

---

**Wastewater**  
**Table of Contents**

---

<b>Project Title</b>	<b>Page</b>
Wastewater: Summary By Project	X-1
Wastewater: Summary By Revenue Source	X-2
Enhanced Nitrogen Removal	X-3
Facility Paving	X-4
Orange Co. Economic Development Zone Improvements	X-5
Reclaimed Water Systems, Phase 1 & 2	X-6
Sewer Collection System Rehabilitation	X-7
Sewer Extensions & Improvements	X-8
Southeast Regional Lift Station	X-9
Wastewater Process Rehabilitation	X-10
Water Management Facility Expansion	X-11

**Program Category: Wastewater****SUMMARY BY PROJECT**

<b>Category</b>	<b>Prior Year</b>	<b>FY 2015-16</b>	<b>FY 2016-17</b>	<b>FY 2017-18</b>	<b>FY 2018-19</b>	<b>FY 2019-20</b>	<b>FY 2020-21</b>	<b>Future Years</b>	<b>Total Request</b>
Enhanced Nitrogen Removal	14,323,704	3,500,000	9,700,000	600,000	0	6,600,000	0	0	34,723,704
Facility Paving	2,860,000	0	600,000	600,000	600,000	600,000	0	0	5,260,000
Orange Co. Economic Development Zone Improvements	700,000	250,000	0	0	0	0	0	0	950,000
Reclaimed Water Systems, Phases 1 & 2	2,181,000	0	550,000	550,000	550,000	550,000	0	0	4,381,000
Sewer Collection System Rehabilitation	50,843,749	4,500,000	7,000,000	7,000,000	7,000,000	7,000,000	5,000,000	5,000,000	93,343,749
Sewer Extensions & Improvements	6,796,842	1,000,000	1,750,000	1,750,000	1,750,000	1,750,000	0	0	14,796,842
Southeast Regional Lift Station	0	4,700,000	30,000,000	0	0	0	0	0	34,700,000
Wastewater Process Rehabilitation	38,035,000	12,000,000	15,000,000	6,000,000	6,000,000	6,000,000	0	0	83,035,000
Water Management Facility Expansion	11,300,000	0	0	0	0	0	0	0	11,300,000
	<b>\$127,040,295</b>	<b>\$25,950,000</b>	<b>\$64,600,000</b>	<b>\$16,500,000</b>	<b>\$15,900,000</b>	<b>\$22,500,000</b>	<b>\$5,000,000</b>	<b>\$5,000,000</b>	<b>\$282,490,295</b>

## SUMMARY BY REVENUE SOURCE

Category	Prior Year	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	Future Years	Total Funds
Unidentified	0	0	0	0	0	0	0	0	0
Rev Unauthorized	65,426,000	25,700,000	55,250,000	7,150,000	6,550,000	13,150,000	0	0	173,226,000
Rev Authorized	3,136,611	0	0	0	0	0	0	0	3,136,611
Pay-As-You-Go	44,750,787	250,000	9,350,000	9,350,000	9,350,000	9,350,000	5,000,000	5,000,000	92,400,787
Other	5,107,232	0	0	0	0	0	0	0	5,107,232
Intergovernmental	3,076,115	0	0	0	0	0	0	0	3,076,115
Installment Sales	611,225	0	0	0	0	0	0	0	611,225
Impact Fees	0	0	0	0	0	0	0	0	0
GOB Unauthorized	0	0	0	0	0	0	0	0	0
GOB Authorized	4,932,325	0	0	0	0	0	0	0	4,932,325
	<b>\$127,040,295</b>	<b>\$25,950,000</b>	<b>\$64,600,000</b>	<b>\$16,500,000</b>	<b>\$15,900,000</b>	<b>\$22,500,000</b>	<b>\$5,000,000</b>	<b>\$5,000,000</b>	<b>282,490,295</b>

**CITY OF DURHAM  
CAPITAL IMPROVEMENTS PROGRAM**

<i>Service Area</i> Wastewater	<i>Department</i> Water Management	<i>Division/Program:</i>	<i>District:</i> 3, All
<i>Project Title</i> Enhanced Nitrogen Removal	<i>Pin Number</i> 0708-04-63-3956	<i>Master Plan</i> Water and Sewer Utility Strategic Plan	

**Project Description**

This project will provide equipment and structures at the South and North Durham Water Reclamation Facilities to meet new requirements for wastewater discharge. Large construction items include a new 145' diameter clarifier at North Durham, replacing a clarifier at South Durham and new denitrification filters at South Durham. Installation of process equipment to remove phosphorous from dewatering sludge side stream is also included.



