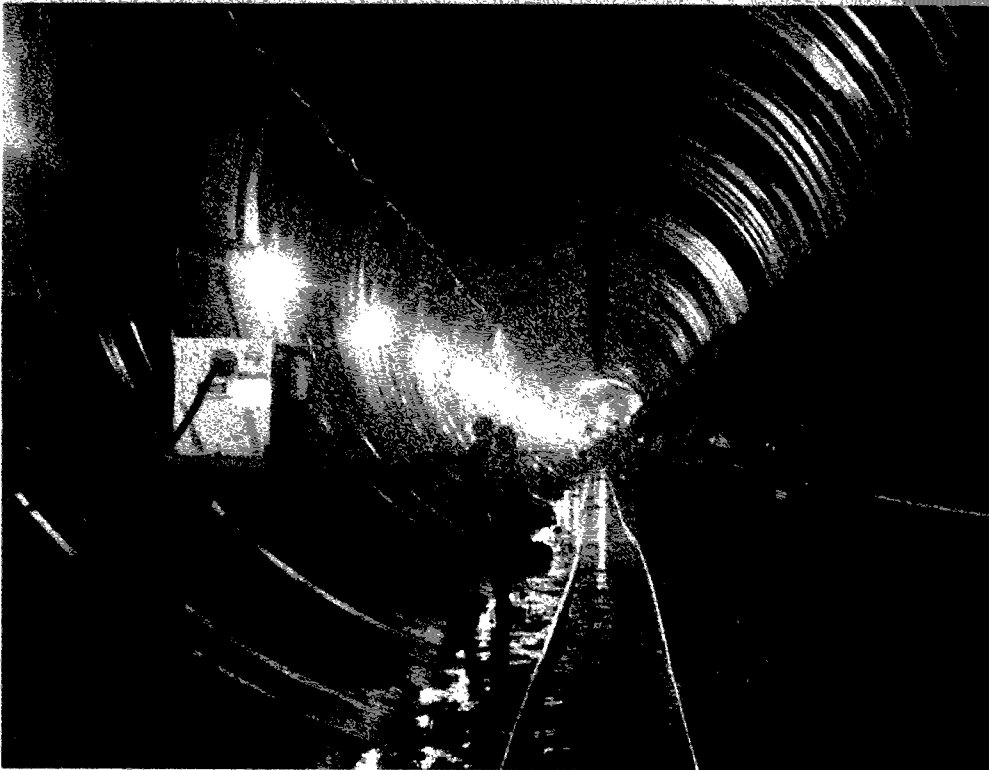


NARRAGANSETT BAY COMMISSION



CIP

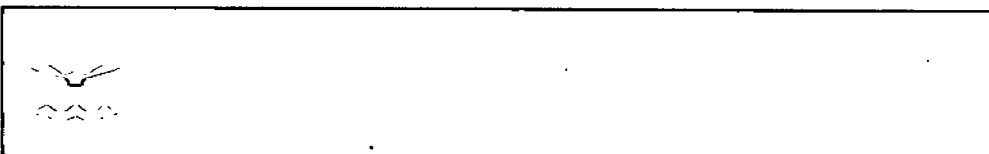
IN CITY COUNCIL  
AUG 4 2005

READ  
WHEREUPON IT IS ORDERED THAT  
THE SAME BE RECEIVED.

*Clair E. B. V. [Signature]* Acting  
CLERK

# CAPITAL IMPROVEMENT PROGRAM

FISCAL YEAR 2007 - 2011



Vincent J. Mesolella  
Chairman

Paul Pinault  
Executive Director

# Narragansett Bay Commission

## Service Area

The Narragansett Bay Commission is Rhode Island's largest wastewater authority dedicated to providing reliable, cost-effective wastewater collection and treatment services to over 360,000 residents and 8,000 businesses in ten Rhode Island communities in the metropolitan Providence and Blackstone Valley areas. These communities include: Providence, North Providence, Johnston, Pawtucket, Central Falls, Cumberland, Lincoln, the Northern portion of East Providence and small sections of Cranston and Smithfield.



# Capital Project Cost Summary

(Estimated Capital Project Costs FY 2007-2011)

		Fiscal Years		
		2007 - 2011		
Project Number	Project Name	(In Thousands)	Page Number	
<b><u>Wastewater Treatment Facility Improvements</u></b>				
10302D	Demolition of Field's Point Incinerating Facility - Design	\$ -	20	
10302C	Demolition of Field's Point Incinerating Facility - Construction	-	22	
10901P	FPWWTF - Nitrogen Removal Facilities - Planning	-	24	
10901D	FPWWTF - Nitrogen Removal Facilities - Design	943	26	
10901C	FPWWTF - Nitrogen Removal Facilities - Construction	33,120	28	
1100000	Site Specific Study	-	30	
1140100	River Model Development	63	32	
11500D	Asset Management - Design	1,300	34	
1160000	Improvements to Air Piping and Splitter Box D	289	36	
1170000	Upgrade of the Operations Building and Other Misc. Improvements	872	38	
80700C	BPWWTF CSO Facilities and Other Improvements	336	40	
80800C	BPWWTF - Repairs and Improvements to the Chlorine Building and Digester Complex	-	42	
80900P	BPWWTF - Nitrogen Removal Facilities - Planning	225	44	
80900D	BPWWTF - Nitrogen Removal Facilities - Design	1,030	46	
80900C	BPWWTF - Nitrogen Removal Facilities - Construction	15,642	48	
<b>Sub-total - Wastewater Treatment Facility Improvements</b>		<b>\$ 53,820</b>		
<b><u>Phase I CSO Facilities</u></b>				
<b>Phase I CSO Design</b>				
30203D	Phase I CSO Facilities - Design	\$ -	130	
<b>Sub-total - Phase I CSO Design</b>		<b>\$ -</b>		
<b>Phase I CSO Construction</b>				
30203RS	Phase I CSO Facilities - Program Management and Construction Management	\$ 4,017	132	
30204C	Phase I CSO Facilities - Moshassuck River Interceptor Relief	-	134	
30205C	Phase I CSO Facilities - Floatables Control Demonstration Facility	-	136	
30206C	Phase I CSO Facilities - Main Spine Tunnel and Ancillary Facilities	29,094	138	
3020600	Phase I CSO Facilities - Owner Controlled Insurance Program	1,451	140	
30207C	Phase I CSO Facilities - Preparation of Workshaft Site Termination	-	142	
30208C	Phase I CSO Facilities - Overflows 004/061	-	144	
30209C	Phase I CSO Facilities - Overflow 009 and Emergency Overflow Structure	-	146	
30210C	Phase I CSO Facilities - Overflow 032	-	148	
30211C	Phase I CSO Facilities - Woonasquatucket Interceptor Relief	-	150	
30213C	Phase I CSO Facilities - Regulator Modifications	1,108	152	
30214C	Phase I CSO Facilities - Tunnel Pump Station Fitout and Startup	50,104	154	
30215C	Phase I CSO Facilities - Overflows 006/007	-	156	
30220C	Phase I CSO Facilities - CSO Land Acquisition (RIDOT)	-	158	
CSO Admin	CSO Construction Staff/Police Detail/Legal Costs	1,114	160	
<b>Sub-total - Phase I CSO Construction</b>		<b>\$ 86,888</b>		
<b><u>Phase II CSO Facilities</u></b>				
Phase II CSO	Phase II CSO Facilities	27,229	162	
<b>Sub-total - Phase II &amp; III CSO Facilities</b>		<b>27,229</b>		

# Capital Project Cost Summary

(Estimated Capital Project Costs FY 2007-2011)

Project Number	Project Name	Fiscal Years 2007 - 2011		Page Number
		(In Thousands)		
<b><u>Sewer System Improvements</u></b>				
3022100	CSO Flow and Water Quality Monitoring	\$	205	52
30424P	CMOM Plan Development		-	54
30410P	NBC System-Wide Facilities Plan		249	56
70400C	Rehabilitation of Washington Highway and Omega Pump Stations - Construction		6,221	58
9030100	Geographic Information System Implementation		-	60
9070000	HVAC Lab Repairs		-	62
Sub-total - Sewer System Improvements		\$	6,675	
<b><u>Floatables Control Facilities Projects</u></b>				
30600D	Floatables Control Facilities - Design	\$	99	66
30600C	Floatables Control Facilities - Construction		1,891	68
Subtotal - Floatables Control Facilities Projects		\$	1,990	
<b><u>CSO Interceptor Inspection and Cleaning Projects</u></b>				
30400M	Inspection and Cleaning of CSO Interceptors	\$	145	72
30419M	Pleasant Valley Parkway Interceptor Cleaning & Inspection		300	74
30420M	Moshassuck Valley Interceptor Cleaning & Inspection		-	76
30425M	Louisquisset & Moshassuck Valley Interceptor Cleaning		-	78
30426M	Branch Ave & Douglas Pike Interceptor Cleaning		-	80
30427M	Various Interceptor Connector Pipe Cleaning & Inspection		-	82
30428M	South Providence-Elmwood Interceptor Relief Pipe Cleaning & Inspection		1	84
30429M	Johnston South and North Interceptors Cleaning & Inspection		-	86
30430M	Woonasquatucket Interceptor along Route 10 Cleaning & Inspection		-	88
30431M	Allens Avenue Interceptor from the Mall to the Pump Station Cleaning & Inspection		56	90
30432M	Blackstone Valley and Washington Highway Interceptors Cleaning & Inspection		442	92
30433M	Woonasquatucket Interceptor Smith Street to Manton Avenue Cleaning & Inspection		89	94
30434M	Seekonk River Interceptor from Tenth Street to India Street Cleaning & Inspection		545	96
30435M	East Providence Interceptor Cleaning & Inspection		126	98
30436M	Johnston North & South Interceptors Interceptor Cleaning & Inspection		243	100
Sub-total - CSO Interceptor Inspection and Cleaning Projects		\$	1,947	
<b><u>CSO Interceptor Repair and Construction Projects</u></b>				
30400C	Repair and Construction of CSO Interceptors	\$	9,232	104
30409C	Burrington Street and Grotto Brook Sewer Repairs - Construction		748	106
30414C	Replace Harold St. Connector Pipe		-	108
30416D	Elmwood Interceptor Repairs - Design		-	110
30416C	Elmwood Interceptor Repairs - Construction		1,680	112
30417D	India St. Siphon Gate House Replacement - Design		-	114
30417C	India St. Siphon Gate House Replacement - Construction		-	116
30421P	Louisquissett Pike Interceptor Replacement - Planning		-	118
30421D	Louisquissett Pike Interceptor Replacement- Design		80	120
30421C	Louisquissett Pike Interceptor Replacement- Construction		670	122
30423D	BVI Odor Control Facilities - Design		-	124
30423C	BVI Odor Control Facilities - Construction		-	126
Sub-total - CSO Interceptor Repair and Construction Projects		\$	12,410	
Total Capital Improvement Program		\$	190,959	

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# CAPITAL IMPROVEMENT PROGRAM

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## INTRODUCTION

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### *About This Document:*

Narragansett Bay Commission's (NBC's) Capital Improvement Program (CIP) is a planning document, which provides information about all capital projects currently planned or underway at the NBC. The projects detailed in the CIP are needed to meet current and future regulatory requirements as well as improve the efficiency of NBC's operations. NBC's CIP presents an overview of costs, schedules, and funding requirements for all ongoing and future capital projects with activity within the five-year period of fiscal years 2007-2011. Projects with costs in fiscal year 2006, but not during the five-year window, are also shown in order to present an accurate estimate of the total capital costs through fiscal year 2011.

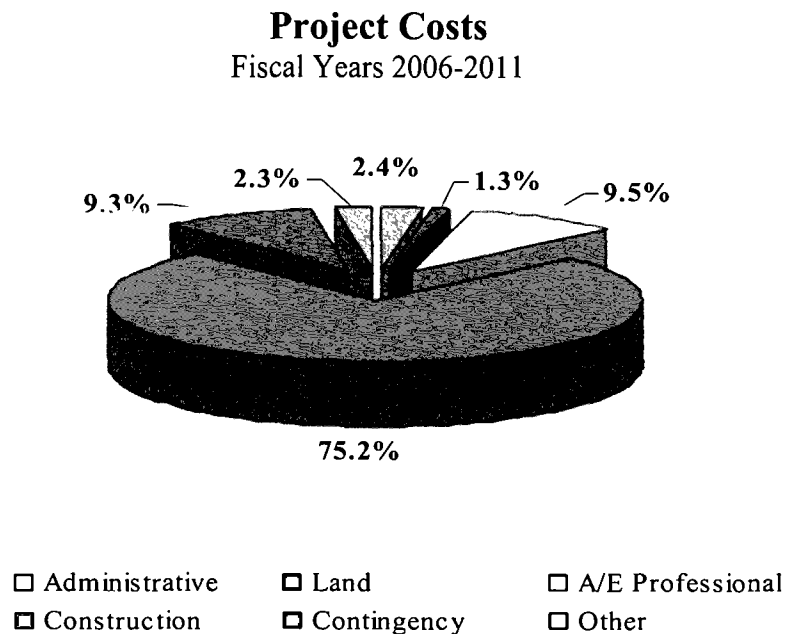
This year's CIP identifies 36 capital improvement projects with costs of approximately \$191 million during fiscal years 2007-2011, and a total of 47 projects with costs of approximately \$79 million planned for fiscal year 2006. The table below outlines these expenditures by year and cost category.

### **NBC's Capital Project Costs** FY 2006-2011 (In Thousands)

Capital Project Costs	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Total FY 2007-2011	Total Costs FY 2006-2011
Administrative	2,360	1,372	1,082	752	690	334	4,230	6,590
Land	31	10	10	10	1,417	1,970	3,418	3,448
A/E Professional	9,036	5,866	3,686	4,392	2,489	80	16,512	25,548
Construction	65,137	48,129	38,250	23,515	11,230	16,769	137,893	203,029
Contingency	536	666	13,775	8,654	235	1,332	24,662	25,198
Other	2,060	1,566	79	34	33	2,533	4,245	6,304
Total Project Costs	79,159	57,610	56,882	37,356	16,094	23,017	190,959	270,118



As illustrated in the graph below, the majority of the costs in NBC's CIP are for construction.



***FY 2007-FY 2011 CIP Layout:***

NBC's CIP is comprised of four sections, beginning with this Introduction. Following the Introduction is a brief Overview section, which summarizes the major issues and topics covered in this year's CIP. The Overview section includes descriptions and status of the major NBC capital improvement projects underway or planned, details about the major changes from last year's CIP and short narratives discussing financing and cash flow issues. In addition, in order to present a comprehensive picture of NBC's overall financial status, this section also includes a discussion of the impact of the new construction on operating costs, NBC's annual revenue requirement and effect on NBC's sewer user charges.

The third section, Detailed Capital Project Listings, provides in-depth summaries of the individual projects using cash flow estimates, project schedules and actual/projected financing sources. All descriptions and schedules are delineated by project phase. NBC's project managers provide the cash flow projections, project schedules and project descriptions for all capital projects. Throughout this document each capital project is

grouped into one of six functional areas. Each of these functional areas is listed in detail below.

Functional Area	Definition
Wastewater Treatment Facility (WWTF)	Projects related to existing facility improvements along with new nitrogen removal facilities.
Sewer System Improvements (SSI)	Projects related to pumping station improvements, miscellaneous studies and application implementations
Floatable Control Facilities (FCF)	This functional area includes all CSO Floatables Control Facilities projects
CSO Interceptor Inspection and Cleaning (IIC) & CSO Interceptor Repair and Construction (IRC)	This area includes projects related to interceptor inspection, cleaning and repair
Combined Sewer Overflow Phase I (CSO Phase I)	These are the fifteen separate contracts related to the CSO Abatement Phase I facilities
Combined Sewer Overflow Phase II (CSO Phase II)	This area includes the CSO Abatement Phase II facilities

In addition, the CIP includes a project rating system indicating the level of certainty for costs and schedules for each project. The rating for each project is provided in the Capital Cost Summary located in the Appendix. These ratings and explanations are listed below:

Category	Explanation	Level of Certainty
1	Pre-planning estimate based on past experience with similar projects.	Lowest level of certainty
2	Planning estimate based on costs developed in the project facilities plan.	Moderate level of certainty
3	Design estimate based on costs developed after completion of design plans and specifications.	High level of certainty
4	Cost based on bid/proposal received from the vendor for that stage of the project	Higher level of certainty
5	Cost of the project upon completion.	Highest level of certainty

The final section in this document is the Appendix, which includes supporting schedules such as debt service calculations, the latest NBC Residential Sewer User Charges and Massachusetts Water Resource Authority (MWRA) sewer user surveys, capital project cost summaries, and a glossary of terms. The Appendix also includes diagrams of the CSO Main Spine Tunnel and Tunnel Pump Station, and a CSO drop shaft; a map of the CSO Phase I facilities illustrating progress as of March 31, 2005; and a map of the complete CSO Abatement Project.

## **CAPITAL IMPROVEMENT PROGRAM OVERVIEW**

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NBC's fiscal year 2007-2011 CIP identifies 36 capital improvement projects either in progress, to be initiated, or to be completed within the five year window with costs totaling approximately \$191 million.

### ***Significant Capital Improvement Projects:***

#### **Contract 807: Bucklin Point Wastewater Treatment Facility Improvements**

Construction began in December 2001 on Contract 807 and is scheduled to be completed in February 2006. This project will result in a complete modernization of the Bucklin Point Wastewater Treatment Facility. The influent pump station, screen and grit building, primary clarifiers, dry weather primary sludge pump station, aeration tanks 1 and 2, blower building, effluent flow splitter box, generator and appurtenant computer and electrical systems are substantially complete. Final testing is being done on the many new systems installed including the new screening and grit facilities, the ultraviolet disinfection system, and the new diffused air system. Once completed, these systems will allow the plant to be run more efficiently and provide more control over the treatment processes. At the current rate of progress, it is likely that the biological nutrient removal component scheduled for winter of 2006 will occur as early as summer of 2005. Nutrient removal facilities constructed under Contract 807 were designed to reduce nitrogen levels to 8 milligrams per liter (mg/l). NBC is confident these facilities will meet the 8 mg/l level and possibly approach 5 mg/l, which is the draft permit level proposed by the Rhode Island Department of Environmental Management (RIDEM). Once work has been completed, peak flows at Bucklin Point will be increased from 55 million gallons per day (mgd) to 116 mgd per day.

This project's total cost estimate is approximately \$64.6 million (including all administrative costs), with \$56.6 million spent to date. As a result of the new processes and equipment at Bucklin Point, NBC is facing substantial operational impacts. In fiscal year 2005, NBC realized sizable increases in both electricity costs and natural gas costs. In fiscal year 2006, these increased costs will continue along with increases in chemicals.

The operational impacts resulting from Contract 807 are included in NBC's operating budget.

**Contract 302: Combined Sewer Overflow (CSO) Phase I Facilities**

Providence, Pawtucket and Central Falls have combined sewers that overflow at approximately 66 active locations during wet weather. Phase I of the Combined Sewer Overflow (CSO) Program will mitigate the impact of the sixteen overflows deemed to have the most significant effect on upper Narragansett Bay. The project will improve water quality in and around the greater Providence metropolitan area and the upper Narragansett Bay, by reducing the discharge of sewage from combined sewer overflows during and after storm events.

Development of the CSO control plan was a requirement of the Federal Clean Water Act and Rhode Island's water quality regulations. NBC fully explored all available alternatives for satisfying the Federal Clean Water Act mandate to eliminate or mitigate the CSOs in its service area. The two-year stakeholder process resulted in a program that will impose the least cost burden on NBC's ratepayers, while meeting regulatory requirements. It is projected that the CSO Phase I facilities will reduce the overflow volume and, as a result, will reduce conditional closures of fertile shell-fishing areas in the Upper Narragansett Bay.

The fiscal year 2007-2011 CIP document shows the continued progress on the Combined Sewer Overflow Abatement Phase I facilities (CSO). With Phase I projected to cost a total of \$340 million for construction, the CSO Phase I project is the most extensive capital initiative undertaken by NBC. The CSO Phase I project represents 46.4% of the total costs included for the fiscal years 2007-2011 timeframe.

As of March 31, 2005, Phase I of the CSO program is approximately 50% complete. Seven of the CSO Phase I contracts have been completed, six are underway and the final contract (30213C) is scheduled to begin in December 2005. In addition, 9,530 feet out of the total tunnel length of 16,000 feet have been mined. Excavation of the tunnel pump station cavern has been completed and excavation of the adits connecting CSO dropshafts

to the main spine tunnel has commenced. Construction of the tunnel pump station (Contract 30214C) is scheduled to begin in July 2005. Contract 30214C consists of the construction of two drop shafts, a screening facility and the CSO Control Facilities Program Supervisory Control System. Diagrams of the main spine tunnel illustrating construction progress as of March 31, 2005 and a CSO dropshaft are included in the Appendix of this document.

The table below details the status and current cash flow estimates for all the CSO Phase I Projects. CSO Phase I projected costs have increased approximately \$22 million from last year's CIP. The primary driver of this increase is due to the revised cost estimates for Contract 30214C. In last year's CIP, cost estimates for this contract were approximately \$38 million. However, this year's CIP reflects the actual low bid for Contract 30214C for \$59.6 million (including contingency) on April 19, 2005.

### CSO Phase I Facilities

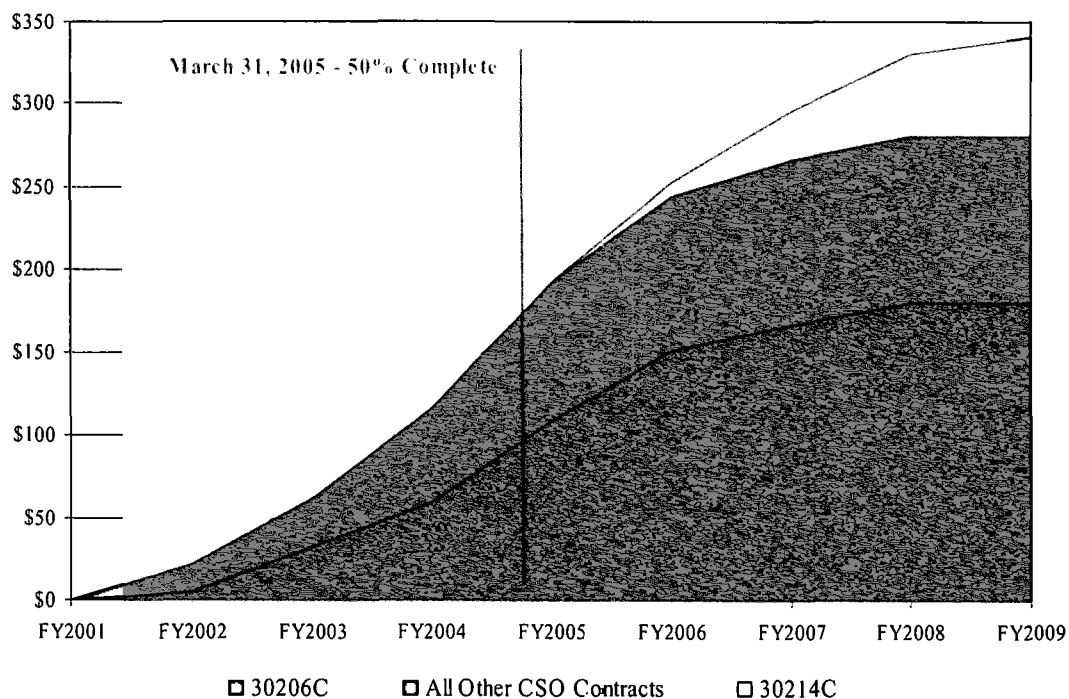
As of March 2005

Contract #	Project Name	Actual / Projected Start Date	Actual / Projected Completion Date	Total Estimated Project Cost (In Thousands)*
<b>Phase I CSO Construction:</b>				
<b>Projects Completed:</b>				
30204C	MRI	Jun-01	Aug-03	S 5,950
30205C	Floatables Control	Jul-01	Jun-04	1,012
30207C	Preparation of Workshaft Site Termination	Dec-02	Apr-03	193
30208C	Overflows 004/061	Aug-02	Nov-04	8,397
30209C	Overflow 009 and Emergency Overflow Structure	Nov-03	Feb-05	5,491
30215C	Overflows 006/007	Feb-03	Feb-05	10,332
30220C	CSO Land Acquisition (RIDOT)	Apr-01	Jun-04	3,000
<b>Subtotal - Projects Completed</b>				<b>34,374</b>
<b>Projects In-Progress:</b>				
30203RS	Program Management and Construction Management	Aug-01	Jul-08	30,250
3020600	OCIP (Owner Controlled Insurance Program)	Dec-01	Feb-07	14,371
30206C	Main Spine and Ancillary Facilities	Feb-02	Jun-07	179,916
30210C	Overflow 032	Feb-04	Aug-05	10,433
30211C	Woonasquatucket Interceptor Relief	Jul-03	Aug-05	6,165
30214C	Tunnel Pump Station Fitout and Startup	Jul-05	Nov-08	59,604
CSO Admin	CSO Construction Staff/Police Detail/Legal Costs	N/A	N/A	3,382
<b>Subtotal - Projects In-Progress</b>				<b>304,120</b>
<b>Projects not Underway:</b>				
30213C	Regulator Modifications	Dec-05	Jun-07	1,573
<b>Subtotal - Projects not Underway</b>				<b>1,573</b>
<b>Total - Phase I CSO Construction</b>				<b>N/A N/A S 340,068</b>

\* Completed Projects listed above will be finished no later than the end of FY2005.

The graph below illustrates the status of the CSO Phase I project on a cumulative cost basis. Significant progress is being made on Contract 30206C as it is approximately 59% complete with \$96 million spent to date. Considerable progress is also being made on all other CSO contracts, excluding 30214C and 30213C. Contract 30214C is scheduled to begin in July 2005, while Contract 30213C is scheduled to begin in December 2005.

**CSO Phase I Facilities – Cumulative Expenses**  
(In Millions)



### **Phase II CSO Facilities:**

This CIP also includes Phase II of the CSO Abatement Project. This is the second of three phases of the NBC's CSO Project. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the Seekonk and Woonasquatucket Rivers to the Main Spine Tunnel constructed in Phase I. The Woonasquatucket Interceptor would be 19,150 feet long and the Seekonk CSO Interceptor would be 11,200 feet long. It also includes a sewer separation project in Providence and a constructed wetlands treatment facility in Central Falls. The design phase of the CSO Phase II project is planned to begin in January 2008. It is estimated that the design phase will take approximately 25 months, ending in January 2010. The

construction phase of the project is planned to start in February 2010, taking 56 months to complete and ending in August 2014.

