

# Chapter 2

## Transportation, Disposal, and Processing Network Evaluating the Existing Infrastructure

Securing adequate disposal capacity for the municipal waste generated within its boundaries is the primary responsibility for each county in the planning process. Additionally, proper practices for the storage and collection of municipal waste is of equal importance to protect the health and safety of Cumberland County's citizens. This chapter outlines how each type of municipal waste generated in Cumberland County is currently collected, transported, and where it is ultimately processed and disposed.

### COLLECTION AND TRANSPORTATION OF MUNICIPAL WASTE



Most residents, businesses, institutions, and municipal facilities have reasonable access to waste collection in Cumberland County. Typically, transporters contract directly with commercial and institutional establishments. In some instances, municipalities secure these services for their residents through a competitive bidding process. This practice dominates the eastern portion of the County where the highest concentration of population is located. In other areas, private subscription waste collection service is more prevalent. Because subscribing to waste collection is voluntary in these communities, by either personal choice or economic circumstances, many residents have no service provider. Occasionally, this decision is justified by individual efforts of conservation and use of environmentally friendly alternatives. However, most often, the absence of collection service signals the presence of undesirable disposal methods and environmental pollution.

## TRANSPORTERS OF MUNICIPAL WASTE

The Waste Safety Transportation Program, Act 90, was enacted in 2002. Owners of waste transportation vehicles that regularly transport municipal or residual waste to a processing or disposal facility in the Commonwealth are required to obtain written authorization from PADEP. Municipal or residual waste processing or disposal facilities are prohibited from accepting waste from vehicles that do not have a valid authorization sticker. Transporters that collect waste in Pennsylvania but utilize an out of state disposal facility are exempt, as are those hauling less than 17,000 lbs., and trailers with a registered gross vehicle weight less than 10,000 lbs tons. Table 2-1 lists the transporters that are known to operate within Cumberland County. An identification number is included for those who have obtained Act 90 authorization.

A majority of the authorized transporters listed do not provide traditional residential curbside waste collection. Additionally, many do not offer commercial small containerized service. Some, such as those servicing educational or government oriented facilities, haul only self-generated waste. Others are municipal operations. However, the focus of most of the transporters tends to be on construction and demolition related activities. Because they control a significant and important portion of the municipal waste stream, their practices must be considered in policies that result from the planning process.

TABLE 2-1 MUNICIPAL WASTE TRANSPORTERS OPERATING WITHIN CUMBERLAND COUNTY

Transporter	Authorization ID #	Address
A + A Rolloffs, LLC.	WH10127	14938 Molly Pitcher Highway, Greencastle , PA, 17201
A-1 Trash Removal		4904 Raudabaugh Rd
ADS Environmental Services LLC	WH10922	Camp Hill
Associated Products Services, Inc.	WH11610	2 East Dr Mechanicsburg, PA 17050
Best Roofing Technology, Inc.	WH1876	1462 Trindle Rd Carlisle, PA 17015
Black's Detachable Truck Systsems	WH1973	300 Mulberry Dr Mechanicsburg, PA 17050
Blair E. Wenger	WH0279	1968 Ritner Highway, Shippensburg, PA
Booz Milk Transport Inc.	WH5143	199 Booz Road Shippensburg 17257
Borough of Carlisle	WH5911	Carlisle
Boyd E. Diller	WH0437	6820 Wertzville Rd Enola, PA 17025
Brian Nailor Carpentry, Etc.	WH7194	2030 Walnut Bottom Rd, Carlisle, PA 17015

**Table 2-1 Municipal Waste Transporters Operating within Cumberland County (cont'd)**

Transporter	Authorization ID #	Address
Brubacher Excavating, Inc.	WH2496	825 Reading Road, Bowmansville, PA 17507
Calvin E. Wiuser	WH3760	402 South Penn Street, Shippensburg, PA 17257-8702
Chambersburg Waste Paper Co., Inc.	WH0229	Box 975, 2047 Loop Road, Chambersburg, PA 17201
Coldsmith Construction Company, Inc.	WH8012	1555 Coldsmith Rd Shippensburg, PA 17257
Colonial Builders & Developers, LLC	WH1194	1333 Kiner BLVD Carlisle, PA 17013
Conservative Environmental Services, Inc.	WH3787	33 Argali Ln Mechanicsburg, PA 17055
COR Construction Services, Inc.	WH11974	12 Long Ln # B Mechanicsburg, PA 17050
Craig C. Crain	WH8624	Carlisle
D. R. Beecher Trucking	WH7681	Newville
D.L. Griffey Hauling, LLC	WH11786	705 Mount Rock Rd, Carlisle, PA 17015-7426
David Sheibley Trash Removal		67 W North St Carlisle, PA 17013
Derr's Trash Hauling		Mechanicsburg
Dickinson College	WH1447	Carlisle
Dunlap Construction	WH11663	10707 Shale Road, Shippensburg, PA 17257-9319
Eagle Roll-off Service		29 S Main St Manchester, PA 17345
ECC, INC. dba Eagle Construction Co.	WH4558	701 S Antrim Way Greencastle, PA 17225
Eric W. Mainhart	WH11906	100 Valley Rd, Newville, PA 17241
Wenrick Roll-off Dumpster Rentals	WH11405	5274 White Church Rd Shippensburg, PA 17257
Foremost Industries, Inc.	WH8663	2375 Buchanan Trl W Greencastle, PA 17225
Forte Properties	WH11915	Camp Hill, PA
Fulmer Construction Services, Inc.	WH12018	223 N Locust Point Rd, Mechanicsburg, PA 17050-2621
G&C Excavating and Construction	WH4165	110 Frank Rd Greencastle, PA 17225
Galbraith/ Pre-design, Inc.	WH10304	213 Kutz Rd Carlisle, PA
Got Milt Trash Removal		PO Box 1133, Carlisle, PA 17013