<i>PROJECT STATUS - June 2015</i>	<i>PROJECTED DATES:</i>		<i>TYPE REQUEST</i>
Total Expenditures	\$0	Beginning 07/10 Completion 07/19	Continuation

<i>Appropriation</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Planning/Design	\$2,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,000,000
Construction	10,887,704	\$3,500,000	\$9,700,000	\$0	\$0	\$6,600,000	\$0	\$0	30,687,704
Equip/Furnishings	\$0	\$0	\$0	\$600,000	\$0	\$0	\$0	\$0	\$600,000
Contingency	\$1,436,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,436,000
<b><i>Total</i></b>	<b>\$14,323,704</b>	<b>\$3,500,000</b>	<b>\$9,700,000</b>	<b>\$600,000</b>	<b>\$0</b>	<b>\$6,600,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$34,723,704</b>

<i>Revenue</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Pay-As-You-Go	\$7,165,029	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,165,029
GOB Authorized	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GOB Unauthorize	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Rev Authorized	\$919,246	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$919,246
Rev Unauthorized	\$3,815,754	\$3,500,000	\$9,700,000	\$600,000	\$0	\$6,600,000	\$0	\$0	24,215,754
Installment Sales	\$611,225	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$611,225
Impact Fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Intergovernmental	\$1,217,455	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,217,455
Other	\$594,995	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$594,995
Unidentified	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b><i>Total</i></b>	<b>\$14,323,704</b>	<b>\$3,500,000</b>	<b>\$9,700,000</b>	<b>\$600,000</b>	<b>\$0</b>	<b>\$6,600,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$34,723,704</b>

<i>Operating</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Capital Outlay	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Maint/Operations	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Personnel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b><i>Total</i></b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

**CITY OF DURHAM  
CAPITAL IMPROVEMENTS PROGRAM**

<i>Service Area</i> Wastewater	<i>Department</i> Water Management	<i>Division/Program:</i> Utility Engineering	<i>District:</i> All
<i>Project Title</i> Facility Paving		<i>Pin Number</i>	
		<i>Master Plan</i> Water and Sewer Utility Strategic Plan	

*Project Description*

The pavement at all the facilities operated by Water Management are in various levels of disrepair and need resurfacing or replacement. Addressing pavement needs now will control future costs.



<i>PROJECT STATUS - June 2015</i>		<i>PROJECTED DATES:</i>	<i>TYPE REQUEST</i>
Total Expenditures	\$621,594	Beginning 07/09 Completion 06/17	Continuation

<i>Appropriation</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Construction	\$2,860,000	\$0	\$600,000	\$600,000	\$600,000	\$600,000	\$0	\$0	\$5,260,000
<b><i>Total</i></b>	<b>\$2,860,000</b>	<b>\$0</b>	<b>\$600,000</b>	<b>\$600,000</b>	<b>\$600,000</b>	<b>\$600,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$5,260,000</b>

<i>Revenue</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Pay-As-You-Go	\$2,090,000	\$0	\$600,000	\$600,000	\$600,000	\$600,000	\$0	\$0	\$4,490,000
GOB Authorized	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GOB Unauthorize	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Rev Authorized	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Rev Unauthorized	\$770,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$770,000
Installment Sales	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Impact Fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Intergovernmental	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Unidentified	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b><i>Total</i></b>	<b>\$2,860,000</b>	<b>\$0</b>	<b>\$600,000</b>	<b>\$600,000</b>	<b>\$600,000</b>	<b>\$600,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$5,260,000</b>

<i>Operating</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Capital Outlay	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Maint/Operations	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Personnel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b><i>Total</i></b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

**CITY OF DURHAM  
CAPITAL IMPROVEMENTS PROGRAM**

<i>Service Area</i> Wastewater	<i>Department</i> Water Management	<i>Division/Program:</i> Utility Engineering	<i>District:</i> 2,3
<i>Project Title</i> Orange Co. Economic Development Zone Improvements		<i>Pin Number</i>	
<i>Master Plan</i>			

*Project Description*

This entails master planning water and sanitary sewer infrastructure for the City's service area within Orange County, followed by design, permitting and construction.