The \$164.7 million total cost estimate for Phase II is a pre-design estimate. At this time the costs for Phase II represent \$27.2 million or 14.4% of the total costs included in the five-year window reflected in this CIP. Assumptions made in preparing the cash flows and project descriptions for Phase II are as follows:

- Construction costs are based on the 1998 Conceptual Design Report Amendment in which the cost estimates were prepared without the benefit of any planning or design work. These costs were further updated based on construction cost experience from Phase I of the CSO program.
- Cash flow start and end dates are based on the schedule in the RIDEM Consent Agreement.
- Costs have been updated through the mid-point of construction, November 2012 (ENRCCI 7918, base month Oct. 2001).
- Costs for design, land, soft costs, etc., are based on CSO Phase I experience and are 1.387 times Phase II construction cost estimate.
- Estimated completion dates for design and construction are January 2010 and August 2014, respectively.

#### **Contracts 109 and 809: Nitrogen Removal at Field's Point Wastewater Treatment Facility and Bucklin Point Wastewater Treatment Facility**

The Rhode Island Department of Environmental Management (RIDEM) is concerned about nutrients such as nitrogen because of its potential adverse environmental impacts. Nutrients reaching the receiving waters generate algal growth, and when the algae die, oxygen is used as part of the decomposition process. Since fish and other aquatic life need oxygen to live, excessive nutrients adversely impact their environment. RIDEM is looking to tighten the nitrogen standards for treatment facilities because in tidal waters nitrogen is the nutrient that must be controlled to control algal growth.

RIDEM has issued a draft permit to NBC requiring the attainment of a seasonal limit of 5mg/l Total Nitrogen at both of its treatment facilities. NBC estimates that construction at the Field's Point facility to reach these limits will be approximately \$30 million. NBC

is still in the process of evaluating nitrogen removal technologies. Improvements currently under construction at Bucklin Point, as part of Contract 807, include nitrogen removal facilities which will become operational in summer 2005. However, these facilities were designed before RIDEM issued the draft permit and are designed to meet a seasonal limit of 8 mg/l. If the permit is issued at 5 mg/l, and the lower limits cannot be met after the new facilities come on-line, additional nitrogen removal facilities may need to be constructed. Contract 809 reflects the \$15 million estimate for these additional facilities at Bucklin Point.

**Contract 115: Asset Management:**

Another important initiative underway at the NBC is the implementation of an Asset Management Program. This program, although relatively small in terms of cost, will aid NBC in achieving its business objectives. These objectives include ensuring effective reliable treatment, maintaining environmental compliance, and avoiding inefficient financial expenditures.

This initiative is needed due to two factors: older assets reaching the end of their useful life and NBC's CIP, which are changing the asset base rapidly and dramatically. Although Asset Management is expected to be an ongoing function, the initial implementation costs are contained within this CIP under project 11500D. This project will involve all areas of NBC and will be implemented over a four year time period. Time lines and cash flows for this project can be found in the Detailed Capital Project Listing section.

***CIP Program Changes:***

**CSO Phase I Facilities - Contract 30212C**

Last year's CIP included Contract 30212C as part of the CSO Phase I Facilities. However, in December 2004, Contract 30212C and Contract 30214C were combined under Contract 30214C. The contracts were combined to ease the logistics of three different contractors working in the same area (Contracts 30212C & 30214C are within the current work area of Contract 30206C).



### **Floatables Control Facilities**

In order to better track the costs associated with NBC's Floatables Control Facilities projects, this year's CIP includes a separate functional area for these projects. As part of the nine minimum controls required under EPA's CSO Control Policy, floatables control is to be provided at all CSO overflows. RIDEM will require that all CSO overflows to be addressed in Phase II and III of the CSO program must be provided with floatables control in the interim. Design costs for all the Floatables Control projects will be carried under Contract 30600D, while Contract 30600C identifies \$4 million for the construction of the approximately 40 Floatables Control Facilities required by RIDEM. As each Floatables Control project is identified it will be given a unique project number with a 306 prefix and draw funding from Contract 30600C. Two Floatables Control Facilities construction projects (30601C and 30602C), with a cost of approximately \$200,000, were completed prior to fiscal year 2006 and, as a result, are not included in this document.

### **Elimination of Contract 11301C**

In last year's CIP, NBC carried approximately \$213,000 for Incinerator Permitting construction costs under Contract 11301C. This project would have funded stack emissions testing and any improvements to the incinerator in order to comply with RIDEM requirements. However, the NBC has removed this project from this year's CIP because Field's Point will begin outsourcing its sludge dewatering and incineration activities on December 1, 2005. NBC will begin design (Contract 10320D) for the demolition of the Incinerator, Filter and Interim Solids Handling Buildings in May 2005. The actual demolition of these buildings (Contract 10302C) is currently planned to begin in January 2006.

### **Completions, Deletions and Additions**

The majority of new projects added to this year's CIP are part of NBC's ongoing initiative to inspect and clean all interceptors within its service area. These projects will ensure the structural integrity of NBC's interceptors and remove grit or obstructions that may reduce their capacity. There are approximately 98 miles of interceptor piping within the NBC's service area. As of March 31, 2005, NBC has inspected and cleaned approximately 28 miles. The twelve new inspection and cleaning projects shown in the

table above are necessary to complete the NBC's initiative by the end of fiscal year 2007. To date, interceptor inspections have shown a heavy accumulation of grit in the interceptors. In other cases obstructions such as large rocks, granite curbing, large pieces of wood, propane tanks, car parts, etc. were discovered and removed in order to keep the interceptors operating at full capacity. In a few cases, inspections revealed serious problems such as collapsed connector pipes, structural damage or root intrusion. In these cases separate construction projects were created to repair the damage. As a result of the inspection projects done to date there have been twelve repair and construction projects needed to restore the interceptors to proper operational status.

The table below lists all completed or deleted contracts since last year's CIP:

Project #	Project Description	Estimated/Actual Total Cash Flow (In thousands)
<b>Completed Projects:</b>		
11500P	Asset Management System - Planning	200
30208C	Phase I CSO Facilities - Overflows 004/061	8,353
30209C	Phase I CSO Facilities - Overflow 009 and Emergency Overflow Structure	5,491
30215C	Phase I CSO Facilities - Overflows 006/007	10,334
30413M	Interceptor Cleaning and Inspection of South Providence/Elmwood and WRI	439
30418M	Abbott Run Interceptor Cleaning & Inspection	161
30407C	Concord Street Sewer Repair - Construction	1,035
	<b>Subtotal - Completed Projects</b>	<b>\$ 26,012</b>
<b>Deleted Projects:</b>		
11301C	Incinerator Permitting - Construction	213
	<b>Subtotal - Deleted Projects</b>	<b>\$ 213</b>

\* Completed Projects listed above will be finished by the end of FY2005.

A listing of all new projects added to this year's CIP is shown on the following page:

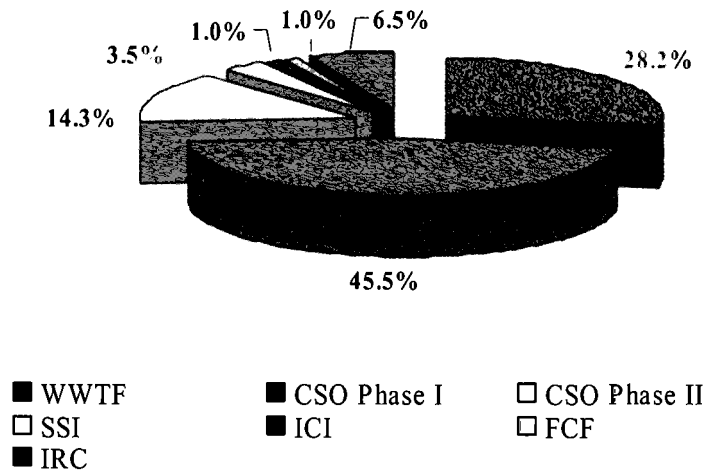
Project #	Project Description	Estimated/Actual Total Cash Flow (In thousands)
<b>New Projects:</b>		
1140100	River Model Development	167
11500D	Asset Management - Design	1,800
1160000	Improvements to Air Piping and Splitter Box D	447
1170000	Upgrade of the Operations Building and Other Misc. Improvements	943
30425M	Louisquisset & Moshassuck Valley Interceptor Cleaning	425
30426M	Branch Ave & Douglas Pike Interceptor Cleaning	371
30427M	Various Interceptor Connector Pipe Cleaning & Inspection	150
30428M	South Providence-Elmwood Interceptor Relief Pipe Cleaning & Inspection	235
30429M	Johnston South and North Interceptors Cleaning & Inspection	178
30430M	Woonasquatucket Interceptor along Route 10 Cleaning & Inspection	187
30431M	Allens Avenue Interceptor from the Mall to the Pump Station Cleaning & Inspection	405
30432M	Blackstone Valley and Washington Highway Interceptors Cleaning & Inspection	552
30433M	Woonasquatucket Interceptor Smith Street to Manton Avenue Cleaning & Inspection	103
30434M	Seekonk River Interceptor from Tenth Street to India Street Cleaning & Inspection	545
30435M	East Providence Interceptor Cleaning & Inspection	126
30436M	Johnston North & South Interceptors Interceptor Cleaning & Inspection	243
30424P	CMOM Plan Development	310
30423D	BVI Odor Control Facilities - Design	118
30423C	BVI Odor Control Facilities - Construction	314
9070000	Lab HVAC Repairs	341
80900P	BPWWTF - Nitrogen Removal Facilities - Planning	225
80900D	BPWWTF - Nitrogen Removal Facilities - Design	1,030
80900C	BPWWTF - Nitrogen Removal Facilities - Construction	15,642
<b>Subtotal - New Projects</b>		<b>\$ 24,857</b>

### ***Costs by Functional Area:***

Each of NBC's capital improvement projects have been placed in one of six unique functional areas (defined in the introduction of this document). The graph on the following page illustrates the portion of the costs related to each functional area within the five year window 2007-2011.

Of the approximately \$191 million in capital improvements scheduled over the five-year period of fiscal years 2007-2011, 3.5% or \$6.6 million are for Sewer System Improvements, 28.2% or \$53.8 million are for Wastewater Treatment Facility Improvements, 1% or \$1.9 million are for Floatables Control Facilities Improvements, 1% or \$1.9 million are for Interceptor Cleaning and Inspection, 6.5% or \$12.4 million are for Interceptor Repair and Construction, 45.5% or \$86.9 million are for the CSO Phase I Project and 14.3% or \$27.2 million are for the CSO Phase II Project.

## Capital Program Cost by Functional Area



Insignificant changes in the percentages can be seen in the Sewer System Improvement, Interceptor Cleaning and Inspection, Interceptor Repair and Construction and Wastewater Treatment Facility Improvement categories from last year's CIP. However, CSO Phase I costs have decreased 9.4% or \$31.6 million from last year's CIP as construction costs are gradually declining. CSO Phase II cost estimates account for a larger portion of the costs in this CIP's five-year window as NBC nears the project's expected start date. CSO Phase II now accounts for 14.3% or \$27.2 million of the total, whereas last year the project accounted for only 4% or \$8.7 million of the total. Lastly, with Floatables Control Facilities occupying a separate functional category in this CIP, its cost estimates account for 1% or \$1.9 million of the five-year window total.

### *CIP Financing:*

The following are the key financial assumptions which govern the development of this CIP:

- The time frame covered by this CIP is fiscal year 2006-2011.
- Costs and cash flows are based on engineering estimates.
- The CIP does not include operating capital projects such as plant and equipment replacement required on an annual basis. These projects are identified in the Operating Budget as part of the five-year Operating Capital Plan.

- Each capital project cost estimate listed in this document includes 10% contingency on initial estimated construction costs.
- Financing costs associated with new debt for the capital projects listed in this document are not included in the project cash flows. Financing costs are reflected in the Debt Service Calculation Schedule available in the Appendix of this document.

Financing NBC's extensive capital initiative continues to pose a significant challenge. Until recently, NBC financed its CIP through low-interest State Revolving Fund (SRF) loans from the RICWFA. However, due to loan capacity limitations of the RICWFA, the NBC has and will continue to finance a portion of the CIP independently. In April 2004, the NBC issued a 30-year, \$70,000,000 Variable Rate Debt Obligation (VRDO) with a multi-modal rate structure. The unspent balance of the VRDO borrowing will be carried into FY 2006. In FY 2005 NBC also obtained \$40 million loan from the RICWFA. The NBC will use a combination of funding mechanisms to finance the FY 2006 capital program. Using the long-term financing model, NBC will maximize the use of unspent proceeds from prior years, the restricted "carry-forward" along with a borrowing from the RICWFA. Any funding "gap" will be financed through the issuance of revenue bonds.

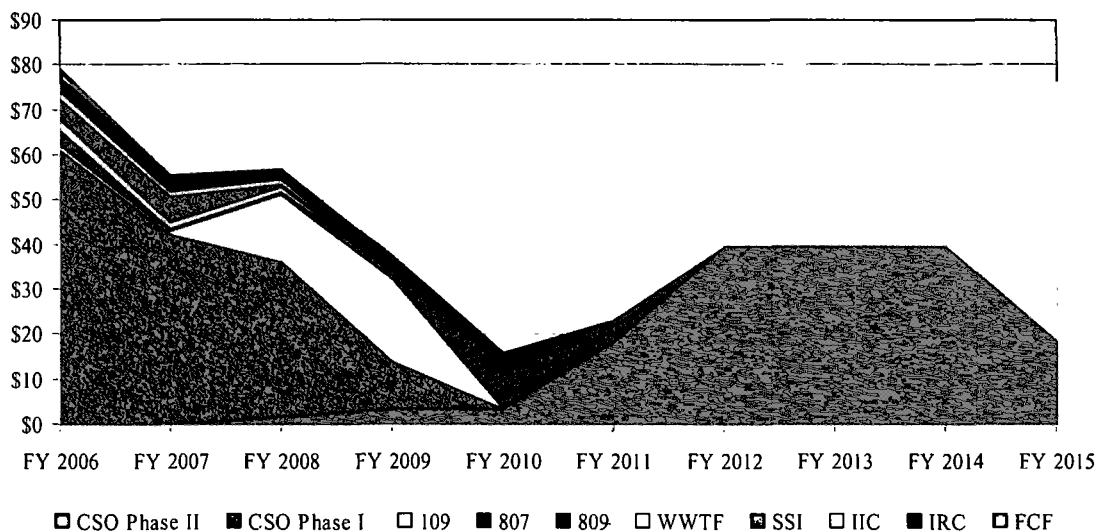
Finally, NBC continues to work with the State and Federal legislatures to secure the lowest possible cost funding for the capital program. With assistance from Rhode Islands' congressional delegation, NBC has secured federal appropriations toward the construction of the CSO abatement project. To date, the NBC has received nearly \$10 million in federal grant funding to implement capital improvement projects to better serve Rhode Island. In fiscal year 2005, the NBC received \$1.2 million in federal grant money to continue its work on the Combined Sewer Overflow Abatement Project. NBC will continue to lobby at the federal level to help mitigate ratepayer impact from the capital program.

#### ***CIP Cash Flows:***

The Expenditures by Major Contract graph below illustrates the impact of the capital projects contained in this year's CIP on NBC's cash flows. Due to size and scale constraints, the fifteen separate CSO Phase I projects have been consolidated in this

graph. The graph illustrates the gradual drop-off in costs related to CSO Phase I and Bucklin Point (807) construction contracts coming to an end prior to fiscal year 2010. The graph also illustrates the substantial cost estimates associated with Contract 109 (FPWWTF Nutrient Removal Project) and Contract 809 (BPWWTF Nutrient Removal Project). In the out-years, cash outflows increase with the construction costs related to Phase II of the CSO Abatement Project. As illustrated in the graph below, NBC will continue to face major cash requirements in order to fund the CIP.

**Expenditures by Major Contract**  
(In Millions)

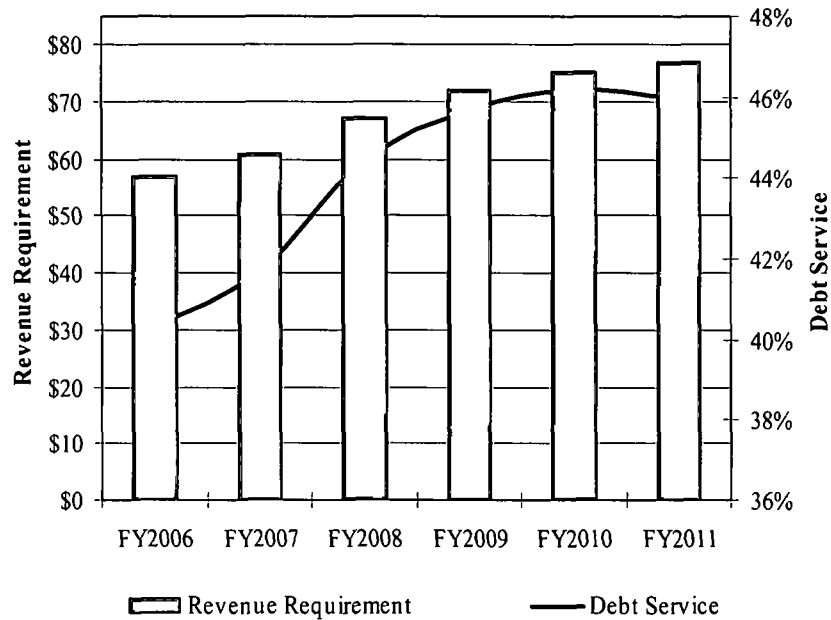


***Impact of Capital Program on Operating Costs and Total Annual Revenue Requirement:***

As noted in the Financing section, the debt service associated with financing the projects outlined in this document has a significant impact on operating costs. As NBC has proceeded with the construction phase of the CSO Abatement project the impact of the capital program on NBC's operating budget, and ultimately, its users, has become more significant. In order to assess the fiscal impact of the improvements, debt service payments have been estimated using the long-term financing model and incorporating the cash flow projections

The chart on the following page illustrates NBC's projected debt service as a percentage of NBC's annual revenue requirement.

### Debt as a Percentage of Revenue Requirement (In Millions)



NBC's total revenue requirement is projected to increase from approximately \$57 million in fiscal year 2006 to approximately \$77 million in fiscal year 2011. Of this amount, debt service is projected to account for 40.3% of the total requirement in fiscal year 2006 and increase to approximately 46% of the total requirement in fiscal year 2011. In summary, debt service will drive the majority of the increase in annual revenue requirements over the five-year window covered by this CIP. The debt service projections can be found in the Debt Service Calculation schedule located in the Appendix.

#### ***Sewer User Fees:***

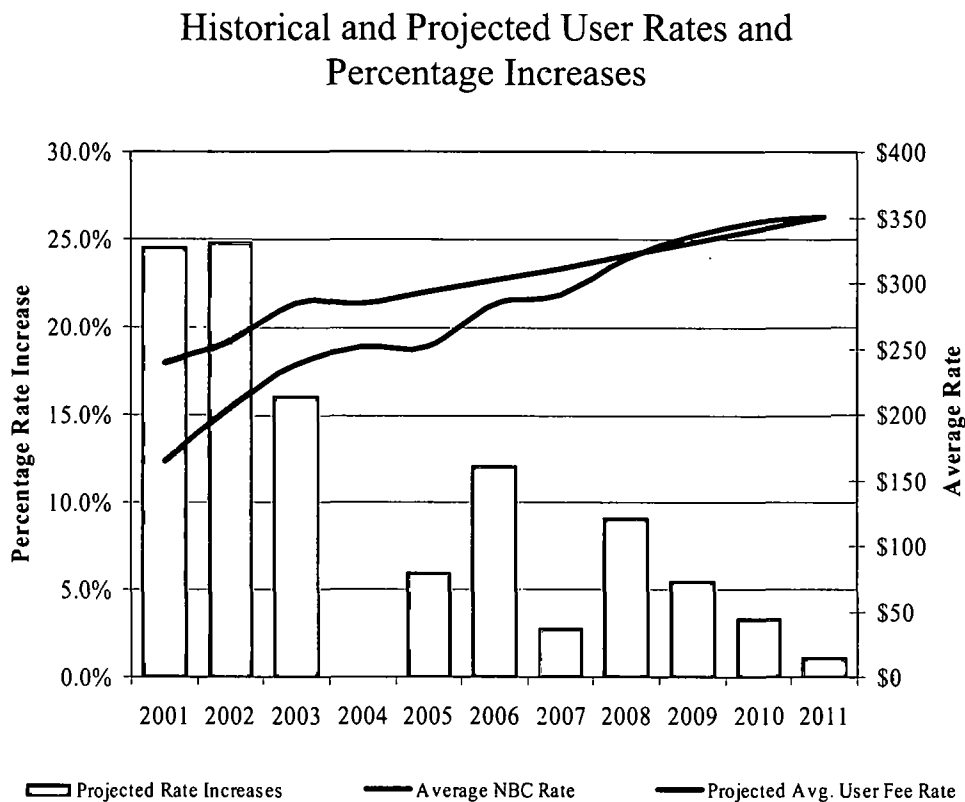
Because NBC is regulated by the PUC, modifications to NBC user fees are subject to a thorough review and approval process. In November 2004, the PUC authorized NBC to increase its revenue requirement by 12.05%. This increase was solely for debt service associated with the capital program.

Effective July 1, 2005 NBC's average residential sewer rate will be \$284. When compared with the Massachusetts Water Resources Authority Board's (MWRA's) 2004

annual survey on residential sewer charges for major U.S. cities, NBC's average rate is approximately 8% below the national average.

Currently, NBC's average annual residential sewer charge is approximately 12% below that of the State average, \$285. However, effective with NBC's July 1, 2005 rate increase, NBC's average residential rate will be equivalent to the average 2004 Annual Residential Sewer User Fee for Rhode Island cities and towns. NBC calculates this State average using an annual survey (NBC's Sewer User Charge Survey) conducted for each city or town in Rhode Island providing wastewater treatment services.

The chart below shows historical and projected average residential sewer rates and the relative percentage increases from FY 2001 through FY 2011.



\* The increases in Projected Avg. User Fee Rate data above is estimated at 3% per year. This percentage is based on the average change in the consumer price index for New England from 2000-2004.



NBC's sewer rates will increase over time due to the financing costs associated with the capital program and increased operating costs. Based on a number of assumptions, user rates are projected to increase to approximately \$351 in FY 2011. Using the average increases in the consumer price index for New England from 2000 to 2004 as a basis, NBC projects that the State average rate will increase to approximately \$351 in FY 2011, equivalent to the projected NBC rate. In addition, on a percentage basis, the rate increases are expected to decline from a peak of 25% in FY 2002 to less than 5% in FY 2011. Ultimately, the magnitude of the rate increases will depend upon the financing mechanisms available to NBC, operational cost impacts of capital improvements, as well as other operating cost factors.

The Appendix of this document includes a graph illustrating the 2004 MWRA Sewer User survey results and a graph illustrating the sewer rates of various Rhode Island communities.

# **WASTEWATER TREATMENT FACILITY IMPROVEMENTS**

**Contract 10302D**  
**Demolition of Field's Point Incinerating Facility - Design**  
**Project Manager: Theresa Cote, P.E.**

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**Location:** Field's Point Wastewater Treatment Facility (Providence, RI)

**Contractor(s):** N/A

**Project Overview:**

The expenditures included for Contract 10302D in this capital plan represent the design costs for demolition of the existing filter building, the interim solids handling building and the Incinerator building. These facilities will be demolished once the new RIRRC facility is operational. Contract 10302D also includes some miscellaneous work such as paving and fencing.

**Reason for Project/Benefits:**

The existing buildings are beyond their useful life and in need of extensive repair. Once the buildings are demolished, the space may be used for either parking or additional process facilities (for instance, nutrient removal).

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 10302D is scheduled to begin in May 2005.

**10302D**  
**Demolition of Field's Point Incinerating Facility - Design**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	May-05	January-06	9 Months	93
Construction	January-06	April-06	4 Months	674
<b>Total Contract</b>	<b>May-05</b>	<b>April-06</b>	<b>12 Months</b>	<b>767</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	4	14	-	-	-	-	-	-	18
Land	-	-	-	-	-	-	-	-	-
A/E Professional	10	65	-	-	-	-	-	-	75
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>14</b>	<b>79</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>93</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	14	48	-	-	-	-	-	-	62
SRF/Revenue Bonds/Other Capital	-	31	-	-	-	-	-	-	31
<b>Total Financing</b>	<b>14</b>	<b>79</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>93</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 10302C**  
**Demolition of Field's Point Incinerating Facility - Construction**  
**Project Manager: Rich Bernier, P.E.**

---

**Location:** Field's Point Wastewater Treatment Facility (Providence, RI)

**Contractor(s):** N/A

**Project Overview:**

The expenditures included for Contract 10302C in this capital plan represent the construction costs for demolition of the existing filter building, the interim solids handling building and the Incinerator building. These facilities will be demolished once the new RIRRC facility is operational.

**Reason for Project/Benefits:**

The existing buildings are beyond their useful life and in need of extensive repair. Once the buildings are demolished, the space may be used for either parking or additional process facilities.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 10302C is scheduled to begin in January 2006.

10302C

Demolition of Field's Point Incinerating Facility - Construction

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	May-05	January-06	9 Months	93
Construction	January-06	April-06	4 Months	674
<b>Total Contract</b>	<b>May-05</b>	<b>April-06</b>	<b>12 Months</b>	<b>767</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	20	-	-	-	-	-	-	20
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	60	-	-	-	-	-	-	60
Construction	-	540	-	-	-	-	-	-	540
Contingency	-	54	-	-	-	-	-	-	54
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	-	<b>674</b>	-	-	-	-	-	-	<b>674</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	-	674	-	-	-	-	-	-	674
<b>Total Financing</b>	-	<b>674</b>	-	-	-	-	-	-	<b>674</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 10901P**  
**Field's Point WWTF Nitrogen Removal Facilities - Planning**  
**Project Manager: Theresa Cote, P.E.**

---

**Location:** Field's Point Wastewater Treatment Facility (Providence, RI)

**Contractor(s):** Guertin Elkerton & Associates

**Project Overview:**

The draft Field's Point Wastewater Treatment Facility (FPWWTF) permit requires the attainment of new standards for nitrogen of 5 mg/L total nitrogen from May to October. The facilities plan amendment will determine the facilities that will be required to achieve these new permit limits. The construction cost estimate has been revised from last year's CIP based on the new limits and previous cost analyses done for NBC. These estimates will be further refined when the facilities plan amendment is completed.

