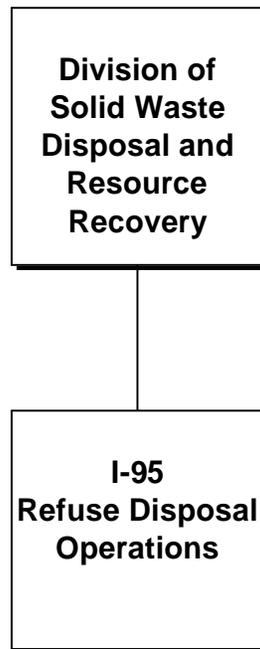


**DEPARTMENT OF PUBLIC WORKS
AND ENVIRONMENTAL SERVICES
SOLID WASTE MANAGEMENT**



FUND 114

I-95 REFUSE DISPOSAL

Agency Position Summary

38 Regular Positions (1T) / 38.0 Regular Staff Years (1.0T)

Position Detail Information

I-95 REFUSE DISPOSAL

1 Engineer IV
1 Engineers III
2 Engineers II
2 Engineer Technicians III
4 Engineer Technicians II
2 Engineer Technicians I
1 Refuse Superintendent
3 Assistant Refuse Superintendents
2 Industrial Electricians II
8 Heavy Equipment Operators
1 Motor Equipment Operator
2 Weighmasters
1 Management Analyst I
1 Administrative Assistant III (1T)
1 Administrative Assistant II
6 Public Service Workers I
38 Positions (1T)
38.0 Staff Years (1.0 T)

(T) Denotes Transferred Position

FUND 114

I-95 REFUSE DISPOSAL

Agency Mission

To manage the I-95 Landfill in such a manner as to provide a site where solid waste and recyclable materials from County citizens are gathered and properly disposed of, and a deposit site where ash from the Energy/Resource Recovery Facility and other participating municipalities can be properly disposed.

Agency Summary					
Category	FY 2002 Actual	FY 2003 Adopted Budget Plan	FY 2003 Revised Budget Plan	FY 2004 Advertised Budget Plan	FY 2004 Adopted Budget Plan
Authorized Positions/Staff Years					
Regular	37/ 37	37/ 37	38/ 38	37/ 37	38/ 38
Expenditures:					
Personnel Services	\$1,924,791	\$2,138,256	\$2,138,256	\$2,260,262	\$2,246,981
Operating Expenses	2,638,946	3,158,658	3,158,658	3,325,286	3,325,286
Capital Equipment	602,614	375,000	682,251	801,500	801,500
Capital Projects	248,576	0	24,370,634	14,929,000	14,929,000
Total Expenditures	\$5,414,927	\$5,671,914	\$30,349,799	\$21,316,048	\$21,302,767

Board of Supervisors' Adjustments

The following funding adjustments reflect all changes to the FY 2004 Advertised Budget Plan, as approved by the Board of Supervisors on April 28, 2003:

- ◆ A decrease of \$13,281 reflects reduced funding for the Pay for Performance program. Based on the approved 25 percent reduction, the FY 2004 program will result in reductions in the increases employees will receive based on their performance rating, capping employees to a maximum of 5.25 percent. This adjustment leaves in place the Pay for Performance program in preparation for system redesign for FY 2005.

The following funding adjustments reflect all approved changes to the FY 2003 Revised Budget Plan from January 1, 2003 through April 21, 2003. Included are all adjustments made as part of the FY 2003 Third Quarter Review:

- ◆ In order to account for Governmental Accounting Standards Board changes in the treatment of the year-end accrual of compensated absences, a restatement of the FY 2002 beginning balance for Fund 114, I-95 Refuse Disposal is reflected. This adjustment results in an increase in the FY 2002 beginning balance in the amount of \$15,081 and a one-time savings for the fund. The beginning balance audit adjustment has been included in the FY 2002 Comprehensive Annual Financial Report (CAFR).
- ◆ The transfer of 1/1.0 SYE Administrative Assistant III position from Fund 109 Refuse Collection and Recycling Operations to Fund 114, I-95 Refuse Disposal to better realign staff and workload within the Solid Waste program area.