<i>PROJECT STATUS - June 2015</i>		<i>PROJECTED DATES:</i>	<i>TYPE REQUEST</i>
Total Expenditures	\$0	Beginning 03/13 Completion 12/17	Continuation

<i>Appropriation</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Planning/Design	\$700,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$950,000
Land	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Equip/Furnishings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b><i>Total</i></b>	<b>\$700,000</b>	<b>\$250,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$950,000</b>

<i>Revenue</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Pay-As-You-Go	\$700,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$950,000
GOB Authorized	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GOB Unauthorize	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Rev Authorized	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Rev Unauthorized	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Installment Sales	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Impact Fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Intergovernmental	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Unidentified	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b><i>Total</i></b>	<b>\$700,000</b>	<b>\$250,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$950,000</b>

<i>Operating</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Capital Outlay	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Maint/Operations	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Personnel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b><i>Total</i></b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

**CITY OF DURHAM  
CAPITAL IMPROVEMENTS PROGRAM**

<i>Service Area</i> Wastewater	<i>Department</i> Water Management	<i>Division/Program:</i> Utility Engineering	<i>District:</i> 2
<i>Project Title</i> Reclaimed Water Systems, Phases 1 & 2		<i>Pin Number</i> 0842-01-18-1935	
<i>Master Plan</i> Water and Sewer Utility Strategic Plan			

**Project Description**

Funds have been approved for (Phase 1 which includes bulk tank distribution facilities, a Reclaimed Water Master Plan, and construction of a reclaimed water pumping station). Phase 2 consists of initial pipelines to distribute reclaimed water to areas that can use reclaimed water to replace water demand currently provided by the potable treated water system.



<i>PROJECT STATUS - June 2015</i>		<i>PROJECTED DATES:</i>	<i>TYPE REQUEST</i>
Total Expenditures	\$0	Beginning 09/09 Completion 07/18	Continuation

<i>Appropriation</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Planning/Design	\$916,000	\$0	\$0	\$550,000	\$0	\$550,000	\$0	\$0	\$2,016,000
Construction	\$1,102,000	\$0	\$550,000	\$0	\$550,000	\$0	\$0	\$0	\$2,202,000
Contingency	\$163,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$163,000
<b><i>Total</i></b>	<b>\$2,181,000</b>	<b>\$0</b>	<b>\$550,000</b>	<b>\$550,000</b>	<b>\$550,000</b>	<b>\$550,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,381,000</b>

<i>Revenue</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Pay-As-You-Go	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GOB Authorized	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GOB Unauthorize	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Rev Authorized	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Rev Unauthorized	\$2,181,000	\$0	\$550,000	\$550,000	\$550,000	\$550,000	\$0	\$0	\$4,381,000
Installment Sales	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Impact Fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Intergovernmental	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Unidentified	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b><i>Total</i></b>	<b>\$2,181,000</b>	<b>\$0</b>	<b>\$550,000</b>	<b>\$550,000</b>	<b>\$550,000</b>	<b>\$550,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,381,000</b>

<i>Operating</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Capital Outlay	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Maint/Operations	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Personnel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b><i>Total</i></b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

**CITY OF DURHAM  
CAPITAL IMPROVEMENTS PROGRAM**

<i>Service Area</i> Wastewater	<i>Department</i> Water Management	<i>Division/Program:</i> Utility Engineering	<i>District:</i> All
<i>Project Title</i> Sewer Collection System Rehabilitation		<i>Pin Number</i>	
		<i>Master Plan</i> Water & Sewer Strategic Plan	

**Project Description**

This project involves condition assesment, rehabilitation and replacement of the City's Sewer Collection System. Sewer mains, manholes, outfalls, force mains and pump stations are inspected and analyzed, for decisions on appropriate methods of rehabilitation or replacement of infrastructure. This is an on-going program.



