

SOLID WASTE

Element Summary: Solid Waste

	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TOTAL
USES								
Convenience Center Program	-	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000
North Wake Landfill	770,000	3,300,000	3,300,000	-	-	-	-	7,370,000
South Wake Landfill	3,700,000	-	-	-	-	-	-	3,700,000
TOTAL USES	4,470,000	3,800,000	3,800,000	500,000	500,000	500,000	500,000	14,070,000
FUNDING SOURCES								
Transfer In- Solid Waste Enterprise	3,900,000	500,000	500,000	500,000	500,000	500,000	500,000	6,900,000
Reserves--Landfill Closure	570,000	3,300,000	3,300,000	-	-	-	-	7,170,000
TOTAL SOURCES	4,470,000	3,800,000	3,800,000	500,000	500,000	500,000	500,000	14,070,000
NEW OPERATING IMPACT	-	-	-	-	-	-	-	-

Seven-Year CIP Summary

The primary goal of the Solid Waste element is to facilitate the effective and efficient implementation of solid waste operating programs and policies by providing necessary public facilities in a timely manner and maintaining existing facilities in good condition. The capital improvement program includes investments in the County's disposal infrastructure in the form of improvements and remediation to existing facilities to meet demands of the general public. The FY07-13 capital plan provides \$14 million for solid waste capital projects over the next seven years. The transfer in from the Solid Waste Enterprise Fund represents funds that come from the Landfill Tipping Fees.

History / Background

The State of North Carolina passed legislation in 1989 that required local governments to submit comprehensive solid waste management plans. Subsequent amendments in 1996 required the first 10-year comprehensive solid waste management plans to be submitted to the State in 1997, with updates every three years. Wake County's plan was prepared and adopted in 1997 and updated in 2000 and 2003. The 10-year plan integrates all forms of waste management (waste reduction, reuse, recycling, collection, disposal and capital strategies) among all local governments within the county. In 2003, the Board approved an updated Ten-Year Comprehensive Plan for Solid Waste Management.

All local governments within Wake County were invited to participate in the development of the Solid Waste Plan. All municipalities agreed to be included. The Wake County Solid Waste Advisory Committee (SWAC) oversaw and participated in the Plan's development and approved the Plan for adoption by the elected officials of each participating jurisdiction. The SWAC consists of representatives from each participating jurisdiction.

SOLID WASTE

FY 2006 Accomplishments

The County's North Wake landfill facility is reaching capacity and the Feltonville C&D landfill stopped taking waste in 2004. The status of associated design, permitting and construction is as follows:

- Turned over maintenance responsibility for Phase 1 partial closure of the North Wake MSW Landfill to Solid Waste Management Division. This work is being performed under contract with Santek Environmental, Inc.
- Turned over maintenance responsibility for closed Feltonville C&D Landfill to Solid Waste Management Division. This work is being performed under contract with Santek Environmental, Inc.
- Design of the proposed South Wake Municipal Solid Waste Landfill is complete and the state Permit to Construct has been issued. Design of entrance facilities began on June 6, 2006.

In partnership with the City of Raleigh and other stakeholder groups, the County completed the master plan for post-closure use of the North Wake Landfill.

Operating Impact

Because the majority of the capital investments are improvements to existing facilities, increases in operating costs are expected to be negligible during the current capital improvements planning period. Decisions regarding long-term options for solid waste disposal will most likely impact operating costs at some point in the future. This impact would be borne by the Solid Waste Management Enterprise Fund, rather than the General Fund.

SOLID WASTE

Convenience Centers

The County currently operates two multi-material facilities (North Wake and Feltonville) that accept various recyclable commodities from both residential and commercial customers. Material accepted includes corrugated cardboard, white goods (e.g., refrigerators, washers, dryers), lead-acid batteries, used motor oil and scrap tires. The North Wake facility also accepts electronics for recycling. Eleven convenience center sites are located throughout the County, where residents can bring household waste and materials for disposal or recycling. The sites have areas for recyclable commodities such as newspapers, cardboard, glass containers (green, brown, clear), aluminum containers, steel cans, scrap metal and plastics.

A comprehensive assessment of the locations and conditions of all existing convenience centers will be completed prior to FY 2007. As part of this assessment, the services currently offered at the centers will be evaluated. Further, a multi-year plan for improving convenience center facilities and enhancing services will be prepared. Funding in the 2007-2013 CIP will be for the design and implementation of the convenience center improvements needed. Improvements/modifications to the multi-material facilities at North Wake and Feltonville are included in this work. Further, the South Wake Transfer Center conversion to a convenience center will also be included.



Convenience Center #4
(Southeast Raleigh)

Project Summary: Convenience Centers

Uses	Prior Funding	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Total 07-13
Engineering & Construction	50,000	-	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000
TOTAL USES	\$ 50,000	-	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000

Funding Sources

Transfer In - Solid Waste									
Enterprise	\$	50,000	-	500,000	500,000	500,000	500,000	500,000	2,500,000

New Operating Budget Impact	-	-	-	-	-	-	-	-	-
Total Operating Budget Impact	-	-	-	-	-	-	-	-	-

SOLID WASTE

North Wake Landfill

In 1996, Wake County opened a lined landfill off Durant Road in north Raleigh. This landfill accepts municipal solid waste and is projected to reach capacity in late 2007. Closure of this landfill is occurring in two phases. Phase 1, consisting of 27 acres, was completed in FY 2005. Phase II (approximately 40 acres), will begin after the last amounts of waste are received in late 2007, depending upon usage. Final closure cost estimate is \$7,170,000 and will be funded by reserves that were accumulated as part of the tipping fee structure throughout the life of the landfill.

