

UPDATE

TO THE CUMBERLAND COUNTY

SOLID WASTE MANAGEMENT PLAN

PREPARED FOR THE

CUMBERLAND COUNTY BOARD OF CHOSEN FREEHOLDERS

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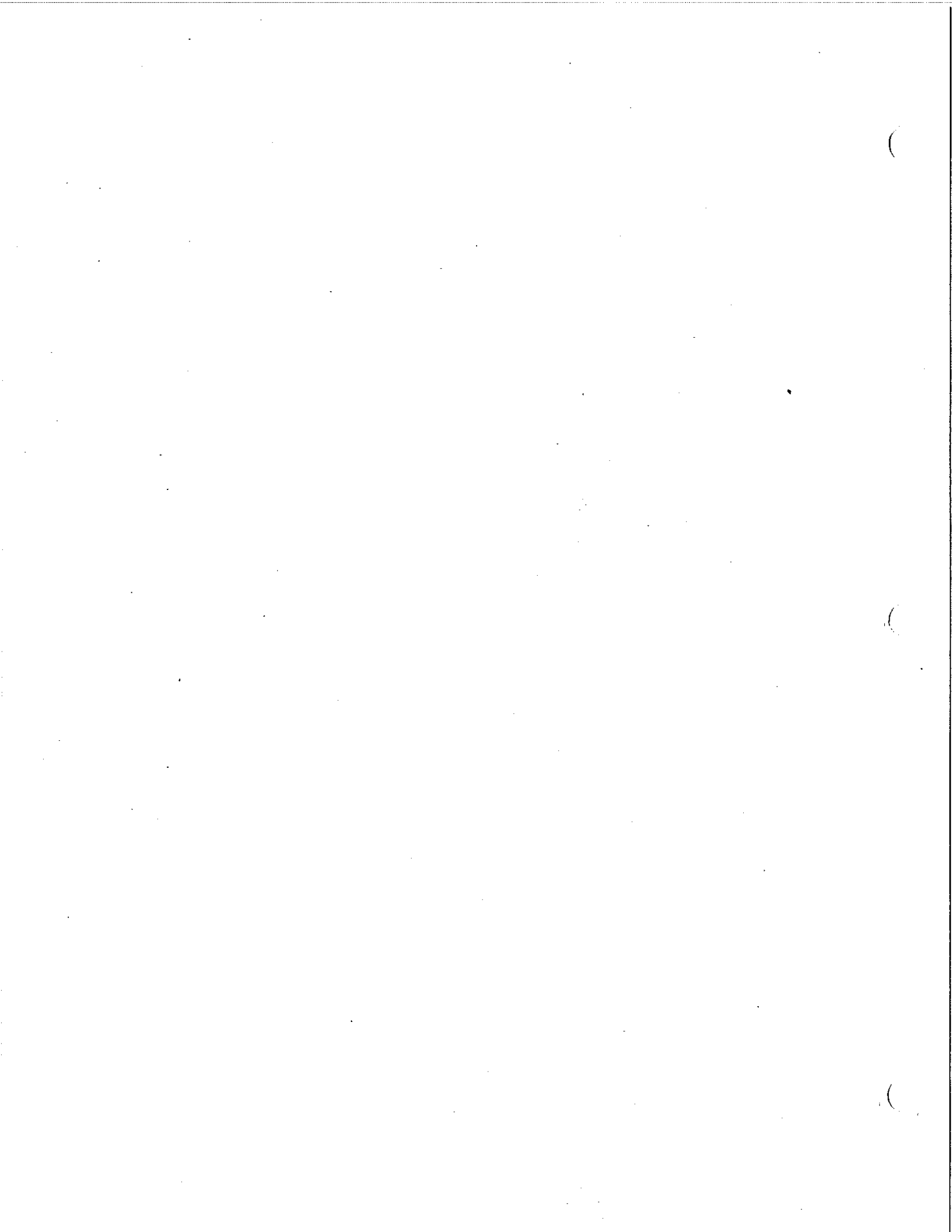
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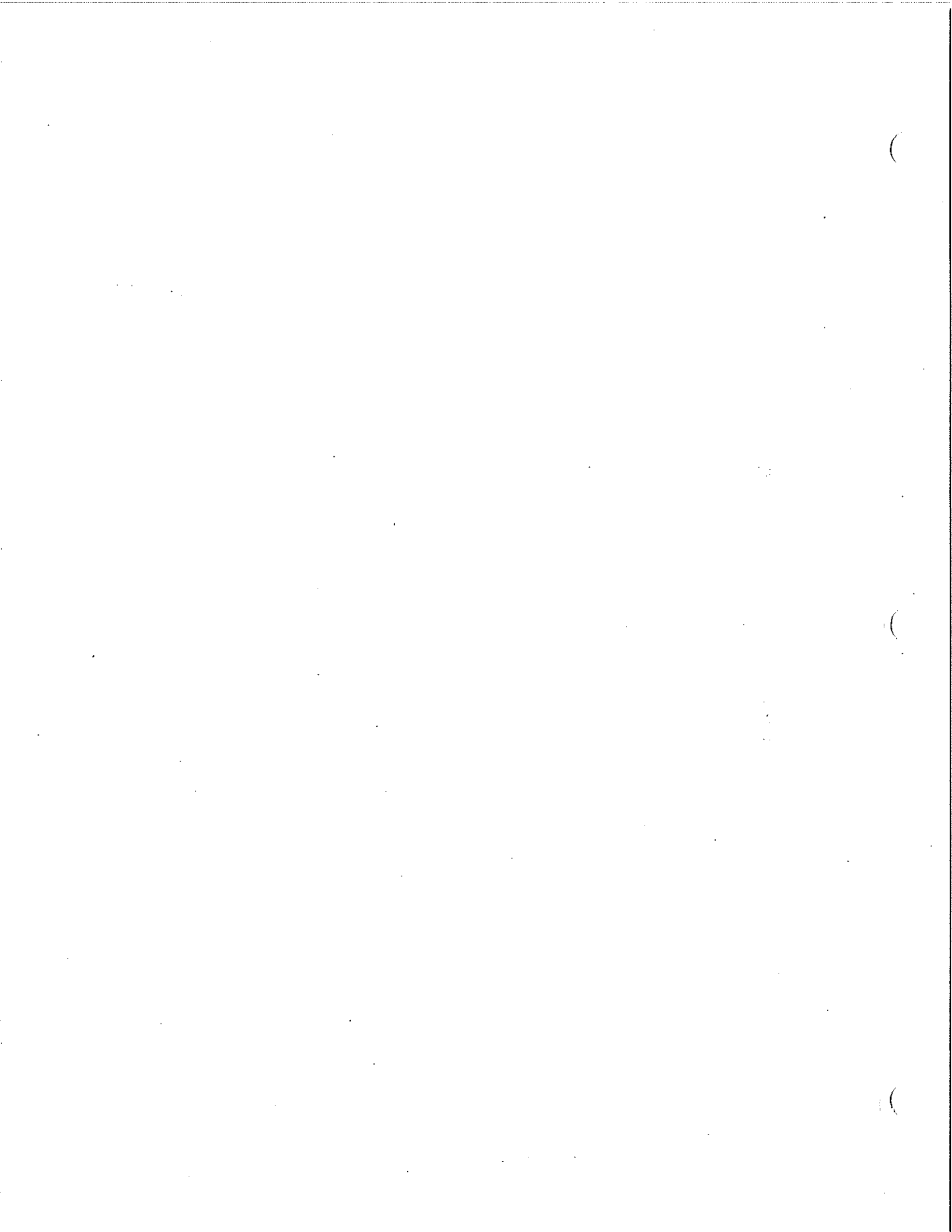


## Introduction

The New Jersey Statutes Annotated, 13:1E-20, requires that a district solid waste management plan contain provisions for automatic review by the Board of Chosen Freeholders not less than once every 2 years following approval by the Department of Environmental Protection.

Cumberland County has reviewed its Plan and has determined that revisions are necessitated by events of the past 2 years, in addition to proposed amendments to the Plan.

