

# **SOLID WASTE**

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# Phase V MSW Landfill Closure

Requesting Department/Division: Public Works/Solid Waste  
 Project Manager/Contact: Mike Garrett/Jason Weaver

Estimated Start Date: July 2009  
 Est. Completion Date: June 2011

Project Category: Rehabilitation/Remediation

Project Status: Planned/Programmed Project  
 Project Number: TBD

### Project Description, Justification and Location

This project provides for the final capping and restoration of approximately thirty-four (34) acres of closed landfill area. Closure work includes the addition of soil and vegetation to the former work area in accordance with requirements of the State Department of Health and Environmental Control (DHEC). Planning/Engineering is scheduled for FY 2009/10, with site closure scheduled for FY 2009/10 and FY 2010/11. This project will be done in conjunction with the Phase VI MSW Cell 2 project. A site plan for the Wellford Landfill is included on page 87.



### Benefits to Residents, Visitors, Businesses, or County Employees

The county will meet requirements from DHEC pertaining to the closure of landfills. The approximately thirty-four (34) acres will be restored to a more natural state.

### Impact on Annual Operating Budget

There will be no impact on the operating budget. Decreased operating costs associated with Phase V will be offset by new operating costs associated with Phase VI.

### Project Status (as of April 1, 2009)

Planned/Programmed project scheduled for funding beginning FY 2009/10.

## Project Expenditures and Funding Sources

PROJECT	TOTAL PROJECT COST	COMMITTED FUNDING	FY 2009/10	FY 2010/11	FY 2011/12	FY 2012/13	FY 2013/14	FY 2010-14 Totals
<b>Phase V MSW Landfill Closure</b>								
<u>Expenditures</u>								
Planning/Design/Engineering	300,000	0	300,000	0	0	0	0	300,000
Land Acquisition/Right-of-Way	0	0	0	0	0	0	0	0
Construction/Improvements	4,500,000	0	2,000,000	2,500,000	0	0	0	4,500,000
Capital Materials/Equipment	0	0	0	0	0	0	0	0
Technology Expenditures	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
<b>Total Expenditures</b>	<b>4,800,000</b>	<b>0</b>	<b>2,300,000</b>	<b>2,500,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,800,000</b>
<u>Revenues</u>								
Solid Waste Revenue Bond - FY 2009/10	4,800,000	0	2,300,000	2,500,000	0	0	0	4,800,000
<b>Total Revenues</b>	<b>4,800,000</b>	<b>0</b>	<b>2,300,000</b>	<b>2,500,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,800,000</b>

# Phase VI MSW Cell 2 Construction

Requesting Department/Division: Public Works/Solid Waste  
 Project Manager/Contact: Mike Garrett/Jason Weaver

Estimated Start Date: July 2009  
 Est. Completion Date: June 2011

Project Category: New Construction

Project Status: Planned/Programmed Project  
 Project Number: TBD

### **Project Description, Justification and Location**

This project is part two (Cell 2) of the Phase VI MSW Landfill expansion located at the Wellford Landfill. The project involves earthwork, cell construction, and lining of ten (10) acres that would be used for the disposal of household waste. The project will be necessary for the operation of accepting household waste at the Wellford facility as the existing household disposal area begins to reach capacity. Planning/Engineering is scheduled for FY 2009/10, with site closure scheduled for FY 2010/11. The project will be done in conjunction with the Phase V MSW Landfill closure project. A site plan for the Wellford Landfill is included on page 71.

### **Benefits to Residents, Visitors, Businesses, or County Employees**

Construction of Cell 2 will ensure that residents and businesses of Spartanburg County will continue to have an area for disposal of waste.

### **Impact on Annual Operating Budget**

There will be no additional staffing needed for this project. Costs are included in the annual operating budget.