**Reason for Project/Benefits:**

Improvements are needed at NBC facilities to meet new permit requirements for nitrogen.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 10901P is underway and scheduled to be completed in September 2005.

**10901P**  
**FPWWTF - Nitrogen Removal Facilities - Planning**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	April-01	September-05	55 Months	611
Design	December-05	December-06	13 Months	2,049
Construction	July-07	June-09	24 Months	33,120
<b>Total Contract</b>	<b>April-01</b>	<b>June-09</b>	<b>100 Months</b>	<b>35,780</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	197	13	-	-	-	-	-	-	210
Land	-	-	-	-	-	-	-	-	-
A/E Professional	110	64	-	-	-	-	-	-	174
Construction	167	-	-	-	-	-	-	-	167
Contingency	-	-	-	-	-	-	-	-	-
Other	61	-	-	-	-	-	-	-	61
<b>Total Project Costs</b>	<b>535</b>	<b>77</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>611</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	160	-	-	-	-	-	-	-	160
Revenue Bonds	375	77	-	-	-	-	-	-	451
SRF/Revenue Bonds/Other Capital	-	-	-	-	-	-	-	-	-
<b>Total Financing</b>	<b>535</b>	<b>77</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>611</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses



**Contract 10901D**  
**Field's Point WWTF Nitrogen Removal Facilities - Design**  
**Project Manager: Theresa Cote, P.E.**

---

**Location:** Field's Point Wastewater Treatment Facility (Providence, RI)

**Contractor(s):** N/A

**Project Overview:**

Contract 10901D is for the design costs associated with FPWWTF Nitrogen Removal Facilities. See Contract 10901P for an in-depth project overview of Contract 10901.

**Reason for Project/Benefits:**

Improvements are needed at NBC facilities to meet new permit requirements for nitrogen.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 10901D is scheduled to begin in December 2005.

**10901D**  
**FPWWTF - Nitrogen Removal Facilities - Design**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	April-01	September-05	55 Months	611
Design	December-05	December-06	13 Months	2,049
Construction	July-07	June-09	24 Months	33,120
<b>Total Contract</b>	<b>April-01</b>	<b>June-09</b>	<b>100 Months</b>	<b>35,780</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	35	25	-	-	-	-	-	60
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	1,071	918	-	-	-	-	-	1,989
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>-</b>	<b>1,106</b>	<b>943</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,049</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	-	1,106	943	-	-	-	-	-	2,049
<b>Total Financing</b>	<b>-</b>	<b>1,106</b>	<b>943</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,049</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses.

**Contract 10901C**  
**Field's Point WWTF Nitrogen Removal Facilities - Construction**  
**Project Manager: Rich Bernier, P.E.**

---

**Location:** Field's Point Wastewater Treatment Facility (Providence, RI)

**Contractor(s):** N/A

**Project Overview:**

Contract 10901C is for the construction costs associated with FPWWTF Nitrogen Removal Facilities. See Contract 10901P for an in-depth project overview of Contract 10901.

**Reason for Project/Benefits:**

Improvements are needed at NBC facilities to meet new permit requirements for nitrogen.

**Impact on NBC Operating Budget:**

As a result of Contract 10901C increases in utility, chemical and maintenance costs are expected. Current estimates put these costs at \$780,000 per year.

**Status of Capital Project:**

Contract 10901C is scheduled to begin in July 2007.

**10901C**  
**FPWWTF - Nitrogen Removal Facilities - Construction**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	April-01	September-05	55 Months	611
Design	December-05	December-06	13 Months	2,049
Construction	July-07	June-09	24 Months	33,120
<b>Total Contract</b>	<b>April-01</b>	<b>June-09</b>	<b>100 Months</b>	<b>35,780</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	-	60	60	-	-	-	120
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	15,000	15,000	-	-	-	30,000
Contingency	-	-	-	-	3,000	-	-	-	3,000
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>15,060</b>	<b>18,060</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>33,120</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	-	-	-	15,060	18,060	-	-	-	33,120
<b>Total Financing</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>15,060</b>	<b>18,060</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>33,120</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 1100000  
Site Specific Study  
Project Manager: John Motta**

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**Location:** Field's Point Wastewater Treatment Facility (Providence, RI)

**Contractor(s):** Marine Ecosystems Research Lab; Microinorganics, Inc.

**Project Overview:**

This study was required by RIDEM as part of the Metals Compliance Plan. The study was designed to characterize the level of dissolved and total metals in the receiving waters of the Field's Point and Bucklin Point Wastewater Treatment Facilities and to determine a metals translator. The result of this study was submitted to RIDEM at the end of FY2004. Depending upon the feedback from RIDEM regarding NBC's submittal additional studies may be necessary.

**Reason for Project/Benefits:**

The study was required as part of NBC RIPDES permit. Data obtained has been used in working with RIDEM on development of new discharge permits and consent agreements at both plants. Data has shown the receiving waters for both NBC treatment facilities meet water quality criteria for metals and ammonia toxicity. This resulted in the Providence River being removed from the list for trace metals in the RIDEM's 303(d) list.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Fieldwork and Lab analysis was completed in fiscal year 2003. Final reports have been submitted to RIDEM. Currently, data obtained from Contract 1100000 is being used for Contract 1140100.

**1100000**  
**Site Specific Study**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	November-01	June-06	57 Months	451
Design	N/A	N/A	N/A	N/A
Construction	N/A	N/A	N/A	N/A
<b>Total Contract</b>	<b>November-01</b>	<b>June-06</b>	<b>57 Months</b>	<b>451</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	16	-	-	-	-	-	-	-	16
Land	-	-	-	-	-	-	-	-	-
A/E Professional	163	240	-	-	-	-	-	-	403
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	33	-	-	-	-	-	-	-	33
<b>Total Project Costs</b>	<b>211</b>	<b>240</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>451</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	13	-	-	-	-	-	-	-	13
State Revolving Fund	154	-	-	-	-	-	-	-	154
Revenue Bonds	44	80	-	-	-	-	-	-	124
SRF/Revenue Bonds/Other Capital	-	160	-	-	-	-	-	-	160
<b>Total Financing</b>	<b>211</b>	<b>240</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>451</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 1140100  
River Model Development  
Project Manager: John Motta**

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**Location:** Field's Point Wastewater Treatment Facility (Providence, RI)

**Contractor(s):** University of Rhode Island, Graduate School of Oceanography

**Project Overview:**

The NBC has partnered with URI-Graduate School of Oceanography (GSO) to develop a model of circulation and transport within the Providence and Seekonk Rivers and Upper Narragansett Bay. The numerical model ROMS (Regional Ocean Modeling System) has already been applied to Narragansett Bay by Kincaid's Coastal Hydrodynamics Group at URI-GSO. In support of this initiative, NBC EMDA staff shall sample for nutrients biweekly at 12 stations in the Providence and Seekonk Rivers and at 5 tributary river stations. In addition, biweekly boat surveys of the dissolved oxygen and physical water parameters shall be taken at various depths at the 12 stations. This work shall be conducted throughout the '05 monitoring season from mid-March through September, or October. Additional monitoring work in the Seekonk River is planned for the '06 monitoring season. This project will aid in the successful development and validation of the ROMS model and will track success of nitrogen reduction. The model will also allow for tracking the dispersion of waters from NBC facilities. This model may ultimately be applied to the development of Total Maximum Daily Loads (TMDLs) for nutrients.

**Reason for Project/Benefits:**

The modeling effort will provide a better understanding of the effects of NBC effluent from both NBC treatment plants in the Providence River, Seekonk River and upper Narragansett Bay.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 1140100 is underway and scheduled to be completed in June 2007.

**1140100**  
**River Model Development**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	February-05	June-07	28 Months	167
Design	N/A	N/A	N/A	N/A
Construction	N/A	N/A	N/A	N/A
<b>Total Contract</b>	<b>February-05</b>	<b>June-07</b>	<b>28 Months</b>	<b>167</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	3	4	4	-	-	-	-	-	10
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	39	59	59	-	-	-	-	-	157
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>42</b>	<b>63</b>	<b>63</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>167</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	42	21	-	-	-	-	-	-	63
SRF/Revenue Bonds/Other Capital	-	42	63	-	-	-	-	-	104
<b>Total Financing</b>	<b>42</b>	<b>63</b>	<b>63</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>167</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses



**Contract 11500D**  
**Asset Management System - Design**  
**Project Manager: Ray Marshall, P.E.**

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**Location:** N/A

**Contractor(s):** Camp Dresser McKee

**Project Overview:**

An Asset Management System (AMS) will evaluate the NBC's collection and treatment facilities, establishing methods to account for and link inventory, condition, service levels, useful life, and repair costs. This will produce insights regarding where, how much, and when to invest in system maintenance, rehabilitation and replacement.

**Reason for Project/Benefits:**

Asset Management Systems provide a means of managing infrastructure to minimize the cost of owning and operating wastewater collection treatment facilities while delivering the service levels customers expect.

**Impact on NBC Operating Budget:**

The impact to NBC's operating budget will not be determined until subsequent phases of this project have been concluded.

**Status of Capital Project:**

Contract 11500D is scheduled to begin in July 2005.

**11500D**  
**Asset Management System - Design**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	June-04	May-05	12 Months	200
Design	July-05	June-09	49 Months	1,800
Construction	N/A	N/A	N/A	N/A
<b>Total Contract</b>	<b>December-09</b>	<b>November-14</b>	<b>61 Months</b>	<b>2,000</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	150	100	100	100	-	-	-	450
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	350	400	400	200	-	-	-	1,350
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>-</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>300</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,800</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	160	-	-	-	-	-	-	160
SRF/Revenue Bonds/Other Capital	-	340	500	500	300	-	-	-	1,640
<b>Total Financing</b>	<b>-</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>300</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,800</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 1160000**  
**Improvements to Air Piping and Splitter Box D**  
**Project Manager: Mark Thomas, P.E.**

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**Location:** Field's Point Wastewater Treatment Facility (Providence, RI)

**Contractor(s):** N/A

**Project Overview:**

This project will include: (1) replacement of gaskets on air headers; (2) cleaning all of the aeration tanks; and (3) replacement of the gates on Splitter Box D at the Field's Point Wastewater Treatment Facility.

**Reason for Project/Benefits:**

The air header piping is over 20 years old and leaking joints may be causing inefficiencies in the air flow distribution.

The aeration tanks tend to collect grit over time. As the tanks will have to be dewatered to replace the pipe gaskets, it will be cost effective to clean the tanks at the same time.

The gates on Splitter Box D are over 20 years old and they have lost some effectiveness in accurately distributing flows to the final clarifiers.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 1160000 is scheduled to begin in July 2005.

**1160000**  
**Improvements to Air Piping and Splitter Box D**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	July-05	September-06	15 Months	447
Design	N/A	N/A	N/A	N/A
Construction	N/A	N/A	N/A	N/A
<b>Total Contract</b>	<b>July-05</b>	<b>September-06</b>	<b>15 Months</b>	<b>447</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	22	17	-	-	-	-	-	39
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	135	235	-	-	-	-	-	370
Contingency	-	-	37	-	-	-	-	-	37
Other	-	1	-	-	-	-	-	-	1
<b>Total Project Costs</b>	<b>-</b>	<b>158</b>	<b>289</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>447</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	5	-	-	-	-	-	-	5
SRF/Revenue Bonds/Other Capital	-	153	289	-	-	-	-	-	442
<b>Total Financing</b>	<b>-</b>	<b>158</b>	<b>289</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>447</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 1170000**  
**Upgrade of the Operations Building and other Misc. Improvements**  
**Project Manager: Mark Thomas, P.E.**

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**Location:** Field's Point Wastewater Treatment Facility (Providence, RI)

**Contractor(s):** N/A

**Project Overview:**

This project will include: (1) upgrading the operations building to meet code requirements and improve the lunch and locker room facilities; (2) painting and masonry repair at various locations; and (3) improvements to the security system at the Field's Point Wastewater Treatment Facility..

**Reason for Project/Benefits:**

The Operations Building is over twenty years old. In recent years there have been several code requirement changes that necessitate upgrades.

With the aging facility, there are several areas that require painting and masonry repair.

With the current concerns over security, it was deemed appropriate to improve the current system.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 1170000 is scheduled to begin in July 2005.

1170000

**Upgrade of the Operations Building and Other Misc. Improvements**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	July-05	September-07	27 Months	943
Design	N/A	N/A	N/A	N/A
Construction	N/A	N/A	N/A	N/A
<b>Total Contract</b>	<b>July-05</b>	<b>September-07</b>	<b>27 Months</b>	<b>943</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	13	30	21	-	-	-	-	64
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	58	15	3	-	-	-	-	75
Construction	-	-	400	330	-	-	-	-	730
Contingency	-	-	-	73	-	-	-	-	73
Other	-	-	1	-	-	-	-	-	1
<b>Total Project Costs</b>	<b>-</b>	<b>71</b>	<b>445</b>	<b>427</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>943</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	4	-	-	-	-	-	-	4
SRI Revenue Bonds/Other Capital	-	67	445	427	-	-	-	-	939
<b>Total Financing</b>	<b>-</b>	<b>71</b>	<b>445</b>	<b>427</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>943</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 80700C**  
**BPWWTF – CSO Facilities and Other Improvements**  
**Project Manager: Rich Bernier, P.E.**

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**Location:** Bucklin Point Wastewater Treatment Facilities (East Providence, RI)

**Contractor(s):** Camp Dresser McKee; J.L. Marshall & Sons, Inc.

**Project Overview:**

A Facilities Plan Amendment has been completed to evaluate improvements needed at the Bucklin Point WWTF to provide wet weather capacity of 116 million gallons per day (mgd) during storms and secondary capacity of 46 mgd over sustained periods of time. Improvements include a new influent pumping station, screening and grit handling facilities, dry weather primary settling tanks, effluent pumping station for dry weather flows, as well as plant instrumentation and control systems. It also includes conversion of the existing primary tanks to wet weather treatment and conversion to a fine bubble aeration system. Ultraviolet disinfection facilities are also included in this project.

**Reason for Project/Benefits:**

The majority of these improvements are required under the RIPDES permit. Other improvements required as useful life of equipment is reached and equipment needs replacement.

**Impact on NBC Operating Budget:**

As a result of Contract 80700C, NBC expects increases in electricity, natural gas and chemical costs. Once completed, Contract 80700C will result in an estimated increase to the operating budget of approximately \$1,100,000 per year.

**Status of Capital Project:**

Contract 80700C is underway and scheduled to be completed in May 2007.

**80700C**  
**BPWWTF CSO Facilities and Other Improvements**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	December-95	December-97	24 Months	375
Design	February-98	July-03	66 Months	3,690
Construction	December-01	May-07	67 Months	64,600
<b>Total Contract</b>	<b>December-95</b>	<b>May-07</b>	<b>140 Months</b>	<b>68,665</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	1,656	413	46	-	-	-	-	-	2,115
Land	-	-	-	-	-	-	-	-	-
A/E Professional	3,085	325	290	-	-	-	-	-	3,700
Construction	56,134	2,548	-	-	-	-	-	-	58,683
Contingency	-	-	-	-	-	-	-	-	-
Other	97	5	1	-	-	-	-	-	103
<b>Total Project Costs</b>	<b>60,973</b>	<b>3,291</b>	<b>336</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>64,600</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	284	-	-	-	-	-	-	-	284
State Revolving Fund	50,472	1,955	-	-	-	-	-	-	52,427
Revenue Bonds	6,656	922	-	-	-	-	-	-	7,578
SRF/Revenue Bonds/Other Capital	3,561	414	336	-	-	-	-	-	4,311
<b>Total Financing</b>	<b>60,973</b>	<b>3,291</b>	<b>336</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>64,600</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses



**Contract 80800C**  
**BPWWTF and FPWWTF- Repairs and Improvements**  
**Project Manager: Rich Bernier, P.E.**

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**Location:** Bucklin Point & Field's Point Wastewater Treatment Facilities (East Providence, RI & Providence, RI)

**Contractor(s):** N/A

**Project Overview:**

The Digester Complex at the Bucklin Point Wastewater Treatment Facility (BPWWTF) requires various improvements and repairs. Digester Complex requires installation of metal siding on three digesters and at the Control Building and replacement of the roofs, siding and new handrails at the Digester Complex. Roofing at the BPWWTF Administration building also requires replacement along with paving at various areas at the site.

This project will also replace the existing grit storage pad at the Field's Point Wastewater Treatment Facility (FPWWTF).

**Reason for Project/Benefits:**

The repairs at the BPWWTF Digester Complex and at the FPWWTF are necessary for preventative maintenance and to eliminate potential safety hazards.

**Impact on NBC Operating Budget:**

Contract 80800C may reduce future maintenance costs at the Digester complex.

**Status of Capital Project:**

Contract 80800C is scheduled to begin in July 2005.

**80800C**  
**BPWWTF and FPWWTF - Repairs and Improvements**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	July-05	January-06	7 Months	770
<b>Total Contract</b>	<b>July-05</b>	<b>January-06</b>	<b>7 Months</b>	<b>770</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	-	-	-	-	-	-	-
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	700	-	-	-	-	-	-	700
Contingency	-	70	-	-	-	-	-	-	70
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>-</b>	<b>770</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>770</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	400	-	-	-	-	-	-	400
SRF/Revenue Bonds/Other Capital	-	370	-	-	-	-	-	-	370
<b>Total Financing</b>	<b>-</b>	<b>770</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>770</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 80900P**  
**Bucklin Point WWTF Nitrogen Removal Facilities - Planning**  
**Project Manager: Tom Brueckner, P.E.**

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**Location:** Bucklin Point Wastewater Treatment Facilities (East Providence, RI)

**Contractor(s):** N/A

**Project Overview:**

New nitrogen removal facilities will become operational at the Bucklin Point WWTF in 2005. These facilities were designed to provide a summer effluent concentration of 7 mg/L total nitrogen. However, the recently issued RIDEM nitrogen limit for the Bucklin Point WWTF is 5 mg/L in the summer. It will not be known if this limit can be met with the existing Bucklin Point nitrogen removal facilities until after they are operational. Should these limits not be able to be met, additional Bucklin Point nitrogen removal facilities may need to be constructed.

**Reason for Project/Benefits:**

To meet permit discharge limits and improve water quality.

**Impact on NBC Operating Budget:**

Upon completion, Contract 80900 will result in operational increases ranging from \$100,000 to \$300,000 per year.

**Status of Capital Project:**

Contract 80900P is scheduled to begin in September 2006.

**80900P**  
**BPWWTF - Nitrogen Removal Facilities - Planning**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	September-06	May-07	9 Months	225
Design	October-07	November-08	13 Months	1,030
Construction	May-09	October-10	18 Months	15,642
<b>Total Contract</b>	<b>November-23</b>	<b>March-27</b>	<b>41 Months</b>	<b>16,897</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	45	-	-	-	-	-	45
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	180	-	-	-	-	-	180
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	-	-	<b>225</b>	-	-	-	-	-	<b>225</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants			-	-	-	-	-	-	-
Bay Bonds			-	-	-	-	-	-	-
State Revolving Fund			-	-	-	-	-	-	-
Revenue Bonds			-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	-		225	-	-	-	-	-	225
<b>Total Financing</b>	-	-	<b>225</b>	-	-	-	-	-	<b>225</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 80900D**  
**Bucklin Point WWTF Nitrogen Removal Facilities - Design**  
**Project Manager: Tom Brueckner, P.E.**

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**Location:** Bucklin Point Wastewater Treatment Facilities (East Providence, RI)

**Contractor(s):** N/A

**Project Overview:**

Contract 80900D is for the design costs related to Contract 80900. See Contract 80900P for a detailed project overview for Contract 80900.

**Reason for Project/Benefits:**

To meet permit discharge limits and improve water quality.

**Impact on NBC Operating Budget:**

Upon completion, Contract 80900 will result in operational increases ranging from \$100,000 to \$300,000 per year.

**Status of Capital Project:**

Contract 80900D is scheduled to begin in October 2007.

**80900D**  
**BPWWTF - Nitrogen Removal Facilities - Design**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	September-06	May-07	9 Months	225
Design	October-07	November-08	13 Months	1,030
Construction	May-09	October-10	18 Months	15,642
<b>Total Contract</b>	<b>November-23</b>	<b>March-27</b>	<b>41 Months</b>	<b>16,897</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	-	45	25	-	-	-	70
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	560	400	-	-	-	960
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>605</b>	<b>425</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,030</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRI Revenue	-	-	-	-	-	-	-	-	-
Bonds Other Capital	-	-	-	605	425	-	-	-	1,030
<b>Total Financing</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>605</b>	<b>425</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,030</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 80900C**  
**Bucklin Point WWTF Nitrogen Removal Facilities - Construction**  
**Project Manager: Rich Bernier, P.E.**

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**Location:** Bucklin Point Wastewater Treatment Facilities (East Providence, RI)

**Contractor(s):** N/A

**Project Overview:**

Contract 80900C is for the construction costs related to Contract 80900. See Contract 80900P for a detailed project overview for Contract 80900.

**Reason for Project/Benefits:**

To meet permit discharge limits and improve water quality.

**Impact on NBC Operating Budget:**

Upon completion, Contract 80900 will result in operational increases ranging from \$100,000 to \$300,000 per year.

**Status of Capital Project:**

Contract 80900C is scheduled to begin in May 2009.

**80900C**  
**BPWWTF - Nitrogen Removal Facilities - Construction**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	September-06	May-07	9 Months	225
Design	October-07	November-08	13 Months	1,030
Construction	May-09	October-10	18 Months	15,642
<b>Total Contract</b>	<b>November-23</b>	<b>March-27</b>	<b>41 Months</b>	<b>16,897</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	-	-	70	420	140	-	630
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	40	240	80	-	360
Construction	-	-	-	-	1,480	8,880	2,960	-	13,320
Contingency	-	-	-	-	-	-	1,332	-	1,332
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,590</b>	<b>9,540</b>	<b>4,512</b>	<b>-</b>	<b>15,642</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	-	-	-	-	1,590	9,540	4,512	-	15,642
<b>Total Financing</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,590</b>	<b>9,540</b>	<b>4,512</b>	<b>-</b>	<b>15,642</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses



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# **SEWER SYSTEM IMPROVEMENTS**

**Contract 3022100**  
**CSO Flow and Water Quality Monitoring**  
**Project Manager: Kathryn Kelly**

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**Location:**           Various

**Contractor(s):**    Environmental Sampling Technology

**Project Overview:**

This project includes the installation and maintenance of flow meters at CSO outfalls to determine frequency and volume of CSO discharges. It will also include the installation of monitoring devices that will provide an alarm in the event of a dry weather overflow at any of the combined sewer overflows.

**Reason for Project/Benefits:**

To obtain flow monitoring data for design of floatables control facilities and for design of Phase II and Phase III CSO facilities and to provide an alarm in the event of a dry weather overflow.

**Impact on NBC Operating Budget:**

NBC will be installing wireless communications at each flow meter location. The annual cost of the wireless communications, once installation is completed, will be \$15,000 per year.

**Status of Capital Project:**

Contract 3022100 is underway and scheduled to be completed in June 2007.

**3022100**  
**CSO Flow and Water Quality Monitoring**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	August-01	June-07	72 Months	1,291
Design	N/A	N/A	N/A	N/A
Construction	N/A	N/A	N/A	N/A
<b>Total Contract</b>	<b>August-01</b>	<b>June-07</b>	<b>72 Months</b>	<b>1,291</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	197	75	76	-	-	-	-	-	348
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	220	99	-	-	-	-	-	319
Construction	468	-	-	-	-	-	-	-	468
Contingency	-	-	-	-	-	-	-	-	-
Other	96	29	30	-	-	-	-	-	156
<b>Total Project Costs</b>	<b>762</b>	<b>324</b>	<b>205</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,291</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	169	-	-	-	-	-	-	-	169
State Revolving Fund	372	-	-	-	-	-	-	-	372
Revenue Bonds	220	98	-	-	-	-	-	-	318
SRF/Revenue Bonds/Other Capital	-	226	205	-	-	-	-	-	431
<b>Total Financing</b>	<b>762</b>	<b>324</b>	<b>205</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,291</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30424P**  
**CMOM Plan Development**  
**Project Manager: Theresa Cote, P.E.**

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**Location:** Entire NBC District

**Contractor(s):** Brown & Caldwell

**Project Overview:**

Proposed Federal regulations and good management practices requires the development of a capacity management operations and management (CMOM) plan for NBC's interceptor system. Contract 30410 would provide the capacity analysis part of the plan while Contract 30424 will provide the management operations and maintenance analysis.

**Reason for Project/Benefits:**

This plan will result in recommendations and changes necessary to bring management, operation and maintenance of the sewer system up to current standards.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30424P is underway and scheduled to be completed in October 2005.

**30424P**  
**CMOM Plan Development**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	December-04	October-05	11 Months	310
Design	N/A	N/A	N/A	N/A
Construction	N/A	N/A	N/A	N/A
<b>Total Contract</b>	<b>December-04</b>	<b>October-05</b>	<b>11 Months</b>	<b>310</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	43	32	-	-	-	-	-	-	75
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	130	105	-	-	-	-	-	-	235
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>173</b>	<b>137</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>310</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	173	137	-	-	-	-	-	-	310
<b>Total Financing</b>	<b>173</b>	<b>137</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>310</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30410P**  
**NBC System-Wide Facilities Plan**  
**Project Manager: Theresa Cote, P.E.**

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**Location:** Entire NBC District

**Contractor(s):** Beta Engineering

**Project Overview:**

NBC's interceptor sewers convey flow from local sewers in the district's eight cities and towns to the two NBC wastewater treatment facilities. The purpose of this study is to determine if there is adequate capacity for the next twenty years and if there is any excessive infiltration/inflow in NBC's interceptors.

**Reason for Project/Benefits:**

To determine if adequate capacity exists in NBC interceptors for the next twenty years.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30410P is underway and scheduled to be completed in November 2006.