The North Wake Landfill property may lend itself to beneficial uses after closure. Wake County, in cooperation with a Citizens' Advisory Committee, has explored options for potential uses, such as incorporating greenways and open space uses as well as a school use. Land Planning consultants were retained to assist with development of a master plan for post-closure use of the property. The Master Plan was completed and presented to the Board of Commissioners in FY 2006 with design expected to begin in FY07. During FY07 partnerships for funding various elements of the plan will be pursued.



Schematic of Proposed Use - North Wake Landfill

Project Summary: North Wake Landfill

Uses	Prior Funding	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Total 07-13
N. Wake Landfill Master Plan									
Planning & Design	\$ 100,000	200,000	-	-	-	-	-	-	200,000
N. Wake Subtitle D Landfill Closure									
Engineering and									
Construction - Phase II	-	570,000	3,300,000	3,300,000	-	-	-	-	7,170,000
TOTAL USES	100,000	770,000	3,300,000	3,300,000	-	-	-	-	7,370,000

Funding Sources

Transfer In - Solid Waste									
Enterprise	\$ 100,000	200,000	-	-	-	-	-	-	200,000
Closure Reserve Allocation	-	570,000	3,300,000	3,300,000	-	-	-	-	7,170,000
TOTAL SOURCES	100,000	770,000	3,300,000	3,300,000	-	-	-	-	7,370,000

New Operating Budget Impact
Total Operating Budget Impact

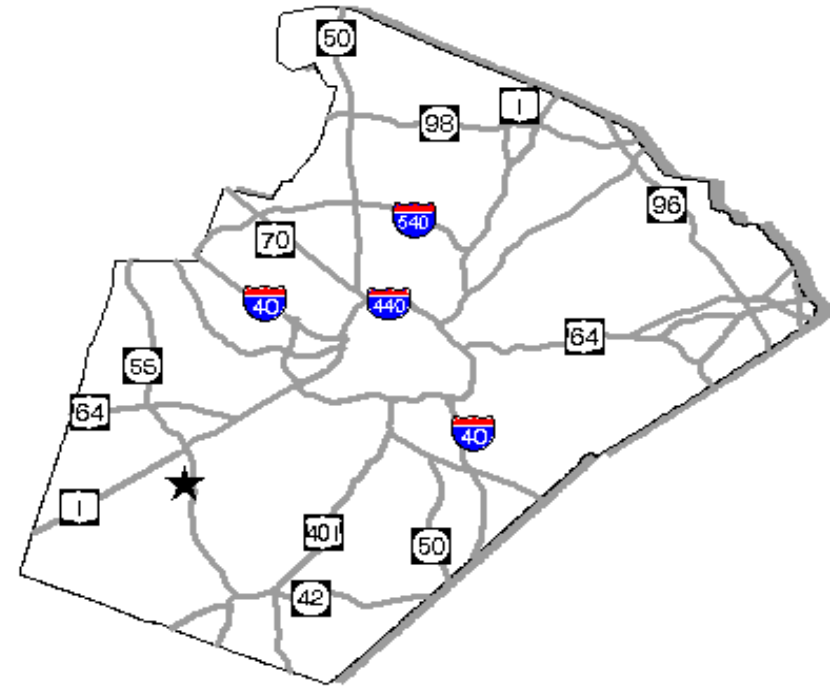
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South Wake Landfill

Plans for a new landfill in southern Wake County have been completed and a permit for construction issued by the State. Land for the new landfill is owned by Wake County. CIP estimates are based on county construction of a 350,000 ton / year landfill.

The landfill will be constructed through a design-build contract; however, the entrance road and scale house must be designed and built by Wake County directly. Design for the entrance road and scale house will be accomplished during FY 2007 with bidding and construction occurring during FY 2007 and FY 2008. Facilities need to be completed prior to the North Wake Landfill being closed - which is currently estimated to occur in January 2008. Some additional adjacent property currently owned by NCDOT may be purchased for additional buffer and to reduce the long term grading cost for the landfill.



★ Proposed Location

Project Summary: South Wake Landfill

Uses	Prior Funding	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TOTAL
South Wake MSW Landfill									
Entrance Facilities	284,000	3,300,000	-	-	-	-	-	-	3,300,000
Property Cost	-	400,000	-	-	-	-	-	-	400,000
TOTAL USES	\$ 284,000	3,700,000	-	-	-	-	-	-	3,700,000

Funding Sources

Transfer In - Solid Waste Enterprise	\$	-	3,700,000						3,700,000
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New Operating Budget Impact	-	-	-	-	-	-	-	-	-
Total Operating Budget Impact	-	-	-	-	-	-	-	-	-

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