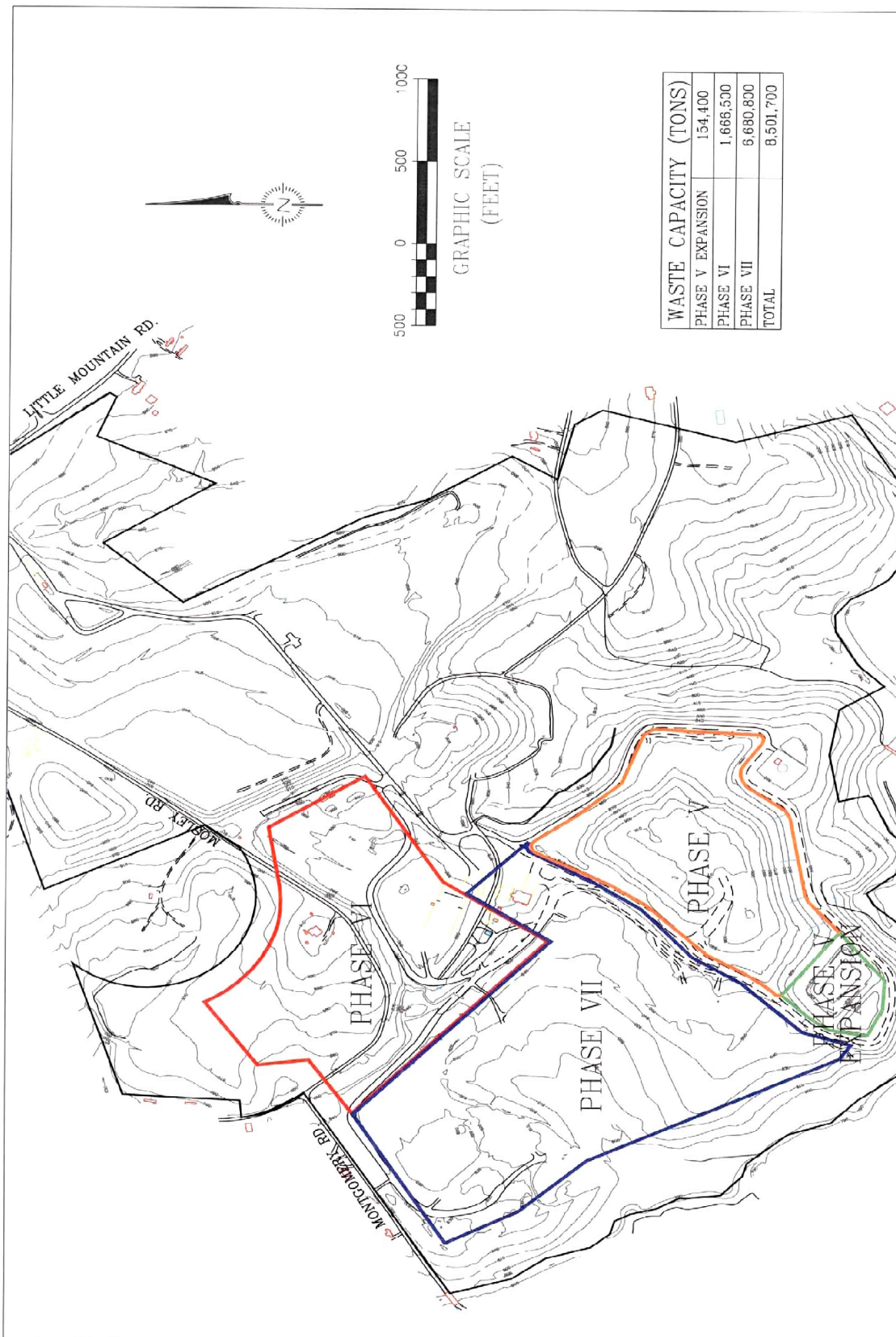
### **Project Status (as of April 1, 2009)**

Planned/Programmed project scheduled for funding beginning FY 2009/10.


## **Project Expenditures and Funding Sources**

PROJECT	TOTAL PROJECT COST	COMMITTED FUNDING	FY 2009/10	FY 2010/11	FY 2011/12	FY 2012/13	FY 2013/14	FY 2010-14 Totals
<b>Phase VI MSW Cell 2 Construction</b>								
<u>Expenditures</u>								
Planning/Design/Engineering	300,000	0	300,000	0	0	0	0	300,000
Land Acquisition/Right-of-Way	0	0	0	0	0	0	0	0
Construction/Improvements	3,800,000	0	0	3,800,000	0	0	0	3,800,000
Capital Materials/Equipment	0	0	0	0	0	0	0	0
Technology Expenditures	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
<b>Total Expenditures</b>	<b>4,100,000</b>	<b>0</b>	<b>300,000</b>	<b>3,800,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,100,000</b>
<u>Revenues</u>								
Solid Waste Revenue Bond - FY 2009/10	4,100,000	0	300,000	3,800,000	0	0	0	4,100,000
<b>Total Revenues</b>	<b>4,100,000</b>	<b>0</b>	<b>300,000</b>	<b>3,800,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,100,000</b>