This report updates the information provided in the Cumberland County Solid Waste Management Plan (1979), the Modifications to Cumberland County Solid Waste Management Plan (1980), and the Certification of Approval with Modifications of the Cumberland County District Solid Waste Management Plan (1981).



## Table 1 - Narrative

Solid waste generation in Cumberland County, as reported by haulers in 1980, totaled 187,770 tons, as shown on Table 1A. Of this amount, approximately two-thirds was of non-industrial types. An additional 11,000 tons of sludges, toxics, and liquids were also reported. These waste types, as well as some of the waste shown on Table 1A, probably were not landfilled in Cumberland County.

Actual tonnage probably was less than the records indicate because much waste is hauled by individuals, industries, and private haulers that do not use compactor trucks. Waste flow may actually be declining because of decreased industrial activity, several large plant closings and reductions, slowing population growth, greater conservation of consumer goods, and recycling activities of individuals and industries.

Two other sources of information have been used to estimate solid waste generation. Table 1B contains information in cubic yards from the Board of Public Utilities. Table 1C contains an estimate in cubic yards of total solid waste generation based upon the BPU information, estimates by municipal officials, and the Solid Waste Management Plan.

EXISTING SOLID WASTE GENERATION

Table 1A

Waste Types (Tons/Year)

Municipality	10	13	18	23	25	27	Total
Bridgeton	15,536	1,189		195	1,984	4,536	23,440
Commercial	2,803	25					2,828
Deerfield	No report						
Downe	No report						
Fairfield	371	3					374
Greenwich	1,159						1,159
Hopewell	647	9					656
Lawrence	No report						
Maurice River	1,138	40					1,178
Millville	21,431	1,430		60		7,663	30,584
Shiloh	No Report						
Stow Creek	No Report						
Upper Deerfield	3,188						3,188
Vineland	48,133	13,258	3,490	785		4,300	69,966
Various	<u>10,955</u>	<u>4,682</u>				<u>38,760</u>	<u>54,397</u>
Totals	105,361	20,636	3,490	1,040	1,984	55,259	187,770

SOURCE: Department of Environmental Protection printout VSWWDMUN, dated February 12, 1980 showing 1980 information

Table 1B: Estimated Quantity of Solid Waste Entering at Selected Cumberland County Landfills, 1982

Landfill(a)	Recorded Cubic Yards January 1 to June 30	Estimated Cubic Yards 1982
Bridgeton	41,167	83,000
Millville	56,349	114,000
Upper Deerfield	13,591	29,200
Vineland	<u>146,600</u>	<u>295,000</u>
Total	257,707	521,200

SOURCE: New Jersey Board of Public Utilities

(a) These four landfills account for 85 percent of the estimated total volume of solid wastes disposed in Cumberland County. Thus, the yearly volume of solid wastes entering landfills is estimated to be approximately 600,000 cubic yards per year for Cumberland County.

Landfill	Waste Source	1983 Volume(a) (cubic yards)
Bridgeton (0601A)	Bridgeton	83,000 (b)
	Stow Creek/Shiloh	5,700 (c)
	Upper Deerfield	<u>22,500</u> (c, d)
	Sub-Total	111,200
Commercial (0602A)	Commerical	3,800 (e)
Deerfield (0603A)	Deerfield	1,500 (c)
Downe (0604B)	Downe	2,200 (e)
Fairfield (0605A)	Fairfield	3,000 (c)
Hopewell (0607A)	Greenwich/Hopewell	2,900 (c)
Lawrence (0608C)	Lawrence	3,200 (e)
Maurice River (0609B)	Maurice River	12,800 (c)
Upper Deerfield (0613A)	Upper Deerfield	7,500 (c, d)
Vineland (0614B)	Millville	114,000 (b)
	Vineland	295,000 (b)
	Various unidentified	<u>48,000</u> (e)
	Sub-Total	<u>457,000</u>
	Total	605,100

(a) 1983 volumes are assumed to be equal to 1982--no factor is assumed for growth and no reduction is assumed for recycling. (Based on reports for January 1, 1982 - June 30, 1982)

(b) 1982 volumes are as reported to the New Jersey Board of Public Utilities.

(c) 1982 volumes are as estimated by municipal officials.

(d) Upper Deerfield will accept individually delivered household wastes (no dumping fee) for a six-month period; all other wastes will be redirected to Bridgeton.

(e) Volumes projected by multiplying tonnage in Solid Waste Management Plan by 4.7 cubic yards per ton.

## Table 2 - Narrative

Two landfills have closed since the Cumberland County Solid Waste Management Plan was approved in March 1981. Waste from Stow Creek is being placed in a "greenbox" at the closed township facility and is then hauled to the Bridgeton landfill. The Borough of Shiloh, which previously used the Stow Creek Township facility, began curbside collection with final disposal in Bridgeton. Millville waste has been directed by the Department of Environmental Protection and the Board of Public Utilities to the Vineland landfill. A "greenbox" is soon to be located at the site of the former Millville landfill for the convenience of residents as an adjunct to curbside pickup. The Upper Deerfield landfill is expected to reach capacity during 1983. It is accepting only privately delivered residential waste.

Recent estimates (February 1983) of landfill capacity in Cumberland County indicate space to accommodate the solid waste for approximately one and one-half years at present rates. Planned recycling activities and continued decreased industrial and commercial waste generation due to economic decline will allow some additional space. The estimated 350 tons per day generation rate is expected to continue through the planning period.

Some municipalities may need to seek interlocal service agreements with municipalities having excess space or to transport waste to a BPU regulated landfill before the planned opening of the new county landfill in 1985. It is planned that all existing municipal landfills be closed by December 31, 1984. The July 1983

Amendments to the Cumberland County Solid Waste Management Plan  
authorize this change from the original Plan approval.



NOTE:

Complete One Table for each

Facility Type:

- Landfills
- Resource Recovery Facilities
- Composting Facilities
- Incinerators
- Others: Specify

EXISTING SOLID WASTE FACILITIES  
PROPOSED WASTE FLOWS

Table 2A-1

Facility Type: Landfills

Facility	DEP #	Location (Municipality /County)	Status: See Below	Waste Flow: a) by waste type and municipality b) if sole source: indicate same	Is waste flow con- sistent with Ap- proved Plan yes/no	Planned/ Approxi- mate Closure Date	Capacity: Landfills: (Remaining Capacity: in tons)
Bridgeton	0601A	Bridgeton	1	Bridgeton: #10, #13, #23, #25, #27 Fairfield: #25, #27 Greenwich: #25, #27 Hopewell: #25, #27 Stow Creek: #10, #13, #23, #25, #27 Shiloh: #10, #13, #23, #25, #27 Upper Deerfield: #10, #13, #23, #25, #27	No	12/31/83	18,723
Commercial	0602A	Commercial	1	Commercial: #10, #13, #23	No	12/31/84	16,340
Deerfield	0603A	Deerfield	1	Deerfield: #10, #13, #23	No	12/31/84	3,191
Downe	0604B	Downe	1	Downe: #10, #13, #23	No	12/31/84	14,043
Fairfield	0605A	Fairfield	1	Fairfield: #10, #13, #23	No	12/31/84	3,191
Hopewell	0607A	Hopewell	1	Hopewell: #10, #13, #23 Greenwich: #10, #13, #23	No	6/30/84	638

NOTE:

Complete One Table for each  
 Facility Type: EXISTING SOLID WASTE FACILITIES  
 - Landfills PROPOSED WASTE FLOWS  
 - Resource Recovery Facilities Facility Type: Landfills  
 - Composting Facilities  
 - Incinerators  
 - Others: Specify

Table 2A-2

Facility	DEP #	Location (Municipality /County)	Status: See Below	Waste Flow: a) by waste type and municipality b) if sole source: indicate same	Is waste flow con- sistent with Ap- proved Plan yes/no	Planned/ Approxi- mate Closure Date	Capacity: Landfills: (Remaining Capacity: in tons)
Lawrence	0608C	Lawrence	1	Lawrence: #10, #13, #23	No	12/31/84	1,277
Maurice River	0609B	Maurice River	1	Maurice River: #10, #13, #23	No	12/31/84	9,957
Upper Deerfield	0613A	Upper Deerfield	1	Upper Deerfield: #10	No	12/31/83	1,596
Vineland	0614A	Vineland	1	See Page 2A-4			
Vineland	0614B	Vineland	1	Vineland: #10, #13, #18, #23, #25, #27 Millville: #10, #13, #23, #25, #27 Commercial: #25, #27 Deerfield: #25, #27 Downe: #25, #27 Lawrence: #25, #27 Maurice River: #25, #27	NO	12/31/84	127,600

SOURCE: Cumberland County Solid Waste Management Plan, December 1979 (RAS Associates) and  
 Municipal Officials

Report on Interim Solid Waste Management Plan and Status of Site Selection, January 1983  
 (Sheaffer & Roland, Inc.).