<i>PROJECT STATUS - June 2015</i>		<i>PROJECTED DATES:</i>	<i>TYPE REQUEST</i>
Total Expenditures	\$343,212	Beginning	12/04
		Completion	12/24
			Continuation

<i>Appropriation</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Planning/Design	\$1,643,920	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,643,920
Land	\$46,767	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$46,767
Construction	49,147,167	\$4,500,000	\$7,000,000	\$7,000,000	\$7,000,000	\$7,000,000	\$5,000,000	\$5,000,000	91,647,167
Equip/Furnishings	\$5,895	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,895
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$50,843,749</b>	<b>\$4,500,000</b>	<b>\$7,000,000</b>	<b>\$7,000,000</b>	<b>\$7,000,000</b>	<b>\$7,000,000</b>	<b>\$5,000,000</b>	<b>\$5,000,000</b>	<b>\$93,343,749</b>

<i>Revenue</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Pay-As-You-Go	24,701,359	\$0	\$7,000,000	\$7,000,000	\$7,000,000	\$7,000,000	\$5,000,000	\$5,000,000	62,701,359
GOB Authorized	\$4,850,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,850,000
GOB Unauthorize	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Rev Authorized	\$2,187,769	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,187,769
Rev Unauthorized	13,789,118	\$4,500,000	\$0	\$0	\$0	\$0	\$0	\$0	18,289,118
Installment Sales	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Impact Fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Intergovernmental	\$1,858,660	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,858,660
Other	\$3,456,843	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,456,843
Unidentified	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$50,843,749</b>	<b>\$4,500,000</b>	<b>\$7,000,000</b>	<b>\$7,000,000</b>	<b>\$7,000,000</b>	<b>\$7,000,000</b>	<b>\$5,000,000</b>	<b>\$5,000,000</b>	<b>\$93,343,749</b>

<i>Operating</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Capital Outlay	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Maint/Operations	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Personnel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>



**CITY OF DURHAM  
CAPITAL IMPROVEMENTS PROGRAM**

<i>Service Area</i> Wastewater	<i>Department</i> Public Works	<i>Division/Program:</i> Engineering	<i>District:</i> All
<i>Project Title</i> Sewer Extensions & Improvements		<i>Pin Number</i>	
		<i>Master Plan</i> Water and Sewer Utility Strategic Plan	

**Project Description**

This ongoing program constructs sewer line extensions requested by petitions, relocates sewer lines resulting from NCDOT projects, reimburses developers for sewer improvements, and constructs lines to abate health hazards.



<i>PROJECT STATUS - June 2015</i>		<i>PROJECTED DATES:</i>	<i>TYPE REQUEST</i>
Total Expenditures	\$0	Beginning 07/12 Completion 07/19	Continuation

<i>Appropriation</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Planning/Design	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Land	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$6,796,842	\$1,000,000	\$1,750,000	\$1,750,000	\$1,750,000	\$1,750,000	\$0	\$0	14,796,842
<b><i>Total</i></b>	<b>\$6,796,842</b>	<b>\$1,000,000</b>	<b>\$1,750,000</b>	<b>\$1,750,000</b>	<b>\$1,750,000</b>	<b>\$1,750,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$14,796,842</b>

<i>Revenue</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Pay-As-You-Go	\$1,909,399	\$0	\$1,750,000	\$1,750,000	\$1,750,000	\$1,750,000	\$0	\$0	\$8,909,399
GOB Authorized	\$82,325	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$82,325
GOB Unauthorize	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Rev Authorized	\$29,596	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$29,596
Rev Unauthorized	\$4,775,522	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$5,775,522
Installment Sales	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Impact Fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Intergovernmental	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Unidentified	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b><i>Total</i></b>	<b>\$6,796,842</b>	<b>\$1,000,000</b>	<b>\$1,750,000</b>	<b>\$1,750,000</b>	<b>\$1,750,000</b>	<b>\$1,750,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$14,796,842</b>

<i>Operating</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Capital Outlay	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Maint/Operations	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Personnel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b><i>Total</i></b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

**CITY OF DURHAM  
CAPITAL IMPROVEMENTS PROGRAM**

<i>Service Area</i> Wastewater	<i>Department</i> Water Management	<i>Division/Program:</i> Water and Sewer	<i>District:</i> 4
<i>Project Title</i> Southeast Regional Lift Station		<i>Pin Number</i>	
		<i>Master Plan</i> Water and Sewer Strategic Plan	

*Project Description*

The goal of this project is to construct a new regional sewage lift station in the Lick Basin/Eastern portion of the City's sewer service area. FY16 will focus on the evaluation and design for the new infrastructure which will support ongoing development.