**Table 2-1 Municipal Waste Transporters Operating within Cumberland County (cont'd)**

Transporter	Authorization ID #	Address
Hoghpeak Roofing & Painting, Inc.	WH5242	2301 Ritner Hwy, Carlisle, PA
Hilltop Construction & Contracting, Inc.	WH11456	32 Chadwick Dr Greencastle, PA 17225
IESI PA Corporation	WH0316	1578 Orchard Road Scotland, PA
Interstate Waste Services Of PA	WH1424	135 Vaughn Road, Shippensburg, PA 17257-9727
John W. Gleim Jr., Inc.	WH3481	625 Hamilton St, Carlisle, PA 17013
Lemoine Borough	WH2875	510 Herman Avenue. Lemoyne, PA 17043
McCorkle Construction Services, Inc.	WH11983	1405 Zimmerman Rd Carlisle, PA 17015
McCoy Brothers Inc	WH1492	1514 Commerce Ave, Carlisle, PA
Mr. Rehab Inc.	WH10367	3 Long Lane Mechanicsburg, PA 17050
Naugle Rubbish Removal		84 Long Rd Newville, PA 17241
Naval Support Activity	WH2293	5450 Carlisle Pike, P.O. Box 2020, Mechanicsburg, PA 17055
Neidlinger Excavating, LLC	WH11530	100 W High St Carlisle, PA 17013
PA DOT Engineering District 8 0	WH3871	Carlisle
Penn Waste, Inc.	WH0960	85 Brick Yard Rd Manchester, PA 17345
R & R Roofing	WH10198	111 Walnut Dale Rd Shippensburg, PA 17257
R. T. Carey Trucking	WH7310	61 Heisers Lane, Carlisle, PA 17015
Ream's Disposal	WH0273	P.O. Box 313 Bowmansville PA
RJ'S Transport LLC	WH7410	1233 Claremont Rd, Carlisle, PA 17015-9742
Robert Brayant	WH7744	1510 Lambs Gap Rd, Mechanicsburg, PA 17050
Robert J. Chaya dba R.C. Trucking	WH11816	Duncannon
Roger L. Hosfelt	WH7366	251 South Earl Street, Shippensburg, PA 17257
Roush's Hauling		14 Paradise Drive, Carlisle, PA 17015
S.A. Hurley Excavation Inc.	WH7284	50 Frytown Rd Newville, PA 17241
Shippensburg Borough	WH0578	111 North Fayette Street, Shippensburg, PA 17257

**Table 2-1 Municipal Waste Transporters Operating within Cumberland County (cont'd)**

Transporter	Authorization ID #	Address
Shippensburg Leasing Corp.	WH4451	1234 Leasing Dr Shippensburg, PA 17257
Shippensburg Township	WH7255	83 Walnut Bottom Rd. Shippensburg, PA 17257
Shippensburg University	WH4048	1871 Old Main Dr Shippensburg, PA 17257
Strickland Brothers Construction, LLC	WH12051	623 Creek Rd Carlisle, PA 17015
Suburban Roofing Co., Inc.	WH7083	210 Mulberry Dr Mechanicsburg, PA 17050
Sweger's Hauling		280 Peach Glen Idaville Rd Gardners, PA 17324-9625
Sylvesters Services, Inc.	WH1446	35 Lower Bailey Rd Duncannon, PA 17020
Terry L. Shetter	WH1537	365 Musser Rd Shippensburg, PA 17257
Utility Services Group	WH8122	1304 Slate Hill Rd Camp Hill, PA 17011
Waste Management of Pennsylvania, Inc.	WH1436	4300 Industrial Park Rd Camp Hill, PA 17011
Weaver Hauling & Excavating, LLC	WH11152	688 Walnut Bottom Rd, Shippensburg, PA 17257
Will Haul For You		Mechanicsburg

## **DESTINATION OF CUMBERLAND COUNTY'S MUNICIPAL WASTE**

Within a 50 mile radius of Cumberland County exists a broad spectrum of disposal options for municipal waste. While there are numerous facilities, they essentially fall into one of two types of operations. These include land disposal and combustion for energy recovery, with landfills being the predominant choice. Cumberland County entered into disposal and processing capacity agreements with many of these facilities as part of its original plan. Table 2-2 lists the facilities designated to receive waste generated in Cumberland County. It also shows their permit number, location, owner/operator and the overall daily volume that can be accepted at each site.



TABLE 2-2 DISPOSAL FACILITIES WITH EXISTING CAPACITY AGREEMENTS FOR CUMBERLAND COUNTY WASTE 2010

Facility	Permit	Daily Volume Av Max Tons	County/ Municipality	Address	Owner/Operator
Blue Ridge Landfill	100934	1450	Franklin/ Greene Township	P O BOX 399 Scotland, PA 17254	IESI
		2000			
Commonwealth Environmental Systems	101615	4750	Schuylkill/ Foster, Frailey and Reilly Townships	99 Commonwealth Rd Hegins, PA 17938	Commonwealth Environmental Systems
		5500			
Conestoga Landfill	101509	7210	Berks/ New Morgan Borough	P.O. Box 128 420 Quarry Rd Morgantown, PA 19543	Allied Waste Services
		10,000			
Cumberland County Landfill	100945	1500	Cumberland/ Hopewell & North Newton Townships	142 Vaughn Rd. Shippensburg, PA 17257	Interstate Waste Services
		1950			
Dauphin Meadows Landfill	101539		Dauphin/ Washington & Upper Paxton Township	3035 Route 209 Millersburg, PA 17061	Waste Management
Greenridge Reclamation Landfill	100281	2500	Westmoreland/ East Huntingdon Township	RR 1 Box 716, Landfill Rd Scottsdale, PA 15683	Allied Waste Services
		2500			
Harrisburg Materials Energy Recycling & Recovery Facility	100992	800	Dauphin/ Harrisburg	1670 S. 19th St Harrisburg, PA 17104	Harrisburg City Authority
Keystone Sanitary Landfill	101247	4750	Lackawanna/ Dunmore, Old Forge, and Throop Boroughs	PO Box 249 Dunmore, PA 18512	Keystone Quarry Inc.
		5000			
Laurel Highlands Landfill	101534	2000	Cambria/ Jackson Township	260 Laurel Ridge Rd Johnstown, PA 15909	Waste Management
		2500			
Milton Grove Construction Demolition Landfill	101559	1000	Lancaster/ Mount Joy Township & Mount Joy Borough	2487 Cloverleaf Road Elizabethtown PA 17022	Veolia Environmental Services
		2500			
Modern Landfill	100113	4667	York/ Lower Windsor and Windsor Townships	4400 Mt. Pisgah Rd York, PA 17402	Republic Services
		5000			
Mosteller Landfill	101571	2000	Somerset/Brothers Valley and Somerset Townships	7095 Glades Pike Somerset, PA 15501	Interstate Waste Services
		2500			
Mountain View Reclamation Landfill	101100	1500	Franklin/ Atrium & Montgomery Townships	9446 Letzburg Rd Greencastle, PA 17225	Waste Management
		1850			
Mountainview Sanitary Landfill			Allegheny (Maryland)		
Phoenix Resources, Inc Construction Demolition Landfill	101649	1250	Tioga/ An Township	782 Antrim Rd. Wellsboro, PA 16901	Phoenix Resources, Inc.
		2000			
Pine Grove Landfill	101427	850	Schuylkill/ Pone Grove Township	193 Schultz Rd Pine Grove, PA 17963	Waste Management
		850			
Sandy Run	101538	750	Bedford/ Broad Top Township	P O BOX 136 Hopewell, PA 16650	Interstate Waste Services
		1000			
Shade Landfill	101421	2900	Somerset/Shade Township	1176 No. 1 Rd Cairnbrook, PA 15924	Waste Management
		3500			
Southern Alleghenies Landfill	100081	2220	Somerset/ Conemaugh Township	843 Miller Picking Rd Davidsville, PA 15928	Waste Management
		3300			
York County Resource Recovery Center	400561	1344	York/ Manchester Township	2700 Blackbridge Rd York, PA 17402	York County Solid Waste and Refuse Authority

## WASTE TRANSFERS

Some of the waste collected in Cumberland County is delivered to an interim facility before its ultimate disposition at a landfill or waste to energy facility. There are two permitted transfer stations located in the County, which are listed in Table 2-3. The Diller Transfer Station accepts material from the general public and outside haulers. Waste Management’s Transfer Station in Camp Hill primarily serves the needs of its local hauling division.