Amendments to the Cumberland County Solid Waste Management Plan, July 1983  
 (Sheaffer & Roland, Inc.)

Modifications to Cumberland County Solid Waste Management Plan, December 1980.  
 Compiled February 1983.

EXISTING SOLID WASTE FACILITIES  
PROPOSED WASTE FLOWS

Facility Type: Landfills

Waste Flow:

- a) by waste type and municipality
- b) if sole source: indicate same

Facility	DEP #	Location (Municipality/County)	Status: See Below	Is Waste Flow consistent with Approved Plan Yes/No	Planned/ Approximate Closure Date
Downe #1	0608B	Downe Township	5	Yes	October 1978
Downe #2	0604A	Downe Township	5	Yes	1978
Lawrence #1	0608A	Lawrence Township	5	Yes	October 1978
Maurice River	0609C	Maurice River Township	5	Yes	1980
Millville	0610A	City of Millville	4	Yes	January 29, 1983
Stow Creek	0612A	Stow Creek Township	5	Yes	December 31, 1981
Stow Creek #2	0612B	Stow Creek Township	5	Yes	December 31, 1981
City of Vineland	0614C	City of Vineland	5	Yes	1976

EXISTING SOLID WASTE FACILITIES  
PROPOSED WASTE FLOWS

- Facility Type:  
 - Landfills  
 - Resource Recovery Facilities  
 - Composting Facilities  
 - Incinerators  
 - Others: Specify

Facility Type Composting Facilities

Facility	DEP #	Location (Municipality/County)	Status: See Below	Waste Flow: a) by waste type and municipality b) if sole source: indicate same	Is Waste flow Consistent with Approved Plan Yes/No	Planned/ Approximate Closure Date	Capacity: Landfills: (Remaining Capacity in tons) Others: (Tons per day)
Alex Hayes	0614A	City of Vineland	1	#23 Vineland	Yes	--	N.A.
John Mellor, Jr.*		City of Millville	2	#23 Millville	no	--	N.A.
City of Millville*		City of Millville	2	#23 Millville	no	--	N.A.

\*Currently being reviewed by DEP.

- Facility Status Categories
- 1) Operating - With Approved Engineering Plans
  - 2) Operating - No Approved Engineering Plans
  - 3) Closed - With Approved Closure Plan
  - 4) Closed - No Approved Closure Plan

EXISTING SC WASTE FACILITIES  
PROPOSED WASTE FLOWS

Table 2C

Facility Type: Transfer Stations

Facility Dep #	Location (Municipality)	Municipalities Served Waste Types Collected	Final Disposal Facility (by municipality)	Is waste flow consistent with approved plan? yes/no (See note to Table 2A)
Stow Creek 0612A	Stow Creek	Stow Creek #10	Bridgeton	Administrative Consent Order
Millville 0610A	Millville	Millville #10	Vineland	DEP BPU redirection

### Table 3 Narrative

#### Proposed Interdistrict Waste Flow Policy

The goal of this updated solid waste management plan is to accommodate all of the non-toxic, nonhazardous wastes generated within the County. Waste types 17, 70, and 76 will continue to be hauled by private contractors to approved disposal sites outside the County.

It is anticipated that no interdistrict agreements to transport waste into or out of the County will be developed at the present time. The New Jersey Department of Environmental Protection has directed the City of Vineland to accept waste from the Borough of Newfield.

At a later date, waste from outside the district may have to be refused and redirected along with some waste from Cumberland County to approved sites in surrounding counties.

EXISTING INTERDISTRICT WASTE FLOWS AND AGREEMENTS  
Waste Imported from Outside of District

Table 3

Sending District/ Municipality	Receiving Facility	Facility Location	DEP	Waste Types	Approximate Annual Waste Flow (1981) (tons)	Covered by Interdistrict Agreement*	Agreement Period Expiration Date (day/mo/yr)
Borough of Newfield	Vineland Landfill	Vineland	0614B	#10, 13, 23, 25, 27	426-852	By DEP direction	None

\*A narrative describing any relevant aspects of these agreements should be provided.

SOURCE: Municipal officials

Table 4,5- Narrative

The predominant method for transporting solid waste to a landfill in Cumberland County is by private individuals, businesses, and industries hauling their own waste or contracting with a hauler to do so. The City of Millville has its own residential curbside pickup. Four municipalities provide residential pickup as shown on Tables 4 and 5A. Additional bulk pickups are made in the following municipalities for large items, leaves, grass cuttings, or brush: Bridgeton, Millville, Upper Deerfield, and Vineland.

The many private solid waste haulers are listed on Table 5B. Smaller contractors tend to specialize in certain areas. Many local businesses and industries prefer to haul waste in their own vehicles. When the new county landfill opens, the new location and greater haulage distances may affect this pattern.

As available landfill space has decreased and tipping fees have increased, there has been more emphasis on recycling/source separation activities. In addition to the voluntary drop-off centers in Greenwich, Stow Creek, and at local recycling markets, Vineland has initiated a mandatory source separation curbside pickup effort in District #1. Millville has been awarded a grant and will soon begin a curbside pickup of recyclables. Fairfield Township has been awarded a litter abatement grant and will begin education efforts for recycling. Bridgeton and Hopewell Township have initiated advertising campaigns to encourage recycling. Several municipalities are planning to apply for recycling funds as shown on Table 7.

It is expected that the goal of recycling ten percent (13,000 tons per year) of the solid waste in Cumberland County will be met in 1985. This will be accomplished by planned intensified efforts by the individual municipalities and as part of the operation of the new county landfill when it opens in 1984.



SOLID WASTE COLLECTION PRACTICES

Table

Municipality	Type of Collection Service: (Residential)	Approximate % of Municipality Served	Type of Collection Service: (Industrial)	Approximate % of Municipality Served	Type of Collection Service: (Commercial)	Approximate % of Municipality Served
Bridgeton	P, I	100	P, I	100	P, I	100
Commercial	C	100	P, I	100	P, I	100
Deerfield	P, I	100	P, I	100	P, I	100
Downe	P, I	100	P, I	100	P, I	100
Fairfield	P, I	100	P, I	100	P, I	100
Greenwich	P, I	100	P, I	100	P, I	100
Hopewell	P, I	100	P, I	100	P, I	100
Lawrence	P, I	100	P, I	100	P, I	100
Maurice River	C	100	P, I	100	P, I	100
Millville	M	100	P, I	100	P, I	100
Stow Creek	P, I	100	P, I	100	P, I	100
Shiloh	C	92	P, I	100	P, I	100
	P, I	8			C	25
Upper Deerfield	P, I	100	P, I	100	P, I	75
Vineland	C	65	P, I	100	P, I	100
	P, I	35			P, I	100

1  
1  
1

Key to Collection Types:

- M--Municipal Collection; municipal trucks and crews
  - C--Municipal Contract; private trucks and crews, paid by municipality pursuant to contract
  - P--Private Collection; private trucks and crews, paid by individuals for their own waste disposal
  - I--Individual Removal; individuals must haul waste to disposal facility
- Source: Interviews with local officials.