FUND 114

I-95 REFUSE DISPOSAL

County Executive Proposed FY 2004 Advertised Budget Plan

Purpose

The I-95 Sanitary Landfill has operated for more than two decades, and has served the solid waste disposal needs of the residents of the participating jurisdictions who have utilized the facility. The municipal solid waste (MSW) section of the I-95 Landfill closed in December 1995, and since that time the facility has accepted only ash material for land burial. The I-95 Sanitary Landfill continues to operate as a model facility, meeting permit requirements, inspection criteria, and availability requirements for the participating jurisdictions and customers of the facility.

Key Accomplishments

- ◆ Processed an additional 9,735 tons of non-combustible waste in FY 2002 with existing equipment and employees.
- ◆ Processed landfill gas for our energy partner, Michigan Cogeneration Systems, exceeding the target delivery criteria of 98 percent.
- ◆ Added a mulch loader at the I-95 Citizens Disposal Facility to provide an additional mulch distribution site for the citizens of the County.
- ◆ Prepared for the transfer of landfill property to County ownership.
- ◆ Constructed a new Citizen Disposal Facility, utilizing 10,000 tons of ash from the incinerator.

FY 2004 Initiatives

- ◆ Perform analysis of groundwater conditions and analysis of risk exposure.
- ◆ Work with partner jurisdictions to detail long-term relationships for landfill usage.
- ◆ Develop long-term lease for Occoquan Park.
- ◆ Construct the Phase 2B of Area 3 Lined Landfill for ash disposal. Begin development and construction of the next ashfill cell.

Performance Measurement Results

During FY 2002:

- ◆ The facility processed 373,935 tons of ash, an increase of 9,735 over the FY 2001 amount.
- ◆ The \$11.50/ton cost to dispose of the ash continues to be maintained.
- ◆ Tons of ash disposed per ash site man-hour in FY 2002 were within 1.5 tons of the target estimate.
- ◆ The I-95 Landfill complex received satisfactory ratings (highest possible rating) by the Department of Environment Quality for all inspections conducted during FY 2002. The facility is in compliance with all provisions of the permits and the Virginia Solid Waste Management Regulations.

FUND 114

I-95 REFUSE DISPOSAL

Funding Adjustments

The following funding adjustments from the FY 2003 Revised Budget Plan are necessary to support the FY 2004 program:

- ◆ An increase of \$122,006 in Personnel Services associated with salary adjustments necessary to support the County's compensation program.
- ◆ An increase of \$166,628 in Operating Expenses primarily due to an increase in expenditures for Contractor Compensation of \$152,367 which is associated with additional regulations that require extensive environmental monitoring.
- ◆ An amount of \$801,500 is funded for Capital Equipment in FY 2004. This includes replacement purchases consisting of one D-6 dozer, \$234,000, one Rubber Tire Loader, \$325,000, one Gator, \$12,500, one Aerial Bucket Truck, \$68,000, one Trav-L-Vac, \$72,000, and three pickup trucks, \$90,000. Funding for the replacement of these items of equipment is based on Department of Vehicle Service's recommendation and replacement criteria consisting of vehicle (machine) age, usage, condition, and maintenance cost relative to the average of that particular vehicle or equipment class.
- ◆ An amount of \$14,929,000 is funded for continuing Capital Projects in FY 2004. This includes the construction of Phase 2B in the Area Three Lined Landfill, \$5,751,000, and the closure construction of Phase 3 in the I-95 Landfill, \$9,178,000. The funding for these projects is available from the reserve accounts as these funds were planned for this purpose.

The following funding adjustments reflect all approved changes in the FY 2003 Revised Budget Plan since passage of the FY 2003 Adopted Budget Plan. Included are all adjustments made as part of the FY 2002 Carryover Review and all other approved changes through December 31, 2002:

- ◆ As part of the *FY 2002 Carryover Review*, expenditures for FY 2003 were increased a total of \$24,677,885 that included \$24,370,634 for unexpended Capital Project balances and \$307,251 for encumbered Capital Equipment.