**30410P**  
**NBC System-Wide Facilities Plan**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	June-03	November-06	43 Months	1,710
Design	N/A	N/A	N/A	N/A
Construction	N/A	N/A	N/A	N/A
<b>Total Contract</b>	<b>June-03</b>	<b>November-06</b>	<b>43 Months</b>	<b>1,710</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	83	60	17	-	-	-	-	-	160
Land	-	-	-	-	-	-	-	-	-
A/E Professional	332	986	232	-	-	-	-	-	1,550
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>415</b>	<b>1,046</b>	<b>249</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,710</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants				-	-	-	-	-	-
Bay Bonds			-		-		-	-	-
State Revolving Fund			-	-	-	-	-	-	-
Revenue Bonds			-	-	-			-	-
SRF/Revenue Bonds/Other Capital	415	1,046	249	-	-	-	-	-	1,710
<b>Total Financing</b>	<b>415</b>	<b>1,046</b>	<b>249</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,710</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses



**Contract 70400C**  
**Investigation and Rehabilitation of the Washington Highway and Omega Pump Stations -**  
**Construction**  
**Project Manager: Rich Bernier, P.E.**

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**Location:** East Providence, RI; Lincoln, RI

**Contractor(s):** BETA Group, Inc.

**Project Overview:**

The Washington Highway and Omega Pump Stations in the Bucklin Point service area are older stations nearing the end of their design life. A study of these stations has been completed. It is recommended that the Washington Highway Pump Station be replaced and that improvements be made to the Omega Pump Station and force main. Contract 70400C is for the construction costs associated with the Investigation and Rehabilitation of the Washington Highway and Omega Pump Stations.

**Reason for Project/Benefits:**

To maintain pump stations in good operating condition and to meet current safety and design standards.

**Impact on NBC Operating Budget:**

No changes in operational levels are expected at the pump stations as a result of this project.

**Status of Capital Project:**

Contract 70400C is underway and scheduled to be completed in March 2008.

**70400C**

**Rehabilitation of Washington Highway and Omega Pump Stations - Construction**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	February-02	November-04	34 Months	477
Construction	July-03	March-08	58 Months	8,646
<b>Total Contract</b>	<b>February-02</b>	<b>March-08</b>	<b>75 Months</b>	<b>9,123</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	63	199	87	9	-	-	-	-	358
Land	50	-	-	-	-	-	-	-	50
A/E Professional	34	180	75	8	-	-	-	-	296
Construction	150	1,750	5,248	72	-	-	-	-	7,220
Contingency	-	-	-	722	-	-	-	-	722
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>297</b>	<b>2,129</b>	<b>5,410</b>	<b>811</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>8,646</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	254	-	-	-	-	-	-	254
SRF/Revenue Bonds/Other Capital	297	1,875	5,410	811	-	-	-	-	8,392
<b>Total Financing</b>	<b>297</b>	<b>2,129</b>	<b>5,410</b>	<b>811</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>8,646</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 9030100**  
**Geographic Information System Implementation (GIS)**  
**Project Manager: Tom Grala, P.E.**

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**Location:** Providence, RI

**Contractor(s):** Plangraphics

**Project Overview:**

The NBC has completed a study to implement a GIS program. This GIS will allow the NBC to geographically relate and maintain databases on its sewer system and other facilities. The project includes data conversion, data development, and acquisition of additional hardware and software. The implementation of GIS includes potential functions for the Interceptor Maintenance and Construction, Engineering, Pretreatment, and Customer Service sections of the NBC. The first part of the GIS program will be to provide coverage of NBC interceptors throughout the district.

**Reason for Project/Benefits:**

Contract 9030100 will enable NBC to geographically relate and maintain databases on its sewer system and other facilities.

**Impact on NBC Operating Budget:**

Once completed the equivalent of one half of a full time employee will be required to maintain this system.

**Status of Capital Project:**

Contract 9030100 is underway and scheduled to be completed in June 2006.

9030100

**Geographic Information System Implementation**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	July-01	June-06	61 Months	1,139
Design	N/A	N/A	N/A	N/A
Construction	N/A	N/A	N/A	N/A
<b>Total Contract</b>	<b>July-01</b>	<b>June-06</b>	<b>61 Months</b>	<b>1,139</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	504	239	-	-	-	-	-	-	743
Land	-	-	-	-	-	-	-	-	-
A/E Professional	312	-	-	-	-	-	-	-	312
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	84	-	-	-	-	-	-	-	84
<b>Total Project Costs</b>	<b>899</b>	<b>239</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,139</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	598	-	-	-	-	-	-	-	598
Revenue Bonds	302	79	-	-	-	-	-	-	381
SRF/Revenue Bonds/Other Capital	-	160	-	-	-	-	-	-	160
<b>Total Financing</b>	<b>899</b>	<b>240</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,139</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 9070000**  
**Lab Building HVAC Repairs**  
**Project Manager: John Zuba**

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**Location:** Providence, RI (NBC Laboratory Building)

**Contractor(s):** Camp Dresser McKee

**Project Overview:**

Contract 9070000 will employ an engineering firm to determine the extent of the heating, ventilating and air conditioning (HVAC) deficiencies at the Laboratory building. After inspection of the Laboratory building has been completed, the engineering firm will prepare a written report and present their findings to NBC. Tentative estimates for design and construction are also included in this project.

**Reason for Project/Benefits:**

Contract 9070000 will identify and correct the deficiencies of the HVAC system at the Laboratory building.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 9070000 is scheduled to begin in April 2005.

**9070000**  
**Lab Building HVAC Repairs**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	April-05	March-06	12 Months	341
Design	N/A	N/A	N/A	N/A
Construction	N/A	N/A	N/A	N/A
<b>Total Contract</b>	<b>April-05</b>	<b>March-06</b>	<b>12 Months</b>	<b>341</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	1	-	-	-	-	-	-	-	1
Land	-	-	-	-	-	-	-	-	-
A/E Professional	55	10	-	-	-	-	-	-	65
Construction	-	250	-	-	-	-	-	-	250
Contingency	-	25	-	-	-	-	-	-	25
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>56</b>	<b>285</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>341</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	56	285	-	-	-	-	-	-	341
<b>Total Financing</b>	<b>56</b>	<b>285</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>341</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

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# **FLOATABLES CONTROL FACILITIES**



**Contract 30600D**  
**Floatables Control Facilities - Design**  
**Project Manager: Tom Brueckner, P.E.**

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**Location:** Providence, RI; Pawtucket, RI; Central Falls, RI

**Contractor(s):** N/A

**Project Overview:**

As part of the nine minimum controls required under EPA's CSO Control Policy, floatables control is to be provided at all CSO overflows. RIDEM will require that all CSO overflows to be addressed in Phase II and III of the CSO program must be provided with floatables control in the interim. NBC completed the evaluation of a trash net floatables control facility and has submitted a plan for addressing floatables control for Phase II and III overflows to RIDEM. This project is for design and construction of floatables control facilities at approximately 40 outfalls.

**Reason for Project/Benefits:**

To eliminate the discharge of floatables from CSO overflows that is included in Phase II and Phase III of the CSO project.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30600D is scheduled to begin in August 2005.

**30600D**  
**Floatables Control Facilities - Design**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	August-05	September-06	14 Months	432
Construction	N/A	N/A	N/A	N/A
<b>Total Contract</b>	<b>August-05</b>	<b>September-06</b>	<b>14 Months</b>	<b>432</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	33	9	-	-	-	-	-	42
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	300	90	-	-	-	-	-	390
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>-</b>	<b>333</b>	<b>99</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>432</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	69	-	-	-	-	-	-	69
SRF/Revenue Bonds/Other Capital	-	264	99	-	-	-	-	-	363
<b>Total Financing</b>	<b>-</b>	<b>333</b>	<b>99</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>432</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30600C**  
**Floatables Control Facilities - Construction**  
**Project Manager: Rich Bernier, P.E.**

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**Location:** Providence, RI; Pawtucket, RI; Central Falls, RI

**Contractor(s):** N/A

**Project Overview:**

Contract 30600C is for the construction costs associated with the approximately 40 Floatables Control Facilities to be built at various sites. See Contract 30600D for an in-depth project overview of Contract 30600.

**Reason for Project/Benefits:**

To eliminate the discharge of floatables from CSO overflows that is included in Phase II and Phase III of the CSO project.

**Impact on NBC Operating Budget:**

As a result of Contract 30600C two full time employees, at an estimated cost of \$50,000 each or a total cost of \$100,000 per year, will be required to remove floatables from approximately 40 locations where trash racks are proposed to be installed.

**Status of Capital Project:**

Contract 30600C is scheduled to be completed in May 2007.

**30600C**  
**Floatables Control Facilities - Construction**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	September-04	May-07	33 Months	3,808
<b>Total Contract</b>	<b>September-04</b>	<b>May-07</b>	<b>33 Months</b>	<b>3,808</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	22	70	70	-	-	-	-	-	161
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	150	150	-	-	-	-	-	300
Construction	-	1,515	1,515	-	-	-	-	-	3,030
Contingency	4	152	152	-	-	-	-	-	307
Other	-	5	5	-	-	-	-	-	10
<b>Total Project Costs</b>	<b>26</b>	<b>1,891</b>	<b>1,891</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,808</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	26	1,891	1,891	-	-	-	-	-	3,808
<b>Total Financing</b>	<b>26</b>	<b>1,891</b>	<b>1,891</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,808</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

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**CSO INTERCEPTOR  
INSPECTION AND CLEANING  
PROJECTS**

**Contract 30400M**  
**Inspection and Cleaning of NBC Interceptors**  
**Project Manager: Meg Goulet, P.E.**

---

**Location:** Various

**Contractor(s):** Various

**Project Overview:**

Contract 30400M involves TV inspection of all interceptor sewers in the NBC's service area to determine their condition and to develop solutions to correct any problems which may be identified. Based on inspections done to date, the interceptors primarily need to have accumulated grit removed. Any necessary repairs or construction identified from the TV inspections of the NBC's interceptor sewers are to be funded through Contract 30400C.

**Reason for Project/Benefits:**

Contract 30400M will ensure the structural integrity of the interceptors and remove grit or obstructions that may reduce their capacity.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30400M is an ongoing project.

**30400M**  
**Inspection and Cleaning of CSO Interceptors**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Maintenance	July-01	Ongoing	Ongoing	430
<b>Total Contract</b>	<b>July-01</b>	<b>Ongoing</b>	<b>Ongoing</b>	<b>430</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	82	24	30	45	-	-	-	-	181
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Maintenance	101	48	30	13	-	-	-	-	191
Contingency	-	-	-	-	-	-	-	-	-
Other	21	10	12	15	-	-	-	-	58
<b>Total Project Costs</b>	<b>204</b>	<b>81</b>	<b>72</b>	<b>73</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>430</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	204	81	72	73	-	-	-	-	430
<b>Total Financing</b>	<b>204</b>	<b>81</b>	<b>72</b>	<b>73</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>430</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses



**Contract 30419M**  
**Pleasant Valley Parkway Interceptor Cleaning & Inspection**  
**Project Manager: Meg Goulet, P.E.**

---

**Location:** Providence, RI

**Contractor(s):** N/A

**Project Overview:**

This contract continues NBC's program to clean and inspect all NBC interceptors. This project is to clean and inspect approximately four miles of the Pleasant Valley Parkway Interceptor in Providence.

**Reason for Project/Benefits:**

To ensure the structural integrity of the interceptor and to remove grit or obstructions that may reduce its capacity.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30419M is scheduled to begin in June 2007.

**30419M**  
**Pleasant Valley Parkway Interceptor Cleaning & Inspection**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Maintenance	June-07	January-08	8 Months	300
<b>Total Contract</b>	<b>June-07</b>	<b>January-08</b>	<b>8 Months</b>	<b>300</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	9	32	-	-	-	-	41
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Maintenance	-	-	50	192	-	-	-	-	242
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	3	14	-	-	-	-	17
<b>Total Project Costs</b>	<b>-</b>	<b>-</b>	<b>62</b>	<b>238</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>300</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	-	-	62	238	-	-	-	-	300
<b>Total Financing</b>	<b>-</b>	<b>-</b>	<b>62</b>	<b>238</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>300</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30420M**  
**Moshassuck Valley Interceptor Cleaning & Inspection**  
**Project Manager: Meg Goulet, P.E.**

---

**Location:** Pawtucket, RI

**Contractor(s):** N/A

**Project Overview:**

This contract continues NBC's program to clean and inspect all NBC interceptors. This project is to clean and inspect approximately two miles of the Moshassuck Valley Interceptor in Pawtucket from Moshassuck St. to the Seekonk River and from Lonsdale Ave. to Weeden Street.

**Reason for Project/Benefits:**

To ensure the structural integrity of the interceptor and to remove grit or obstructions that may reduce its capacity.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30420M is scheduled to begin in April 2005.

**30420M**  
**Moshassuck Valley Interceptor Cleaning & Inspection**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Maintenance	April-05	October-05	7 Months	150
<b>Total Contract</b>	<b>April-05</b>	<b>October-05</b>	<b>7 Months</b>	<b>150</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	9	12	-	-	-	-	-	-	21
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Maintenance	40	80	-	-	-	-	-	-	120
Contingency	-	-	-	-	-	-	-	-	-
Other	4	5	-	-	-	-	-	-	9
<b>Total Project Costs</b>	<b>53</b>	<b>97</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>150</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	53	97	-	-	-	-	-	-	150
<b>Total Financing</b>	<b>53</b>	<b>97</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>150</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30425M**  
**Louisquisset & Moshassuck Valley Interceptor Cleaning & Inspection**  
**Project Manager: Meg Goulet, P.E.**

---

**Location:** Pawtucket, RI

**Contractor(s):** N/A

**Project Overview:**

This contract continues NBC's program to clean and inspect all NBC interceptors. The purpose of this project is to clean and inspect areas of the Louisquisset and Moshassuck Valley interceptors.

**Reason for Project/Benefits:**

To ensure the structural integrity of the interceptor and to remove grit or obstructions that may reduce its capacity.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30425M is underway and scheduled to be completed in September 2005.

**30425M**  
**Louisquisset & Moshassuck Valley Interceptor Cleaning**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Maintenance	October-04	September-05	12 Months	425
<b>Total Contract</b>	<b>October-04</b>	<b>September-05</b>	<b>12 Months</b>	<b>425</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	67	34	-	-	-	-	-	-	100
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Maintenance	214	111	-	-	-	-	-	-	325
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>281</b>	<b>145</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>425</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	281	145	-	-	-	-	-	-	425
<b>Total Financing</b>	<b>281</b>	<b>145</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>425</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30426M**  
**Branch Ave & Douglas Pike Interceptor Cleaning**  
**Project Manager: Meg Goulet, P.E.**

---

**Location:** Providence, RI

**Contractor(s):** N/A

**Project Overview:**

This contract continues NBC's program to clean and inspect all NBC interceptors. The purpose of this project is to clean and inspect areas of the Branch Avenue and Douglas Pike interceptors.

**Reason for Project/Benefits:**

To ensure the structural integrity of the interceptor and to remove grit or obstructions that may reduce its capacity.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30426M is underway and scheduled to be completed in January 2006.

**30426M**  
**Branch Ave & Douglas Pike Interceptor Cleaning**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Maintenance	December-04	January-06	14 Months	371
<b>Total Contract</b>	<b>December-04</b>	<b>January-06</b>	<b>14 Months</b>	<b>371</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	41	60	-	-	-	-	-	-	101
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Maintenance	110	161	-	-	-	-	-	-	271
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>150</b>	<b>221</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>371</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	150	221	-	-	-	-	-	-	371
<b>Total Financing</b>	<b>150</b>	<b>221</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>371</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses



**Contract 30427M**  
**Various Interceptor Connector Pipe Cleaning & Inspection**  
**Project Manager: Meg Goulet, P.E.**

---

**Location:** Various

**Contractor(s):** N/A

**Project Overview:**

This contract continues NBC's program to clean and inspect all NBC interceptors. This project is to clean and inspect approximately ten miles of NBC connector pipes on various interceptor throughout the District.

**Reason for Project/Benefits:**

To ensure the structural integrity of the connector pipes and to remove any grit and/or obstructions that may reduce its capacity.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30427M is scheduled to begin in April 2005.

**30427M**  
**Various Interceptor Connector Pipe Cleaning & Inspection**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Maintenance	April-05	October-05	7 Months	150
<b>Total Contract</b>	<b>April-05</b>	<b>October-05</b>	<b>7 Months</b>	<b>150</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	9	12	-	-	-	-	-	-	21
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Maintenance	40	80	-	-	-	-	-	-	120
Contingency	-	-	-	-	-	-	-	-	-
Other	4	5	-	-	-	-	-	-	9
<b>Total Project Costs</b>	<b>53</b>	<b>97</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>150</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	53	97	-	-	-	-	-	-	150
<b>Total Financing</b>	<b>53</b>	<b>97</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>150</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30428M**  
**South Providence-Elmwood Interceptor Relief Pipe Cleaning & Inspection**  
**Project Manager: Meg Goulet, P.E.**

---

**Location:** Providence, RI

**Contractor(s):** N/A

**Project Overview:**

This contract continues NBC's program to clean and inspect all NBC interceptors. This project is to clean and inspect approximately three miles of NBC's wet weather relief pipe on the South Providence-Elmwood Interceptor in Providence.

**Reason for Project/Benefits:**

To ensure the structural integrity of the relief pipe and to remove any grit and/or obstructions that may reduce its capacity.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30428M is scheduled to begin in June 2005.

# 30428M

## South Providence-Elmwood Interceptor Relief Pipe Cleaning & Inspection

### Total Contract Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Maintenance	June-05	July-06	14 Months	235
<b>Total Contract</b>	<b>June-05</b>	<b>July-06</b>	<b>14 Months</b>	<b>235</b>

### Projected Expenditures

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	2	22	1	-	-	-	-	-	25
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Maintenance	-	200	-	-	-	-	-	-	200
Contingency	-	-	-	-	-	-	-	-	-
Other	-	10	-	-	-	-	-	-	10
<b>Total Project Costs</b>	<b>2</b>	<b>232</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>235</b>

### Projected Financing

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	2	-	-	-	-	-	-	-	2
SRF/Revenue Bonds/Other Capital	-	232	1	-	-	-	-	-	233
<b>Total Financing</b>	<b>2</b>	<b>232</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>235</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30429M**  
**Johnston South and North Interceptors Cleaning & Inspection**  
**Project Manager: Meg Goulet, P.E.**

---

**Location:** Johnston, RI

**Contractor(s):** N/A

**Project Overview:**

This contract continues NBC's program to clean and inspect all NBC interceptors. This project is to clean and inspect approximately five miles of NBC's older interceptors in Johnston.

**Reason for Project/Benefits:**

To ensure the structural integrity of the interceptors and to remove any grit and/or obstructions that may reduce its capacity.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30429M is scheduled to begin in July 2005.

# 30429M

## Johnston South and North Interceptors Cleaning & Inspection

### Total Contract Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Maintenance	July-05	March-06	9 Months	178
<b>Total Contract</b>	<b>July-05</b>	<b>March-06</b>	<b>9 Months</b>	<b>178</b>

### Projected Expenditures

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	18	-	-	-	-	-	-	18
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Maintenance	-	150	-	-	-	-	-	-	150
Contingency	-	-	-	-	-	-	-	-	-
Other	-	10	-	-	-	-	-	-	10
<b>Total Project Costs</b>	<b>-</b>	<b>178</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>178</b>

### Projected Financing

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	-	178	-	-	-	-	-	-	178
<b>Total Financing</b>	<b>-</b>	<b>178</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>178</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30430M**  
**Woonasquatucket Interceptor along Route 10 Cleaning & Inspection**  
**Project Manager: Meg Goulet, P.E.**

---

**Location:** Providence, RI

**Contractor(s):** N/A

**Project Overview:**

This contract continues NBC's program to clean and inspect all NBC interceptors. This project is to clean and inspect approximately two miles of NBC's Woonasquatucket interceptor in the vicinity of Route 10 in Providence.

**Reason for Project/Benefits:**

To ensure the structural integrity of the interceptors and to remove any grit and/or obstructions that may reduce its capacity.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30430M is scheduled to begin in August 2005.

# 30430M

## Woonasquatucket Interceptor along Route 10 Cleaning & Inspection

### Total Contract Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Maintenance	August-05	January-06	6 Months	187
<b>Total Contract</b>	<b>August-05</b>	<b>January-06</b>	<b>6 Months</b>	<b>187</b>

### Projected Expenditures

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	17	-	-	-	-	-	-	17
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Maintenance	-	160	-	-	-	-	-	-	160
Contingency	-	-	-	-	-	-	-	-	-
Other	-	10	-	-	-	-	-	-	10
<b>Total Project Costs</b>	<b>-</b>	<b>187</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>187</b>

### Projected Financing

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	-	187	-	-	-	-	-	-	187
<b>Total Financing</b>	<b>-</b>	<b>187</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>187</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses



**Contract 30431M**  
**Allens Avenue Interceptor from the Mall to the Pump Station Cleaning & Inspection**  
**Project Manager: Meg Goulet, P.E.**

---

**Location:** Providence, RI

**Contractor(s):** N/A

**Project Overview:**

This contract continues NBC's program to clean and inspect all NBC interceptors. This project is to clean and inspect approximately three miles of NBC's Allens Avenue Interceptor from the Providence Place Mall to the Ernest Street Pump Station in Providence.

**Reason for Project/Benefits:**

To ensure the structural integrity of the interceptor and to remove any grit and/or obstructions that may reduce its capacity.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30431M is scheduled to begin in December 2005.

### 30431M

## Allens Avenue Interceptor from the Mall to the Pump Station Cleaning & Inspection

### Total Contract Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Maintenance	December-05	July-06	8 Months	405
<b>Total Contract</b>	<b>December-05</b>	<b>July-06</b>	<b>8 Months</b>	<b>405</b>

### Projected Expenditures

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	39	6	-	-	-	-	-	45
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Maintenance	-	300	50	-	-	-	-	-	350
Contingency	-	-	-	-	-	-	-	-	-
Other	-	10	-	-	-	-	-	-	10
<b>Total Project Costs</b>	<b>-</b>	<b>349</b>	<b>56</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>405</b>

### Projected Financing

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	-	349	56	-	-	-	-	-	405
<b>Total Financing</b>	<b>-</b>	<b>349</b>	<b>56</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>405</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30432M**  
**Blackstone Valley and Washington Highway Interceptors Cleaning & Inspection**  
**Project Manager: Meg Goulet, P.E.**

---

**Location:** Lincoln, Cumberland, Central Falls and Pawtucket, RI

**Contractor(s):** N/A

**Project Overview:**

This contract continues NBC's program to clean and inspect all NBC interceptors. This project is to clean and inspect approximately fifteen miles of NBC's Blackstone Valley and Washington Highway Interceptors from Harris Avenue/Woonsocket/BV1-7 to the Bucklin Point WWTF in East Providence.

**Reason for Project/Benefits:**

To ensure the structural integrity of the interceptor and to remove any grit and/or obstructions that may reduce its capacity.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30432M is scheduled to begin in April 2006.

# 30432M

## Blackstone Valley and Washington Highway Interceptors Cleaning & Inspection

### Total Contract Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Maintenance	April-06	February-07	11 Months	552
<b>Total Contract</b>	<b>April-06</b>	<b>February-07</b>	<b>11 Months</b>	<b>552</b>

### Projected Expenditures

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	10	32	-	-	-	-	-	42
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Maintenance	-	100	400	-	-	-	-	-	500
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	10	-	-	-	-	-	10
<b>Total Project Costs</b>	<b>-</b>	<b>110</b>	<b>442</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>552</b>

### Projected Financing

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	-	110	442	-	-	-	-	-	552
<b>Total Financing</b>	<b>-</b>	<b>110</b>	<b>442</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>552</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30433M**  
**Woonasquatucket Interceptor from Smith Street to Manton Avenue Cleaning & Inspection**  
**Project Manager: Meg Goulet, P.E.**

---

**Location:** North Providence, RI

**Contractor(s):** N/A

**Project Overview:**

This contract continues NBC's program to clean and inspect all NBC interceptors. This project is to clean and inspect approximately three miles of NBC's Woonasquatucket Interceptor from Smith Street to Manton Avenue in North Providence.

**Reason for Project/Benefits:**

To ensure the structural integrity of the interceptor and to remove any grit and/or obstructions that may reduce its capacity.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30433M is scheduled to begin in May 2006.

# 30433M

## Woonasquatucket Interceptor from Smith Street to Manton Avenue Cleaning & Inspection

### Total Contract Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Maintenance	May-06	October-06	6 Months	103
<b>Total Contract</b>	<b>May-06</b>	<b>October-06</b>	<b>6 Months</b>	<b>103</b>

### Projected Expenditures

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	4	11	-	-	-	-	-	15
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Maintenance	-	10	70	-	-	-	-	-	80
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	8	-	-	-	-	-	8
<b>Total Project Costs</b>	<b>-</b>	<b>14</b>	<b>89</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>103</b>

### Projected Financing

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF Revenue Bonds Other Capital	-	14	89	-	-	-	-	-	103
<b>Total Financing</b>	<b>-</b>	<b>14</b>	<b>89</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>103</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30434M**  
**Seekonk River Interceptor from Tenth Street to India Street Cleaning & Inspection**  
**Project Manager: Meg Goulet, P.E.**

---

**Location:** Providence, RI

**Contractor(s):** N/A

**Project Overview:**

This contract continues NBC's program to clean and inspect all NBC interceptors. This project is to clean and inspect approximately eight miles of NBC's Seekonk River Interceptor from Tenth Street to the Providence River siphon inlet on India Street in Providence.

**Reason for Project/Benefits:**

To ensure the structural integrity of the interceptor and to remove any grit and/or obstructions that may reduce its capacity.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30434M is scheduled to begin in February 2007.

# 30434M

## Seekonk River Interceptor from Tenth Street to India Street Cleaning & Inspection

### Total Contract Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Maintenance	February-07	December-07	11 Months	545
<b>Total Contract</b>	<b>February-07</b>	<b>December-07</b>	<b>11 Months</b>	<b>545</b>

### Projected Expenditures

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	15	20	-	-	-	-	35
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Maintenance	-	-	200	300	-	-	-	-	500
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	4	6	-	-	-	-	10
<b>Total Project Costs</b>	<b>-</b>	<b>-</b>	<b>219</b>	<b>326</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>545</b>

### Projected Financing

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	-	-	219	326	-	-	-	-	545
<b>Total Financing</b>	<b>-</b>	<b>-</b>	<b>219</b>	<b>326</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>545</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses



**Contract 30435M**  
**East Providence Interceptor Cleaning & Inspection**  
**Project Manager: Meg Goulet, P.E.**

---

**Location:** East Providence, RI

**Contractor(s):** N/A

**Project Overview:**

This contract continues NBC's program to clean and inspect all NBC interceptors. This project is to clean and inspect approximately two miles of NBC's East Providence Interceptor from Pawtucket Avenue to the Omega Pump Station and Bourne Avenue to the Bucklin Point WWTF in East Providence.

