generation**

Another often cited source for estimating waste generation is the USEPA, which has studied the quantity and quality of the MSW stream since the late 1980s. Based upon its most recent report, USEPA estimates a MSW generation rate of 4.54 pounds per person per day (USEPA, October 2006). While this generation rate is less than half of the overall New York State waste generation rate cited above, the USEPA rate relates only to MSW and excludes other waste stream components. As such, it does not accurately represent the total waste stream that is being considered as part of this SWMP Modification. Furthermore, because the USEPA estimates are developed based on economic data for the entire United States, and are averaged over urban, suburban and rural populations, these nationwide MSW generation estimates are believed to under-represent the amount of MSW expected to be generated in a major employment center like the City of Albany.

For example, based on data tabulated by the New York State Office of General Services (OGS) on waste generation and recycling by the approximately 19,000 state employees occupying the 26 state office buildings in the City of Albany that are managed by OGS, CHA estimates that these operations

generate approximately 8,220 tons of waste annually, including both what is disposed and what is recycled. This waste and recycled material is primarily MSW, and the estimate is based on a state-wide average generation rate at OGS facilities of 2.37 lbs per employee per day. As noted in Attachment 4 of this SWMP Modification, several large commercial waste generators also responded to a survey administered by CHA regarding their waste generation and management practices. Compilation of that data showed an average MSW generation rate of 2.39 lbs per employee per day, over an employee base of almost 12,100. Based on this evaluation of the available data, CHA believes it is reasonable to use a generation factor of 2.37 lbs per employee per day to represent MSW generated in the commercial, industrial and institutional (CII) sector. The federal and state governments do not compile detailed employment statistics on a municipal level. The county is the lowest civil division for which comprehensive statistics are provided. Because the Planning Units does not consist of a single county and consists of municipalities in two separate counties, the per employee MSW generation estimate for the CII sector must be converted into a resident based multiplier. This conversion is explained below.

According to the New York State Department of Labor, average total employment in Albany County in 2006 was 226,918. To estimate the MSW component of the CII waste stream, CHA applied the above-noted 2.37 lb per employee per day MSW generation rate to all employees in Albany County. The resulting estimate is 98,147 tons of MSW generated annually at the workplace. Based on the population of Albany County (297,414 in 2005), this CII component of MSW generation amounts to 1.81 lbs per person per day, not including any residential based MSW generation.

While it is recognized that Albany County includes areas that are not part of the Planning Unit, the use of a county-wide average is a reasonable method for estimating per capita generation of CII MSW for the Albany Area Planning Unit.

**City of Albany Residential MSW generation**

The residential component of MSW generation was estimated on a per capita basis by adding the quantity of waste and recyclables collected by DGS from the residences that it services and dividing by the estimated population served. In 2005 and 2006, the City of Albany DGS collected an average of 41,100 tons of refuse and recyclable materials from approximately 30,260 residential units. Assuming an average of 2.1 persons per occupied residential unit, this amounts to about 63,540 residents and an annual residential MSW generation rate of 0.647 tons per person, or 3.6 lbs per person per day.

For purposes of this SWMP Modification, the Total Estimated MSW Generation in the Planning Unit is presented in the following table.

Residential MSW Generation Rate	3.6 lb/person/day
CII MSW Generation Rate	1.8 lb/ person/day
Total MSW generation rate	5.4 lb/person/day
Population in 2005	202,898 persons
Total MSW Generation in 2005 (Tons per year)	199,956 tons

Based on this approach, total MSW generation in the Planning Unit is estimated to be about 199,956 tons in 2005. However, this estimate does not include C&D debris, non-hazardous industrial waste, or other non-MSW components of the waste stream that are being managed at the Rapp Road Landfill.

Revised residential recycling and disposal tonnages for 2005 and 2006 are presented in Attachment 7 of this SWMP Modification. For the municipalities in the Planning Unit that reported data, overall residential waste diversion or recycling rates were over 32% in 2005, 2006 and 2007.