FUND 114

I-95 REFUSE DISPOSAL

Performance Measures

Objectives

- ◆ To manage the I-95 Landfill in an efficient, environmentally safe manner, meeting 100 percent of the regulatory standards; and to provide a permitted site where ash resulting from the Energy/Resource Recovery Facility (E/RRF) and other participating municipalities can properly be disposed.

Indicator	Prior Year Actuals			Current Estimate	Future Estimate
	FY 2000 Actual	FY 2001 Actual	FY 2002 Estimate/Actual	FY 2003	FY 2004
Output:					
Tons of ash received	380,070	364,200	373,086 / 373,935	383,182	383,182
Virginia Department of Environmental Quality (DEQ) inspections addressed	8	12	12 / 12	12	12
Efficiency:					
Cost per ton to dispose of ash	\$14.00	\$11.50	\$11.50 / \$11.50	\$11.50	\$11.50
Tons of ash disposed per ash site-hour (1)	54.2	55.4	56.8 / 57.7	59.1	59.1
Service Quality:					
Satisfactory DEQ inspection reports	8	12	12 / 12	12	12
Outcome:					
Percent satisfactory DEQ inspection ratings	100%	100%	100% / 100%	100%	100%

(1) Beginning in FY 2000, a revised measurement technique includes the additional activities of storm water management, erosion controls, and administration to more accurately measure tons of ash disposed per ash site staff hour.

A Fund Statement and a Summary of Capital Projects are provided on the following pages. The Summary of Capital Projects may include some projects without a Total Project Estimate amount. These projects are considered "continuing projects" or projects for which funding is necessary on an ongoing basis (e.g., a contingency or planning project).

FUND 114 I-95 REFUSE DISPOSAL

FUND STATEMENT

Fund Type G10, Special Revenue Funds

Fund 114, I-95 Refuse Disposal

	FY 2002 Actual	FY 2003 Adopted Budget Plan	FY 2003 Revised Budget Plan	FY 2004 Advertised Budget Plan	FY 2004 Adopted Budget Plan
Beginning Balance¹	\$75,737,886	\$54,029,162	\$77,041,032	\$53,332,175	\$53,357,590
Revenue:					
Interest on Investments	\$1,945,260	\$1,484,553	\$1,484,553	\$769,273	\$769,273
Refuse Disposal Revenue:					
I-95 ERR (Ash)	\$3,117,666	\$3,196,839	\$3,130,075	\$3,223,910	\$3,223,910
Arlington/Alexandria ERR	1,124,033	1,035,000	1,013,385	1,124,033	1,124,033
County of Fairfax	167,470	606,100	593,442	524,771	524,771
Lower Potomac	57,775	58,650	57,425	58,650	58,650
Subtotal	<u>\$4,466,944</u>	<u>\$4,896,589</u>	<u>\$4,794,327</u>	<u>\$4,931,364</u>	<u>\$4,931,364</u>
Miscellaneous Revenue:					
Sale of Equipment	\$14,824	\$41,000	\$166,155	\$80,000	\$80,000
Sale of Methane Gas	191,600	191,600	191,600	191,600	191,600
Miscellaneous Revenue	99,445	27,200	29,722	62,533	62,533
Subtotal	<u>\$305,869</u>	<u>\$259,800</u>	<u>\$387,477</u>	<u>\$334,133</u>	<u>\$334,133</u>
Total Revenue	<u>\$6,718,073</u>	<u>\$6,640,942</u>	<u>\$6,666,357</u>	<u>\$6,034,770</u>	<u>\$6,034,770</u>
Total Available	\$82,455,959	\$60,670,104	\$83,707,389	\$59,366,945	\$59,392,360
Expenditures:					
Personnel Services	\$1,924,791	\$2,138,256	\$2,138,256	\$2,260,262	\$2,246,981
Operating Expenses	2,638,946	3,158,658	3,158,658	3,325,286	3,325,286
Capital Equipment	602,614	375,000	682,251	801,500	801,500
Capital Projects ²	248,576	0	24,370,634	14,929,000	14,929,000
Total Expenditures	<u>\$5,414,927</u>	<u>\$5,671,914</u>	<u>\$30,349,799</u>	<u>\$21,316,048</u>	<u>\$21,302,767</u>
Total Disbursements	\$5,414,927	\$5,671,914	\$30,349,799	\$21,316,048	\$21,302,767
Ending Balance	\$77,041,032	\$54,998,190	\$53,357,590	\$38,050,897	\$38,089,593