# Wellford Landfill Overall Site Plan



WASTE CAPACITY (TONS)	
PHASE V EXPANSION	154,400
PHASE VI	1,666,500
PHASE VII	6,690,800
TOTAL	8,501,700

 <b>CLVER INCORPORATED</b> Consultants and Environmental Engineers 4537 ALBEMARLE RD. CHARLOTTE, NC 28225 (704)555-1100	Scale: 1"=50' Job No.: 2010217 Date: 06/08/05	Designed: N/A Drawn: N/A Checked: E.S.	SPARTANBURG COUNTY, SOUTH CAROLINA WELLFORD MUNICIPAL SOLID WASTE LANDFILL OVERALL SITE PLAN	Figure No.: 1
	4537 ALBEMARLE RD. CHARLOTTE, NC 28225 (704)555-1100	Date: 06/08/05	Checked: E.S.	Rev.    Date    By

# Wellford Landfill MSW Disposal Permitting

Requesting Department/Division: Public Works/Solid Waste  
 Project Manager/Contact: Jason Weaver

Estimated Start Date: July 2008  
 Est. Completion Date: June 2010

Project Category: Other – Master Planning

Project Status: Active Project  
 Project Number: SW0004

## **Project Description, Justification and Location**

This project is located at the Wellford Landfill and consists of permitting the remaining acreage available for MSW disposal, which is necessary as the Solid Waste Department plans ahead to meet the solid waste disposal needs of Spartanburg County.

## **Benefits to Residents, Visitors, Businesses, or County Employees**

This project will benefit the County in that it will provide an overall master plan for meeting the disposal needs of the County in the future. Funding for this project will allow the County to go ahead with implementing the lengthy process involved in permitting an MSW Disposal facility, allowing for timely and efficient project management.

## **Impact on Annual Operating Budget**

No impact on the annual operating budget.

## **Project Status (as of April 1, 2009)**

Project is currently in the planning/design/engineering phase and is 15% complete.

### **Project Expenditures and Funding Sources**

<b>PROJECT</b>	TOTAL	COMMITTED	FY	FY	FY	FY	FY	FY	FY 2010-14
Wellford Landfill MSW Disposal Permitting	PROJECT COST	FUNDING	2009/10	2010/11	2011/12	2012/13	2013/14	Totals	Totals
<b>Expenditures</b>									
Planning/Design/Engineering	350,000	150,000	200,000	0	0	0	0	0	200,000
Land Acquisition/Right-of-Way	0	0	0	0	0	0	0	0	0
Construction/Improvements	0	0	0	0	0	0	0	0	0
Capital Materials/Equipment	0	0	0	0	0	0	0	0	0
Technology Expenditures	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
<b>Total Expenditures</b>	<b>350,000</b>	<b>150,000</b>	<b>200,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>200,000</b>
<b>Revenues</b>									
Solid Waste Fund	150,000	150,000	0	0	0	0	0	0	0
Solid Waste Revenue Bond - FY 2009/10	200,000	0	200,000	0	0	0	0	0	200,000
<b>Total Revenues</b>	<b>350,000</b>	<b>150,000</b>	<b>200,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>200,000</b>

# Construction and Demolition Landfill Expansion

Requesting Department/Division: Public Works/Solid Waste  
 Project Manager/Contact: Mike Garrett/Jason Weaver

Estimated Start Date: July 2008  
 Est. Completion Date: June 2011

Project Category: New Construction

Project Status: Active Project  
 Project Number: SW0005

## Project Description, Justification and Location

Expansion of the existing Construction and Demolition (C & D) Landfill located at the Wellford Landfill. The existing C & D Landfill is expected to be near capacity by the end of FY 2008/09. Permitting and construction of the project is expected to take between twelve (12) to eighteen (18) months to complete.



## Benefits to Residents, Visitors, Businesses, or County Employees

Residents of Spartanburg County will continue to have a disposal facility for their C & D waste. The county will also generate revenue from the disposal of commercial material.