TABLE 2-3 CUMBERLAND COUNTY TRANSFER STATIONS

Transfer Stations located in Cumberland County 2010				
Facility	Permit	Municipality	Address	Owner/Operator
Diller Transfer Station	101092	Enola	6820 Wertzville Road Enola PA 17025	<b>Boyd Diller Inc.</b>
Waste Management of PA, Inc. Transfer Station	101620	Camp Hill	4300 Industrial Park Road Camp Hill, PA 17938	<b>Waste Management</b>

## REPORTED DISPOSAL ACTIVITY

Most of the municipal waste collected in Cumberland County is disposed or processed in facilities with capacity agreements. Generally, when counties allow for a wide variety of disposal options, as is the case with Cumberland, competitive market conditions dictate the ultimate destination of the waste. Whether through lower tipping fees, convenience, or internalization of disposal by corporations with both disposal and hauling capabilities, some facilities seem to dominate the local market while others receive little or no Cumberland County municipal waste. It is suspected that a negligible amount goes unreported by out-of-state landfills, with or without capacity contracts. Additionally, random loads appear to have been misdirected to non-designated sites, or simply misreported. Table 2-4 illustrates the types and amounts of waste from Cumberland County reported by Pennsylvania landfills in the year 2010. A brief narrative of Cumberland County’s designated disposal facilities and their actual role in the disposal of the County’s municipal waste follows.

### AMERICAN REF-FUEL

Located in Chester County, American Ref Fuel is a waste to energy facility operated by Covanta Energy. Although the facility did accept a small amount of residual waste from Cumberland County in 2010, it has no formal agreement to reserve disposal capacity for the County. Therefore, no municipal waste originating in Cumberland County was accepted at the site in 2010.

TABLE 2-4 FACILITIES REPORTING DISPOSED TONS OF CUMBERLAND COUNTY WASTE

Cumberland County Disposal Destinations 2010										
Facility	Owner	Permit	County	Municipal	Residual	Sludge	Infectious Chemo	Construction	Asbestos	Total Tons
American Ref-Fuel	Covanta	400593	Chester	0	8	0	0	0	0	8
Blue Ridge Landfill	IESI	100934	Franklin	10,712	230	557	0	3,966	19	15,483
Cumberland County Landfill	Advanced Disposal	100945	Cumberland	45,063	41,293	3,892	0	18,589	276	109,113
Frey Farm Landfill	Lancaster County Solid Waste Management Authority	101389	Lancaster	0	136	0	0	0	0	136
Greentree Landfill	Veolia Environmental Services	101397	Elk	0	0	39	0	0	0	39
Harrisburg Materials Energy Recycling & Recovery	Harrisburg City Authority	100758	Dauphin	20,089	171	0	0	7,634	0	27,895
Lancaster County	Lancaster County Solid Waste Management Authority	400592	Lancaster	0	0.2	0	0	0	0	0.2
Lycoming County Resource Management	Lycoming County	100963	Lycoming	0	0.4	0	0	0	0	0.4
Modern Landfill	Republic Services	100113	York	39,776	3,026	46	83	1,986	0	44,916
Mostoller Landfill	Advanced Disposal	101571	Westmoreland	0	0	0	0	504	0	504
Mountain View Reclamation	Waste Management	101100	Franklin	1,122	4,340	3	0	604	0	6,069
Pine Grove Landfill	Waste Management	101427	Schuylkill	21,553	0	0	0	4,341	0	25,894
Sandy Run Landfill	Advanced Disposal	101538	Bedford	0	333	0	0	0	0	333
Wayne Township Landfill	Clinton County Solid Waste Authority	100955	Clinton	20,089	171	0	0	7,634	0	27,895
Wheelabrator Falls	Wheelabrator Falls Inc	400633	Bucks	0	0	0	0	19,425	0	19,425
York County Resource Recovery Center	York County Solid Waste and Refuse Authority	400561	York	28,011	11	0	0	0	0	28,022
<b>TOTAL TONS</b>				166,326	49,550	4,537	83	57,048	296	277,839

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### BLUE RIDGE LANDFILL

Blue Ridge Landfill is owned and operated by Progressive Waste Solutions. The site is located in Greene Township, near Scotland in Franklin County, Pennsylvania. The site is permitted to receive an average of 1450 tons per day. 15,235 tons, equivalent to 6.68% of the municipal waste originating in Cumberland County was transported to the facility in 2010. Cumberland waste was transported primarily by IESI Hauling, but other local transporters also use the facility. Overall, Cumberland municipal waste comprises less than 3% of the total waste received at Blue Ridge. The landfill takes municipal waste from nine other Pennsylvania counties. Additionally, a large portion of its gate capacity in 2010, approximately 73%, was consumed by out-of-state waste, with New York providing the largest volume. Residual waste plays a lesser role at this facility than at other sites with reserved capacity for Cumberland County.

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### COMMONWEALTH ENVIRONMENTAL SYSTEMS LANDFILL

Located in Foster, Frailey and Reilly Townships in Schuylkill County, Commonwealth Environmental Systems Landfill (CES) in previous years received nearly 6% of Cumberland County's municipal waste. However, in 2010 the facility did not report any waste, municipal or residual, which originated in Cumberland County. It is known that some Construction Demolition waste from activities in Cumberland County is transported to the Harrisburg Authority's transfer station, where materials are subsequently hauled to CES. It is suspected that a portion of the waste identified at the scales as originating from Dauphin County is actually from sources in Cumberland County. Cumberland competes at CES for capacity with 18 other Pennsylvania counties. Out-of-state waste also played a major role at CES in 2006 by providing roughly 53% of the overall volume accepted at the facility.