Implementation of the measures called for in this SWMP Modification will result in increases in these diversion rates.

The commercial waste management survey provided some definitive data on recycling or diversion rates for MSW from the residential sector not serviced by municipal curbside recycling programs or from the CII sector. Each of these survey and telephone respondents indicated significant commercial waste recycling program elements were being implemented. Waste diversion or recycling rates calculated from those respondents reporting numerical data ranged from a low of 11 % to a high of 59 %. The weighted average diversion rate calculated for the private sector commercial generators is 20%. An overall weighted average CII waste diversion rate of 46% results when the OGS recycling and waste disposal tonnage is included.

While we do not assume that this average diversion rate would be applicable across the entire CII waste sector, the results do show significant implementation efforts are presently on-going with respect to waste reduction and recycling programs in the Planning Unit. More detail about these survey results are presented in Attachment 4.

### **C&D Debris Generation**

Several sources of information were examined to prepare an estimate of C&D generation and recycling for this Solid Waste Management Plan Modification. According to a 1998 study published by the USEPA (Characterization Of Building Related Construction And Demolition Debris In The United States - June 1998), the estimated per capita generation rate for building related C&D debris in 1996 was 2.8 lbs per person per day. This estimate does not include the C&D debris associated with road and bridge construction or land clearing.

The Northeast Waste Management Officials' Association (NEWMOA) published a report on the management of construction and demolition (C&D) waste in the Northeastern States, including New York. (Interstate Flow of Construction & Demolition Waste Among the NEWMOA States in 2002 – January 20, 2005). NEWMOA is a nonprofit, nonpartisan, interstate association composed of state environmental agency directors of the hazardous waste, solid waste, waste site cleanup, pollution prevention and underground storage tank programs in Northeastern states including New York. The study compiled information from state records to estimate the quantities of C&D debris that were generated and delivered to disposal facilities. As such this data does not account for C&D debris that may be reduced, re-used or recycled. Data were presented from calendar years 2001 and 2002 showed that Massachusetts and Connecticut, the two states noted in the report as having the most useful data, indicated average generation and disposal rates on the order of 1.0 lb per person per day. New York data indicated an average C&D generation and disposal rate of 0.8 lb per person per day.

As part of its 2006 SWMP the New York City Department of Sanitation (DSNY) conducted a commercial waste characterization study. This study estimated that New York City generated over (<http://home2.nyc.gov/html/dsny/downloads/pdf/guides/swmp/swmp-4oct/attmnt04.pdf>). 8.6 million tons of C&D debris in 2003, including 2,692,390 of non-putrescible C&D and 5,949,450 tons of clean fill C&D. Non-putrescible C&D was defined as inert waste generated from commercial and residential demolition, new construction and renovation projects. This waste can vary significantly with the volume of construction activity in the City. It is comprised of a range of inert materials, some of which is recycled. Clean fill C&D is defined as is inert waste from non-building construction, comprised of materials such as excavated fill, stone rubble and road millings that are graded into materials such as sand and aggregate and stockpiled for reuse at the City's fill material transfer stations. Almost all fill material is reused in other building projects. Clean fill represented 68.9% of total C&D generation.

Based on the estimated 2003 population of New York City, per capita generation was calculated by CHA for each of these C&D waste components are as follows:

- non-putrescible C&D – 1.81 lb per person per day
- Clean fill C&D – 4 lb per person per day

Taken together, these data show total C&D generation in New York City amounting to about 5.8 lb per person per day.

In 2005, the New Jersey Department of Environmental Protection (NJDEP) estimated that over 4,052,500 tons C&D waste, consisting of asphalt, concrete and masonry, was generated in that state. ([http://www.nj.gov/dep/dshw/recycling/stat\\_links/2005\\_material\\_stats.pdf](http://www.nj.gov/dep/dshw/recycling/stat_links/2005_material_stats.pdf) ) This amounts to a generation rate of 2.54 lb per person per day. Another 2,328,000 of other bulky waste and C&D, including petroleum contaminated soils were estimated to have been generated in New Jersey in 2005, amounting to another 1.46 lb per person per day. Similar to what is reported by DSNY, NJDEP reports that most of the asphalt, concrete and masonry fraction of C&D is recycled and re-used, as is a significant portion of the other C&D fraction. Taken together, these data show total C&D generation in New Jersey amounting to about 4.0 lb per person per day.