**Reason for Project/Benefits:**

To ensure the structural integrity of the interceptor and to remove any grit and/or obstructions that may reduce its capacity.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30435M is scheduled to begin in March 2007.

# 30435M

## East Providence Interceptor Cleaning & Inspection

### Total Contract Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Maintenance	March-07	September-07	7 Months	126
<b>Total Contract</b>	<b>March-07</b>	<b>September-07</b>	<b>7 Months</b>	<b>126</b>

### Projected Expenditures

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	10	8	-	-	-	-	18
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Maintenance	-	-	40	60	-	-	-	-	100
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	4	4	-	-	-	-	8
<b>Total Project Costs</b>	<b>-</b>	<b>-</b>	<b>54</b>	<b>72</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>126</b>

### Projected Financing

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	-	-	54	72	-	-	-	-	126
<b>Total Financing</b>	<b>-</b>	<b>-</b>	<b>54</b>	<b>72</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>126</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30436M**  
**Johnston North & South Interceptors Interceptor Cleaning & Inspection**  
**Project Manager: Meg Goulet, P.E.**

---

**Location:** Johnston, RI

**Contractor(s):** N/A

**Project Overview:**

This contract continues NBC's program to clean and inspect all NBC interceptors. This project is to clean and inspect approximately nine miles of NBC's Johnston Interceptors that were rehabilitated in Contracts 501, 502 and 504 in Johnston.

**Reason for Project/Benefits:**

To ensure the structural integrity of the interceptor and to remove any grit and/or obstructions that may reduce its capacity.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30436M is scheduled to begin in April 2007.

30436M

**Johnston North & South Interceptors Interceptor Cleaning & Inspection**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Maintenance	April-07	December-07	9 Months	243
<b>Total Contract</b>	<b>April-07</b>	<b>December-07</b>	<b>9 Months</b>	<b>243</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	12	21	-	-	-	-	33
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Maintenance	-	-	60	140	-	-	-	-	200
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	4	6	-	-	-	-	10
<b>Total Project Costs</b>	<b>-</b>	<b>-</b>	<b>76</b>	<b>167</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>243</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	-	-	76	167	-	-	-	-	243
<b>Total Financing</b>	<b>-</b>	<b>-</b>	<b>76</b>	<b>167</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>243</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

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**CSO INTERCEPTOR REPAIR  
AND CONSTRUCTION  
PROJECTS**

**Contract 30400C**  
**Repair and Construction of NBC Interceptors**  
**Project Manager: Tom Brueckner, P.E.**

---

**Location:** Various

**Contractor(s):** Various

**Project Overview:**

Contract 30400C estimates the repair and construction costs resulting from Contract 30400M. Inspections done to date have resulted in twelve separate repair and construction projects (six having been completed prior to 2005) on NBC interceptors to restore them to proper operational status.

**Reason for Project/Benefits:**

Contract 30400C funds any necessary repairs and construction to restore carrying capacity of the sewers and reduce CSO discharge volumes.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30400C is an ongoing project.

## 30400C

### Repair and Construction of CSO Interceptors

#### Total Contract Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	July-01	Ongoing	Ongoing	11,515
<b>Total Contract</b>	<b>July-01</b>	<b>Ongoing</b>	<b>Ongoing</b>	<b>11,515</b>

#### Projected Expenditures

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	111	114	200	275	275	270	-	-	1,245
Land	-	10	-	10	10	10	-	-	40
A/E Professional	133	72	200	200	200	200	-	-	1,005
Construction	583	806	87	1,850	2,350	2,350	-	-	8,026
Contingency	235	141	5	135	235	235	-	-	985
Other	44	34	34	34	34	33	-	-	213
<b>Total Project Costs</b>	<b>1,106</b>	<b>1,177</b>	<b>526</b>	<b>2,504</b>	<b>3,104</b>	<b>3,098</b>	<b>-</b>	<b>-</b>	<b>11,515</b>

#### Projected Financing

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Ray Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRE Revenue Bonds/Other Capital	1,106	1,177	526	2,504	3,104	3,098	-	-	11,515
<b>Total Financing</b>	<b>1,106</b>	<b>1,177</b>	<b>526</b>	<b>2,504</b>	<b>3,104</b>	<b>3,098</b>	<b>-</b>	<b>-</b>	<b>11,515</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses



**Contract 30409C**  
**Burrington Street and Grotto Brook Sewer Repairs - Construction**  
**Project Manager: Tom Grala, P.E.**

---

**Location:** Providence, RI

**Contractor(s):** N/A

**Project Overview:**

Contract 30409C is for the construction costs associated with the Burrington Street and Grotto Brook Sewer Repairs. As a part of the interceptor cleaning and inspection program, NBC found the Burrington Street interceptor and the Grotto Brook system to be damaged and in need of repair/replacement.

**Reason for Project/Benefits:**

The Burrington St. sewer needs to be repaired or replaced to avoid failure. The Grotto Brook system needs repair or replacement because of damage to the pipe, infiltration problems and difficulty in conducting maintenance due to inaccessibility in a wetland.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30409C is scheduled to begin in November 2005.

# 30409C

## Burrington Street and Grotto Brook Sewer Repairs - Construction

### Total Contract Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	July-02	August-05	39 Months	290
Construction	November-05	October-06	12 Months	1,402
<b>Total Contract</b>	<b>July-02</b>	<b>October-06</b>	<b>53 Months</b>	<b>1,693</b>

### Projected Expenditures

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	54	28	-	-	-	-	-	82
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	600	600	-	-	-	-	-	1,200
Contingency	-	-	120	-	-	-	-	-	120
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>-</b>	<b>654</b>	<b>748</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,402</b>

### Projected Financing

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	-	654	748	-	-	-	-	-	1,402
<b>Total Financing</b>	<b>-</b>	<b>654</b>	<b>748</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,402</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30414C**  
**Replace Harold St. Connector Pipe**  
**Project Manager: Tom Brueckner, P.E.**

---

**Location:** Providence, RI

**Contractor(s):** RP Iannuccillo

**Project Overview:**

The Harold St. connector pipe often backs up resulting in dry weather overflows to the Woonasquatucket River. These backups may be because the pipe is partially blocked or damaged. This project will involve the evaluation of several alternatives for replacing the connector pipe and construction of the recommended alternative.

**Reason for Project/Benefits:**

Reduce dry weather overflows to the Woonasquatucket River, resulting in better water quality.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30414C is underway and scheduled to be completed in August 2005.

**30414C**  
**Replace Harold St. Connector Pipe**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	July-03	August-05	26 Months	411
<b>Total Contract</b>	<b>July-03</b>	<b>August-05</b>	<b>26 Months</b>	<b>411</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	42	4	-	-	-	-	-	-	46
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	136	200	-	-	-	-	-	-	336
Contingency	-	30	-	-	-	-	-	-	30
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>177</b>	<b>234</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>411</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	177	234	-	-	-	-	-	-	411
<b>Total Financing</b>	<b>177</b>	<b>234</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>411</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30416D**  
**Elmwood Interceptor Repairs - Design**  
**Project Manager: Tom Brueckner, P.E.**

---

**Location:** Providence, RI

**Contractor(s):** N/A

**Project Overview:**

There are two structures on this interceptor that cannot be maintained because they are not accessible. One is a regulator manhole in Interstate 95, which is inaccessible because of traffic. The other is a gate chamber buried in the Interstate 95 embankment. These two structures will be replaced with new structures that are more accessible and easier to maintain.

**Reason for Project/Benefits:**

With improved access, these facilities will be easier to maintain, resulting in improved flow in the system.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30416D is scheduled to begin in October 2005.

**30416D**  
**Elmwood Interceptor Repairs - Design**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	October-05	March-06	6 Months	108
Construction	August-06	April-07	9 Months	1,680
<b>Total Contract</b>	<b>October-05</b>	<b>April-07</b>	<b>19 Months</b>	<b>1,788</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	12	-	-	-	-	-	-	12
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	96	-	-	-	-	-	-	96
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>-</b>	<b>108</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>108</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	-	108	-	-	-	-	-	-	108
<b>Total Financing</b>	<b>-</b>	<b>108</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>108</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30416C**  
**Elmwood Interceptor Repairs - Construction**  
**Project Manager: Rich Bernier, P.E.**

---

**Location:** Providence, RI

**Contractor(s):** N/A

**Project Overview:**

Contract 30416C is for the construction costs associated with the Elmwood Interceptor Repairs. There are two structures on this interceptor that cannot be maintained because they are not accessible. One is a regulator manhole in Interstate 95, which is inaccessible because of traffic. The other is a gate chamber buried in the Interstate 95 embankment. These two structures will be replaced with new structures that are more accessible and easier to maintain.

**Reason for Project/Benefits:**

With improved access, these facilities will be easier to maintain, resulting in improved flow in the system.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30416C is scheduled to begin in August 2006.

**30416C**  
**Elmwood Interceptor Repairs - Construction**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	October-05	March-06	6 Months	108
Construction	August-06	April-07	9 Months	1,680
<b>Total Contract</b>	<b>October-05</b>	<b>April-07</b>	<b>19 Months</b>	<b>1,788</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	27	-	-	-	-	-	27
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	1,503	-	-	-	-	-	1,503
Contingency	-	-	150	-	-	-	-	-	150
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	-	-	<b>1,680</b>	-	-	-	-	-	<b>1,680</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	-	-	1,680	-	-	-	-	-	1,680
<b>Total Financing</b>	-	-	<b>1,680</b>	-	-	-	-	-	<b>1,680</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses



**Contract 30417D**  
**India St. Siphon Gate House Replacement - Design**  
**Project Manager: Tom Brueckner, P.E.**

---

**Location:** Providence, RI

**Contractor(s):** N/A

**Project Overview:**

The India St. Siphon Gate House is in very poor condition and needs to be rebuilt. The new structure will be designed to architecturally match the original structure built one hundred years ago.

**Reason for Project/Benefits:**

Existing Siphon Gate House structure is not structurally sound.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30417D is underway and scheduled to be completed in August 2005.

**30417D**  
**India St. Siphon Gate House Replacement - Design**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	July-04	August-05	14 Months	46
Construction	February-06	May-06	4 Months	460
<b>Total Contract</b>	<b>July-04</b>	<b>May-06</b>	<b>23 Months</b>	<b>506</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	8	3	-	-	-	-	-	-	11
Land	-	-	-	-	-	-	-	-	-
A/E Professional	25	10	-	-	-	-	-	-	35
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>33</b>	<b>13</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>46</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF Revenue	-	-	-	-	-	-	-	-	-
Bonds Other Capital	33	13	-	-	-	-	-	-	46
<b>Total Financing</b>	<b>33</b>	<b>13</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>46</b>

**Note: Cash Flow Basis in Thousands (000's)**

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30417C**  
**India St. Siphon Gate House Replacement - Construction**  
**Project Manager: Rich Bernier, P.E.**

---

**Location:** Providence, RI

**Contractor(s):** N/A

**Project Overview:**

Contract 30417C is for the construction costs associated the India St. Siphon Gate House Replacement. The India St. Siphon Gate House is in very poor condition and needs to be rebuilt. The new structure will be designed to architecturally match the original structure built one hundred years ago.

**Reason for Project/Benefits:**

Existing Siphon Gate House structure is not structurally sound.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30417C is scheduled to begin in February 2006.

30417C

**India St. Siphon Gate House Replacement - Construction**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	July-04	August-05	14 Months	46
Construction	February-06	May-06	4 Months	460
<b>Total Contract</b>	<b>July-04</b>	<b>May-06</b>	<b>23 Months</b>	<b>506</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	20	-	-	-	-	-	-	20
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	400	-	-	-	-	-	-	400
Contingency	-	40	-	-	-	-	-	-	40
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>-</b>	<b>460</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>460</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	-	460	-	-	-	-	-	-	460
<b>Total Financing</b>	<b>-</b>	<b>460</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>460</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses.

**Contract 30421P**  
**Louisquissett Pike Interceptor Replacement - Planning**  
**Project Manager: Tom Brueckner, P.E.**

---

**Location:** Lincoln, RI

**Contractor(s):** N/A

**Project Overview:**

Contract 30421P is for the preparation of a facilities plan for the replacement of the Louisquissett Pike Interceptor which has suffered structural damage due to root intrusion and age.

**Reason for Project/Benefits:**

Maintenance of the sewer system is needed at the Louisquissett Pike Interceptor location.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30421P is underway and scheduled to be completed in April 2006.

**30421P**  
**Louisquissett Pike Interceptor Replacement - Planning**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	February-05	April-06	15 Months	70
Design	September-06	March-07	7 Months	80
Construction	January-07	June-07	6 Months	670
<b>Total Contract</b>	<b>February-05</b>	<b>June-07</b>	<b>29 Months</b>	<b>820</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	11	15	-	-	-	-	-	-	25
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	45	-	-	-	-	-	-	45
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>11</b>	<b>60</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>70</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	11	60	-	-	-	-	-	-	70
<b>Total Financing</b>	<b>11</b>	<b>60</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>70</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30421D**  
**Louisquissett Pike Interceptor Replacement - Design**  
**Project Manager: Tom Brueckner, P.E.**

---

**Location:** Lincoln, RI

**Contractor(s):** N/A

**Project Overview:**

Contract 30421D is for the design costs associated the Louisquissett Pike Interceptor replacement. Replacement of the Louisquissett Pike Interceptor is necessary because it has suffered structural damage due to root intrusion and age.

**Reason for Project/Benefits:**

Maintenance of the sewer system is needed at the Louisquissett Pike Interceptor location.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30421D is scheduled to begin in September 2006.

**30421D**  
**Louisquissett Pike Interceptor Replacement- Design**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	February-05	April-06	15 Months	70
Design	September-06	March-07	7 Months	80
Construction	January-07	June-07	6 Months	670
<b>Total Contract</b>	<b>February-05</b>	<b>June-07</b>	<b>29 Months</b>	<b>820</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	10	-	-	-	-	-	10
Land	-	-	10	-	-	-	-	-	10
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	60	-	-	-	-	-	60
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>-</b>	<b>-</b>	<b>80</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>80</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	-	-	80	-	-	-	-	-	80
<b>Total Financing</b>	<b>-</b>	<b>-</b>	<b>80</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>80</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses



**Contract 30421C**  
**Louisquissett Pike Interceptor Replacement - Construction**  
**Project Manager: Tom Brueckner, P.E.**

---

**Location:** Lincoln, RI

**Contractor(s):** N/A

**Project Overview:**

Contract 30421C is for the construction costs associated with the Louisquissett Pike Interceptor replacement. Replacement of the Louisquissett Pike Interceptor is necessary because it has suffered structural damage due to root intrusion and age.

**Reason for Project/Benefits:**

Maintenance of the sewer system is needed at the Louisquissett Pike Interceptor location.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30421C is scheduled to begin in January 2007.

# 30421C

## Louisquissett Pike Interceptor Replacement- Construction

### Total Contract Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	February-05	April-06	15 Months	70
Design	September-06	March-07	7 Months	80
Construction	January-07	June-07	6 Months	670
<b>Total Contract</b>	<b>February-05</b>	<b>June-07</b>	<b>29 Months</b>	<b>820</b>

### Projected Expenditures

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	10	-	-	-	-	-	10
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	600	-	-	-	-	-	600
Contingency	-	-	60	-	-	-	-	-	60
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>-</b>	<b>-</b>	<b>670</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>670</b>

### Projected Financing

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	-	-	670	-	-	-	-	-	670
<b>Total Financing</b>	<b>-</b>	<b>-</b>	<b>670</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>670</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30423D**  
**Blackstone Valley Odor Control – Design**  
**Project Manager: Tom Brueckner, P.E.**

---

**Location:** Lincoln, RI

**Contractor(s):** CH2M Hill

**Project Overview:**

The BVI siphon inlet chamber is downstream of NBC's Washington Highway Septage Receiving Facility and Washington Highway Pump Station. Due to the hydraulic conditions of the sewer in this area, the sewer vents to the atmosphere through manhole covers upstream on the inlet chamber. CH2M Hill's evaluation, completed in May 2004, recommended installation of a modular biofilter adjacent to the existing siphon inlet chamber to control odors, which have been a source of complaints by residents in the area for over 20 years.

**Reason for Project/Benefits:**

To control the odors at the BVI siphon inlet chamber which have been a source of complaint by residents in the area for over 20 years.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30423D is underway and scheduled to be completed in November 2005.

**30423D**  
**BVI Odor Control Facilities - Design**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	October-04	November-05	14 Months	118
Construction	March-05	June-06	16 Months	314
<b>Total Contract</b>	<b>October-04</b>	<b>June-06</b>	<b>21 Months</b>	<b>432</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	10	23	-	-	-	-	-	-	33
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	25	50	-	-	-	-	-	-	75
Contingency	-	-	-	-	-	-	-	-	-
Other	10	-	-	-	-	-	-	-	10
<b>Total Project Costs</b>	<b>45</b>	<b>73</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>118</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	45	73	-	-	-	-	-	-	118
<b>Total Financing</b>	<b>45</b>	<b>73</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>118</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30423C**  
**Blackstone Valley Odor Control - Construction**  
**Project Manager: Tom Brueckner, P.E.**

---

**Location:** Lincoln, RI

**Contractor(s):** CH2M Hill

**Project Overview:**

Contract 30423C is for the construction costs related to the Blackstone Valley Odor Control project. See Contract 30423D for an in-depth project overview for Contract 30423.

**Reason for Project/Benefits:**

To control the odors at the BVI siphon inlet chamber which have been a source of complaint by residents in the area for over 20 years.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30423C is underway and scheduled to be completed in June 2006.

**30423C**  
**BVI Odor Control Facilities - Construction**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	October-04	November-05	14 Months	118
Construction	March-05	June-06	16 Months	314
<b>Total Contract</b>	<b>March-05</b>	<b>June-06</b>	<b>16 Months</b>	<b>432</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	3	28	-	-	-	-	-	-	31
Land	10	-	-	-	-	-	-	-	10
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	5	240	-	-	-	-	-	-	245
Contingency	-	25	-	-	-	-	-	-	25
Other	3	-	-	-	-	-	-	-	3
<b>Total Project Costs</b>	<b>21</b>	<b>293</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>314</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	21	293	-	-	-	-	-	-	314
<b>Total Financing</b>	<b>21</b>	<b>293</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>314</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

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## **CSO PHASE I & II FACILITIES**



**Contract 30203D**  
**Phase I CSO Facilities - Design**  
**Project Manager: Tom Brueckner, P.E.**

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**Location:** N/A

**Contractor(s):** Louis Berger Group

**Project Overview:**

Providence, Pawtucket and Central Falls have combined sewers that overflow at approximately 66 active locations during wet weather. The proposed three phased program consists of two tunnels, the Main Spine tunnel (16,000 ft. long) and the Pawtucket tunnel (13,000 ft. long), two tunnel pump stations, five CSO interceptors and twelve sewer separation projects. Contract 30203D includes design of the Phase I facilities, the Main Spine tunnel and tunnel pump station. Phase I of the Combined Sewer Overflow (CSO) Program will mitigate the impact of the sixteen overflows deemed to have the most significant effect on upper Narragansett Bay. Upon completion of the construction of Phase I, the proposed Phase II facilities will be reassessed to determine if any changes should be made to the plan.

**Reason for Project/Benefits:**

The CSO Abatement Project is a result of a federal mandate requiring clean up of approximately 66 active combined sewer overflows (CSO's), which contribute to the degradation of the Narragansett Bay. During periods of heavy rain, the flow through the combined portions of the NBC's collection system frequently exceeds the capacity of the system. As a result, untreated sewage and stormwater mixture enters rivers and Narragansett Bay. These overflows have been a continual source of pollution in the Upper Narragansett Bay often requiring RIDEM to close parts of the Bay to shell fishing. This CSO Abatement Project would mitigate this problem.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30203D has been completed.

**30203D**  
**Phase I CSO Facilities - Design**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	July-98	January-05	80 Months	14,846
Construction	N/A	N/A	N/A	N/A
<b>Total Contract</b>	<b>July-98</b>	<b>January-05</b>	<b>80 Months</b>	<b>14,846</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	1,462	-	-	-	-	-	-	-	1,462
Land	1,200	-	-	-	-	-	-	-	1,200
A/E Professional	12,040	-	-	-	-	-	-	-	12,040
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	144	-	-	-	-	-	-	-	144
<b>Total Project Costs</b>	<b>14,846</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>14,846</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	9,018	-	-	-	-	-	-	-	9,018
State Revolving Fund	5,641	-	-	-	-	-	-	-	5,641
Revenue Bonds	186	-	-	-	-	-	-	-	186
SRF/Revenue Bonds/Other Capital	-	-	-	-	-	-	-	-	-
<b>Total Financing</b>	<b>14,846</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>14,846</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30203RS**  
**Phase I CSO Facilities - Program Management and Construction Management**  
**Project Manager: Rich Bernier, P.E.**

---

**Location:** N/A

**Contractor(s):** Louis Berger Group

**Project Overview:**

Contract 30203RS provides Program Management and Construction Management of the Phase I CSO Facilities construction program, which consists of ten separate construction contracts.

**Reason for Project/Benefits:**

The CSO Abatement Project is a result of a federal mandate requiring clean up of approximately 66 active combined sewer overflows (CSO's), which contribute to the degradation of the Narragansett Bay. During periods of heavy rain, the flow through the combined portions of the NBC's collection system frequently exceeds the capacity of the system. As a result, untreated sewage and stormwater mixture enters rivers and Narragansett Bay. These overflows have been a continual source of pollution in the Upper Narragansett Bay often requiring RIDEM to close parts of the Bay to shell fishing. This CSO Abatement Project would mitigate this problem.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30203RS is underway and will continue until Phase I of the CSO project is completed.

# 30203RS

## Phase I CSO Facilities - Program Management and Construction Management

### Total Contract Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Contract Management	August-01	July-08	85 Months	30,250
<b>Total Contract</b>	<b>August-01</b>	<b>July-08</b>	<b>85 Months</b>	<b>30,250</b>

### Projected Expenditures

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	-	-	-	-	-	-	-
Land	-	-	-	-	-	-	-	-	-
A/E Professional	20,453	4,780	3,218	759	40	-	-	-	29,250
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	945	55	-	-	-	-	-	-	1,000
<b>Total Project Costs</b>	<b>21,398</b>	<b>4,835</b>	<b>3,218</b>	<b>759</b>	<b>40</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>30,250</b>

### Projected Financing

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	1,000	-	-	-	-	-	-	-	1,000
Bay Bonds	196	-	-	-	-	-	-	-	196
State Revolving Fund	18,988	1,330	-	-	-	-	-	-	20,318
Revenue Bonds	1,214	425	-	-	-	-	-	-	1,639
SRF/Revenue Bonds/Other Capital	-	3,080	3,218	759	40	-	-	-	7,097
<b>Total Financing</b>	<b>21,398</b>	<b>4,835</b>	<b>3,218</b>	<b>759</b>	<b>40</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>30,250</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30204C**  
**Phase I CSO Facilities - Moshassuck River Interceptor Relief**  
**Project Manager: Rich Bernier, P.E.**

---

**Location:** Providence, Rhode Island

**Contractor(s):** Louis Berger Group; John Rocchio Corporation

**Project Overview:**

Contract 30204C is for the construction of relief facilities at the Moshassuck River Interceptor. This project included construction of a gate and screening structure, a drop shaft to the tunnel, and an interceptor relief structure.

See the Appendix of this document for a diagram of a CSO drop shaft.

**Reason for Project/Benefits:**

The CSO Abatement Project is a result of a federal mandate requiring clean up of approximately 66 active combined sewer overflows (CSO's), which contribute to the degradation of the Narragansett Bay. During periods of heavy rain, the flow through the combined portions of the NBC's collection system frequently exceeds the capacity of the system. As a result, untreated sewage and stormwater mixture enters rivers and Narragansett Bay. These overflows have been a continual source of pollution in the Upper Narragansett Bay often requiring RIDEM to close parts of the Bay to shell fishing. This CSO Abatement Project would mitigate this problem.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30204C has been completed.

# 30204C

## Phase I CSO Facilities - Moshassuck River Interceptor Relief

### Total Contract Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	June-01	August-03	27 Months	5,950
<b>Total Contract</b>	<b>June-01</b>	<b>August-03</b>	<b>27 Months</b>	<b>5,950</b>

### Projected Expenditures

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	-	-	-	-	-	-	-
Land	109	-	-	-	-	-	-	-	109
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	5,071	-	-	-	-	-	-	-	5,071
Contingency	-	-	-	-	-	-	-	-	-
Other	769	-	-	-	-	-	-	-	769
<b>Total Project Costs</b>	<b>5,950</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5,950</b>

### Projected Financing

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	5,950	-	-	-	-	-	-	-	5,950
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	-	-	-	-	-	-	-	-	-
<b>Total Financing</b>	<b>5,950</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5,950</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30205C**  
**Phase I CSO Facilities - Floatables Control Demonstration Facility**  
**Project Manager: Rich Bernier, P.E.**

---

**Location:** Pawtucket, Rhode Island

**Contractor(s):** Louis Berger Group; PCM, Inc.

**Project Overview:**

Contract 30205C is for the construction of a floatables control demonstration facility. This was a one-year project designed to evaluate the effectiveness of removing floatables using a trash net system. The project involved the construction of a demonstration facility to remove floatables in the combined sewer outfall at Bucklin Brook in Pawtucket.

**Reason for Project/Benefits:**

The construction of Floatables Control Facilities is required as part of the CSO Abatement Project. Contract 30205C served as a demonstration facility. NBC will construct additional floatables control facilities (approximately forty facilities) under a separate construction contract (30600C).

**Impact on NBC Operating Budget:**

As a result of Contract 30205C the costs of trash nets, grit removal and maintenance have become an NBC operating expense. Costs of grit removal and maintenance are estimated at \$2,000 per rain event or \$80,000 per year and are included in NBC's operating budget.

**Status of Capital Project:**

Contract 30205C has been completed.