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### CONESTOGA LANDFILL

Owned and operated by Allied Waste Industries, Conestoga is located in New Morgan Borough, Berks County. Distance and a lack of presence by an Allied Waste commercial and/or residential hauling division most likely hampered the landfill's ability to receive waste from Cumberland County. In 2010, Conestoga did not receive any municipal or residual waste from Cumberland. The recent acquisition of Allied Waste's assets by Republic Waste is not expected to have a great impact on the amount of Cumberland County waste that flows to Conestoga in the future. The landfill is currently permitted to accept up to 10,000 tons of material daily with the majority of municipal waste originating in Philadelphia, Berks, and Montgomery counties respectively. The site accepts residual waste from 11 counties and a combination of residual and municipal waste from 5 states, with New Jersey and New York disposing of the greatest quantities.

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### CUMBERLAND COUNTY LANDFILL

By far, the primary recipient of all types of solid waste generated in Cumberland County is the Cumberland County Landfill. It exceeds other facilities in tonnage received from Cumberland County for both municipal and residual wastes. Advanced Disposal is the current owner/operator. In 2010, nearly 30% of the County's total combined municipal waste stream was delivered to the landfill. This amounted to 67,544 tons. Additionally the site received 85% of the sewage sludge, and 48.9% of the construction demolition portions of the County's municipal waste. Of the facility's 1500 ton permitted average daily volume, approximately 350 tons per day is delivered to the site from Cumberland County. Advanced Disposal's hauling company is responsible for the bulk of the local material disposed at the site. However, as evidenced by the proportion of construction demolition waste delivered to the site, the landfill provides an important service to those local authorized transporters whose primary business is not waste collection, but nevertheless are responsible for material that they generate on the job. Overall, Cumberland County contributes nearly 24% of the total volume of waste disposed at the landfill on an annual basis. Twenty-three counties delivered some form of municipal waste to the Cumberland County Landfill in 2010. Fifteen counties also provided residual waste for disposal. The largest contributor of out-of-state waste in 2010 was New Jersey representing approximately 28% of the overall gate capacity used.

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### DAUPHIN MEADOWS LANDFILL

Situated in nearby Dauphin County in the Townships of Washington and Upper Paxton, Dauphin Meadows Landfill is owned by Waste Management. Due to difficulties with zoning and local ordinances, the landfill was unable to renew its permit and is currently closed. Thus, no waste from Cumberland County was disposed there in 2010.

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### FREY FARM LANDFILL

The Lancaster County Solid Waste Management Authority owns and operates the Frey Farm Landfill. The facility, which is located in Lancaster County did not receive any municipal waste from Cumberland County in 2010. However, a negligible amount of Cumberland County residual waste was disposed there. Frey Farm primarily serves the needs of Lancaster County for non-processible waste. In addition , it accepts considerable quantities of incinerator ash from the Lancaster and Harrisburg Waste to Energy Facilities.

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### GREENRIDGE LANDFILL

Allied/Republic Waste Services also owns and operates the Greenridge Landfill located in Scottdale, Westmoreland County. The site has the approval to accept

2500 tons of waste per day. Similar to Allied/Republic's Conestoga Landfill, distance combined with the lack of a local transportation entity meant that Greenridge did not receive any waste from Cumberland County in 2010. The site services 12 counties, but primarily receives municipal and residual waste from Allegheny, Westmoreland and Somerset. The site also receives to a lesser degree, out-of-state waste from Maryland, New York, and West Virginia.

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#### **HARRISBURG MATERIALS ENERGY RECYCLING & RECOVERY FACILITY**

The Harrisburg City Authority contracts with Covanta Energy to operate the Harrisburg Materials Energy Recycling & Recovery Facility. This incinerator received 27,723 tons from Cumberland in 2010, which represented 12% of the County's municipal waste. On a daily basis, the facility is permitted to accept 800 tons. The incinerator has been an attractive disposal outlet for independently owned local hauling companies. Its proximity to the populous center of Cumberland County has been historically advantageous. However, due to its debt load, a proposed increase in tipping fees could reduce the future flow of Cumberland County municipal waste to this facility. Cumberland County delivered roughly 9% of the total municipal waste received at the site in 2010, second only to the host county Dauphin. The counties of Northumberland, Perry and Schuylkill also were reported as delivering notable amounts of material there in 2010.

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#### **KEYSTONE SANITARY LANDFILL**

The Keystone Sanitary Landfill in Dunmore, Old Forge and Throop Boroughs, Lackawanna County is owned and operated by Keystone Quarry Inc. In 2010, none of the 5,000 tons per day received at the facility originated in Cumberland County. Keystone reported receipt of waste from 15 counties in 2010, mostly from Lackawanna and Luzerne. However, the most significant consumption of air space capacity at Keystone in 2010, approximately 50%, resulted from the disposal of waste originating in New York, New Jersey and Connecticut. Residual waste from Pennsylvania counties is disposed at Keystone, but it was no more than 7% of the overall volume in 2010.

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#### **LAUREL HIGHLANDS LANDFILL**

Waste Management's Laurel Highlands Landfill received no waste from Cumberland County in 2010. Previously, small quantities of Cumberland County waste was delivered to the landfill, which is located near Johnstown in Cambria County, from the Waste Management transfer station in Camp Hill. In 2010, 19 Pennsylvania counties competed with Cumberland for municipal and residual waste disposal capacity at Laurel Highlands. A major change at the facility is the absence of out of state waste disposed there in 2010.

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### LYCOMING COUNTY RESOURCE MANAGEMENT LANDFILL

Not far from Williamsport in North Central Pennsylvania, Lycoming County operates the Lycoming County Resource Management Landfill. Direct hauls to this landfill are likely cost prohibitive due to its distance from Cumberland County. The site did not receive any municipal waste from Cumberland in 2010. Lycoming accepted some form of municipal waste from 12 counties in 2010. It also received residual waste from 28 counties. Overall, the ratio of residual waste disposed at the landfill in 2010 was approximately 19%.

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### MODERN LANDFILL

Approximately 18% of the municipal waste stream from Cumberland County is disposed in Republic Waste Services Modern Landfill in nearby York County. Located in the Townships of Franklin, Atrium and Montgomery, the landfill receives waste from its own hauling company, York Waste, as well as other independent haulers. Of the 405,903 tons received at the facility in 2010, approximately 10% was municipal waste originating in Cumberland County. Eight counties delivered municipal waste to Modern in 2010 and 20 delivered residual waste. Additionally, Modern received out-of state waste from nine sources in 2010. York, Montgomery and Philadelphia counties were the largest sources of waste disposed at Modern.