For purposes of this SWMP Modification, total C&D generation is estimated at 4 lb per person per day. Based on this generation rate and the documented C&D recycling tonnages in 2007 (not including PCS or material used within the landfill) described in Section 2.3.3 of this SWMP Modification, we estimate that C&D material are being recycled at a rate of about 52% in the Planning Unit. .

During the upcoming preparation of the New SWMP, more specific information will be sought about management and recycling of this important fraction of the total waste stream.

### **Non-Hazardous Industrial Waste Generation**

No relevant information on this subgroup of the CII sector was obtained as a result of the Commercial waste generator survey. For purposes of making a total waste generation estimate for this Solid Waste Management Plan Modification, it is assumed that there is approximately 40,000 tons per year of non-hazardous industrial waste generated within the Planning Unit. This is the approximate quantity necessary to balance with the NYSDEC statewide estimate of total waste generation of 10.6 lb per person per day.

During the upcoming preparation of the new SWMP, more specific information will be sought about this management and recycling of this important fraction of the total waste stream.

### **Total Waste Generation**

Combining the generation rates for MSW, C&D, and non-hazardous industrial waste discussed above results in a combined generation rate of 10.48 lb per person per day. Table 1 presents the estimated waste generation within the Planning Unit for the year 2005 and can be found at the end of the attachment. Table 1 also shows projected waste generation in years 2008 through 2011. While the combined generation rate has not changed, the population of the Planning Unit increased in 2008 with the addition of the Town of East Greenbush. Future changes in waste generation from 2008 through 2011 are based on changes in projected population of the member municipalities.

## Regional Waste Generation and MSW Disposal Capacity

Another relevant comparison can be made between waste delivery data from the Rapp Road Landfill compared with data compiled by NYSDEC regarding waste disposal at landfills and waste to energy facilities throughout New York State, or waste generated in New York but exported to other states. In 2005, over 3.8 million tons of MSW was disposed of at WTE facilities in New York and approximately 7.8 million tons of waste was disposed of at MSW landfills in New York. DEC records for 2005 show 4.3 million tons of solid wastes are exported for disposal in other states, including 4.1 million tons of MSW. Taken together, and accounting for the 1.2 million tons of waste disposed of in New York but originating out of state, these data show that there is about 14.7 million tons of waste generated for disposal in New York in 2005, most of it being MSW. This estimate does not include waste disposed of at C&D, ash residue or special waste landfills. On a per capita basis, the average statewide MSW disposal rate in New York is 0.763 tons annually, or 4.183 lb per person per day.

Applying this average statewide disposal rate to the population of the Albany Area planning unit results in an expected annual disposal capacity requirement of 154,900 tons per year in the year 2005. As noted in Section 2.3.3 of the SWMP Modification, actual net waste disposal from the planning unit in 2007 was over 226,000 tons, including MSW disposed of outside the Planning Unit. This may be partially explained by a higher than average MSW generation rate in the Planning Unit.

There are no waste flow control regulations in effect within any of the solid waste planning units in the capital district. Therefore, waste generated in the Albany Area planning unit, or elsewhere in the capital region may be delivered to the Rapp Road Landfill, the Colonie landfill, the Schenectady Transfer Station, or to other facilities at the discretion of the waste generator or solid waste hauler.