# 30205C

## Phase I CSO Facilities - Floatables Control Demonstration Facility

### Total Contract Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	July-01	June-04	37 Months	1,012
<b>Total Contract</b>	<b>July-01</b>	<b>June-04</b>	<b>37 Months</b>	<b>1,012</b>

### Projected Expenditures

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	-	-	-	-	-	-	-
Land	65	-	-	-	-	-	-	-	65
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	947	-	-	-	-	-	-	-	947
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>1,012</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,012</b>

### Projected Financing

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	65	-	-	-	-	-	-	-	65
State Revolving Fund	801	-	-	-	-	-	-	-	801
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	146	-	-	-	-	-	-	-	146
<b>Total Financing</b>	<b>1,012</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,012</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses



**Contract 30206C**  
**Phase I CSO Facilities - Main Spine Tunnel and Ancillary Facilities**  
**Project Manager: Rich Bernier, P.E.**

---

**Location:** Providence, Rhode Island

**Contractor(s):** Shank Balfour Beatty

**Project Overview:**

Contract 30206C is for the construction of a 16,000 foot tunnel that is 26 feet finished diameter, in bedrock. This contract includes the construction of two 34-foot diameter work shafts, excavation of the tunnel pump station chamber 300 feet below ground and an 11-foot diameter equipment shaft. It also includes a 32-foot diameter utility shaft for the tunnel pump station and a 9-foot diameter drop shaft for overflow 067. The construction will begin near Ernest Street and terminate at Calverly Street.

The tunnel excavated under Contract 30206C will capture combined sewer overflows from wet weather events and will house the tunnel pump station (to be constructed under contract 30214C).

See the Appendix of this document for a diagram of the CSO Main Spine Tunnel and Tunnel Pump Station.

**Reason for Project/Benefits:**

The CSO Abatement Project is a result of a federal mandate requiring clean up of approximately 66 active combined sewer overflows (CSO's), which contribute to the degradation of the Narragansett Bay. During periods of heavy rain, the flow through the combined portions of the NBC's collection system frequently exceeds the capacity of the system. As a result, untreated sewage and stormwater mixture enters rivers and Narragansett Bay. These overflows have been a continual source of pollution in the Upper Narragansett Bay often requiring RIDEM to close parts of the Bay to shell fishing. This CSO Abatement Project would mitigate this problem.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

This contract began in February of 2002. The contractor reports that construction is approximately 52% complete. Approximately 8,525 feet of tunnel has been mined. The tunnel pump station cavern is 100% complete.

# 30206C

## Phase I CSO Facilities - Main Spine Tunnel and Ancillary Facilities

### Total Contract Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	February-02	June-07	66 Months	179,916
<b>Total Contract</b>	<b>February-02</b>	<b>June-07</b>	<b>66 Months</b>	<b>179,916</b>

### Projected Expenditures

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	-	-	-	-	-	-	-
Land	36	-	-	-	-	-	-	-	36
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	109,087	41,698	15,999	250	-	-	-	-	167,035
Contingency	-	-	-	12,845	-	-	-	-	12,845
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>109,123</b>	<b>41,698</b>	<b>15,999</b>	<b>13,095</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>179,916</b>

### Projected Financing

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	6,814	1,200	-	-	-	-	-	-	8,014
Bay Bonds	25	-	-	-	-	-	-	-	25
State Revolving Fund	77,711	12,349	-	-	-	-	-	-	90,060
Revenue Bonds	24,573	3,439	-	-	-	-	-	-	28,012
SRF/Revenue Bonds/Other Capital	-	24,710	15,999	13,096	-	-	-	-	53,805
<b>Total Financing</b>	<b>109,123</b>	<b>41,698</b>	<b>15,999</b>	<b>13,096</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>179,916</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 3020600**  
**Phase I CSO Facilities - Owner Controlled Insurance Program**  
**Project Manager: Ray Marshall, P.E.**

---

**Location:** N/A

**Contractor(s):** Willis of Massachusetts

**Project Overview:**

The construction of the Phase I CSO facilities will be done under ten separate construction contracts. This contract covers the cost for liability insurance, worker's compensation and builder's insurance for all CSO construction projects.

**Reason for Project/Benefits:**

The CSO Abatement Project is a result of a federal mandate requiring clean up of approximately 66 active combined sewer overflows (CSO's), which contribute to the degradation of the Narragansett Bay. During periods of heavy rain, the flow through the combined portions of the NBC's collection system frequently exceeds the capacity of the system. As a result, untreated sewage and stormwater mixture enters rivers and Narragansett Bay. These overflows have been a continual source of pollution in the Upper Narragansett Bay often requiring RIDEM to close parts of the Bay to shell fishing. This CSO Abatement Project would mitigate this problem.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 3020600 is underway. The last payment on this contract is scheduled for February 2007.

3020600

**Phase I CSO Facilities - Owner Controlled Insurance Program**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Contract Insurance	December-01	February-07	64 Months	14,371
<b>Total Contract</b>	<b>December-01</b>	<b>February-07</b>	<b>64 Months</b>	<b>14,371</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	-	-	-	-	-	-	-
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	11,050	1,871	1,451	-	-	-	-	-	14,371
<b>Total Project Costs</b>	<b>11,050</b>	<b>1,871</b>	<b>1,451</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>14,371</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	8,098	-	-	-	-	-	-	-	8,098
Revenue Bonds	2,953	644	-	-	-	-	-	-	3,597
SRF/Revenue Bonds/Other Capital	-	1,227	1,451	-	-	-	-	-	2,677
<b>Total Financing</b>	<b>11,051</b>	<b>1,871</b>	<b>1,451</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>14,372</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30207C**  
**Phase I CSO Facilities - Preparation of Work shaft Site Termination**  
**Project Manager: Rich Bernier, P.E.**

---

**Location:** Providence, Rhode Island

**Contractor(s):** Fleet Environmental Services

**Project Overview:**

Contract 30207C is for the demolition of buildings at the site of the tunnel termination work shaft on Calvery Street in Providence. Demolition has been completed.

**Reason for Project/Benefits:**

The CSO Abatement Project is a result of a federal mandate requiring clean up of approximately 66 active combined sewer overflows (CSO's), which contribute to the degradation of the Narragansett Bay. During periods of heavy rain, the flow through the combined portions of the NBC's collection system frequently exceeds the capacity of the system. As a result, untreated sewage and stormwater mixture enters rivers and Narragansett Bay. These overflows have been a continual source of pollution in the Upper Narragansett Bay often requiring RIDEM to close parts of the Bay to shell fishing. This CSO Abatement Project would mitigate this problem.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30207C has been completed.

# 30207C

## Phase I CSO Facilities - Preparation of Workshaft Site Termination

### Total Contract Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	December-02	April-03	5 Months	193
<b>Total Contract</b>	<b>December-02</b>	<b>April-03</b>	<b>5 Months</b>	<b>193</b>

### Projected Expenditures

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	-	-	-	-	-	-	-
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	193	-	-	-	-	-	-	-	193
<b>Total Project Costs</b>	<b>193</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>193</b>

### Projected Financing

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	193	-	-	-	-	-	-	-	193
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	-	-	-	-	-	-	-	-	-
<b>Total Financing</b>	<b>193</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>193</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30208C**  
**Phase I CSO Facilities - Overflows 004/061**  
**Project Manager: Rich Bernier, P.E.**

---

**Location:** Providence, Rhode Island

**Contractor(s):** RP Iannuccillo & Sons, Inc.

**Project Overview:**

Contract 30208C is for the construction of one (1) drop shaft to the tunnel, associated gate and screening structure, diversion chambers and consolidation piping for overflows 004/061. The work will be conducted in Allens Avenue, between Henderson and Public Streets.

See the Appendix of this document for a diagram of a CSO drop shaft.

**Reason for Project/Benefits:**

The CSO Abatement Project is a result of a federal mandate requiring clean up of approximately 66 active combined sewer overflows (CSO's), which contribute to the degradation of the Narragansett Bay. During periods of heavy rain, the flow through the combined portions of the NBC's collection system frequently exceeds the capacity of the system. As a result, untreated sewage and stormwater mixture enters rivers and Narragansett Bay. These overflows have been a continual source of pollution in the Upper Narragansett Bay often requiring RIDEM to close parts of the Bay to shell fishing. This CSO Abatement Project would mitigate this problem.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30208C has been completed.

**30208C**  
**Phase I CSO Facilities - Overflows 004/061**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	August-02	November-04	28 Months	8,397
<b>Total Contract</b>	<b>August-02</b>	<b>November-04</b>	<b>28 Months</b>	<b>8,397</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	-	-	-	-	-	-	-
Land	72	-	-	-	-	-	-	-	72
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	8,325	-	-	-	-	-	-	-	8,325
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>8,397</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>8,397</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	72	-	-	-	-	-	-	-	72
State Revolving Fund	5,355	-	-	-	-	-	-	-	5,355
Revenue Bonds	2,970	-	-	-	-	-	-	-	2,970
SRF/Revenue Bonds/Other Capital	-	-	-	-	-	-	-	-	-
<b>Total Financing</b>	<b>8,397</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>8,397</b>

Note: Cash Flow Basis in Thousands (\$00's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses



**Contract 30209C**  
**Phase I CSO Facilities - Overflow 009 and Emergency Overflow Structure**  
**Project Manager: Rich Bernier, P.E.**

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**Location:** Providence, Rhode Island

**Contractor(s):** Barletta Heavy Division

**Project Overview:**

Contract 30209C is for the construction of one (1) drop shaft to the tunnel, the associated gate and screening structure, diversion chamber and consolidation piping. Overflow 009 will be diverted to the drop shaft, which will also serve as the emergency overflow structure for the tunnel. The work will be conducted in the vicinity of Dyer Street.

See the Appendix of this document for a diagram of a CSO drop shaft.

**Reason for Project/Benefits:**

The CSO Abatement Project is a result of a federal mandate requiring clean up of approximately 66 active combined sewer overflows (CSO's), which contribute to the degradation of the Narragansett Bay. During periods of heavy rain, the flow through the combined portions of the NBC's collection system frequently exceeds the capacity of the system. As a result, untreated sewage and stormwater mixture enters rivers and Narragansett Bay. These overflows have been a continual source of pollution in the Upper Narragansett Bay often requiring RIDEM to close parts of the Bay to shell fishing. This CSO Abatement Project would mitigate this problem.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30209C has been completed.

30209C

Phase I CSO Facilities - Overflow 009 and Emergency Overflow Structure

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	November-03	February-05	16 Months	5,491
<b>Total Contract</b>	<b>November-03</b>	<b>February-05</b>	<b>16 Months</b>	<b>5,491</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	-	-	-	-	-	-	-
Land	492	-	-	-	-	-	-	-	492
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	4,431	-	-	-	-	-	-	-	4,431
Contingency	568	-	-	-	-	-	-	-	568
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>5,491</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5,491</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	492	-	-	-	-	-	-	-	492
State Revolving Fund	2,746	-	-	-	-	-	-	-	2,746
Revenue Bonds	2,253	-	-	-	-	-	-	-	2,253
SRF/Revenue Bonds/Other Capital	-	-	-	-	-	-	-	-	-
<b>Total Financing</b>	<b>5,491</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5,491</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30210C**  
**Phase I CSO Facilities - Overflow 032**  
**Project Manager: Rich Bernier, P.E.**

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**Location:** Providence, Rhode Island

**Contractor(s):** Modern Continental

**Project Overview:**

Contract 30210C is for the construction of one (1) drop shaft to the tunnel, associated gate and screening structure, and diversion chamber and consolidation piping for overflow 032. The work will be conducted in Charles Street, from Ashburton Street to south of Orms Street.

See the Appendix of this document for a diagram of a CSO drop shaft.

**Reason for Project/Benefits:**

The CSO Abatement Project is a result of a federal mandate requiring clean up of approximately 66 active combined sewer overflows (CSO's), which contribute to the degradation of the Narragansett Bay. During periods of heavy rain, the flow through the combined portions of the NBC's collection system frequently exceeds the capacity of the system. As a result, untreated sewage and stormwater mixture enters rivers and Narragansett Bay. These overflows have been a continual source of pollution in the Upper Narragansett Bay often requiring RIDEM to close parts of the Bay to shell fishing. This CSO Abatement Project would mitigate this problem.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30210C is underway and scheduled to be completed in August 2005.

**30210C**  
**Phase I CSO Facilities - Overflow 032**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	February-04	August-05	19 Months	10,433
<b>Total Contract</b>	<b>February-04</b>	<b>August-05</b>	<b>19 Months</b>	<b>10,433</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	-	-	-	-	-	-	-
Land	336	-	-	-	-	-	-	-	336
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	8,489	1,608	-	-	-	-	-	-	10,097
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>8,825</b>	<b>1,608</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>10,433</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	18	-	-	-	-	-	-	-	18
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	8,489	1,608	-	-	-	-	-	-	10,097
SRF/Revenue Bonds/Other Capital	318	-	-	-	-	-	-	-	318
<b>Total Financing</b>	<b>8,825</b>	<b>1,608</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>10,433</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30211C**  
**Phase I CSO Facilities - Woonasquatucket Interceptor Relief**  
**Project Manager: Rich Bernier, P.E.**

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**Location:** Providence, Rhode Island

**Contractor(s):** Walsh Construction

**Project Overview:**

Contract 30211C is for the construction of one (1) drop shaft to the tunnel, the associated gate and screening structure, and diversion chamber and consolidation piping. This project will provide relief of the Woonasquatucket River Interceptor to the tunnel. It will relieve surcharging in this interceptor and reduce upstream overflows that will not be eliminated until Phase II of the CSO program. This work will take place at the intersection of Promenade Street and Bath Street.

See the Appendix of this document for a diagram of a CSO drop shaft.

**Reason for Project/Benefits:**

The CSO Abatement Project is a result of a federal mandate requiring clean up of approximately 66 active combined sewer overflows (CSO's), which contribute to the degradation of the Narragansett Bay. During periods of heavy rain, the flow through the combined portions of the NBC's collection system frequently exceeds the capacity of the system. As a result, untreated sewage and stormwater mixture enters rivers and Narragansett Bay. These overflows have been a continual source of pollution in the Upper Narragansett Bay often requiring RIDEM to close parts of the Bay to shell fishing. This CSO Abatement Project would mitigate this problem.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30211C is underway and scheduled to be completed in August 2005.

**30211C**  
**Phase I CSO Facilities - Woonasquatucket Interceptor Relief**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	July-03	August-05	26 Months	6,165
<b>Total Contract</b>	<b>July-03</b>	<b>August-05</b>	<b>26 Months</b>	<b>6,165</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	-	-	-	-	-	-	-
Land	713	21	-	-	-	-	-	-	734
A/E Professional	-	-	-	-	-	-	-	-	-
Construction *	4,909	522	-	-	-	-	-	-	5,431
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>5,622</b>	<b>543</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>6,165</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	675	-	-	-	-	-	-	-	675
State Revolving Fund	458	-	-	-	-	-	-	-	458
Revenue Bonds	4,489	543	-	-	-	-	-	-	5,032
SRF/Revenue Bonds/Other Capital	-	-	-	-	-	-	-	-	-
<b>Total Financing</b>	<b>5,622</b>	<b>543</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>6,165</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30213C**  
**Phase I CSO Facilities - Regulator Modifications**  
**Project Manager: Rich Bernier, P.E.**

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**Location:** Providence, Rhode Island

**Contractor(s):** N/A

**Project Overview:**

Contract 30213C involves construction of modifications to the regulator structures at overflows 012, 013, 016, 042, 043 and 044. These modifications will allow these overflows to be diverted to existing interceptors. This work will take place along the Woonasquatucket River, South Water Street and Market Square.

**Reason for Project/Benefits:**

The CSO Abatement Project is a result of a federal mandate requiring clean up of approximately 66 active combined sewer overflows (CSO's), which contribute to the degradation of the Narragansett Bay. During periods of heavy rain, the flow through the combined portions of the NBC's collection system frequently exceeds the capacity of the system. As a result, untreated sewage and stormwater mixture enters rivers and Narragansett Bay. These overflows have been a continual source of pollution in the Upper Narragansett Bay often requiring RIDEM to close parts of the Bay to shell fishing. This CSO Abatement Project would mitigate this problem.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30213C is scheduled to begin in December 2005.

**30213C**  
**Phase I CSO Facilities - Regulator Modifications**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	December-05	June-07	19 Months	1,573
<b>Total Contract</b>	<b>December-05</b>	<b>June-07</b>	<b>19 Months</b>	<b>1,573</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	-	-	-	-	-	-	-
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	465	922	44	-	-	-	-	1,430
Contingency	-	-	143	-	-	-	-	-	143
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>-</b>	<b>465</b>	<b>1,065</b>	<b>44</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,573</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	-	465	1,065	44	-	-	-	-	1,573
<b>Total Financing</b>	<b>-</b>	<b>465</b>	<b>1,065</b>	<b>44</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,573</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses



**Contract 30214C**  
**Phase I CSO Facilities - Tunnel Pump Station Fit-out and Start-up**  
**Project Manager: Rich Bernier, P.E.**

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**Location:** Providence, Rhode Island

**Contractor(s):** N/A

**Project Overview:**

Contract 30214C includes construction necessary to complete the tunnel pump station. This includes installation of pumps, piping and all other necessary mechanical equipment into the tunnel pump station chamber, which will be excavated under Contract 30206C. Also included in this contract is the installation of a screen at shaft S-1, the tunnel pump station above ground building force main, and screening building. The instrumentation and controls for all the Phase I facilities and startup of the facilities will also be done under this contract. The pump station will be located near Ernest and Ellis Streets.

Contract 30214C also includes work previously planned under Contract 30212C. This work includes the construction a tunnel, gate and screening structure, diversion chamber and consolidation piping for Overflow 067. This work will be conducted at Ernest Street.

See the Appendix of this document for a diagram of the CSO Main Spine Tunnel and Tunnel Pump Station.

**Reason for Project/Benefits:**

The CSO Abatement Project is a result of a federal mandate requiring clean up of approximately 66 active combined sewer overflows (CSO's), which contribute to the degradation of the Narragansett Bay. During periods of heavy rain, the flow through the combined portions of the NBC's collection system frequently exceeds the capacity of the system. As a result, untreated sewage and stormwater mixture enters rivers and Narragansett Bay. These overflows have been a continual source of pollution in the Upper Narragansett Bay often requiring RIDEM to close parts of the Bay to shell fishing. This CSO Abatement Project would mitigate this problem.

**Impact on NBC Operating Budget:**

The addition of the tunnel pump station will create sludge disposal, grit removal and utility costs. Current estimates put these costs at \$600,000 per year.

**Status of Capital Project:**

Contract 30214C is scheduled to begin in July 2005.

# 30214C

## Phase I CSO Facilities - Tunnel Pump Station Fitout and Startup & Overflow 067

### Total Contract Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	July-05	November-08	42 Months	59,604
<b>Total Contract</b>	<b>July-05</b>	<b>November-08</b>	<b>42 Months</b>	<b>59,604</b>

### Projected Expenditures

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	-	-	-	-	-	-	-
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	9,500	20,000	20,000	4,685	-	-	-	54,185
Contingency	-	-	-	-	5,419	-	-	-	5,419
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>-</b>	<b>9,500</b>	<b>20,000</b>	<b>20,000</b>	<b>10,104</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>59,604</b>

### Projected Financing

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	1,000	-	-	-	-	-	-	1,000
SRF/Revenue Bonds/Other Capital	-	8,500	20,000	20,000	10,104	-	-	-	58,604
<b>Total Financing</b>	<b>-</b>	<b>9,500</b>	<b>20,000</b>	<b>20,000</b>	<b>10,104</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>59,604</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30215C**  
**Phase I CSO Facilities - Overflows 006/007**  
**Project Manager: Rich Bernier, P.E.**

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**Location:** Providence, Rhode Island

**Contractor(s):** Barletta Heavy Division

**Project Overview:**

Contract 30215C is for the construction of one (1) drop shaft to the tunnel, associated gate and screening structure, diversion chambers and consolidation piping for overflows 006/007.

See the Appendix of this document for a diagram of a CSO drop shaft.

**Reason for Project/Benefits:**

The CSO Abatement Project is a result of a federal mandate requiring clean up of approximately 66 active combined sewer overflows (CSO's), which contribute to the degradation of the Narragansett Bay. During periods of heavy rain, the flow through the combined portions of the NBC's collection system frequently exceeds the capacity of the system. As a result, untreated sewage and stormwater mixture enters rivers and Narragansett Bay. These overflows have been a continual source of pollution in the Upper Narragansett Bay often requiring RIDEM to close parts of the Bay to shell fishing. This CSO Abatement Project would mitigate this problem.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

Contract 30215C has been completed.

**30215C**  
**Phase I CSO Facilities - Overflows 006/007**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	February-03	February-05	25 Months	10,332
<b>Total Contract</b>	<b>February-03</b>	<b>February-05</b>	<b>25 Months</b>	<b>10,332</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	-	-	-	-	-	-	-
Land	548	-	-	-	-	-	-	-	548
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	8,881	-	-	-	-	-	-	-	8,881
Contingency	903	-	-	-	-	-	-	-	903
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>10,332</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>10,332</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	404	-	-	-	-	-	-	-	404
State Revolving Fund	6,201	-	-	-	-	-	-	-	6,201
Revenue Bonds	3,727	-	-	-	-	-	-	-	3,727
SRF/Revenue Bonds/Other Capital	-	-	-	-	-	-	-	-	-
<b>Total Financing</b>	<b>10,332</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>10,332</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**Contract 30220C**  
**Phase I CSO Facilities - RIDOT Land Acquisition**  
**Project Manager: Rich Bernier, P.E.**

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**Location:** Providence, Rhode Island

**Contractor(s):** E.W. Burman

**Project Overview:**

Contract 30220C is for design and construction assistance for the Rhode Island Department of Transportation's (RIDOT's) new facilities in exchange for transfer of ownership of the Calverly St. site to NBC. A work shaft will be constructed at the northern end of the main spine tunnel on the Caverly St. location (formerly home of RIDOT maintenance facilities).

**Reason for Project/Benefits:**

The CSO Abatement Project is a result of a federal mandate requiring clean up of approximately 66 active combined sewer overflows (CSO's), which contribute to the degradation of the Narragansett Bay. During periods of heavy rain, the flow through the combined portions of the NBC's collection system frequently exceeds the capacity of the system. As a result, untreated sewage and stormwater mixture enters rivers and Narragansett Bay. These overflows have been a continual source of pollution in the Upper Narragansett Bay often requiring RIDEM to close parts of the Bay to shell fishing. This CSO Abatement Project would mitigate this problem.

**Impact on NBC Operating Budget:**

Upon completion of Contract 30220C, NBC will be responsible for any utility bills at any remaining buildings at the Caverly St. site. Currently, all utilities are suspended; no utility costs are being incurred.

**Status of Capital Project:**

Contract 30220C has been completed.

**30220C**  
**Phase I CSO Facilities - CSO Land Acquisition (RIDOT)**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	April-01	June-04	39 Months	3,000
<b>Total Contract</b>	<b>April-01</b>	<b>June-04</b>	<b>39 Months</b>	<b>3,000</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	-	-	-	-	-	-	-
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	3,000	-	-	-	-	-	-	-	3,000
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>3,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,000</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	3,000	-	-	-	-	-	-	-	3,000
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	-	-	-	-	-	-	-	-	-
<b>Total Financing</b>	<b>3,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,000</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

**CSO Administration**  
**Phase I CSO Facilities – CSO Construction Staff/Police Detail/Legal Costs**  
**Project Manager: N/A**

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**Location:** N/A

**Contractor(s):** N/A

**Project Overview:**

CSO Administration represents cost estimates per year for administration costs incurred by the NBC staff that works on the various CSO construction contracts. Administration costs included salary and fringe, police detail, legal and reimbursement costs.

**Reason for Project/Benefits:**

The CSO Abatement Project is a result of a federal mandate requiring clean up of approximately 66 active combined sewer overflows (CSO's), which contribute to the degradation of the Narragansett Bay. During periods of heavy rain, the flow through the combined portions of the NBC's collection system frequently exceeds the capacity of the system. As a result, untreated sewage and stormwater mixture enters rivers and Narragansett Bay. These overflows have been a continual source of pollution in the Upper Narragansett Bay often requiring RIDEM to close parts of the Bay to shell fishing. This CSO Abatement Project would mitigate this problem.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

CSO Administration costs will continue until Phase I is completed.

**CSO Admin**  
**CSO Construction Staff/Police Detail/Legal Costs**

**Total Contract Duration/Cost**

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	June-01	December-08	92 Months	3,382
<b>Total Contract</b>	<b>June-01</b>	<b>December-08</b>	<b>92 Months</b>	<b>3,382</b>

**Projected Expenditures**

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	1,822	446	446	446	222	-	-	-	3,382
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
<b>Total Project Costs</b>	<b>1,822</b>	<b>446</b>	<b>446</b>	<b>446</b>	<b>222</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,382</b>

**Projected Financing**

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	160	-	-	-	-	-	-	-	160
State Revolving Fund	978	-	-	-	-	-	-	-	978
Revenue Bonds	684	149	-	-	-	-	-	-	833
SRF/Revenue Bonds/Other Capital	-	297	446	446	222	-	-	-	1,411
<b>Total Financing</b>	<b>1,822</b>	<b>446</b>	<b>446</b>	<b>446</b>	<b>222</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,382</b>

Note: Cash Flow Basis in Thousands (000's)

<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses



**CSO Phase II  
CSO Phase II Facilities  
Project Manager: Tom Brueckner**

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**Location:** N/A

**Contractor(s):** N/A

**Project Overview:**

This is the second of three phases for the NBC's Combined Sewer Overflow Project. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the Seekonk and Woonasquatucket Rivers to the Main Spine Tunnel constructed in Phase I. The Woonasquatucket Interceptor would be 19,150 feet long and the Seekonk CSO Interceptor would be 11,200 feet long.

**Reason for Project/Benefits:**

The CSO Abatement Project is a result of a federal mandate requiring clean up of approximately 66 active combined sewer overflows (CSO's), which contribute to the degradation of the Narragansett Bay. During periods of heavy rain, the flow through the combined portions of the NBC's collection system frequently exceeds the capacity of the system. As a result, untreated sewage and stormwater mixture enters rivers and Narragansett Bay. These overflows have been a continual source of pollution in the Upper Narragansett Bay often requiring RIDEM to close parts of the Bay to shell fishing. This CSO Abatement Project would mitigate this problem.

**Impact on NBC Operating Budget:**

None

**Status of Capital Project:**

CSO Phase II design is scheduled to begin in January 2008.