## Impact on Annual Operating Budget

There will be no additional staffing or operational costs associated with this project, annual operating costs are already captured in the budget.

## Project Status (as of April 1, 2009)

This is an active project and is currently in the planning/design/engineering phase.

### Project Expenditures and Funding Sources

PROJECT	TOTAL PROJECT COST	COMMITTED FUNDING	FY 2009/10	FY 2010/11	FY 2011/12	FY 2012/13	FY 2013/14	FY 2010-14 Totals
<b>Construction &amp; Demolition Landfill Expansion</b>								
<u>Expenditures</u>								
Planning/Design/Engineering	190,000	100,000	45,000	45,000	0	0	0	90,000
Land Acquisition/Right-of-Way	0	0	0	0	0	0	0	0
Construction/Improvements	2,810,000	0	1,405,000	1,405,000	0	0	0	2,810,000
Capital Materials/Equipment	0	0	0	0	0	0	0	0
Technology Expenditures	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
<b>Total Expenditures</b>	<b>3,000,000</b>	<b>100,000</b>	<b>1,450,000</b>	<b>1,450,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,900,000</b>
<u>Revenues</u>								
Solid Waste Fund	100,000	100,000	0	0	0	0	0	0
Solid Waste Revenue Bond - FY 2009/10	2,900,000	0	1,450,000	1,450,000	0	0	0	2,900,000
<b>Total Revenues</b>	<b>3,000,000</b>	<b>100,000</b>	<b>1,450,000</b>	<b>1,450,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,900,000</b>

# Recycling Yard Relocation

Requesting Department/Division: Public Works/Solid Waste  
 Project Manager/Contact: Mike Garrett/Jason Weaver

Estimated Start Date: July 2009  
 Est. Completion Date: June 2010

Project Category: New Construction

Project Status: Planned/Programmed Project  
 Project Number: TBD

**Project Description, Justification and Location**

Relocation of the current recycling yard located at the Wellford Landfill. This project is necessary as the construction of the Phase VI MSW Cell 2 Landfill will be located within the property where the existing recycling yard is located.



**Benefits to Residents, Visitors, Businesses, or County Employees**

Residents and businesses of the county will continue to have a place for disposal of larger recyclable materials.

**Impact on Annual Operating Budget**

Operating costs of the recycling yard are included in the operating budget.

**Project Status (as of April 1, 2009)**

Planned/Programmed project scheduled for funding beginning FY 2009/10. Original cost estimate in the FY 2008-12 was \$650,000 however; a thorough analysis of construction costs and materials needed to complete the project yielded an updated cost of \$317,000.

**Project Expenditures and Funding Sources**

PROJECT	TOTAL PROJECT COST	COMMITTED FUNDING	FY 2009/10	FY 2010/11	FY 2011/12	FY 2012/13	FY 2013/14	FY 2010-14 Totals
<b>Recycling Yard Relocation</b>								
<u>Expenditures</u>								
Planning/Design/Engineering	15,000	0	15,000	0	0	0	0	15,000
Land Acquisition/Right-of-Way	0	0	0	0	0	0	0	0
Construction/Improvements	302,000	0	302,000	0	0	0	0	302,000
Capital Materials/Equipment	0	0	0	0	0	0	0	0
Technology Expenditures	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
<b>Total Expenditures</b>	<b>317,000</b>	<b>0</b>	<b>317,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>317,000</b>
<u>Revenues</u>								
Solid Waste Revenue Bond - FY 2009/10	317,000	0	317,000	0	0	0	0	317,000
<b>Total Revenues</b>	<b>317,000</b>	<b>0</b>	<b>317,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>317,000</b>

# Wellford Landfill Road Improvements

Requesting Department/Division: Public Works/Solid Waste  
 Project Manager/Contact: Jason Weaver

Estimated Start Date: July 2009  
 Est. Completion Date: June 2010

Project Category: Rehabilitation/Remediation

Project Status: Planned/Programmed Project  
 Project Number: TBD

### Project Description, Justification and Location

This project is located at the Wellford Landfill and consists of repairing and paving portions of the road inside the landfill. This project is necessary as the road has suffered much damage from the weight of loaded trucks entering and exiting the landfill. Certain areas such as the entrance on and off of the scales have suffered severe damage creating potholes.