Counties within the Capital District, and their population estimates in 2005 are listed below (see [http://www.cdrpc.org/capital district data Volume 29 Number 4](http://www.cdrpc.org/capital%20district%20data%20Volume%2029%20Number%204))

- Albany County – 297,414
  - Rensselaer County – 155,251
  - Saratoga County – 214,859
  - Schenectady County – 149,078
- Capital District Total – 816,602**

Applying this average statewide disposal rate to the population of the Capital District results in an expected annual MSW disposal capacity requirement of 623,067 tons per year in the year 2005. This capacity requirement exceeds the annual capacity limits of the available disposal capacity in the Capital District. According to the DEC's SWIMS database, the Rapp Road Landfill and the Colonie Landfill have annual capacity limits of 275,000 tons and 170,500 tons, respectively, for a total capacity limit of 445,500 tons per year. This represents a regional disposal capacity deficit of over 177,500 tons, or nearly 22 percent of the capacity required.

The Saratoga County Landfill is not open for operation, and that county has not indicated any intention of operating this facility, but it has a permit with an annual capacity limit of 106,000 tons per year.

With respect to the communities that are part of the Planning Unit, estimated net disposal capacity needs are presented in Table 2 of this Attachment. The estimate was developed for each year from 2008 through 2011, based on the total waste generation estimate (presented below in Table 1) minus the estimated recycling tonnage based on achievement of the annual recycling goals set forth in this SWMP Modification. The result of this analysis shows that the planning unit needs for disposal capacity will be reduced from just over 286000 tons in 2008 to about 235,500 tons in 2011.

**Table 1  
Albany SWMP Modification**

Solid Waste Generation Summary

Baseline 2005	Generation rate Lb/per/day	Generated Tonnage TPY	Generated Tonnage Rounded TPY
Residential MSW	3.6	133,304	133,300
Commercial MSW	1.8	66,652	66,700
C&D Debris	4	148,116	148,100
Non-Hazardous Industrial			40,000
<b>Total</b>	<b>10.55</b>		
			<b>Total Waste Generation (TPY)</b>
Population in 2005	202,898		388,100
Population in 2008	218,728		421,100
Population in 2009	220,352		424,300
Population in 2010	221,975		427,400
Population in 2011	222,428		428,300
Estimated Total Waste Generation in 2005 based on NY State average of 10.6 lb per person per day			392,500

**Table 2  
Capital Region SWMP Modification**

Projected Waste Generation and Recycling

<b>Year</b>	<b>Total Waste Generation</b>	<b>Reduction and Recycling Goal</b>	<b>Estimated Recycling Tonnage</b>	<b>Estimated Net Disposal</b>
2008	421,100	34%	143,174	277,926
2009	424,300	40%	169,720	254,500
2010	427,400	45%	192,330	235,070
2011	428,300	47%	201,301	226,999

**Revised Tonnage Summary for ANSWERS Communities for 2005**  
**ATTACHMENT 7**  
**REVISED TONNAGE SUMMARY**  
**ANSWERS Wasteshed Solid Waste Report**  
**Residential Recycling and Trash Totals for Year 2005**