## CSO Phase II CSO Phase II Facilities

### Total Contract Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Duration	Cost
Planning	N/A	N/A	N/A	N/A
Design	January-08	January-10	25 Months	7,316
Construction	February-10	August-14	56 Months	157,456
<b>Total Contract</b>	<b>January-08</b>	<b>August-14</b>	<b>81 Months</b>	<b>164,772</b>

### Projected Expenditures

Cost Category	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Administrative <sup>1</sup>	-	-	-	-	-	-	194	1,472	1,666
Land	-	-	-	-	-	1,407	1,970	-	3,378
A/E Professional	-	-	-	1,756	3,512	2,049	-	-	7,316
Construction	-	-	-	-	-	-	13,809	104,947	118,756
Contingency	-	-	-	-	-	-	-	11,876	11,876
Other	-	-	-	-	-	-	2,533	19,247	21,780
<b>Total Project Costs</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,756</b>	<b>3,512</b>	<b>3,456</b>	<b>18,505</b>	<b>137,542</b>	<b>164,772</b>

### Projected Financing

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Post-FY 2011	Total
Grants	-	-	-	-	-	-	-	-	-
Bay Bonds	-	-	-	-	-	-	-	-	-
State Revolving Fund	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
SRF/Revenue Bonds/Other Capital	-	-	-	1,756	3,512	3,456	18,506	137,543	164,772
<b>Total Financing</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,756</b>	<b>3,512</b>	<b>3,456</b>	<b>18,506</b>	<b>137,543</b>	<b>164,772</b>

Note: Cash Flow Basis in Thousands (000's)

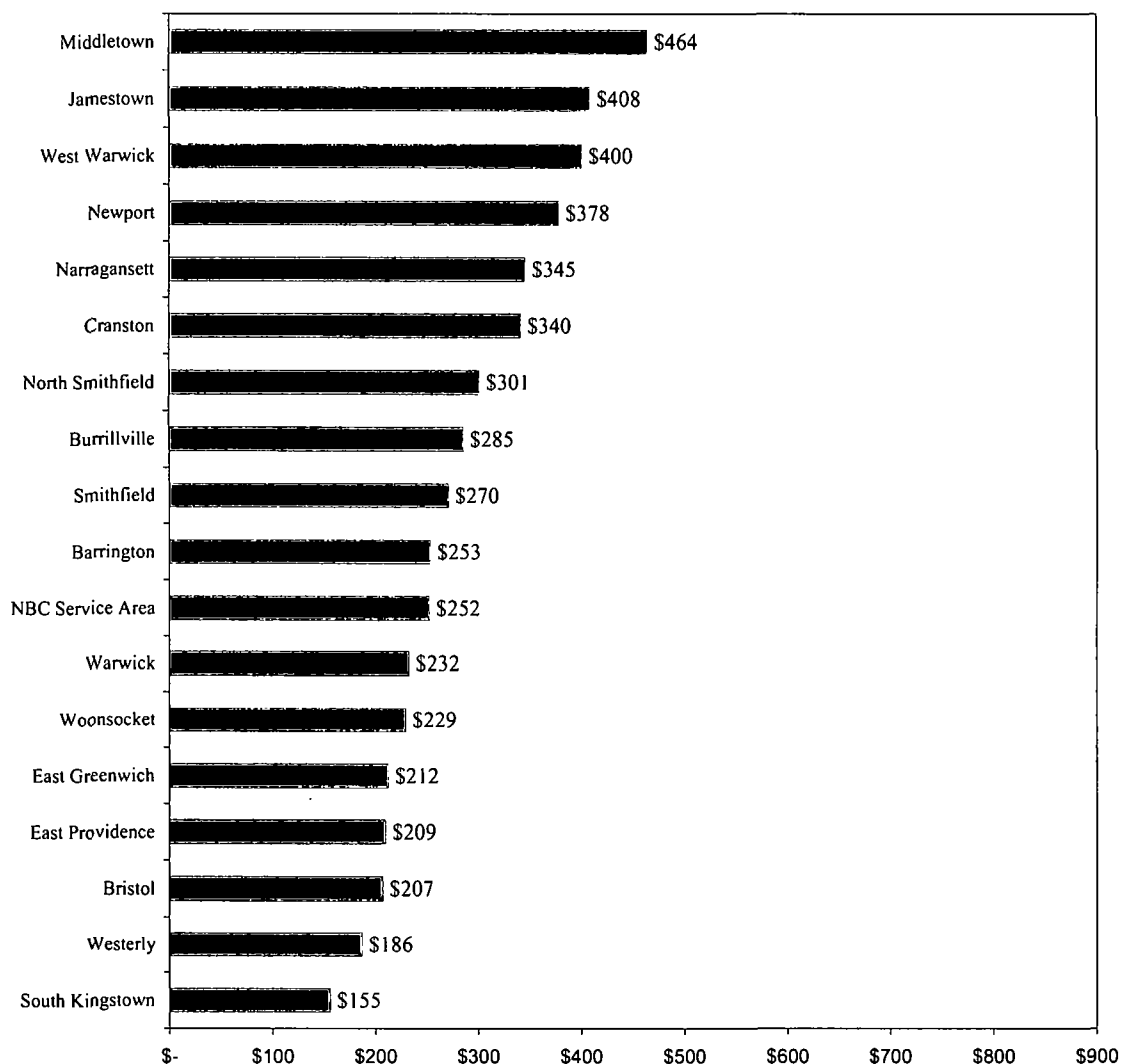
<sup>1</sup> Administrative Costs include Labor, Police Detail, Advertising and Legal Expenses

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## APPENDIX

## Annual Residential Sewer Charges Rhode Island Cities & Towns

The survey shown below, conducted by the Narragansett Bay Commission (NBC) in 2004, compares the annual residential sewer charges for Rhode Island Cities and Towns. The survey shows NBC, with its current fee structure, ranks 8<sup>th</sup> lowest in the state.



**Source: 2004 Narragansett Bay Commission Residential Sewer User Survey**

**Notes:**

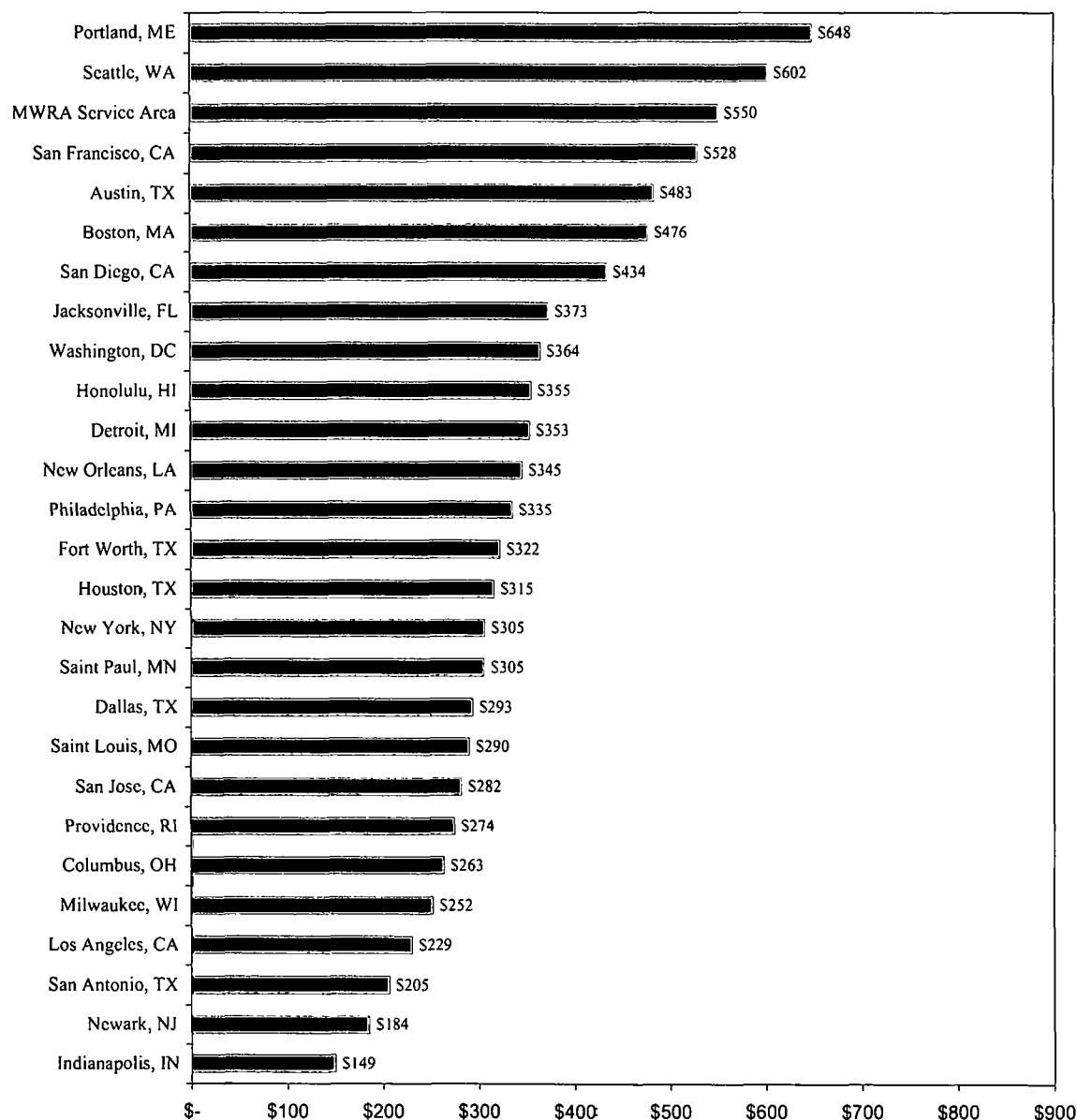
In this survey, all Annual Residential Sewer charges are based on 97.6 HCF.

Warren's sewer costs are built into municipal taxes and therefore do not appear on this chart.

The average 2004 Annual Residential Sewer User Fee for Rhode Island Cities and Towns is \$285.

## Annual Residential Sewer Charges for Major U.S. Cities

The survey shown below, conducted by the Massachusetts Water Resource Authority (MWRA) in 2004, compares the annual residential sewer charges for major U.S. cities. The survey shows NBC, with its 2004 sewer fee structure, ranks 7th lowest in the country.



**Source: 2004 MWRA Water & Sewer Retail Rate Survey**

**Notes:**

MWRA bases their Annual Sewer Retail Rates on 120 HCF (approximately 12,000 cubic feet or 90,000 gallons) whereas NBC bases its Annual Sewer Retail Rate on 97.6 HCF. The adjustment has been made to accurately compare these rates.

The average 2004 Annual Residential Sewer User Fee for Major U.S. Cities is \$352.

# Capital Project Cost Summary

Project Number	Project Name	Project Rating	Pre-Fiscal Year 2006	Fiscal Year 2006	Fiscal Years 2007 - 2011	Post-Fiscal Year 2011	Total Estimated Project Cost
<b>Wastewater Treatment Facility Improvements</b>							
10302D	Demolition of Field's Point Incinerating Facility - Design	1	14	79	-	-	93
10302C	Demolition of Field's Point Incinerating Facility - Construction	1	-	674	-	-	674
10901P	FPWWTF - Nitrogen Removal Facilities - Planning	4	535	77	-	-	611
10901D	FPWWTF - Nitrogen Removal Facilities - Design	2	-	1,106	943	-	2,049
10901C	FPWWTF - Nitrogen Removal Facilities - Construction	2	-	-	33,120	-	33,120
1100000	Site Specific Study	1	211	240	-	-	451
1140100	River Model Development	1	42	63	63	-	167
11500D	Asset Management - Design	1	-	500	1,300	-	1,800
1160000	Improvements to Air Piping and Splitter Box D	1	-	158	289	-	447
1170000	Upgrade of the Operations Building and Other Misc. Improvements	1	-	71	872	-	943
80700C	BPWWTF CSO Facilities and Other Improvements	4	60,973	3,291	336	-	64,600
80800C	BPWWTF - Repairs and Improvements to the Chlorine Building and Digester Complex	3	-	770	-	-	770
80900P	BPWWTF - Nitrogen Removal Facilities - Planning	1	-	-	225	-	225
80900D	BPWWTF - Nitrogen Removal Facilities - Design	1	-	-	1,030	-	1,030
80900C	BPWWTF - Nitrogen Removal Facilities - Construction	1	-	-	15,642	-	15,642
Subtotal - Wastewater Treatment Facility Improvements			\$ 61,775	\$ 7,028	\$ 53,820	\$ -	\$ 122,622
<b>Phase I CSO Facilities</b>							
<b>Phase I CSO Design</b>							
30203D	Phase I CSO Facilities - Design	4	\$ 14,846	\$ -	\$ -	\$ -	\$ 14,846
Subtotal - Phase I CSO Design			\$ 14,846	\$ -	\$ -	\$ -	\$ 14,846
<b>Phase I CSO Construction</b>							
30203RS	Phase I CSO Facilities - Program Management and Construction Management	4	\$ 21,398	\$ 4,835	\$ 4,017	\$ -	\$ 30,250
30204C	Phase I CSO Facilities - Moshassuck River Interceptor Relief	5	5,950	-	-	-	5,950
30205C	Phase I CSO Facilities - Floatables Control Demonstration Facility	5	1,012	-	-	-	1,012
30206C	Phase I CSO Facilities - Main Spine Tunnel and Ancillary Facilities	4	109,123	41,698	29,094	-	179,916
3020600	Phase I CSO Facilities - Owner Controlled Insurance Program	4	11,050	1,871	1,451	-	14,371
30207C	Phase I CSO Facilities - Preparation of Workshaft Site Termination	5	193	-	-	-	193
30208C	Phase I CSO Facilities - Overflows 004/061	4	8,397	-	-	-	8,397
30209C	Phase I CSO Facilities - Overflow 009 and Emergency Overflow Structure	4	5,491	-	-	-	5,491
30210C	Phase I CSO Facilities - Overflow 032	4	8,825	1,608	-	-	10,433
30211C	Phase I CSO Facilities - Woonasquatucket Interceptor Relief	4	5,622	543	-	-	6,165
30213C	Phase I CSO Facilities - Regulator Modifications	2	-	465	1,108	-	1,573
30214C	Phase I CSO Facilities - Tunnel Pump Station Fitout and Startup	3	-	9,500	50,104	-	59,604
30215C	Phase I CSO Facilities - Overflows 006/007	4	10,332	-	-	-	10,332
30220C	Phase I CSO Facilities - CSO Land Acquisition (RIDOT)	5	3,000	-	-	-	3,000
CSO Admin	CSO Construction Staff/Police Detail/Legal Costs	4	1,822	446	1,114	-	3,382
Subtotal - Phase I CSO Construction			\$ 192,214	\$ 60,966	\$ 86,888	\$ -	\$ 340,068
<b>Phase II CSO Facilities</b>							
Phase II CSO	Phase II CSO Facilities	2	\$ -	\$ -	\$ 27,229	\$ 137,542	\$ 164,772
Subtotal - Phase II CSO Facilities			\$ -	\$ -	\$ 27,229	\$ 137,542	\$ 164,772

# Capital Project Cost Summary

Project Number	Project Name	Project Rating	Pre-Fiscal Year 2006	Fiscal Year 2006	Fiscal Years 2007 - 2011	Post-Fiscal Year 2011	Total Estimated Project Cost
<b><u>Sewer System Improvement Projects</u></b>							
3022100	CSO Flow and Water Quality Monitoring	4	\$ 762	\$ 324	\$ 205	\$ -	\$ 1,291
30424P	CMOM Plan Development	4	173	137	-	-	310
30410P	NBC System-Wide Facilities Plan	4	415	1,046	249	-	1,710
70400C	Rehabilitation of Washington Highway and Omega Pump Stations - Construction	2	297	2,129	6,221	-	8,646
9030100	Geographic Information System Implementation	3	899	239	-	-	1,139
9070000	HVAC Lab Repairs	1	56	285	-	-	341
Subtotal - Sewer System Improvements			<u>\$ 2,602</u>	<u>\$ 4,159</u>	<u>\$ 6,675</u>	<u>\$ -</u>	<u>\$ 13,437</u>
<b><u>Floatables Control Facilities Projects</u></b>							
30600D	Floatables Control Facilities - Design	1	-	333	99	-	432
30600C	Floatables Control Facilities - Construction	1	26	1,891	1,891	-	3,808
Subtotal - Floatables Control Facilities Projects			<u>\$ 26</u>	<u>\$ 2,224</u>	<u>\$ 1,990</u>	<u>\$ -</u>	<u>\$ 4,240</u>
<b><u>CSO Interceptor Inspection and Cleaning Projects</u></b>							
30400M	Inspection and Cleaning of CSO Interceptors		\$ 204	\$ 81	\$ 145	\$ -	\$ 430
30419M	Pleasant Valley Parkway Interceptor Cleaning & Inspection	4	-	-	300	-	300
30420M	Moshassuck Valley Interceptor Cleaning & Inspection	4	53	97	-	-	150
30425M	Louisisset & Moshassuck Valley Interceptor Cleaning	4	281	145	-	-	425
30426M	Branch Ave & Douglas Pike Interceptor Cleaning	4	150	221	-	-	371
30427M	Various Interceptor Connector Pipe Cleaning & Inspection	1	53	97	-	-	150
30428M	South Providence-Elmwood Interceptor Relief Pipe Cleaning & Inspection	1	2	232	1	-	235
30429M	Johnston South and North Interceptors Cleaning & Inspection	1	-	178	-	-	178
30430M	Woonasquatucket Interceptor along Route 10 Cleaning & Inspection	1	-	187	-	-	187
30431M	Allens Avenue Interceptor from the Mall to the Pump Station Cleaning & Inspection	1	-	349	56	-	405
30432M	Blackstone Valley and Washington Highway Interceptors Cleaning & Inspection	1	-	110	442	-	552
30433M	Woonasquatucket Interceptor Smith Street to Manton Avenue Cleaning & Inspection	1	-	14	89	-	103
30434M	Seckonk River Interceptor from Tenth Street to India Street Cleaning & Inspection	1	-	-	545	-	545
30435M	East Providence Interceptor Cleaning & Inspection	1	-	-	126	-	126
30436M	Johnston North & South Interceptors Interceptor Cleaning & Inspection	1	-	-	243	-	243
Subtotal - CSO Interceptor Inspection and Cleaning Projects			<u>\$ 743</u>	<u>\$ 1,711</u>	<u>\$ 1,947</u>	<u>\$ -</u>	<u>\$ 4,400</u>
<b><u>CSO Interceptor Repair and Construction Projects</u></b>							
30400C	Repair and Construction of CSO Interceptors		\$ 1,106	\$ 1,177	\$ 9,232	\$ -	\$ 11,515
30409C	Burrington Street and Grotto Brook Sewer Repairs - Construction	4	-	654	748	-	1,402
30414C	Replace Harold St. Connector Pipe	4	177	234	-	-	411
30416D	Elmwood Interceptor Repairs - Design	1	-	108	-	-	108
30416C	Elmwood Interceptor Repairs - Construction	1	-	-	1,680	-	1,680
30417D	India St. Siphon Gate House Replacement - Design	4	33	13	-	-	46
30417C	India St. Siphon Gate House Replacement - Construction	1	-	460	-	-	460
30421P	Louisissett Pike Interceptor Replacement - Planning	1	11	60	-	-	70
30421D	Louisissett Pike Interceptor Replacement- Design	1	-	-	80	-	80
30421C	Louisissett Pike Interceptor Replacement- Construction	1	-	-	670	-	670
30423D	BVI Odor Control Facilities - Design	1	45	73	-	-	118
30423C	BVI Odor Control Facilities - Construction	1	21	293	-	-	314
Subtotal - CSO Interceptor Repair and Construction Projects			<u>\$ 1,393</u>	<u>\$ 3,071</u>	<u>\$ 12,410</u>	<u>\$ -</u>	<u>\$ 16,874</u>
<b>Total Capital Improvement Program</b>			<u>\$ 273,599</u>	<u>\$ 79,159</u>	<u>\$ 190,959</u>	<u>\$ 137,542</u>	<u>\$ 681,259</u>



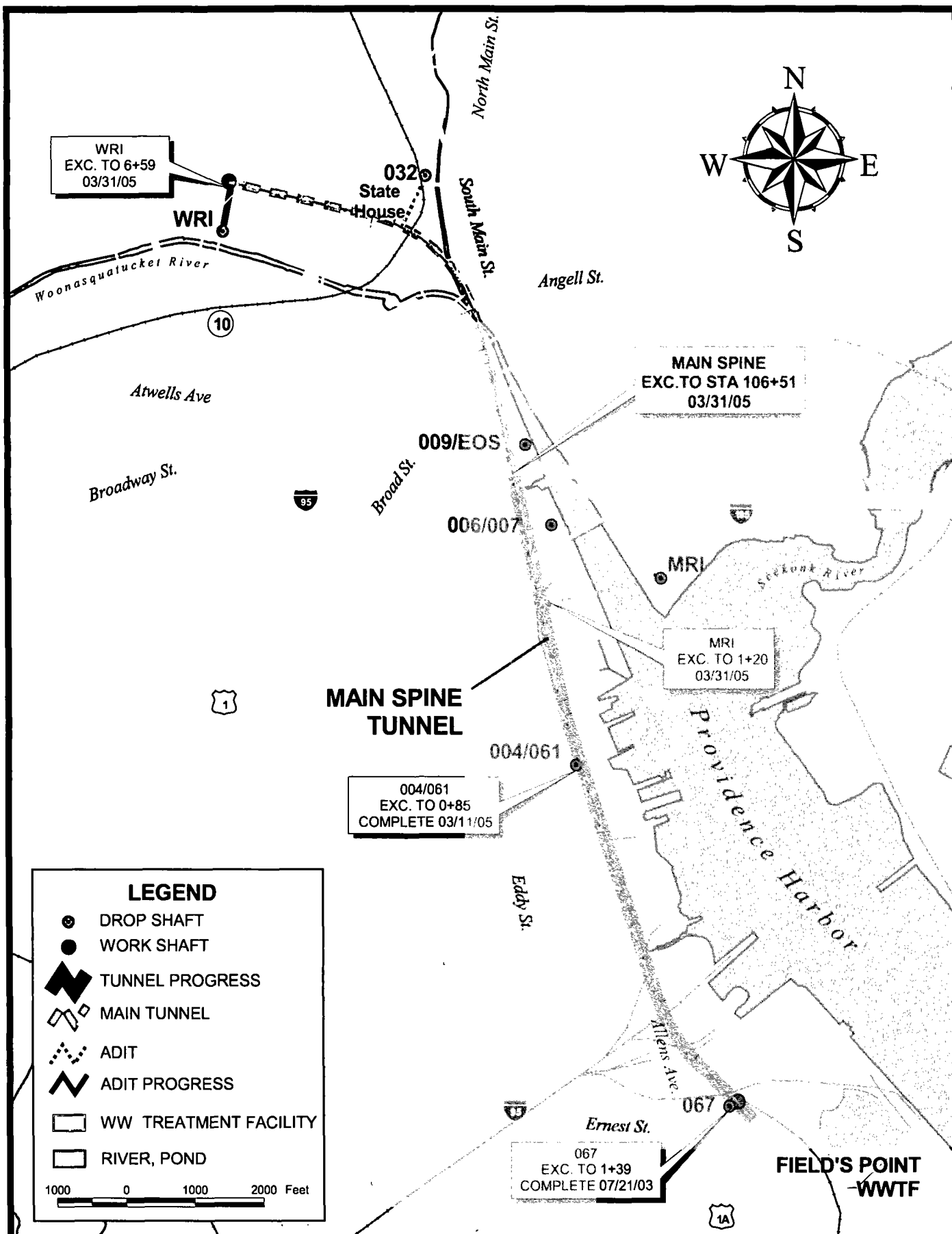
# Capital Project Summary FY 2007 - FY 2011

## Projected Expenditures

Project Costs	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2007-2011	Post-FY 2011	Total
Administrative	6,465	2,360	1,372	1,082	752	690	334	4,230	1,472	14,528
Land	3,632	31	10	10	10	1,417	1,970	3,418	-	7,081
A/E Professional	36,752	9,036	5,866	3,686	4,392	2,489	80	16,512	-	62,300
Construction	211,481	65,137	48,129	38,250	23,515	11,230	16,769	137,893	104,947	519,458
Contingency	1,710	536	666	13,775	8,654	235	1,332	24,662	11,876	38,783
Other	13,559	2,060	1,566	79	34	33	2,533	4,245	19,247	39,110
<b>Total Project Costs</b>	<b>273,599</b>	<b>79,159</b>	<b>57,610</b>	<b>56,882</b>	<b>37,356</b>	<b>16,094</b>	<b>23,017</b>	<b>190,959</b>	<b>137,542</b>	<b>681,259</b>