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### MOSTOLLER LANDFILL

The Mosteller Landfill in Somerset County is another facility owned and operated by Advanced Disposal. Brothers Valley and Somerset Townships are the host municipalities to the landfill. Less than 1%, or 504 tons of the municipal waste stream originating in Cumberland County was disposed at this site in 2010. 100% of that material was construction demolition waste, likely hauled by Advanced Disposal. Despite its location in Somerset, Mosteller received more municipal waste from other counties and out-of-state sources than from its host area in 2010. Minimal amounts of residual waste were disposed there. Seventeen counties overall used the site, however, the primary sources of waste received at Mosteller in 2010 were New Jersey and Maryland, representing nearly 53% of the overall gate capacity consumed.

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### MOUNTAIN VIEW RECLAMATION LANDFILL

Another of Waste Management's facilities, the Mountain View Reclamation Landfill is located in Franklin County in the Townships of Atrium and Montgomery. Cumberland County waste is both hauled direct and transferred to the facility by Waste Management. In 2010, Mountain View received 1729 tons of municipal waste from Cumberland. That was less than 1% of the County's waste. Nine other counties utilized the facility for disposal. Other than Franklin, the host county, in 2010, Dauphin County sent more waste to Mountain View than did any other county in

Pennsylvania. Waste from Cumberland represented less than 3% of the gate capacity used in 2010. Bordering states of Maryland, West Virginia and Virginia also were significant sources of waste in 2010, disposing of 148,495 tons or 58.25% of the total 254,943 tons received at the site.

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#### **MOUNTAINVIEW SANITARY LANDFILL**

The only out of state landfill designated to receive Cumberland County municipal waste is the Mountainview Sanitary Landfill in Allegheny County near Frostburg, Maryland. No reports of waste disposal activity from Cumberland County sources were received from the facility in 2010.

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#### **PINE GROVE LANDFILL**

The Pine Grove Landfill was temporarily idled and therefore was unable to receive waste for a period. The Waste Management facility located in Pine Grove Township, Schuylkill County, has since resumed operation. In 2010, the facility received 25,894 tons of Cumberland County municipal waste. This represents nearly 12% of the Cumberland municipal waste disposed. Some of this waste is transported directly by the local Waste Management hauling operation and much is transferred from their site located in Cumberland County.

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#### **SANDY RUN LANDFILL**

Advanced Disposal also owns and operates Sandy Run Landfill in Broad Township, Bedford County. In 2010, the facility received 19,425 tons of construction demolition material from Cumberland, which represented 8.52% of the County's total municipal waste stream. It is likely that the waste was collected and transported by Advanced Disposal's hauling company. Sandy Run had a service area that encompassed 17 counties and 2 states in 2010. Bedford County surpassed all others in the amount of waste disposed at the site that year with 25,853 of the 172,799.2 total tons received. The state of Maryland was the largest source of waste disposed at the facility with, 55,944.8 tons

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#### **SHADE LANDFILL**

Somerset County is the location of Waste Management's Shade Landfill. Situated in Shade Township, none of the site's 100 ton per day capacity was comprised of Cumberland County Waste in 2010. Nine counties sent waste to Shade in 2010. Centre County delivered 70,056 tons making it the largest source of waste disposed at the site. Although out of state waste used to play an important role in the site's operation, in 2010, just a little more than 2,000 tons of waste were delivered to Shade from sources outside of Pennsylvania.

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### **SOUTHERN ALLEGHENIES LANDFILL**

Another Waste Management facility located in Somerset County is the Southern Alleghenies Landfill in Conemaugh Township. Similar to the Shade Landfill, this facility did not receive any waste volumes from Cumberland County in 2010. Of the 14 counties and 4 states that utilized Southern Alleghenies in 2010, Cambria exceeded all others in total combined tons disposed at 58,817.5. This represents roughly 65% of the gate capacity for 2010.

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### **WHEELABRATOR FALLS**

Only 333.1 tons of residual waste and no municipal waste from Cumberland County were delivered to the Wheelabrator Falls incinerator in 2010. The facility is located in Bucks County and is owned and operated by Wheelabrator Falls, Inc, a subsidiary of Waste Management. The facility did not enter into an agreement with the County for reserved disposal capacity in the last Plan update. Therefore, it was not designated to receive Cumberland County municipal waste and none was delivered there in 2010.

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### **YORK COUNTY RESOURCE RECOVERY**

Ranking third in receipt of 2010 Cumberland County municipal waste, the York County Resource Recovery Facility is owned and operated by the York County Solid Waste and Refuse Authority. Approximately 11% or 28,022 tons of Cumberland's municipal and residual waste was delivered to York in 2010. Overall, Cumberland County contributed roughly 6.75% of the total combined tons of waste received in 2010 at this operation located in Manchester Township. Built primarily to service the needs of its host county, this facility received 325,596.3 tons of waste from York in 2006 representing approximately 72% of its total gate receipts. The facility received municipal waste from 8 counties total and 3 states. Residual waste played a smaller role overall with the majority of tons originating in York County.

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### **OTHER METHODS OF DISPOSAL**

Not all of the waste generated in Cumberland County can be accounted for in facility reports. In the eastern part of the County, municipal contracts for curbside collection are more prevalent. However, in the western portion of Cumberland obtaining collection service is typically on a voluntary basis. Evidence suggests that less than all homeowners in this area contract directly to have their waste removed. Therefore, it is suspected that more waste is generated than is properly disposed.

Waste management options for residents of rural communities are often more utilitarian than those available in an urban setting. Backyard food and yard waste composting are more readily practiced since space constraints, proximity of

neighbors and odor concerns are not an issue. Many opt to store and self-haul household waste to a local landfill. Different buying habits combined with self-reliant lifestyles create an environment where packaging is minimal and items are often accumulated and reused many times rather than recycled. While these methods are all admirable, some questionable disposal concerns are often inflicted upon rural areas by local homeowners, as well as by non-residents.

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## OPEN BURNING

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Homeowners often raise concerns with the presence of a municipal waste disposal facility in close proximity to their community, yet open burning is generally considered acceptable by these same residents. Most individuals are unaware of the environmental and health issues related to open burning. Over the past 50 years,



more plastics and other synthetic material have entered the waste stream. When burned these materials emit pollutants. According to *The Evaluation of Emissions from the Open Burning of Household Waste in Barrels: Volume 1. Technical Report, November 1997* published by the USEPA, the levels of emissions of toxic chemicals from a single household burn barrel are potentially equal to those from a well-controlled municipal incinerator burning thousands of tons.

The open burning of municipal waste is not condoned in Cumberland County, but the practice does exist. In rural areas, where individuals live within greater distances of their closest neighbor, it is more tolerated than in suburban/urban municipalities.

However, it is not uncommon to see burning barrels and pits in the backyards of homeowners who have access to waste collection services. The reasons for open burning vary. The study, *Open Burning in Rural Northeastern Wisconsin: An Analysis of Potential Air Pollution* examined the motivations and behaviors associated with the burning of waste. The study found the major motivations for burning waste to be convenience, habit, avoided cost of trash collection, timesaving by not having to self-haul trash, and the long distance to disposal outlet. Adoption and enforcement of burning ordinances combined with ordinances requiring mandatory waste collection can minimize the practice.