<i>PROJECT STATUS -</i>		<i>PROJECTED DATES:</i>	<i>TYPE REQUEST</i>
Total Expenditures	\$0	Beginning 07/16 Completion 07/20	New

<i>Appropriation</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Planning/Design	\$0	\$4,700,000	\$0	\$0	\$0	\$0	\$0	\$0	\$4,700,000
Construction	\$0	\$0	\$30,000,000	\$0	\$0	\$0	\$0	\$0	\$30,000,000
<b><i>Total</i></b>	<b>\$0</b>	<b>\$4,700,000</b>	<b>\$30,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$34,700,000</b>

  

<i>Revenue</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Rev Unauthorized	\$0	\$4,700,000	\$30,000,000	\$0	\$0	\$0	\$0	\$0	\$34,700,000
<b><i>Total</i></b>	<b>\$0</b>	<b>\$4,700,000</b>	<b>\$30,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$34,700,000</b>

**CITY OF DURHAM  
CAPITAL IMPROVEMENTS PROGRAM**

<i>Service Area</i> Wastewater	<i>Department</i> Water Management	<i>Division/Program:</i>	<i>District:</i> 2
<i>Project Title</i> Wastewater Process Rehabilitation		<i>Pin Number</i>	
		<i>Master Plan</i> Water and Sewer Strategic Plan	

**Project Description**

This project provides for ongoing needs at both North and South Durham Water Reclamation Facilities, which include roof replacement, new coatings, odor system rehab, electric blower rehab, piping changes and other large rehabilitation projects.



<i>PROJECT STATUS -</i> June 2015	<i>PROJECTED DATES:</i>	<i>TYPE REQUEST</i>
Total Expenditures \$1,663,271	Beginning 07/07 Completion 07/18	Continuation

<i>Appropriation</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Planning/Design	\$3,870,000	\$3,000,000	\$3,000,000	\$1,500,000	\$1,500,000	\$1,500,000	\$0	\$0	14,370,000
Construction	33,325,000	\$9,000,000	12,000,000	\$4,500,000	\$4,500,000	\$4,500,000	\$0	\$0	67,825,000
Contingency	\$840,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$840,000
<b>Total</b>	<b>\$38,035,000</b>	<b>\$12,000,000</b>	<b>\$15,000,000</b>	<b>\$6,000,000</b>	<b>\$6,000,000</b>	<b>\$6,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$83,035,000</b>

<i>Revenue</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Pay-As-You-Go	\$3,885,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,885,000
GOB Authorized	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GOB Unauthorize	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Rev Authorized	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Rev Unauthorized	33,094,606	12,000,000	15,000,000	\$6,000,000	\$6,000,000	\$6,000,000	\$0	\$0	78,094,606
Installment Sales	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Impact Fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Intergovernmental	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other	\$1,055,394	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,055,394
Unidentified	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$38,035,000</b>	<b>\$12,000,000</b>	<b>\$15,000,000</b>	<b>\$6,000,000</b>	<b>\$6,000,000</b>	<b>\$6,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$83,035,000</b>

<i>Operating</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Capital Outlay	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Maint/Operations	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Personnel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

**CITY OF DURHAM  
CAPITAL IMPROVEMENTS PROGRAM**

<i>Service Area</i> Wastewater	<i>Department</i> Water Management	<i>Division/Program:</i> Utility Engineering	<i>District:</i> 1
<i>Project Title</i> Water Management Facility Expansion		<i>Pin Number</i> 0842-09-16-8832	
<i>Master Plan</i>			

**Project Description**

This project involves the renovation and expansion of the Water Management Facility at Mist Lake Drive to accommodate the Water & Sewer Maintenance Division that is currently located at the Public Works Operations Center.



<i>PROJECT STATUS - June 2015</i>		<i>PROJECTED DATES:</i>	<i>TYPE REQUEST</i>
Total Expenditures	\$0	Beginning 09/10 Completion 07/16	Continuation

<i>Appropriation</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Planning/Design	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000,000
Construction	10,300,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	10,300,000
<b><i>Total</i></b>	<b>\$11,300,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$11,300,000</b>

<i>Revenue</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Pay-As-You-Go	\$4,300,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,300,000
GOB Authorized	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GOB Unauthorize	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Rev Authorized	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Rev Unauthorized	\$7,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,000,000
Installment Sales	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Impact Fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Intergovernmental	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Unidentified	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b><i>Total</i></b>	<b>\$11,300,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$11,300,000</b>

<i>Operating</i>	<i>Prior Year</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>	<i>2020-21</i>	<i>Future Years</i>	<i>TOTAL</i>
Capital Outlay	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Maint/Operations	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Personnel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b><i>Total</i></b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>