FUND 114 I-95 REFUSE DISPOSAL

FUND STATEMENT

Fund Type G10, Special Revenue Funds

Fund 114, I-95 Refuse Disposal

	FY 2002 Actual	FY 2003 Adopted Budget Plan	FY 2003 Revised Budget Plan	FY 2004 Advertised Budget Plan	FY 2004 Adopted Budget Plan
Reserves					
Active Cell Closure Liability Reserve ³	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000
Inactive Cell Closure Liability Reserve ⁴	8,000,000	8,000,000	8,000,000	0	0
Environmental Reserve ⁵	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000
Ashfill Construction Reserve ⁶	6,000,000	6,000,000	6,000,000	0	0
Construction-Miscellaneous Reserve ⁷	1,031,435	1,031,435	1,046,516	1,037,909	1,037,909
Post-Closure ⁸	21,000,000	22,000,000	22,000,000	22,000,000	22,000,000
PC Replacement ⁹	12,988	12,988	12,988	12,988	12,988
Operating and Maintenance Reserve	2,984,739	2,953,767	1,298,086	0	25,415
Unreserved Ending Balance	\$23,011,870	\$0	\$0	\$0	\$13,281
Disposal Rate/Ton ¹⁰	\$11.50	\$11.50	\$11.50	\$11.50	\$11.50

¹ In order to account for Governmental Accounting Standards Board changes in the treatment of the year-end accrual of compensated absences, a restatement of the FY 2002 beginning balance for Fund 114, I-95 Refuse Disposal is reflected. This adjustment results in an increase in the FY 2002 beginning balance in the amount of \$15,081 and a one-time savings for the fund. The beginning balance audit adjustment has been included in the FY 2002 Comprehensive Annual Financial Report (CAFR).

² In FY 2004, Capital Project funding must be appropriated from existing reserves to fund the next phase of ashfill development as well as supplemental monies for landfill closure.

³ Reserve necessary for the closure of active disposal cells of the Ash Landfill, required by the State to be established in order for landfilling activities to progress.

⁴ Reserve necessary to perform closure activities on the completed cells of the Ash Landfill. Closure activities are required by the facilities permit, Environmental Protection Agency, and State regulations.

⁵ The Environmental Reserve has been established primarily for future Environmental Projects.

⁶ Reserve required for the construction of next phase of the ashfill liner system.

⁷ The Construction Reserve is established to provide funds to meet the requirements of current and future construction projects necessary for the operation of the I-95 Landfill, such as drainage and roads.

⁸ Post Closure Care is required for a 30 year-period after the landfill closes and is mandated by Federal and State regulations. FY 2004 funding of \$22,000,000 represents 58 percent of the estimated requirements of \$37,860,000 and is not sufficient to cover all identified costs. Additional funds will be set aside in future years.

⁹ The PC Replacement Reserve was established in FY 1995 in order to meet requirements for the timely replacement of obsolete computer equipment.

¹⁰ Effective July 1, 2000, the jurisdictional rate was reduced from \$14/ton to \$11.50/ton. The FY 2004 recommended rate remains at \$11.50/ton.