For those municipalities with Municipal Contracts for residential waste removal (category C on Table 4)

Municipality (or part thereof)	Contractor	Contract Period (day/month/year)	Cost Per Year	Does contract state that waste disposal must comply with District Plan waste flow?
Commercial	Richard Peterson and Son	1/2/83 - 12/31/83	\$39,000	Yes
Maurice River	Instant Disposal	9/1/82 - 8/31/83	29,914	Yes
Shiloh	Elwell's Trash Service	8/1/82 - 7/31/83	8,460	Yes
Vineland	Instant Disposal	1/1/83 - 12/31/84	329,000 (398,000 with recyclables)	No

SOURCE: Local officials

## MUNICIPAL SOLID WASTE COLLECTORS\*

Table 5B-1

For those municipalities (or portions thereof) which  
have private collection (category P on Table 4)

Municipality (or part thereof)	Contractor(s)
Bridgeton	Winfield Riley Frank Harris Francis Johnson Glanville Trash Service Theodore Cooper William Murray Luther Williamson Elwell's Trash Service, Inc. Instant Disposal Service, Inc. South Jersey Trash Service Marker's Rubbish Removal Richard Peterson & Son King Davis Alex Boston Chemical Waste Management Manuel Guerrero
Commercial	Joseph Johnson, Jr. Richard Peterson & Son
Fairfield	Elwell's Trash Service, Inc.
Greenwich	Elwell's Trash Service, Inc. Compaction Systems Corp. of BR
Hopewell	Frank Harris Elwell's Trash Service, Inc.
Maurice River	Instant Disposal Service, Inc.
Millville	Cifaloglio, Inc. Swanson's Hauling Art Anderson, Inc. Zack Higginbotham Instant Disposal Service, Inc. South Jersey Trash Service Marker's Rubbish Removal Richard Peterson & Son
Upper Deerfield	Luther Williamson Elwell's Trash Service, Inc.

## MUNICIPAL SOLID WASTE COLLECTORS

Table 5B-2

For those municipalities (or portions thereof) which  
have private collection (category P on Table 4)

Municipality (or part thereof)	Contractor(s)
Vineland	Arthur J. Ogren, Inc. Peterson Trash Removal Service Orville Moore, Jr. Cifaloglio, Inc. Peter Hall Edwin Jennings Zack Higginbotham & Son Harold E. Smith & Sons, Inc. Henry Cifaloglio Nathan Goodman & Sons Jim Berns Art Anderson, Inc. Zack Higginbotham John Sanders Elwell's Trash Service South Jersey Trash Service Markers Rubbish Removal Joseph Abba Richard Peterson & Son Reuben Smith Rubbish Removal John M. Ward & Associates Instant Disposal Service, Inc.

\*Only those contracting solid waste types listed in  
Table 1. Does not include commercial/industrial enterprises  
which haul their own wastes.

Source: DEP printout VSWWDCOL, October 7, 1981 (reports  
1980 information).

Table 6, 7

Currently, the Solid Waste from 14 communities within the County is directed to 10 municipally operated landfills. Residents of 5 municipalities (Greenwich, Millville, Shiloh, Upper Deerfield, and Stow Creek) must dispose of their waste at facilities in neighboring communities. When the regional landfill becomes operational January 1, 1985, all 14 municipalities will direct their waste to the new facility.

Three municipalities have initiated source separation activities to reduce waste flows and to lengthen the life of the existing landfills. Greenwich and Stow Creek Townships collect glass at drop-off centers. Vineland has a mandatory program of curbside collection of glass and newspaper. Additionally Recycling or litter abatement programs are planned in Bridgeton, Millville, and Fairfield, Hopewell, and Stow Creek Townships.

(Based on Existing Waste Flows)

Municipality	Disposal Facility	Distance (one way) (miles)	Primary Route(s)	Utilization of Transfer Station (No) or (Name of Facility)
Bridgeton	Bridgeton Landfill	Within Municipality	Laurel & Commerce St. to Park Dr.	No
Commercial	Commercial Township Landfill	Within Municipality	Haleyville Rd.	No
Deerfield	Deerfield Township Landfill	Within Municipality	Vineland Ave.	No
Downe	Downe Township Landfill	Within Municipality	Ackley Rd.	No
Fairfield	Fairfield Township Landfill	Within Municipality	Lummis Mill Rd.	No
Greenwich	Hopewell Township Landfill	3 miles	Greenwich Rd. to Dutch Neck Rd. to Trench Rd.	No
Hopewell	Hopewell Township Landfill	Within Municipality	Trench Rd.	No
Lawrence	Lawrence Township Landfill	Within Municipality	Shaws Mill Rd.	No
Maurice River	Maurice River Township Landfill	Within Municipality	Tuckahoe Rd.	No

COLLECTION HAUL ANALYSIS

Table 6A-2

(Based on Existing Waste Flows)

Municipality	Disposal Facility	Distance (one way) (miles)	Primary Route(s)	Utilization of Transfer Station (No) or (Name of Facility)
Millville	Vineland Landfill	6 miles	Rt 55 to Sherman Ave., to Orchard Rd. to Walnut Rd. to Mill Rd.	At Millville Landfill (which is closed)
Shiloh	Bridgeton Landfill	4.5 miles	Route 49	No
Upper Deerfield	Upper Deerfield & Bridgeton Landfill	Within Municipality	Woodruff Husted Station Rd. & Deerfield Bridgeton Pike	No
Vineland	Vineland Landfill	Within Municipality	Mill Rd.	No
Stow Creek	Bridgeton Landfill	7 miles	Route 49	At Stow Creek Landfill (which is closed)

COLLECTION HAUL ANALYSIS

Table 6B-1

(Based on Proposed Waste Flows)  
 (Complete only if waste flow changes are to be included in Plan)

Municipality	Disposal Facility	Distance (one way) (miles)	Primary Route(s)	Utilization of Transfer Station (No) or (Name of Facility)
Bridgeton	County Landfill	8.25 miles	Rt. 552	(Utilization of transfer stations will be evaluated concurrent with final design of new landfill)
Commercial	County Landfill	13.5 miles	Rt. 670, 627, 555, 47, 55, 552	
Deerfield	County Landfill	3.5 miles	Rt. 717, 552	
Downe	County Landfill	15.0 miles	Rt. 555, 47, 55, 552	
Fairfield	County Landfill	9.5 miles	Rt. 553, 675, 552	
Greenwich	County Landfill	15.5 miles	Rt. 607, 49, 552	



COLLECTION, AUL ANALYSIS

Table 6B-2

(Based on Proposed Waste Flows)  
 (Complete only if waste flow changes are to be included in Plan)

Municipality	Disposal Facility	Distance (one way) (miles)	Primary Route(s)	Utilization of Transfer Station (No) or (Name of Facility)
Hopewell	Central County Landfill	11.0 miles	Rt. 49, 552	
Lawrence	Central County Landfill	12.0 miles	Rt. 610, 625, 608, 552	
Maurice River	Central County Landfill	11.5 miles	Rt. 47, 55, 552	
Millville	Central County Landfill	7.0 miles	Rt. 47, 55, 552	
Shiloh	Central County Landfill	12.5 miles	Rt. 49, 552	
Stow Creek	Central County Landfill	14.0 miles	Rt. 49, 552	

COLLECTION/HAUL ANALYSIS

Table 6B-3

(Based on Proposed Waste Flows)  
 (Complete only if waste flow changes are to be included in Plan)

Municipality	Disposal Facility	Distance (one way) (miles)	Primary Route(s)	Utilization of Transfer Station (No) or (Name of Facility)
Upper Deerfield	Central County Landfill	8.5 miles	Rt. 553, 552	
Vineland	Central County Landfill	7.5 miles	Rt. 552	

EXISTING RECYCLING/SOURCE SEPARATION ACTIVITIES

Table 7A

Municipality	Program Administered by	Program Collector (a)	Collection Mode (b)		Materials	Tons Per Year	Current Market(s) (a)	Markets Covered by Contract (Yes/No) (a)		Mandatory Ordinance (Yes/No) (a)	Applying for Recycling Grants? (Yes/No) (c)
			Curbside Pickup, Depot, or both	Schedule/Location				Yes (a)	No (a)		
Greenwich	Recreation Commission Volunteers	Owens-Illinois	Drop-off Center	County Information Center/Unlimited	Glass	N.A.	Owens-Illinois	No	No	Yes	Being Considered
Stow Creek	Township Committee		Drop-off Center	Former Landfill/Unlimited	Glass	N.A.	Owens-Illinois	No	No		
Vineyard	Engineering Department	Instant Disposal	Curbside Pickup	One pickup per week alternating materials	Glass Newspaper	700 375	Glass-Cumberland Recycling, Paper Giordano	Yes	Yes (in District)	Applied for	
County	Individuals, residential, commercial, industrial scavengers and haulers	Volunteers	Drop-off at local markets	Depending on market	Glass Newspaper Scrap Iron Cardboard Vegetative Waste Aluminum Used oil	Glass 2,756	Owens-Illinois Kerr Glass Cumberland Recycling Farmers	No	No	Being Considered by several municipalities	

SOURCE: Cumberland County Planning Source Separation Feasibility Study, September, 1980.