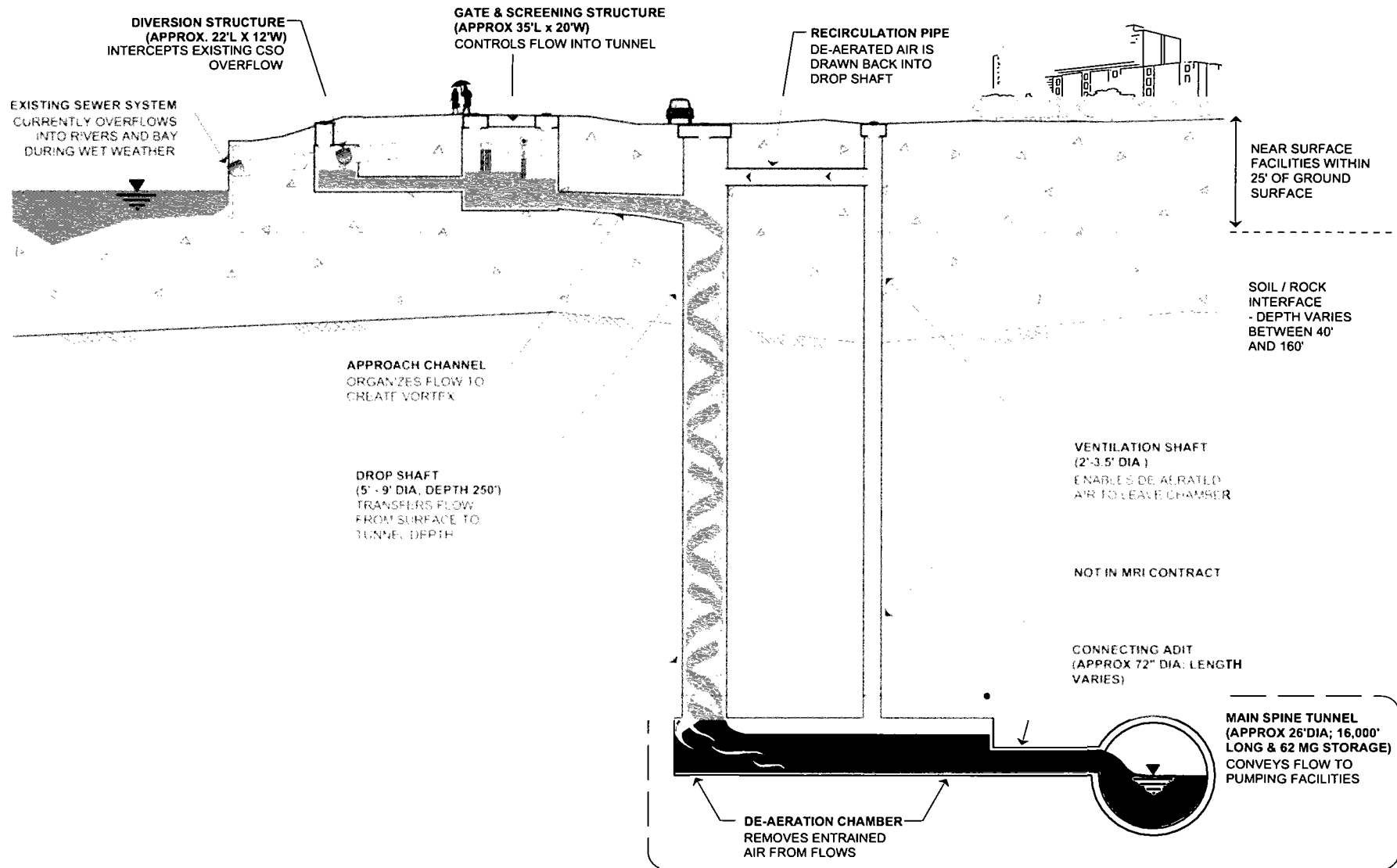
## Projected Financing

Financing	Pre-FY 2006	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2007-2011	Post-FY 2011	Total
Grants	7,814	1,200	-	-	-	-	-	-	-	9,014
Bay Bonds	20,542	-	-	-	-	-	-	-	-	20,542
State Revolving Fund	178,926	15,634	-	-	-	-	-	-	-	194,560
Revenue Bonds	59,192	10,024	-	-	-	-	-	-	-	69,217
SRF/Revenue Bonds/Other Capital	7,125	52,301	57,607	56,883	37,357	16,094	23,018	190,958	137,543	387,927
<b>Total Financing</b>	<b>273,599</b>	<b>79,159</b>	<b>57,610</b>	<b>56,882</b>	<b>37,356</b>	<b>16,094</b>	<b>23,017</b>	<b>190,959</b>	<b>137,542</b>	<b>681,259</b>

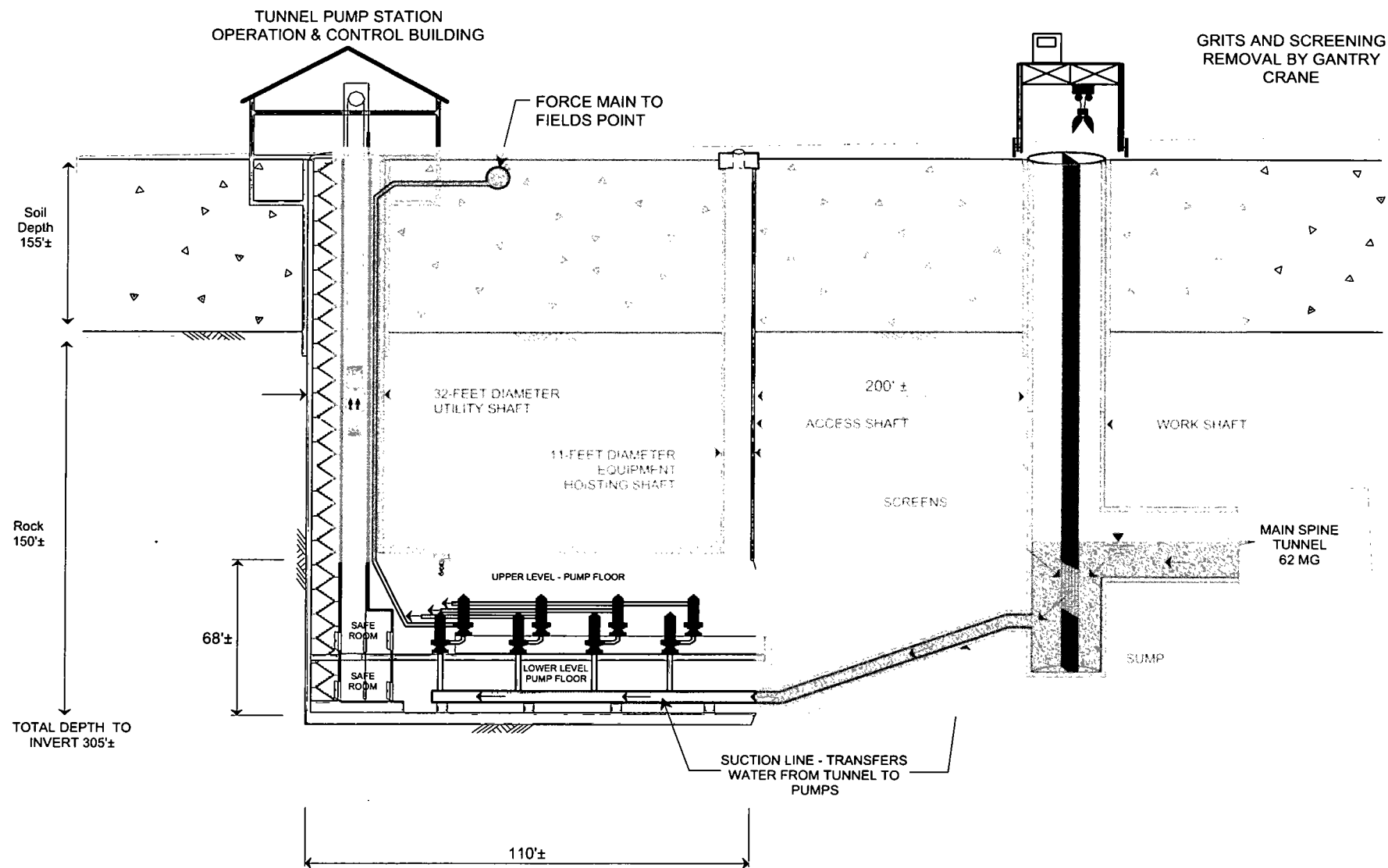


## CSO TUNNEL CONSTRUCTION PROGRESS

# CSO Drop Shaft

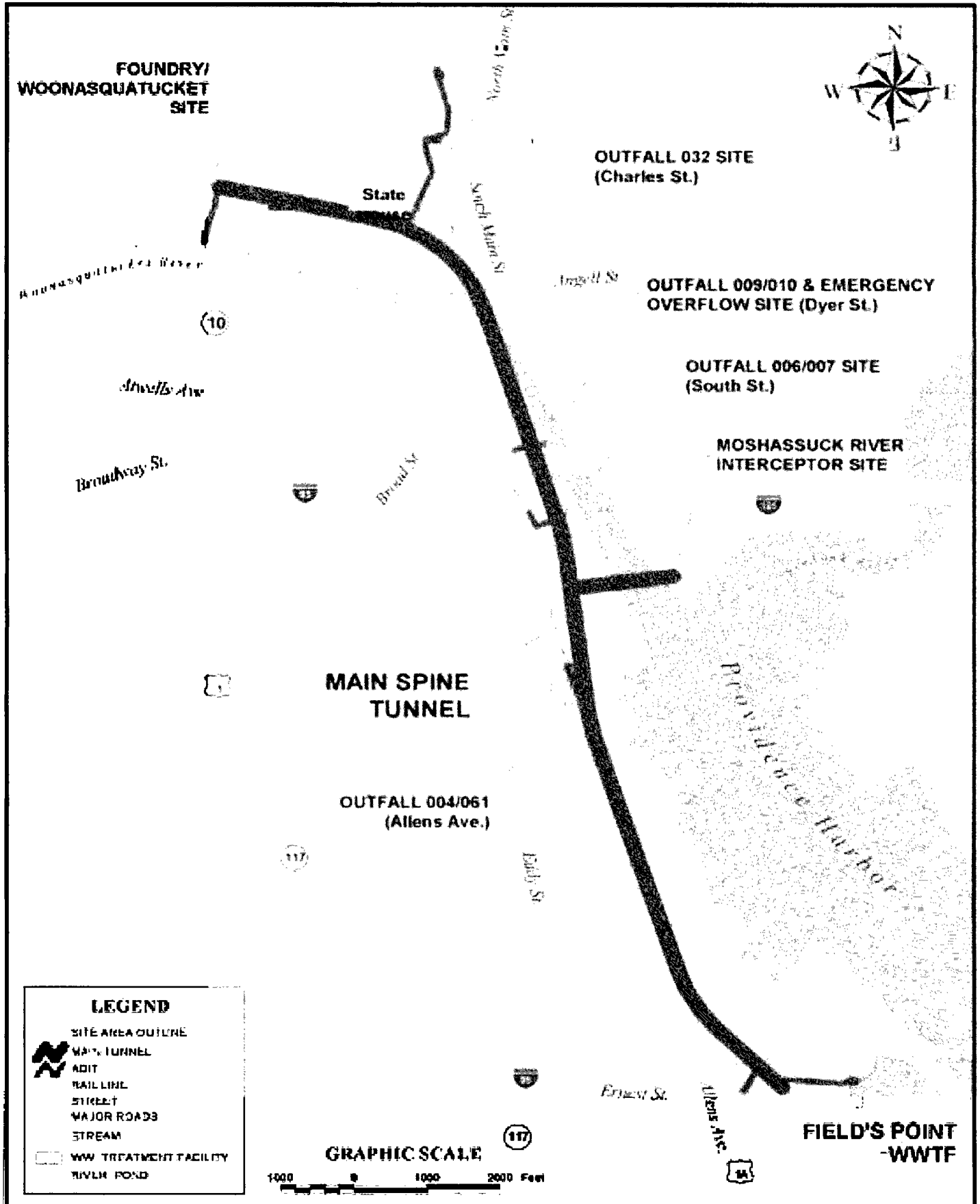
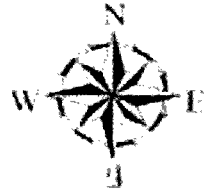


# CSO Main Spine Tunnel and Tunnel Pump Station





# CSO Location Diagram – Phase I





## Glossary of Terms

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**Abatement** - Refund to users who can demonstrate that more than 15% of water consumed does not enter the sewer system.

**Biochemical Oxygen Demand (BOD)** - An indicator of how much oxygen is being consumed by sewage. The greater the BOD the greater the degree of pollution. Sewage robs oxygen from the receiving waters.

**Biosolids** - The solids (heavy organic waste matter) resulting from the wastewater treatment process. This material is separated from the effluent, treated and disposed.

**Bond** - A certificate of debt containing a promise to pay a specified sum of money (face value or principal) at a specified date or dates in the future (maturity date) together with periodic interest at a specified rate.

**Operating Budget** - A plan of financial operation embodying an estimate of proposed expenditures for a given period and the proposed means of financing them.

**Capital Budget** - A plan of proposed outlays for acquiring long-term assets and the means of financing those acquisitions during the current fiscal period.

**Capital Improvement Program** - A plan for capital expenditures to be incurred each year over a fixed period of five years to meet capital needs arising from the long-term work program. It sets forth each project and specifies the full resources estimated to be available to finance the projected expenditures.

**Combined Sewers** - Sewer systems in which the storm water and sanitary waste from industrial, commercial or residential sources are combined. A benefit is that non-point pollution flushed from the watershed during moderate rain is treated, but the system can be overwhelmed during severe storms, resulting in untreated waste being flushed into the receiving waters as a combined sewer overflow (CSO).

**Combined Sewer Overflows (CSO)** - Areas along Rhode Island Rivers where combined sewers containing sewage and stormwater overflow during significant rain events.

**Debt Service** - Payment of interest and repayment of principal to holders of the debt instruments.

**Debt Service Coverage** - A measure of NBC's ability to meet debt service payments. The numerator is Net Revenue, and the denominator is current annual debt service. Rating agencies look favorably on an average allowance of at least of twenty-five percent on all debt.

**Diversion chamber** - A chamber or box, which contains a device for diverting or drawing off all or part of a flow or for discharging portions of the total flow to various outlets.

**Effluent** - The “cleaned” wastewater, or final liquid by-product of the wastewater treatment process, flowing out a treatment facility.

**Expenditures** - The amount of money, cash or checks, actually paid or obligated for payment from the operating account.

**Financing Plan** - The estimate of revenues and their sources that will pay for the service programs outlined in the annual budget.

**Fiscal Year** - The twelve-month financial period used by the Narragansett Bay Commission, which begins July 1, and ends June 30, of the following calendar year. The year is represented by the date of which it ends. Example: July 1, 2000 to June 30, 2001 is FY01.

**Flow meter** - A meter, which measures the flow of water, effluent or influent.

**Force main** - A sewer line fed by a lift station; carries pumped wastewater to a point where other pumps or gravity can take over.

**Grant** - A contribution of assets by one governmental unit or other organization to another. Typically, these contributions are made to local governments from the state and federal government. Grants are usually made for specific purposes.

**Grit chambers** - The grit chambers slow the moving water long enough for the grit, gravel and sand to fall to the bottom. This is one of the primary treatment steps to physically remove large particles before biological treatment begins.

**Incineration** - The process of destroying solids through burning.

**Infiltration** - The seepage of groundwater into a sewer system, including service connections. Seepage frequently occurs through defective or cracked pipes, pipe joints and connections, interceptor access risers and covers, or manhole walls.

**Inflow** - Water discharged into a sewer system and service connections from sources other than regular connections. This includes flow from yard drains, foundation drains and around manhole covers. Inflow differs from infiltration in that it is a direct discharge into the sewer rather than a leak in the sewer itself.

**Influent** - Water as it flows into the treatment plant.

**Interceptor** - A large sewer that receives flow from several smaller sewers and conveys flow to a sewage treatment plant.



**Mgd** - Abbreviation for million gallons per day.

**Mg/L** - Abbreviation for milligrams per liter. 1 mg/L can also be expressed as 1 part per million.

**N/A** - The information is not available or not applicable.

**Nutrient** - An organic or inorganic compound essential for growth of organisms.

**Operating Budget** - See budget (operating).

**Outfall** - A discrete location where quantities of water and/or waste are discharged into lakes, streams or oceans, generally through a pipe.

**Overflow** - Sewage flow that discharges directly from a sewer into a receiving water because the total sewage flow is greater than the capacity of the sewer.

**Pump station** - A facility that conveys sewage through the sewer system using mechanized force.

**Program** - Collections of work-related activities initiated to accomplish a desired end.

**Pump station** - Installation of pumps to lift wastewater to a higher elevation in places where flat land would require excessively deep sewer trenches. Also used to raise wastewater from areas too low to drain into available collection lines. These stations may be equipped with air-operated ejectors or centrifugal pumps.

**Rate filing** - An adjustment to NBC's user fee rates, which is filed with the Public Utilities Commission for their approval.

**Rating Agencies** - This term usually refers to Moody's Investors Service, Standard and Poor's Corporation, and Fitch IBCA, Inc. These are the three major agencies, which issue credit ratings on municipal bonds.

**Receiving water** - A body of water such as a stream, river, lake, or ocean, which receives storm water and wastewater.

**Regulator structures** - An underground structure, which regulates the amount of flow entering interceptors.

**Revenue** - Additions to the Commission's financial assets (such as user fees and grants), which do not in themselves, increase the Commission's liabilities or cancel out a previous expenditure. Revenue may also be created by canceling liabilities, provided there is no corresponding decrease in assets or increase in other liabilities.

**RICWFA** - The Rhode Island Clean Water Finance Agency. Administers the State Revolving Fund for projects relating to water and wastewater.

**RIDEM** - The Rhode Island Department of Environmental Management. An environmental regulatory department of the State.

**RIPDES Permit** - Rhode Island Pollution Discharge Elimination System. A permit issued by the Rhode Island Department of Environmental Management which sets forth discharge limitation requirements for wastewater utilities.

**RIPUC** – Rhode Island Public Utilities Commission, which regulates all Public Utilities in the state of Rhode Island.

**Sampling** - The act of taking water samples in order to determine water quality.

**Settling tanks** - A holding area for wastewater, where heavier particles sink to the bottom for removal and disposal.

**Sewer User Fee** - The charges assessed on the users of the sewer system provided by the Narragansett Bay Commission.

**Stormwater runoff** - The portion of rainfall, melted snow or other precipitation that flows across the ground surface to a drain, sewer, stream, lake, pond, or river.

**TSS** - Total suspended solids in wastewater.

**Ultraviolet disinfection** - A disinfection method in which final wastewater effluent is exposed to ultraviolet light to kill pathogens and microorganisms.

**Variable Rate Debt Obligation (VRDO)**. A short-term low cost debt instrument which can be used for interim or “bridge” financing.

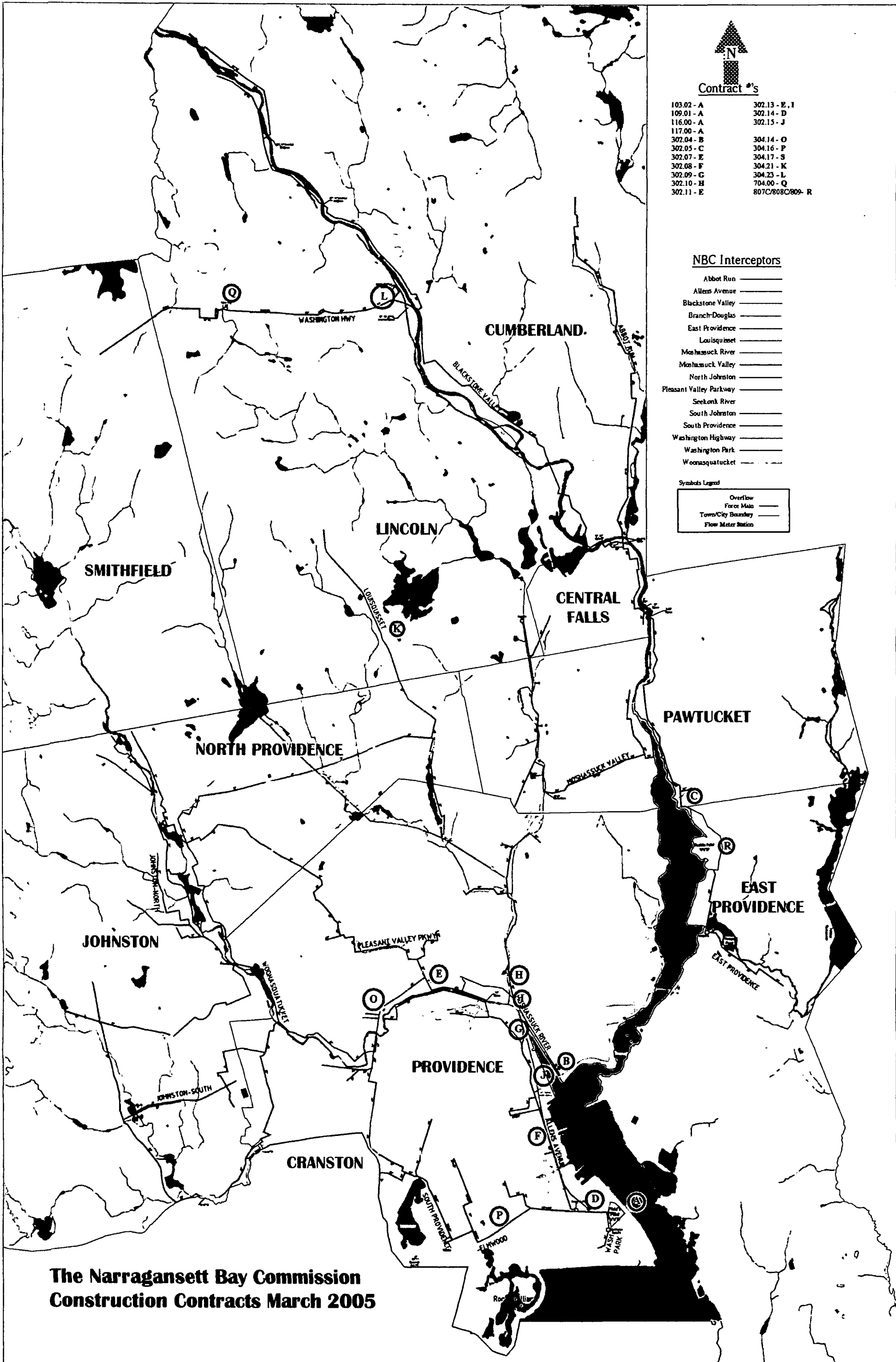
**Wastewater** - The liquid-borne waste products of domestic, industrial, agricultural and manufacturing activities.

**Wastewater Treatment Facility (WWTF)**. A facility used to treat wastewater.

**Wetland** - Any area in which the water table stands near, at, or above the land surface for at least part of the year. Such areas are characterized by plants that are adapted to wet soil conditions.

# Narragansett Bay Commission - Master Debt Service Schedule

BOND/SRF DESCRIPTION	Debt Type		FY2006	FY2007	FY2008	FY2009	FY2010	FY2011
SRF - NO. PROV. \$2.647M	SRF	Principal	147,184	152,667	158,354	164,252	170,371	176,717
		Interest	40,202	34,617	28,825	22,816	16,584	10,119
		Subtotal	187,387	187,284	187,179	187,069	186,955	186,836
SRF - WP/RA - \$3.694	SRF	Principal	189,762	194,487	199,329	204,292	209,378	214,591
		Interest	44,426	39,667	34,789	29,789	24,665	19,414
		Subtotal	234,188	234,154	234,118	234,081	234,043	234,005
SRF - BUTLER - \$1.662M	SRF	Principal	89,109	92,463	95,944	99,556	103,304	107,192
		Interest	28,973	25,555	22,009	18,329	14,511	10,549
		Subtotal	118,082	118,019	117,953	117,885	117,815	117,742
SRF POOL LOAN I - \$14.781M	SRF	Principal	710,250	736,500	763,500	791,750	821,000	851,250
		Interest	332,771	306,229	278,710	250,178	220,590	189,912
		Subtotal	1,043,021	1,042,729	1,042,210	1,041,928	1,041,590	1,041,162
SRF POOL LOAN II - \$17.279M	SRF	Principal	828,824	857,927	888,052	919,234	951,512	984,923
		Interest	366,303	336,837	306,337	274,765	242,085	208,258
		Subtotal	1,195,127	1,194,764	1,194,389	1,193,999	1,193,597	1,193,181
SRF POOL LOAN III - \$8.150M	SRF	Principal	339,246	351,673	364,555	377,909	391,752	406,102
		Interest	235,293	222,702	209,650	196,119	182,093	167,554
		Subtotal	574,539	574,375	574,205	574,028	573,845	573,656
SRF POOL LOAN IV - \$23.955M	SRF	Principal	1,000	1,000	2,155,000	2,120,000	2,300,000	2,125,000
		Interest	845,967	845,932	807,857	732,360	654,303	576,158
		Subtotal	846,967	846,932	2,962,857	2,852,360	2,954,303	2,701,158
SRF POOL LOAN V - \$57M	SRF	Principal	1,250,000	1,500,000	2,750,000	4,000,000	4,215,000	4,200,000
		Interest	1,597,708	1,554,107	1,486,723	1,379,702	1,249,453	1,116,033
		Subtotal	2,847,708	3,054,107	3,744,651	4,047,279	4,047,534	5,316,033
SRF POOL LOAN VI - \$57M	SRF	Principal	2,314,606	2,376,105	2,439,238	2,504,048	2,570,581	2,638,881
		Interest	811,217	774,196	736,191	697,176	657,124	616,009
		Subtotal	3,125,823	3,150,301	3,175,429	3,201,224	3,227,705	3,254,890
SRF POOL LOAN VII - \$40M	SRF	Principal	1,708,000	1,725,000	1,745,000	1,768,000	1,793,000	1,820,000
		Interest	730,877	712,247	691,073	667,265	640,996	612,265
		Subtotal	2,438,877	2,437,247	2,436,073	2,435,265	2,433,996	2,432,265
SRF POOL LOAN VIII - \$40M	SRF	Principal	1,980,000	1,719,000	1,240,000	403,000	322,000	484,000
		Interest	460,430	686,903	667,625	656,496	651,206	644,919
		Subtotal	2,440,430	2,405,903	1,907,625	1,059,496	973,206	1,128,919
VRDO - \$70M 2004 Series A	VRDO	Principal	1,365,000	1,415,000	1,455,000	1,515,000	1,565,000	1,620,000
		Interest	2,663,038	2,277,333	2,232,190	2,174,590	2,125,778	2,071,651
		Subtotal	4,028,038	3,692,333	3,687,190	3,689,590	3,690,778	3,691,651
	Totals	Principal	10,922,981	11,121,822	14,253,972	14,867,042	15,412,897	15,628,657
		Interest	8,157,206	7,816,326	7,501,978	7,099,588	6,679,390	6,242,840
		Subtotal	19,080,187	18,938,148	21,755,950	21,966,629	22,092,288	21,871,496
Programmed New Debt	Principle & Interest		3,959,000	6,102,200	7,836,290	10,598,048	12,393,663	13,263,963
Total			23,039,187	25,040,348	29,592,240	32,564,677	34,485,951	35,135,459



**Contract #'s**

103.02 - A	302.13 - E, I
109.01 - A	302.14 - D
116.00 - A	302.15 - J
117.00 - A	
302.04 - B	304.14 - O
302.05 - C	304.16 - P
302.07 - E	304.17 - S
302.08 - F	304.21 - K
302.09 - G	304.23 - L
302.10 - H	704.00 - Q
302.11 - E	807C/808C/809- R

**NBC Interceptors**

- Abbot Run
- Allens Avenue
- Blackstone Valley
- Branch-Douglas
- East Providence
- Louisquisset
- Moshassuck River
- Moshassuck Valley
- North Johnston
- Pleasant Valley Parkway
- Seekonk River
- South Johnston
- South Providence
- Washington Highway
- Washington Park
- Woonasquatucket

**Symbols Legend**

Overflow	_____
Force Main	_____
Town/City Boundary	_____
Flow Meter Station	_____

**The Narragansett Bay Commission  
Construction Contracts March 2005**

2004-2008 7000-2000

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2001-2001

2001-2001



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