FUND 114 I-95 REFUSE DISPOSAL

FY 2004 Summary of Capital Projects

Fund: 114 I-95 Refuse Disposal

Project #	Description	Total Project Estimate	FY 2002 Actual Expenditures	FY 2003 Revised Budget	FY 2004 Advertised Budget Plan	FY 2004 Adopted Budget Plan
186420	Repair/Maint/Wash Facility	\$1,026,645	\$0.00	\$60,251.00	\$0	\$0
186435	Area 3 Lined Landfill Construction		7,976.79	3,038,080.18	5,751,000	5,751,000
186440	I-95 Landfill Leachate Facility		21,960.00	2,873,422.00	0	0
186450	I-95 Landfill Rd. Construction		0.00	7,606.86	0	0
186455	Perimeter Fence Construction		0.00	50,580.50	0	0
186460	Area 7 Roadway Construction	258,000	0.00	6,126.00	0	0
186470	Paved Ditch Extension Areas		0.00	362,818.00	0	0
186600	Methane Gas Recovery		0.00	1,578,953.00	0	0
186650	I-95 Landfill Closure	66,266,579	218,639.20	16,392,796.58	9,178,000	9,178,000
Total		\$67,551,224	\$248,575.99	\$24,370,634.12	\$14,929,000	\$14,929,000

FUND 114 I-95 REFUSE DISPOSAL

186435	I-95 Landfill Liner
9850 Furnace Road	Mount Vernon
<p>Description and Justification: This project funds the installation of a flexible membrane liner, which will convert landfill space into disposal areas for ash generated by the Energy/Resource Recovery Facility (E/RRF). Funding is provided from the Liner/Leachate Collection Reserve in Fund 114 to convert sections of the landfill for ash disposal as additional sectors are identified. Phase I and Phase IIA of the project are complete and Phase IIB construction is anticipated to begin November 2003. The FY 2004 funding in the amount of \$5,751,000 provides for construction costs for Phase IIB.</p>	

	Total Project Estimate	Prior Expenditures	FY 2002 Expenditures	FY 2003 Revised Budget Plan	FY 2004 Advertised Budget Plan	FY 2004 Adopted Budget Plan	Future Years
Land Acquisition		\$1,358	\$0	\$0	\$0	\$0	\$0
Design and Engineering		130,434	7,977	418,882	590,000	590,000	0
Construction		15,169,824	0	2,498,416	5,126,000	5,126,000	0
Other		29,218	0	120,782	35,000	35,000	0
Total	Continuing	\$15,330,833	\$7,977	\$3,038,080	\$5,751,000	\$5,751,000	\$0

Source of Funding				
General Funding	General Obligation Bonds	Transfers from Other Funds	Other	Total Funding
\$0	\$0	\$0	\$5,751,000	\$5,751,000

FUND 114 I-95 REFUSE DISPOSAL

186650	I-95 Landfill Closure
9850 Furnace Road	Mount Vernon
<p>Description and Justification: This project was created to meet all State and Federal regulations regarding the closure of the I-95 Landfill to the deposit of municipal solid waste (raw refuse). This project is in accordance with closure plans as presented to and approved by the Virginia Department of Environmental Quality (DEQ). As closure requirements are identified, funding will be provided from the Landfill Closure Reserve. Phase I of closure capping activities was completed in 1994 while Phase II was completed in 2000. Phase III is awaiting DEQ approval. Construction for Phase III is expected to begin in April 2003. This project will be built in multiple phases, and extend through the active life of the landfill. The FY 2004 funding in the amount of \$9,178,000 provides for construction costs for Phase III.</p>	

	Total Project Estimate	Prior Expenditures	FY 2002 Expenditures	FY 2003 Revised Budget Plan	FY 2004 Advertised Budget Plan	FY 2004 Adopted Budget Plan	Future Years
Land Acquisition	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Design and Engineering	5,555,131	3,349,659	135,353	520,119	1,550,000	1,550,000	0
Construction	60,637,525	26,621,562	83,286	15,872,677	7,560,000	7,560,000	10,500,000
Other	73,923	5,923	0	0	68,000	68,000	0
Total	\$66,266,579	\$29,977,143	\$218,639	\$16,392,797	\$9,178,000	\$9,178,000	\$10,500,000

Source of Funding				
General Fund	General Obligation Bonds	Transfers from Other Funds	Other	Total Funding
\$0	\$0	\$0	\$9,178,000	\$9,178,000