- Municipal representatives
- Volunteers
- Market representatives
- News articles

PROPOSED RECYCLING/SOURCE SEPARATION ACTIVITIES

Table 7B

Municipality	Program Administered by	Program Collector (a)	Collection Mode (b)		Materials	Tons Per Year	Current Market(s) (a)	Markets Covered by Contract (Yes/No) (a)	Mandatory Ordinance (Yes/No) (a)	Applying for Recycling Grants? (Yes/No) (c)
			Pickup, Depot, or both	Schedule/Location						
Fairfield Township (Litter Abatement)	Township Committee Coordinator: Bonnie Zickis	Volunteers Welfare Recipients, Court release individuals	Depot Roadside Cleanup	Various Locations/Unlimited	Glass Paper Aluminum Scrap metal	N.A.	Owens-Illinois Lucifano	No	No	Yes Letter Awarded Plan to Apply for Recycling Funds
Millville	City Commission	Municipal Employees	Curbside Pickup	One pickup per week	Glass Newspaper Cardboard Aluminum Ferrous metals	1,535 1,364 1,535 171 682 (When mandatory)	Kerr, Cumberland Recycling	No	No	Yes Funds Awarded
Bridgeton	City Council	Owens-Illinois Depot		Owens-Illinois/when recycling center is opened	Glass	1,000	Owens-Illinois	No	No	Yes applied to recycling fund
Hopewell	Township Committee	Municipal Employees	Depot	Township Landfill when open	Glass Brush, Leaves	54.5	Owens-Illinois Compost	No	No	Yes applied to recycling fund
Stow Creek	Township Committee		Drop-off	Township Landfill (when open)	Paper Iron Brush		Cumberland Recycling			Yes applied to recycling fund

SOURCE: Municipal representatives, news articles.

Table 8, 9 - Narrative

The proposed Amendments to the Cumberland County Solid Waste Management Plan designated a single landfill to serve the entire solid waste district. The Plan, as modified, had called for 2 landfills - one to be located in the western part of the County and another to be located in the eastern part, both to be operational by 1983.

The proposed district landfill is now scheduled to be operational January 1, 1985. The 1,300,000 ton capacity landfill will serve the needs of the County for the 10 year planning period. The site of the proposed landfill is in Millville and Vineland south of Sherman Avenue and west of the Maurice River.

Table 8 documents a disposal strategy for the period covering 1982 - 1992. Table 9 presents the proposed implementation schedule for the development of the new regional landfill.

DISTRICT SOLID WASTE DISPOSAL STRATEGY

Table 8  
Page 1

Facility * Existing (include SWA #) ** Proposed	Overall Capacity (n) For Landfills: Tons For Others: Tons/Year	Total Waste to be Disposed of (Tons) (see over)				Tons
		1982 Municipalities	1983 Municipalities	1984 Municipalities	Tons	
Bridgeton (#0601A)*	18,723	Bridgeton 14,121	Bridgeton 14,109	Bridgeton 14,109	14,096	
		Stow Creek/Shiloh 1,817	Stow Creek/Shiloh 1,835	Stow Creek/ Shiloh 1,853		
		Total 15,938	Upper Deerfield 403	Upper Deerfield 693		
Commercial (#0602A)*	16,340	Commercial 815	Deerfield Total 16,347	Total 16,642 (b)		
Deerfield (#0603A)*	3,191	Deerfield 731	Deerfield 740	Commercial 827		
Downe (#0604A)*	14,043	Downe 472	Downe 475	Deerfield 748		
Fairfield (#0605A)*	3,191	Fairfield 689	Fairfield 696	Downe 478		
Hopewell (#0607A)*	638	Hopewell/Greenwich 1,534	Hopewell/Greenwich 1,548	Fairfield 702		
Lawrence (#0608A)*	1,277	Lawrence 874	Lawrence 877	Hopewell/ Greenwich 1,561 (b)		
Maurice River (#0609B)* (#0609C)*	9,957 Closed	Maurice River 1,985	Maurice River 2,007	Lawrence 880		
Millville (#0610A)*	Closed	Millville 32,528	Millville 2,753	Maurice River 2,028		
Upper Deerfield (#0613A)*	1,596	Upper Deerfield 674	Upper Deerfield 280	Vineland 67,359		
Vineland (#0614B)*	127,660	Vineland 65,012	Vineland 66,185	Millville 33,549		
		Various 11,473	Millville 30,285	Various 10,889		
		Total 76,485	Various 10,887	Total 111,797		
			Total 107,357			
Central County Landfill (e) ** (Proposed)	1,300,000					
Totals		132,725	133,901			

DISTRICT SOLID WASTE DISPOSAL STRATEGY

Table 8  
Page 2

Facility	Total Waste to be Disposed of (Tons) (see over)					
	1985		1987		1988	
	Municipalities	Tons	Municipalities	Tons	Municipalities	Tons
Bridgeton (#0601A)						
Commercial (#0602A)						
Deerfield (#0603A)						
Downe (#0604A)						
Fairfield (#0605A)						
Hopewell (#0607A)						
Lawrence (#0608A)						
Maurice River (#0609B) (#0609C)						
Millville (#0610A)						
Upper Deerfield (#0613A)						
Vineland (#0614B)						
Central County Landfill (c) (Proposed)						
	Bridgeton Commercial	14,084 832	Bridgeton Commercial	14,070 838	Bridgeton Commercial	14,056 844
	Deerfield	737	Deerfield	766	Deerfield	774
	Downe	481	Downe	484	Downe	487
	Fairfield	709	Fairfield	716	Fairfield	723
	Hopewell/Greenwich	1,574	Hopewell/Greenwich	1,587	Hopewell/Greenwich	1,600
	Lawrence	883	Lawrence	886	Lawrence	889
	Maurice River	2,049	Maurice River	2,070	Maurice River	2,091
	Millville	34,060	Millville	34,600	Millville	35,140
	Stow Creek/Shiloh	1,872	Stow Creek/Shiloh	1,890	Stow Creek/Shiloh	1,908
	Upper Deerfield	703	Upper Deerfield	713	Upper Deerfield	722
	Vineland	68,533	Vineland	69,845	Vineland	71,157
	Various	10,888	Various	11,078	Various	11,272
	Total	137,425	Total	139,543	Total	141,663
TOTALS		137,425		139,543		141,663