	Albany	Berne	Bethlehem	Green Island	Guiderland	Knox	New Scotland	Rensselaer	Rensselaerville	Voorheesville	Watervliet	Westerlo	TOTAL
<b>GLASS</b>													
Clear													0.00
Brown													0.00
Green													0.00
Other / Mixed						23.22	181.00	97.00			20.00		321.22
<b>TOTAL GLASS</b>	0.00	0.00	0.00	0.00	0.00	23.22	181.00	97.00	0.00		20.00	0.00	321.22
<b>PAPER</b>													
ONP			169.00	40.50	187.03	67.57						130.89	594.99
OCC		87.50	61.25		105.47	16.96						22.16	293.34
OMG			9.25		4.52								13.77
OTD													0.00
Junk Mail													0.00
Paperboard		38.51	39.25										77.76
High Grade			3.50										3.50
Books (hard/soft)			2.80										2.80
Other / Mixed	3215.58		1758.25				299.00	310.00	92.66	158.00	105.00		5938.49
<b>TOTAL PAPER</b>	3215.58	126.01	2043.30	40.50	297.02	84.53	299.00	310.00	92.66	158.00	105.00	153.05	6924.65
<b>PLASTIC</b>													
PET													0.00
HDPE													0.00
Other / Mixed				15.50		11.37			6.50	15.00			48.37
<b>TOTAL PLASTIC</b>	0.00	0.00	0.00	15.50	0.00	11.37	0.00	0.00	6.50	15.00	0.00	0.00	48.37
<b>METAL</b>													
Fe													0.00
Aluminum						2.40							2.40
White Goods	300.00		247.00		218.93								765.93
Other / Mixed		18.35		45.00		6.40	77.00		103.00	16.00	184.00	151.92	601.67
<b>TOTAL METAL</b>	300.00	18.35	247.00	45.00	218.93	8.80	77.00	0.00	103.00	16.00	184.00	151.92	1370.00
<b>BATTERIES</b>													
Lead Acid				1.65									1.65
Dry Cell									5.00			11.85	16.85
<b>TOTAL BATTERIES</b>	0.00	0.00	0.00	1.65	0.00	0.00	0.00	0.00	5.00	0.00	0.00	11.85	18.50
<b>MISC.</b>													
Yard Waste	2268.17		10904.00	16.30	3750.00		124.00			180.00			17242.47
Other Yard Waste (1)	2020.3												2020.30
Tires	257.29		18.50	10.05	9.20	2.00			12.00			25.21	334.25
Oil/Oil Filters									8.00			2.19	10.19
C & D (Asphalt)					0.00		258.00						258.00
Sewage Sludge													0.00
HHW													0.00
Textiles									6.00			16.90	22.90
Commingled	752.12		885.50		200.27				68.85	80.00		58.66	2045.40
Other		52.26	0.00			0.00			2.00				54.26
<b>TOTAL MISC.</b>	5297.88	52.26	11808.00	26.35	3959.47	2.00	382.00	0.00	96.85	260.00	0.00	102.96	21987.77
<b>TOTAL RECOVERED</b>	8813.46	196.62	14098.30	129.00	4475.42	129.92	939.00	407.00	304.01	449.00	309.00	419.78	30670.52
<b>MSW Disposed</b>	32118.53	298.36	14043.00	1325.44	2911.65	1189.87	1464.00	2120.18	828.20	1500.00	4409.00	1942.83	64151.06
<b>HHW Collected</b>	144.68	0.00	0.00	0.00	56.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200.92
<b>TOTAL DISPOSED MSW + HHW</b>	32263.21	298.36	14043.00	1325.44	2967.89	1189.87	1464.00	2120.18	828.20	1500.00	4409.00	1942.83	64351.98
<b>DIVERSION / RECYCLING RATE</b>	21.46%	39.72%	50.10%	8.87%	60.13%	9.84%	39.08%	16.10%	26.85%	23.04%	6.55%	17.77%	32.28%
<b>DIVERSION RATE NOT INCLUDING YARD WASTE</b>	12.30%	39.72%	18.53%	7.84%	19.64%	9.84%	35.76%	16.10%	26.85%	15.21%	6.55%	17.77%	17.26%

Notes:  
(1) 'Other Yard Waste' delivered to Albany compost facility from sources other than DGS.

Revised Tonnage Summary for ANSWERS Communities for 2006

ATTACHMENT 7

REVISED TONNAGE SUMMARY  
ANSWERS Wastehed Solid Waste Report  
Residential Recycling and Trash Totals for Year 2006