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## ROADSIDE LITTERING

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Littering is a universal problem throughout the Commonwealth. Both rural and urban areas suffer the consequences. Cumberland County is no exception. Visible is the impact from those individuals who feel free to discard unwanted items during their daily travels. Litterers can be both motorists and pedestrians. Most are unaware of the cumulative toll of their actions and some simply lack civic pride. Urban littering can result from limited availability of waste and recycling receptacles in public places. Ultimately, the bottles, cans, paper and cigarettes strewn along the roadways and streets downgrades property values and can inhibit economic development. Education, enforcement and convenient disposal containers could help alleviate the issue.

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## ILLEGAL DUMP SITES

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A practice that is common to all counties in Pennsylvania is illegal disposal. Although more prevalent in rural areas, illicit dump sites can be spotted in cities and suburban neighborhoods. Cost of disposal is often a determining factor when an individual opts to use an illicit dumpsite. It is common for building contractors to haul material away from the job site of an unsuspecting homeowner and dispose of it over a hillside, rather than pay the landfill tipping fees. The lack of reasonable and convenient disposal outlets plays a major role. In areas where curbside collection of waste and recyclables is not mandatory, and particularly where it is unavailable, the incidents of illegal disposal activity increase. When landfills are located remotely from the point of waste generation, the distance often prompts transporters of material to find closer and cheaper means of disposal. Low risk of prosecution facilitates illegal dumping. In areas where enforcement is weak or non-existent, the fear factor has little or no impact on those seeking to deposit their unwanted materials on the property of others. Lack of awareness plays an important role. The simple existence of a dump broadcasts to others that it is an acceptable practice.

In 2005, PA CleanWays conducted a survey to determine the number and location of illegal dumpsites in Cumberland County. The project identified 37 locations where illegal dumping had or continued to occur. Safety was a factor for surveyors and therefore, they did not venture far from the roadways to seek potential sites. Additionally they avoided trespassing on private



lands. Therefore, the dumps that were identified, are likely just a sampling. It is suspected that many more sites exist.

A predominant trend in the survey was that more than half of the dumpsites were located in municipalities that have no curbside collection programs. A significant portion of the sites was active indicating that dumping was persistent in those locations. Dumps in these areas contained a high percentage of recyclables, as well as bulk items such as furniture and tires and white goods or appliances.

### SPECIAL HANDLING MUNICIPAL WASTE

There are certain portions of the municipal waste that must be managed through specialized methods of processing and disposal. These include land application of biosolids, and incineration of infectious chemotherapeutic waste.

### MANAGEMENT OF BIOSOLIDS AND RESIDENTIAL SEPTAGE

Wastewater from our homes and businesses is transported through pipelines to treatment facilities. Here the wastewater goes through a number of physical, chemical, and biological processes that clean it and remove the solids. The results are biosolids. Biosolids are not raw sewage, but are the nutrient-rich organic materials derived from wastewater solids that have been stabilized to meet specific processing and quality control standards. Biosolids often are disposed in landfills. Some biosolids are land-applied as a fertilizer to help rejuvenate farmland, forests and minelands.

In areas that are more rural, wastewater is held in a septic tank and periodically emptied by a septage transporter. There are essentially two acceptable methods of managing residential septage. The first option is to transport the septage to a municipal or private wastewater treatment facility or a septage treatment facility where it can be properly treated prior to final disposal. Because facilities within a reasonable driving distance may not be permitted to accept septage, this is not always a viable option. An alternative then is to beneficially use the septage by land application at an agricultural or reclamation site.

According to a statewide study conducted by the PADEP in 1993, 75% of the biosolids generated in the Commonwealth are land applied. At that point in time, however, less than 50% of sludge haulers and 70% of septage haulers had a permit for land application. Therefore, where the land application occurred and whether or not it was done in an environmentally responsible manner was unknown. The amount of registered transporters, the reported disposal tonnages compared to projected biosolids generation and the availability of registered land application sites, provide evidence that those conditions have improved today in Cumberland.

Table 2-5 lists the land application sites located in Cumberland County. These sites are recognized and inspected by the PADEP. The table identifies the permit holder as well as the entity that applies the material to the land. Both the name of the farm and also the municipality in which it is located are shown.

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## SEPTAGE TRANSPORTERS

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Transporters of residential septage in Pennsylvania must register with the PADEP. The transporter keeps detailed records information for each load of septage that is collected and transported. Required information includes, at a minimum, the county and state where the waste was collected; the name and address of the hauler transporting the septage; the name and location of the transfer, processing, or disposal facility where the septage has been or will be delivered; the weight or volume of the septage; and a description of any handling problems or emergency disposal activities. Although a report is not filed, the information must be made available upon request to PADEP inspectors. Septage cleanouts are done on a periodic as needed basis in accordance with local ordinances. Therefore Cumberland County municipalities requires homeowners to contact the transporter of choice. It is common for transporters to cross county lines to provide such services. The PADEP can only identify haulers based on their origin, not on their service area. Therefore, septage transporters are required to register their intent to operate within the County. Table 2-6 lists those registered septage haulers known to offer services within Cumberland County.

TABLE 2-5 CUMBERLAND COUNTY BIOSOLIDS LAND APPLICATION LOCATIONS 2010

<b>Biosolids Applier</b>	<b>Permittee</b>	<b>Permit_number</b>	<b>Destination Farm</b>	<b>Municipality</b>
Carlisle Borough	same	PAG-08-3570	Josephine Bream Farm	Penn Township
Carlisle Borough	same	PAG-08-3570	David Jumper Farm	Upper Frankford
Carlisle Borough	same	PAG-08-3570	John McKeehan Alexander Spring Farm	Dickinson Township
Carlisle Borough	same	PAG-08-3570	Harold Swarner Farm	South Middleton Township
Carlisle Borough	same	PAG-08-3570	Lewis Fink Farm	Dickinson Township
Carlisle Borough	same	PAG-08-3570	Nelson Shughart Farm	Upper Frankford Township
Carlisle Borough	same	PAG-08-3570	Chester Weaver Farm	West Pennsboro Township
Carlisle Borough	same	PAG-08-3570	Walter Fickes Farm	West Pennsboro Township
Carlisle Borough	same	PAG-08-3570	Ronald Hoover Farm 1	Lower Frankford Township
Carlisle Borough	same	PAG-08-3570	John McKeehan 81 Farm	Dickinson Township
Carlisle Borough	same	PAG-08-3570	William Brownewell Farm	Upper Frankford Township
Carlisle Borough	same	PAG-08-3570	Paul Dick Farm 2	Lower Frankford Township
Carlisle Borough	same	PAG-08-3570	Lewis Fink - Stonehouse Rd. Farm	Dickinson Township
Carlisle Borough	same	PAG-08-3570	John McKeehan - Mooredale Rd. Farm	Dickinson Township
Carlisle Borough	same	PAG-08-3570	Ronald Hoover Farm 2	Upper Frankford
Carlisle Borough	same	PAG-08-3570	Joseph Correal Farm	North Middleton Township
Carlisle Borough	same	PAG-08-3570	Paul Dick Farm 1	North Middleton Township
Carlisle Borough	same	PAG-08-3570	John McKeehan - Lay Farm	Dickinson Township
Carlisle Borough	same	PAG-08-3570	Kalbach Farm	North Middleton Township
Carlisle Borough	same	PAG-08-3570	James Deitch Farm	Dickinson Township