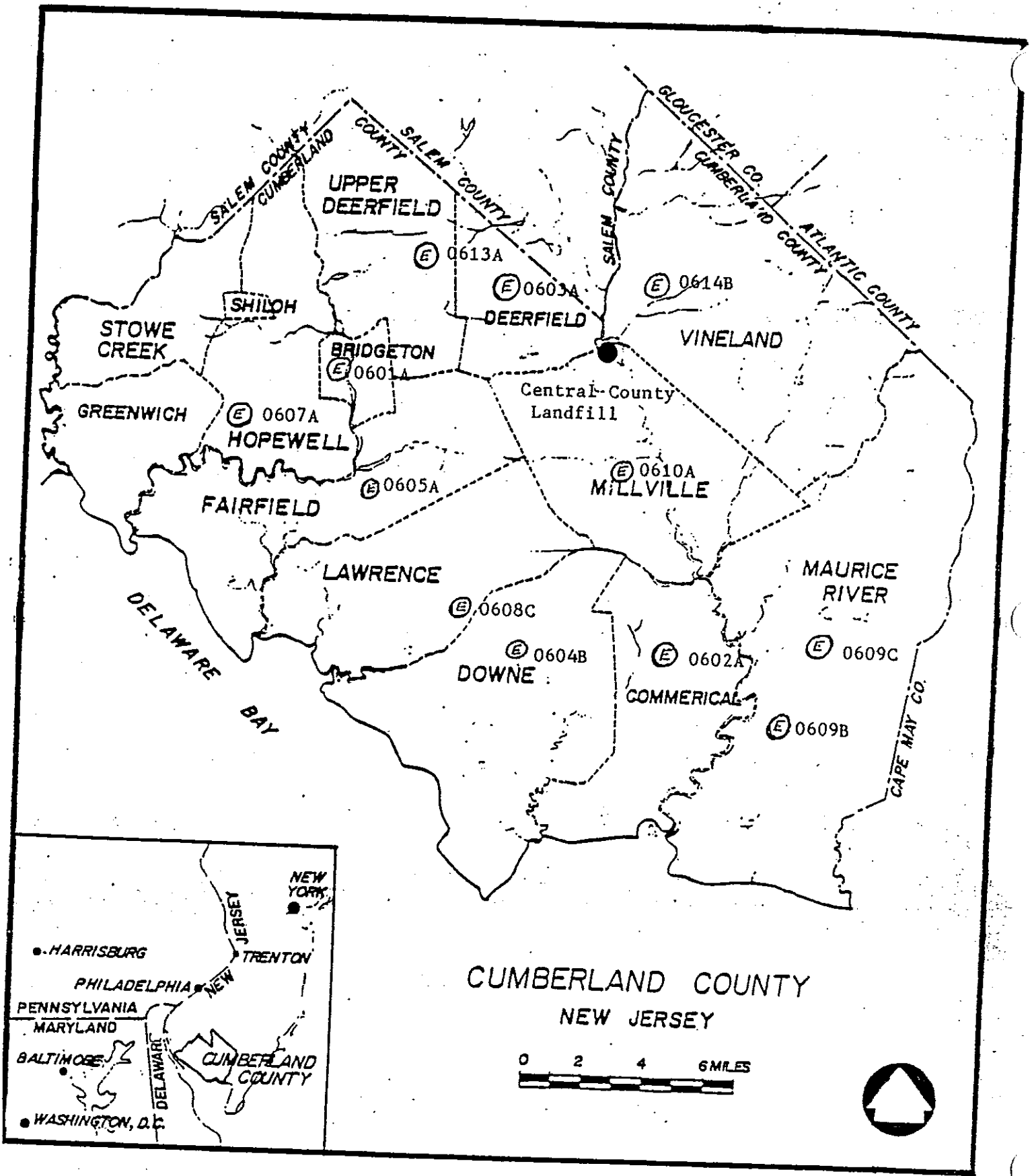
DISTRICT SOLID WASTE DISPOSAL STRATEGY

Facility	Total Waste to be Disposed of (Tons) (see over)					
	1989		1990		1991	
	Municipalities	Tons	Municipalities	Tons	Municipalities	Tons
Bridgeton (#0601A)						
Commercial (#0602A)						
Deerfield (#0603A)						
Downe (#0604A)						
Fairfield (#0605A)						
Hopewell (#0607A)						
Lawrence (#0608A)						
Maurice River (#0609B) (#0609C)						
Millville (#0610A)						
Upper Deerfield (#0613A)						
Vineland (#0614B)						
Central County Landfill (c) (Proposed)						
	14,028	14,013	14,013	14,013	14,013	14,013
	855	861	861	861	861	861
	791	800	800	800	800	800
	493	496	496	496	496	496
	735	742	742	742	742	742
	1,626	1,639	1,639	1,639	1,639	1,639
	895	898	898	898	898	898
	2,134	2,155	2,155	2,155	2,155	2,155
	36,221	36,761	36,761	36,761	36,761	36,761
	1,945	1,963	1,963	1,963	1,963	1,963
	73,781	75,093	75,093	75,093	75,093	75,093
	11,387	11,491	11,491	11,491	11,491	11,491
Total	145,633	147,663	147,663	147,663	147,663	147,663
TOTALS	145,633	147,663	147,663	147,663	147,663	147,663



<u>Facility</u>	<u>Total 1982-92</u>
Bridgeton (#0601A)	34,661
Commercial (#0602A)	6,405
Deerfield (#0603A)	1,621
Johne (#0604A)	1,043
Fairfield (#0605A)	1,525
Hopewell (#0607A)	2,172
Laurence (#0608A)	1,927
Maurice River (#0609B; #0609C)	4,398
Millville (#0610A)	35,281
Upper Deerfield (#0611A)	1,093
Vineland (#0614B)	204,085
Central County Landfill	1,259,073
<b>TOTALS</b>	<b>1,553,284</b>

Location Map



CUMBERLAND COUNTY  
NEW JERSEY



Facility Names shown in Table 8

Table 8

Note: Table does not reflect reductions in generation due to source separation.

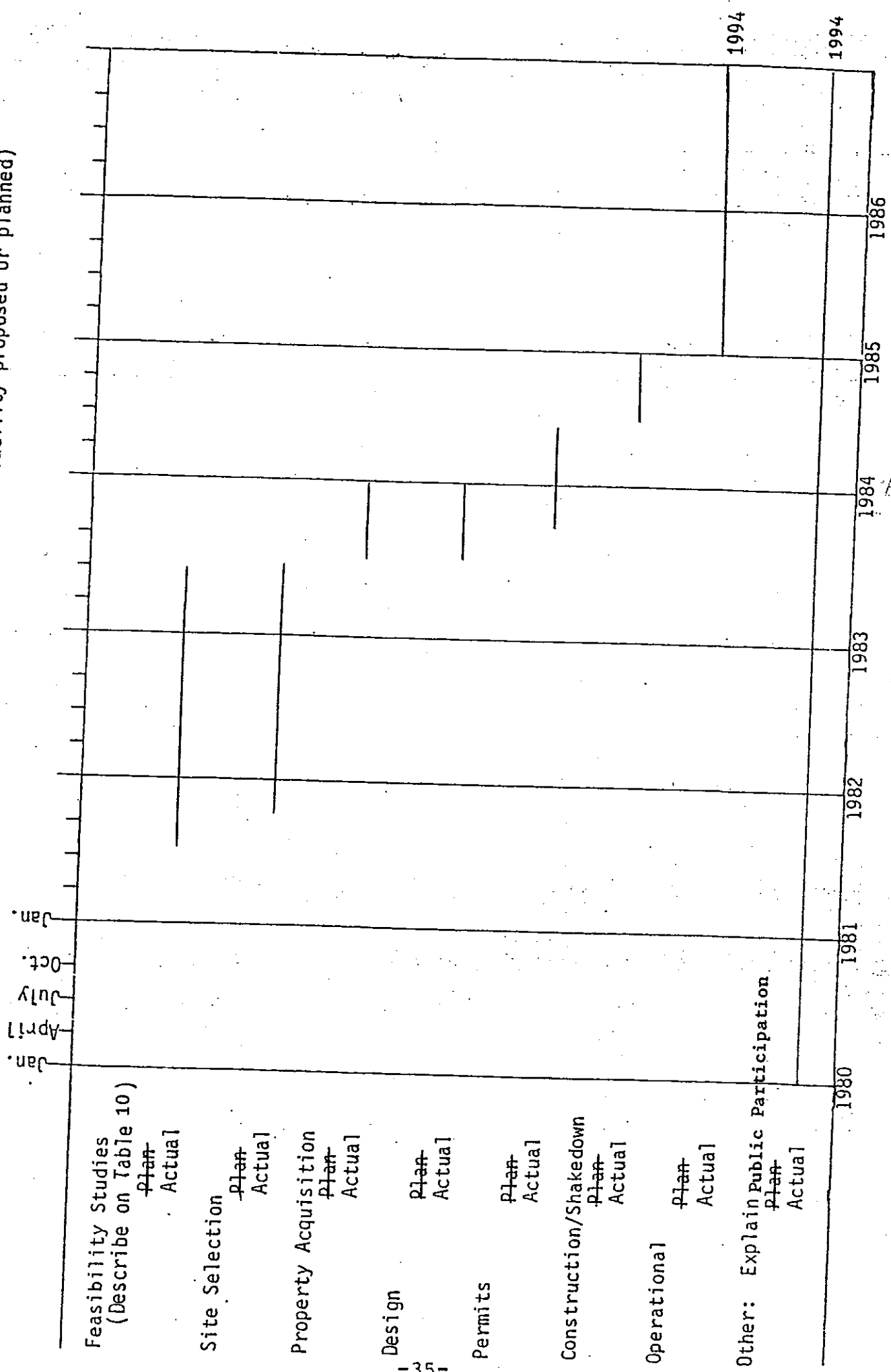
- (a) Capacities as of February 1983.
- (b) Waste redirections will be considered in October 1983.
- (c) Central County landfill opens January 1, 1985.