	Albany	Berne	Bethlehem	Green Island	Guiderland	Knox	New Scotland	Rensselaer	Rensselaerville	Voorheesville	Watervliet	Westerlo	TOTAL
<b>GLASS</b>													
Clear											20.00		20.00
Brown													0.00
Green													0.00
Other / Mixed						8.07			4.00				12.07
<b>TOTAL GLASS</b>	0.00	0.00	0.00	0.00	0.00	8.07	0.00	0.00	4.00	0.00	20.00	0.00	32.07
<b>PAPER</b>													
ONP		67.55	168.00			220.33	57.06				110.00	108.16	731.10
OCC		25.53	71.00			71.12	15.93					32.69	216.27
OMG			10.80			6.62							17.42
OTD													0.00
Junk Mail													0.00
Paperboard			38.70										38.70
High Grade			7.00										7.00
Books (hard/soft)			4.80										4.80
Other / Mixed	3074.36		1672.00	46.50					102.46	157.00			5052.32
<b>TOTAL PAPER</b>	3074.36	93.08	1972.30	46.50	298.07	72.99	0.00	0.00	102.46	157.00	110.00	140.85	6067.61
<b>PLASTIC</b>													
PET											6.00		6.00
HDPE													0.00
Other / Mixed				21.50		15.52							37.02
<b>TOTAL PLASTIC</b>	0.00	0.00	0.00	21.50	0.00	15.52	0.00	0.00	0.00	0.00	6.00	0.00	43.02
<b>METAL</b>													
Fe													0.00
Aluminum			1.40		3.57								4.97
White Goods	288.90		246.70		214.68	51.24				14.00			815.52
Other / Mixed			9.05	50.00		5.07				95.95	100.00	139.13	399.20
<b>TOTAL METAL</b>	288.90	0.00	257.15	50.00	218.25	56.31	0.00	0.00	95.95	14.00	100.00	139.13	1219.69
<b>BATTERIES</b>													
Lead Acid			1.30										1.30
Dry Cell				1.65					5.00			9.82	16.47
<b>TOTAL BATTERIES</b>	0.00	0.00	1.30	1.65	0.00	0.00	0.00	0.00	5.00		0.00	9.82	17.77
<b>MISC.</b>													
Yard Waste	1762.13		11623.00	20.00	4678.13					185.00	187.50		18455.76
Other Yard Waste (1)	1673.4												1673.40
Tires	145.00		50.00	16.00	11.72				18.46		11.25	19.88	272.31
Oil/Oil Filters									8.00			1.82	9.82
C & D (Asphalt)					0.00								0.00
Sewage Sludge													0.00
HHW													0.00
Textiles									6.00			18.20	24.20
Commingled	982.14	49.16	901.25		120.33				66.21	79.00		54.59	2252.68
Other	0.00								6.50				6.50
<b>TOTAL MISC.</b>	4562.67	49.16	12574.25	36.00	4810.18	0.00	0.00	0.00	105.17	264.00	198.75	94.49	22694.67
<b>TOTAL RECOVERED</b>	7925.93	142.24	14805.00	155.65	5326.50	152.89	0.00	0.00	312.58	435.00	434.75	384.29	30074.83
<b>MSW Disposed</b>	31567.23	835.17	14165.50	1225.44	3091.63	2000.00	0.00	0.00	810.53	1500.00	6000.00	1898.81	63094.31
<b>HHW Collected</b>	304.07	0.00	0.00	0.00	94.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	398.43
<b>TOTAL DISPOSED MSW + HHW</b>	31871.30	835.17	14165.50	1225.44	3185.99	2000.00	0.00	0.00	810.53	1500.00	6000.00	1898.81	63492.74
<b>DIVERSION / RECYCLING RATE</b>	19.92%	14.55%	51.10%	11.27%	62.57%	7.10%	#DIV/0!	#DIV/0!	27.83%	22.48%	6.76%	16.83%	32.14%
<b>DIVERSION RATE NOT INCLUDING YARD WASTE</b>	12.35%	14.55%	18.34%	9.97%	16.91%	7.10%	#DIV/0!	#DIV/0!	27.83%	14.29%	3.96%	16.83%	15.47%

Notes:

(1) 'Other Yard Waste' delivered to Albany compost facility from sources other than DGS.