<b>Biosolids Applier</b>	<b>Permitee</b>	<b>Permit_number</b>	<b>Destination Farm</b>	<b>Municipality</b>
Carlisle Borough	same	PAG-08-3570	Robert Brownnewell Farm	Lower Frankford Township
Carlisle Borough	same	PAG-08-3570	Ronald Egolf Farm	North Middleton
Carlisle Borough	same	PAG-08-3570	Dennis Ruth Farm	Upper Frankford
Carlisle Borough	same	PAG-08-3570	E. Jade Janesko Farm	Upper Frankford Township
D.E.W. and Sons Septic Service	same	PAG-09-3513	Gutshall-R-Valley Farm	Lower Mifflin Township
D.E.W. and Sons Septic Service	same	PAG-09-3513	Robert Brownnewell Home Farm	Lower Frankford Township
Groff's Septic Service	same	PAG-09-3511	Donald Groff Farm	Upper Mifflin Township
Hampden Township	same	PAG-08-3568	Gerald Regi Farm	North Middleton Township
Hampden Township	same	PAG-08-3568, 3569	George Lee Souder Farm	West Pennsboro Township
Hampden Township	same	PAG-08-3568, 3569	Boyd Weary Farm	West Pennsboro Township
Hampden Township	same	PAG-08-3568, 3569	Paul Basehore Farm	Silver Spring Township
Hampden Township	same	PAG-08-3568, 3569	Willis Halteman Farm	West Pennsboro Township
Hampden Township	same	PAG-08-3568, 3569	Gary Shughart Farm	Monroe Township
Hampden Township	same	PAG-08-3568, 3569	Eugene Deimler Farm	Hampden Township
Hampden Township	same	PAG-08-3568, 3569	Joseph Dyarman Farm	West Pennsboro Township
Lower Allen Township Authority	same	PAG-08-3510	Meadows of Ashcombe Farm	Monroe Township
Lower Allen Township Authority	same	PAG-08-3510	Berkheimer Farm	Monroe Township
Mechanicsburg Borough	same	PAG-08-3528	Raymond Diehl Farm 2	Monroe Township
Mechanicsburg Borough	same	PAG-08-3528	Raymond Diehl Farm 3	Monroe Township
Mount Holly Springs Borough Authority	same	PAG-08-3577	Patrick Belt Farm	South Middleton Township
Mount Holly Springs Borough Authority	same	PAG-08-3577	Glenn Thrush Farm	Dickinson Township

<b>Biosolids Applier</b>	<b>Permittee</b>	<b>Permit_number</b>	<b>Destination Farm</b>	<b>Municipality</b>
Newburg - Hopewell Joint Authority	same	PAG-08-3598	Wayne Hensel Farm	Hopewell Township
Newville Borough Water and Sewer Authority	same	PABIS-3502	Denny McCullough Farm	West Pennsboro Township
North Middleton Authority	same	PAG-08-3555	Wickard Farm	North Middleton Township
North Middleton Authority	same	PAG-08-3555	Keith Sealover Farm	Middlesex Township
North Middleton Authority	same	PAG-08-3555	Stone Ridge Valley Farm - Fanelli	Middlesex Township
North Middleton Authority	same	PAG-08-3555	John Gleim Farm	Middlesex Township
North Middleton Authority	same	PAG-08-3555	Tracy Gleim Farm	Middlesex Township
Peck's Septic Service	same	PAG-08-3532	Donald Bream Farm 2	South Middleton Township
Peck's Septic Service	same	PAG-08-3532	Donald Bream Farm 1	South Middleton Township
Peck's Septic Service	same	PAG-08-3532	Ken Peck Farm	South Middleton Township
Peck's Septic Service	same	PAG-08-3532	Larry Ulsh Farm	South Middleton Township
Shippensburg Borough Authority	same	PAG-08-3507	Mark Brandt, Mud Level Road Farm	Southampton Township
Shippensburg Borough Authority	same	PAG-08-3507	Mark Brandt, Britton Road Farm	Southampton Township
Shippensburg Borough Authority	same	PAG-08-3507	Mark Brandt, Middle Spring Road Farm	Southampton Township
Superior Septic Services, Inc.	same	PAG-09-3548	Creekview Equestrian Center, Farm	Hopewell Township
SynaGro Mid Atlantic	various	various	Paul Kann Farm	Middlesex Township
Upper Allen Township	same	PAG-08-3592	Galen Byers Farm	South Middleton Township
Williams Grove Amusement Park	same	PAG-09-3520	Williams Grove Amusement Park and Speedway	Monroe Township