SOURCES: Cumberland County Solid Waste Management Plan, Table 2-10.  
Modifications to Cumberland County Solid Waste Management Plan, Table I-1.  
Solid Waste Resource Recovery Study, Table II-2.

MANDATED/PROPOSED SOLID WASTE FACILITY IMPLEMENTATION SCHEDULE

Facility Central County Landfill

(complete one sheet for each new facility proposed or planned)





~~MANDATED/PROPOSED~~ SOLID WASTE FACILITY IMPLEMENTATION SCHEDULE in Plan

Facility Eastern Landfill

(complete one sheet for each new facility proposed or planned)

	Jan.	April	July	Oct.	Jan.	1981	1982	1983	1984	1985	1986
Feasibility Studies (Describe on Table ) Plan Actual											
Site Selection Plan Actual											
Property Acquisition Plan Actual											
Design Plan Actual											
Permits Plan Actual											
Construction/Shakedown Plan Actual											
Operational Plan Actual											
Other: Explain Plan Actual											

Table 10, 11, 12 - Narrative

The County began solid waste planning efforts with the appointment of the Solid Waste Advisory Council and development of the Cumberland County Solid Waste Management Plan in 1979. The Plan was modified in 1980 in response to comments of DEP and a Source Separation Feasibility Study was done.

Subsequently, the Board of Chosen Freeholders appointed 5 members to the newly organized Improvement Authority to implement the approved Plan. The Authority contracted with an engineering consultant to develop reports on resource recovery and landfill design. Solid waste planning activities continue to be on-going under the guidance of the Board of Chosen Freeholders and the Improvement Authority.

Throughout the planning process, efforts have been made to involve municipal officials and residents. Improvement Authority meetings have been open to the public and comments from the audience are always allowed at the conclusion of each meeting. Each municipality also appointed someone to act as a liaison with the Authority. Additionally, efforts are currently underway to establish a Recycling Committee to involve all 14 municipalities in the promotion of source separation.

COMPLETED AND PLANNED SOLID WASTE STUDIES  
1979 to Present

Table 10

Type of Study: (Feasibility, Engineering, Site Assessment; Preliminary or Final, etc.)	Completion Date (Actual or Expected)	Cost	Consultant/Contractor or (In-House)	Source of Funds	For Completed Studies: Brief Summary of Procedure & Findings
Solid Waste Management Plan Plan Modifications	Sept. 1979 Dec. 1980	\$ 51,800	RAS Associates	State/ local	All landfill close by 12/82. Open new eastern and western landfills. Consider resource recovery options.
Source Separation Study	1980		Cumberland County Planning Board		22% municipal of solid waste is recyclable
Resource Recovery Study	Nov. 1981	29,500	Sheaffer & Roland, Inc.	State/ local	A single county landfill is most cost-effective and environmentally sound. Resource recovery could perhaps be implemented in the future.
Landfill Basis of Design	Dec. 1981	18,500	Sheaffer & Roland, Inc.	State/ local	A hill fill design with day lining, leachate collection and gas venting is most economical and environmentally sound.
Landfill Design (Proposed)	Oct. 1983	200,000	Consultant	State/ local	Includes environmental impact statement and construction drawings and specifications for the selected landfill.



DISTRICT SOLID WASTE  
ADVISORY COUNCIL:

Membership

Member (Indicate Officers)	Representing	Committee Memberships
Dale Finch, Chairman	Municipal	<hr/>
Everett Laning	Municipal	"
Nancy Sungenis	Municipal	"
Patrick Fiorilli	Municipal	"
James Tomlin	Municipal	"
Harry R. Dare, III	Municipal	"
Donald Rainear	Municipal	"
Dan O'Connor	Environment	"
John Elwell	Industry	"
Gary F. Simmerman	Board of Chosen Freeholders	"
Blake Maloney	Cumberland County Utilities Auth.	"
Leon Lowenstern	Municipal	"
Richard Castrati	Municipal	"
Arthur Schwerdtle	Environment/Ind.	"
Alex Nardelli	Municipal	"
Joseph Richter	Industry	"

DISTRICT SOLID WASTE  
ADVISORY COUNCIL:

SWAC Meeting Schedule

(for all meetings in preceding 2 calendar years)

Date	Place
1/10/83	Freeholder Conference Room, County Administration Building, 790 East Commerce Street, Bridgeton, New Jersey
3/3/83	Freeholder Conference Room, County Administration Building, 790 East Commerce Street, Bridgeton, New Jersey
7/7/83	Freeholder Conference Room, County Administration Building, 790 East Commerce Street, Bridgeton, New Jersey

DESIGNATED DISTRICT SOLID WASTE MANAGEMENT  
IMPLEMENTING AGENCY

(complete separate sheet for each agency which shares implementing authority)

Name of Agency: Cumberland County Improvement Authority

Address: 790 East Commerce Street

Bridgeton, New Jersey 08302

Phone number: 451-8000

Staff: The Improvement Authority has no full time staff, but temporarily uses Planning Board personnel as needed. A staff assigned exclusively to the Authority is anticipated later in 1983.

NAME	TITLE	SUMMARY OF DUTIES
Kathleen Hicks	Senior Planner	Recording Secretary
Czeslawa Zimolzak	Senior Planner	Recycling
Debbie Duffield	Senior Clerk/ Stenographer	Secretary

- Please provide a summary or outline of public participation, education and outreach activities planned for the upcoming year. This description should include details of the public involvement phase of the adoption of this Plan Update. Please also describe any activities such as meetings, hearings, etc. not included in Table 12B.

Public Information and Public Hearing Schedule  
(for preceding two full years)

Date	Place	Subject/Type of Meeting (Hearing, Information, Session, etc.)
9/30/81	Cumberland County College-Millville	Disposal alternatives - information
10/28/81	Cumberland County Guidance Center-Millville	Landfill siting - information
2/18/82	Millville City Hall - Millville	Landfill siting - information
3/24/82	Cumberland County Library - Bridgeton	Trash recycling - information
3/25/82	Cumberland County Library - Bridgeton	Recycling Fund - information
3/29/82	Cumberland County College - Millville	Solid Waste update - information
4/12/82	Cumberland County College - Millville	Solid Waste update - information
1/13/83	Cumberland County Administration Building	SWMP amendments - public hearing
3/10/83	Cumberland County Courthouse - Bridgeton	SWMP amendments - public hearing
7/13/83	Cumberland County Courthouse - Bridgeton	SWMP amendments and update - public hearing

## IMPROVEMENT AUTHORITY MEETING SCHEDULE

(FOR PRECEDING TWO FULL YEARS)

ALL IMPROVEMENT AUTHORITY MEETINGS HAVE BEEN OPEN TO THE PUBLIC. IN ADDITION, EACH MUNICIPALITY APPOINTED A REPRESENTATIVE TO ACT AS LIAISON WITH THE AUTHORITY.