### Benefits to Residents, Visitors, Businesses, or County Employees

Improving the condition of the road will provide a safe way of travel for vehicles entering and exiting the facility. Improvements should also reduce the amount of material being lost by vehicles as they travel across areas in need of repair.

### Impact on Annual Operating Budget

No impact on the annual operating budget.

### Project Status (as of April 1, 2009)

Planned/Programmed project, scheduled for funding beginning FY 2009/10.

## Project Expenditures and Funding Sources

<b>PROJECT</b>	TOTAL PROJECT COST	COMMITTED FUNDING	FY 2009/10	FY 2010/11	FY 2011/12	FY 2012/13	FY 2013/14	FY FY 2010-14 Totals
<b>Wellford Landfill Road Improvements</b>								
<u>Expenditures</u>								
Planning/Design/Engineering	0	0	0	0	0	0	0	0
Land Acquisition/Right-of-Way	0	0	0	0	0	0	0	0
Construction/Improvements	162,000	0	162,000	0	0	0	0	162,000
Capital Materials/Equipment	0	0	0	0	0	0	0	0
Technology Expenditures	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
<b>Total Expenditures</b>	<b>162,000</b>	<b>0</b>	<b>162,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>162,000</b>
<u>Revenues</u>								
Solid Waste Revenue Bond - FY 2009/10	162,000	0	162,000	0	0	0	0	162,000
<b>Total Revenues</b>	<b>162,000</b>	<b>0</b>	<b>162,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>162,000</b>

# Wellford Landfill Methane Recovery Project

Requesting Department/Division: Public Works/Solid Waste  
 Project Manager/Contact: Mike Garrett/Fran Creel

Estimated Start Date: July 2008  
 Est. Completion Date: January 2010

Project Category: New Construction

Project Status: Active Project  
 Project Number: SW0007

## Project Description, Justification and Location

The Wellford methane recovery project consists of collection, treatment, and delivery of the methane gas generated at the Wellford Landfill to the Milliken Dewey Plant in Inman. The project will also incorporate an electricity generation facility to utilize excess methane and will be owned and operated by Lockhart Power.



## Benefits to Residents, Visitors, Businesses, or County Employees

Residents and visitors will benefit from improved air quality. The annual environmental benefits can be equated to:

- Removing the emissions of 10,000 vehicles;
- Planting 14,000 acres of forest;
- Offsetting the use of 260 railroad cars of coal;
- Offsetting the use of 125,000 barrels of oil;
- Eliminating the pollution emissions from providing electricity to 5,000 homes; and
- Eliminating 52,000 tons of the greenhouse gas carbon dioxide.

## Impact on Annual Operating Budget

Annual impact on operating budget when fully operational is estimated at \$200,000, which will be offset by revenues derived from the sale of methane.

## Project Status (as of April 1, 2009)

The County has identified two partners in the Wellford Landfill Methane Recovery Project in order to ensure that the maximum amount of methane is utilized either as a direct form of energy or as a fuel to produce electricity. Roles of all partners are being actively developed, including clarification of the County's level of investment. Project costs have been revised to reflect the County's anticipated contribution to the project. Engineering of the gas collection system is complete.

### Project Expenditures and Funding Sources

PROJECT	TOTAL PROJECT COST	COMMITTED FUNDING	FY 2009/10	FY 2010/11	FY 2011/12	FY 2012/13	FY 2013/14	FY 2010-14 Totals
<b>Wellford Landfill Methane Recovery Project</b>								
<u>Expenditures</u>								
Planning/Design/Engineering	400,000	400,000	0	0	0	0	0	0
Land Acquisition/Right-of-Way	250,000	250,000	0	0	0	0	0	0
Construction/Improvements	960,770	350,000	610,770	0	0	0	0	610,770
Capital Materials/Equipment	0	0	0	0	0	0	0	0
Technology Expenditures	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
<b>Total Expenditures</b>	<b>1,610,770</b>	<b>1,000,000</b>	<b>610,770</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>610,770</b>
<u>Revenues</u>								
Solid Waste Fund	1,000,000	1,000,000	0	0	0	0	0	0
Solid Waste Revenue Bond - FY 2009/10	610,770	0	610,770	0	0	0	0	610,770
<b>Total Revenues</b>	<b>1,610,770</b>	<b>1,000,000</b>	<b>610,770</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>610,770</b>