Reported Tonnage Summary for ANSWERS Communities for 2007

ANSWERS Wastehed Solid Waste Report  
Residential Recycling and Trash Totals for Year 2007

	Albany	Berne	Bethlehem	Green Island	Guilderland	Knox	New Scotland	Rensselaer	Rensselaerville	Voorheesville	Watervliet	Westerlo	TOTAL
<b>GLASS</b>													
Clear													0.00
Brown													0.00
Green													0.00
Other / Mixed									4.00				4.00
<b>TOTAL GLASS</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.00	0.00	0.00	4.00
<b>PAPER</b>													
ONP		89.54			284.30	57.67						95.81	527.32
OCC		26.43	85.50		85.00	14.73						16.60	228.26
OMG													0.00
OTD													0.00
Junk Mail													0.00
Paperboard													0.00
High Grade			8.50										8.50
Books (hard/soft)			16.00										16.00
Other / Mixed	2789.39		1973.00		12.93		323.62		105.97	190.00			5394.91
<b>TOTAL PAPER</b>	2789.39	115.97	2083.00	0.00	382.23	72.40	323.62	0.00	105.97	190.00	0.00	112.41	6174.99
<b>PLASTIC</b>													
PET													0.00
HDPE													0.00
Other / Mixed					126.32	11.95						54.67	192.94
<b>TOTAL PLASTIC</b>	0.00	0.00	0.00	0.00	126.32	11.95	0.00	0.00	0.00	0.00	0.00	54.67	192.94
<b>METAL</b>													
Fe													0.00
Aluminum					4.58	0.50							5.08
White Goods	311.30									14.00			325.30
Other / Mixed			392.20		221.31	70.49			102.98			90.05	877.03
<b>TOTAL METAL</b>	311.30	0.00	392.20	0.00	225.89	70.99	0.00	0.00	102.98	14.00	0.00	90.05	1207.41
<b>BATTERIES</b>													
Lead Acid			3.00		1.88				2.00			9.35	16.23
Dry Cell			1.00		0.12								1.12
<b>TOTAL BATTERIES</b>	0.00	0.00	4.00	0.00	2.00	0.00	0.00	0.00	2.00		0.00	9.35	17.35
<b>MISC.</b>													
Yard Waste	2121.75		10838.00		5045.63								18005.38
Other Yard Waste (1)	1314												1314.00
Tires	74.33		36.00		7.50	11.30	8.79		18.40			17.31	173.63
Oil/Oil Filters					2.66				8.00			2.15	12.81
C & D (Asphalt)							246.45						246.45
Sewage Sludge composted													0.00
Propane & electronics	8.72		43.00										51.72
Textiles			5.00									18.53	23.53
Commingled GMP	912.40	51.49	868.40				155.57		68.41	130.00		54.67	2240.94
Other	12.73								11.00				23.73
<b>TOTAL MISC.</b>	4443.93	51.49	11790.40	0.00	5055.79	11.30	410.81	0.00	105.81	130.00	0.00	92.66	22092.18
<b>TOTAL RECOVERED</b>	7544.62	167.46	14269.60	0.00	5792.22	166.64	734.43	0.00	320.76	334.00	0.00	359.14	29658.87
<b>MSW Disposed</b>	30759.08	877.40	15483.50		2950.60	1112.45	2144.00	0.00	754.80	1500.00		1801.30	57383.13
<b>HHW Collected</b>	193.11	0.00	35.00	0.00	103.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	331.50
<b>TOTAL DISPOSED MSW + HHW</b>	30952.19	877.40	15518.50	0.00	3053.99	1112.45	2144.00	0.00	754.80	1500.00	0.00	1801.30	57714.63
<b>DIVERSION / RECYCLING RATE</b>	19.60%	16.03%	47.90%		65.48%	13.03%	25.51%		29.82%	18.21%		16.62%	33.97%
<b>DIVERSION RATE NOT INCLUDING YARD WASTE</b>	11.72%	16.03%	18.11%		19.64%	13.03%	25.51%		29.82%	18.21%		16.62%	15.23%

6174.99

Notes:  
(1) 'Other Yard Waste' delivered to Albany compost facility from sources other than DGS.