TABLE 2-6 SEPTAGE / BIOSOLIDS TRANSPORTERS OPERATING WITHIN CUMBERLAND COUNTY

<b>Company Name</b>	<b>Address Line 1</b>	<b>City, State, Zip</b>
Advanced Septic Services	65 Richard lane	Landisburg, PA 17040
Associated Products Services, Inc.	2 East Road	Mechanicsburg, PA 17050
B.A. Sweger	PO Box 242	Aspers, PA 17304
Baker's Septic Tank Cleaning	151 Harley Drive	Newport, PA 17074
Bauman's Septic Service	57 Pleasant View Road	Grantville, PA 17028
Carlisle Region WPCF	54 North Middlesex Road	Carlisle, PA 17013
Chamberlin & Wingert Sanitary Services, LLC	535 Lurgan Avenue	Shippensburg, PA 17257
D&D Septic Services	35 West North Street	Carlisle, PA 17013
Dillsburg Excavating & Septic, Inc.	516 Range End Road	Dillsburg, PA 17019
Eddie Waste Inc.	PO Box 286	Columbia, PA 17512
Gerald Taylor Co., Inc.	12 West Potomac Pkwy	Williamsport, MD 21795
Groff's Septic Service	99 Ickes Lane	Newville, PA 17241
Jacey Inc dba Roto Rooter	230 South 10th Street	Lemoyne, PA 17043
Kelly Systems, Inc.	1441 Stoneridge Drive	Middletown, PA 17057
Kline's Services, Inc.	5 Holland Street	Salunga, PA 17538
Little Enterprises Waste Hauling, Inc.	5 B Kutz Road	Carlisle, PA 17015
Mechanicsburg Borough Sewer Department	842 West Church Road	Mechanicsburg, PA 17055
Oaktree Environmental Services, Inc.	PO Box 116	Carlisle, PA 17013
OYE Hauling	203 W. Main Street	Walnut Bottom, PA 17266
Peck's Refuse Disposal, LLC	PO Box 172	McConnellsburg, PA 17233
Peck's Septic Service	68 Pine School Road	Gardners, PA 17324
Premiere Property Service	1695 Bedford Road	Shippensburg, PA 17257
Rosenberry's Septic Tank Service	8885 Pineville Road	Shippensburg, PA 17257
Stericycle, Inc.	1525 Chestnut Hill Road	Morgantown, PA 19543
Superior Septic Services, Inc.	8885 Pineville Road	Shippensburg, PA 17257
Walters Services, Inc.	PO Box 400	Grantville, PA 17028
Young's Sanitary Septic Service, Inc.	Po Box 704	Dillsburg, PA 17019

## INFECTIOUS CHEMOTHERAPEUTIC WASTE MANAGEMENT

Transporters of infectious chemotherapeutic waste also fall within the ranks of those requiring a license in Pennsylvania. A stipulation of the license is that each transporter must report the origin and ultimate destination of the waste. Table 2-7 shows the infectious chemotherapeutic waste transporters that are likely to operate within Cumberland County.

**TABLE 2-7 INFECTIOUS CHEMOTHERAPEUTIC WASTE TRANSPORTERS**

<p><b>Advant-Edge Solutions Inc</b> 927 Red Toad Rd North East, Md 21901</p>	<p><b>Conservative Env Svc Inc</b> Po Box 745 Mechanicsburg, Pa 17055</p>	<p><b>Med-Flex Inc</b> Po Box 357 Hainesport, Nj 08036</p>
<p><b>Agape Pet Services Llc</b> 19712 Shepherdstown Pike Boonsboro, Md 21713</p>	<p><b>Curtis Bay Energy Inc</b> 3200 Hawkins Point Rd Baltimore, Md 21226</p>	<p><b>Orchard Hill Memorial Park Inc</b> 187 Rt 94 Lafayette, Nj 07848</p>
<p><b>Alpha Bio/Med Services Llc</b> Po Box 304 Leola, Pa 17540-0304</p>	<p><b>Daniels New Jersey Llc</b> 2133-126 Upton Dr #436 Virginia Beach, Va 23454</p>	<p><b>Pet Memorial Services Corp</b> 126 Turner Lane W Est Chester, Pa 19380</p>
<p><b>Asepsis Inc</b> 424 W Lincoln Hwy Suite #204 Penn del, Pa 19047</p>	<p><b>Env Products &amp; Svc Of Vt Inc</b> 352 State Fair Blvd Syracuse, Ny 13204</p>	<p><b>Premier Med Waste Transp Ltd</b> 642 Willow St Pottstown, Pa 19464</p>
<p><b>Bestrans Inc</b> 931 Red Toad Rd North East, Md 21901</p>	<p><b>Env Waste Minimization Inc</b> 14 Brick Kiln Ct Northampton, Pa 18067</p>	<p><b>S H Bio-Waste Ltd</b> Po Box 2117 Norristown, Pa 19404</p>
<p><b>Bio-Haz Solutions Inc</b> Po Box 420 Lehigh ton, Pa 18235</p>	<p><b>Environmental Transport Group Inc</b> Po Box 296 Flanders, Nj 07836</p>	<p><b>Secured Med Waste Llc</b> 3113 Lauren Hill Dr Finksburg, Md 21048</p>
<p><b>Bio-Team Mobile Llc</b> 6 E Kendig Rd W Willow, Pa 17584</p>	<p><b>Hamilton Pet Meadow, Inc.</b> 1500 Klockner Rd Hamilton, Nj 08619</p>	<p><b>S-J Transportation Co Inc</b> Po Box 169 Woodstown, Nj 08098</p>
<p><b>Citiwaste Llc</b> Po Box 360102 Brooklyn, Ny 11236</p>	<p><b>Healthcare Waste Solutions Inc</b> 1281 Viele Ave Bronx, Ny 10474</p>	<p><b>Stericycle Inc</b> 1525 Chestnut Hill Rd Morgantown, Pa 19543</p>
<p><b>Clean Harbors Environmental Services</b> 42 Longwater Dr Norwell, Ma 02061</p>	<p><b>Marcor Remediation Inc</b> 246 Cockeysville Rd Ste 1 Hunt Valley, Md 21030</p>	<p><b>The Cardinal Group Inc</b> 828 N Hanover St Pottstown, Pa 19464-4253</p>
<p><b>Coast Medical Supply Inc</b> 200 Tornillo Way, Suite 110 Tinton Falls, Nj 07712</p>	<p><b>Med Waste Recovery Inc</b> 9 Broadway Suite 30 Denville, Nj 07834</p>	<p><b>Veolia Es Technical Solutions, L.L.C.</b> 1 Eden Ln Flanders, Nj 07836</p>

## DISPOSAL SYSTEM ASSESSMENT AND RECOMMENDATIONS

Overall the majority of Cumberland County's citizens and businesses act to manage municipal waste in an environmentally responsible fashion. Disposal capacity has been available for all forms of municipal waste generated, although competition exists for outlets in close proximity. Many residents have access to waste collection opportunities. Still, there is room for improvement.

Since the development and implementation of the original Municipal waste Management Plan in 1990, the Cumberland County Recycling & Waste Authority, on behalf of the County, has promoted pollution prevention as well as the protection of the health and safety of the community. By monitoring waste collection and disposal activities, the Authority has been able to identify the lingering needs of underserved areas of the County and the growing demands for new services overall. However, lack of financial and political support have often constrained the Authority's ability to resolve these issues

To enhance the waste management program, it is recommended that the County consider opportunities to provide convenient and affordable disposal outlets for not only regular household waste, but bulky items and white goods as well. Collection mechanisms for household hazardous waste and electronic waste should also be developed. The County should also explore methods of enforcement.

To accomplish these tasks, it is suggested that the municipalities should be engaged and organized in a joint partnership with the County. Additionally, the County should increase support and promotion of the volunteer organizations active in litter prevention and cleaning up illegal dumps. Many of these recommendations, along with potential methods of implementation, are discussed in Chapter 5.