APRIL 13, 1981	JANUARY 11, 1982	AUGUST 30, 1982
APRIL 23, 1981	JANUARY 29, 1982	SEPTEMBER 29, 1982
MAY 20, 1981	FEBRUARY 5, 1982	OCTOBER 19, 1982
JUNE 11, 1981	FEBRUARY 18, 1982	NOVEMBER 30, 1982
JUNE 25, 1981	MARCH 8, 1982	DECEMBER 13, 1982
JUNE 29, 1981	MARCH 24, 1982	DECEMBER 30, 1982
JULY 6, 1981	MARCH 29, 1982	JANUARY 10, 1983
JULY 13, 1981	APRIL 12, 1982	JANUARY 27, 1983
JULY 30, 1981	APRIL 16, 1982	FEBRUARY 7, 1983
AUGUST 10, 1981	MAY 11, 1982	MARCH 7, 1983
AUGUST 27, 1981	MAY 21, 1982	MARCH 14, 1983
SEPTEMBER 14, 1981	MAY 27, 1982	
SEPTEMBER 30, 1981	JUNE 14, 1982	
OCTOBER 13, 1981	JUNE 29, 1982	
NOVEMBER 9, 1981	JULY 12, 1982	
NOVEMBER 30, 1981	JULY 29, 1982	
DECEMBER 17, 1981	AUGUST 18, 1982	

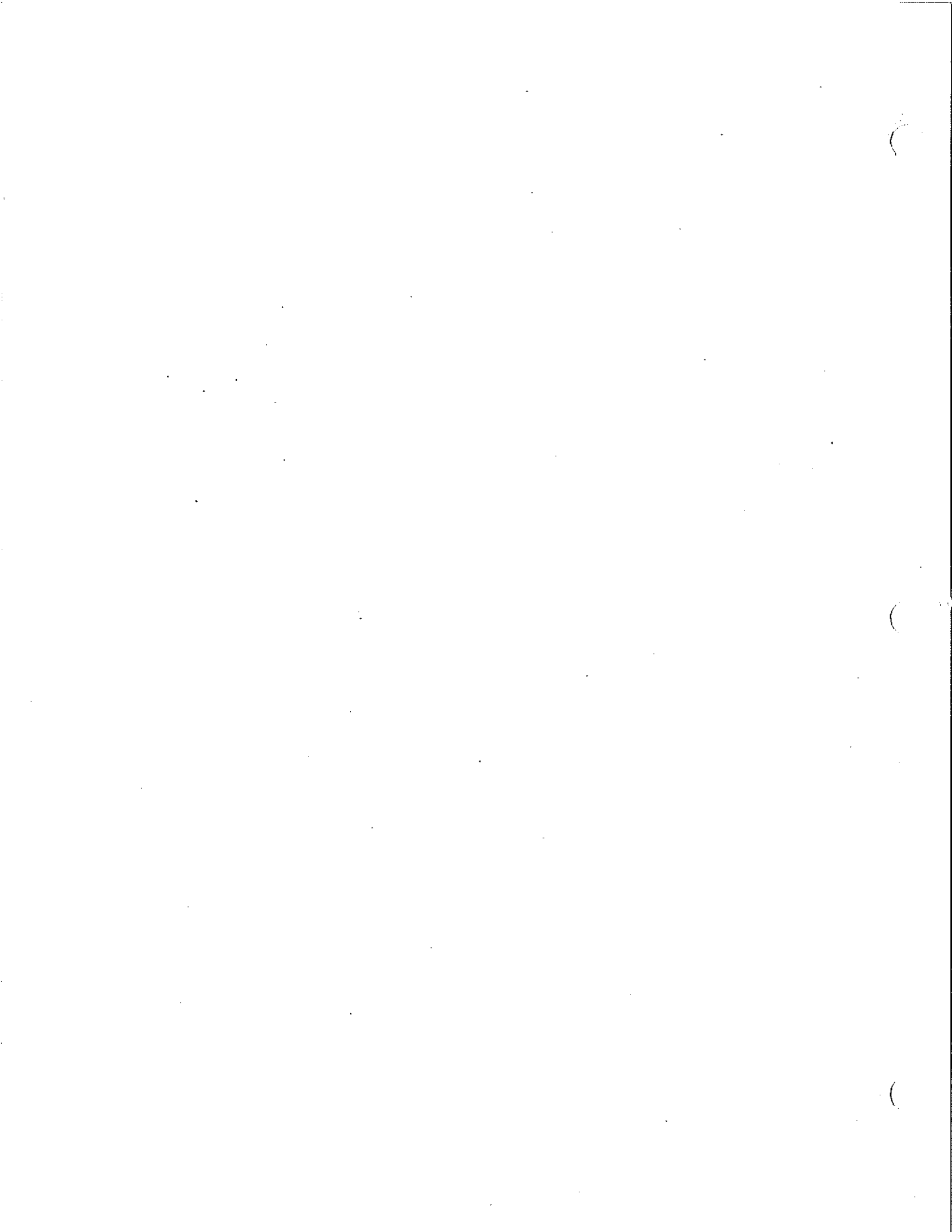
Municipal Meetings Attended  
by Improvement Authority Members

Table 12C

2/18/82 Millville Jaycees/Recycling  
2/18/82 Millville City Council/Landfill Siting (#8, #10)  
3/29/82 Public Meeting at College/Landfill Siting  
4/12/82 Public Meeting at College/Solid Waste Situation  
4/22/82 Vineland Chamber of Commerce/Landfill Siting  
4/28/82 Dover, Delaware Landfill/Field Trip  
5/5/82 County Planning Board/Review of #8, #10, #3  
6/1/82 Millville City Council/Discussion of #8  
6/3/82 Vineland City Council Work Session/Discussion of #8  
6/8/82 Bridgeton City Council/Discussion of #8  
6/10/82 Vineland City Council/Discussion of #8  
6/15/82 Millville City Council/Discussion of #8  
6/21/82 Maurice River Township Committee/Discussion of #8  
6/21/82 Vineland City Council/Discussion of #8  
6/23/82 Hopewell Township Committee/Discussion of #8  
6/30/82 Commercial Township Committee/Discussion of #8  
7/6/82 Bridgeton City Council/Discussion of #8  
7/8/82 Bridgeton City Council/Discussion of #8  
7/8/82 Kiwanis Club/Landfill Siting  
9/13/82 Lawrence Township Committee/Discussion of #3  
9/14/82 Vineland City Council/Discussion of #3  
11/15/82 Meeting of 3 cities/Landfill Siting  
11/16/82 Freeholders/Meeting with Frank Flowers and Municipal  
Engineers  
12/22/82 Vineland City Council/2 Potential Vineland Sites

APPENDIX A

FREEHOLDER APPROVAL OF UPDATE TO SWMP





**Board of Chosen Freeholders  
Cumberland County  
Bridgeton, New Jersey**

I, SUMNER N. LIPPINCOTT, Clerk of the Board of Chosen Freeholders of the County of Cumberland, do hereby certify that the annexed is a true copy of a Resolution(213) passed at a ...regular.... meeting of the Board of Chosen Freeholders, held on the .....14th..... day of .....July....., 19..83..

In Witness Whereof, I have hereunto set my hand and the seal of the County of Cumberland, this .....  
.....23rd..... day of .....March....., 19<sup>89</sup>.....



*Sumner N. Lippincott*  
Clerk of the Board.

BOARD OF CHOSEN FREEHOLDERS  
COUNTY OF CUMBERLAND

MEMBER	AYE	NAY	NOT VOTING	ABSENT
FISHER				
FREITAG				
QUINN				
REINARD				
RICCI				
SALMON				
SIMMERMAN				

R E S O L U T I O N - (1983) - 214

Offered by: Mr. Simmerman

Seconded by: Mr. Reinard

Date: July 14, 1983

Approval Of Update To The Cumberland County  
Solid Waste Management Plan

WHEREAS, N.J.S. 13:1E-20 provides for automatic review of the County's solid waste plan at least every two years following approval thereof; and

WHEREAS, the Board of Chosen Freeholders has reviewed the County's solid waste management plan, as amended, and finds that certain information should be updated;

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF CHOSEN FREEHOLDERS OF THE COUNTY OF CUMBERLAND, as follows:

That the Board hereby approves the Update To The Cumberland County Solid Waste Management Plan prepared Sheaffer & Roland, Inc. consisting of 45 pages, a copy of which is on file with the Clerk of this Board.

Passed and adopted at a regular meeting of the Board of Chosen Freeholders of the County of Cumberland, held at the Court House, Broad and Fayette Streets, Bridgeton, New Jersey on Thursday evening, July 14, 1983 at 8:00 o'clock prevailing time.

DATED: July 14, 1983