



NARRAGANSETT BAY COMMISSION

CAPITAL IMPROVEMENT PROGRAM

FISCAL
YEARS
2014-2018

Vincent J. Mesolella,
Chairman

Raymond J. Marshall, P.E.,
Executive Director



Capital Project Cost Summary
(Capital Projects with Costs in Fiscal Years 2014-2018)

Page Number	Project Number	Project Name	Fiscal Years 2014-2018 (in thousands)
<u>Wastewater Treatment Facility Improvements</u>			
27	10901C	FPWWTF - Nitrogen Removal Facilities - Construction	\$ 9,710
29	11900C	Regulatory Compliance Building - Construction	18,231
30	12000C	BPWWTF - Biogas Reuse - Construction	2,649
31	12100C	FPWWTF - Wind Turbine - Construction	453
32	12400D	New IM Facilities - Design	548
32	12400C	New IM Facilities - Construction	6,052
33	12500C	Utility Reliability Enhancement for FP Campus	575
34	80900C	BPWWTF - Nitrogen Removal Facilities- Construction	13,043
Subtotal - Wastewater Treatment Facility Improvements			51,260
<u>Infrastructure Management</u>			
37	1100000	Site Specific Study	246
40	30438C	Interceptor Easements - Construction	612
41	30500D	NBC Interceptor Easements - Design	2,935
41	30500C	NBC Interceptor Easements - Construction	2,497
42	30501C	Interceptor Easements - NBC BVI Construction	730
43	30700	NBC System-wide Facilities Planning	1,372
Subtotal - Infrastructure Management			8,392
<u>Phase II CSO Facilities</u>			
Phase II Facilities - Design			
47	30301D	Phase II CSO Facilities - Design	122
Subtotal - Phase II CSO Facilities - Design			122
Phase II CSO Facilities - Construction			
48	30301RS	Phase II CSO Facilities - Program & Construction Management	21,422
49	30302C	Phase II CSO Facilities - OF 106	3,419
50	30303C	Phase II CSO Facilities - WCSOI Main	60,998
51	30304C	Phase II CSO Facilities - SCSOI Main	24,181
52	30305C	Phase II CSO Facilities - OF 027	2,049
53	30306C	Phase II CSO Facilities - OF 037 West	1,472
54	30307C	Phase II CSO Facilities - OF 037 South	12,502
55	30308C	Phase II CSO Facilities - OF 037 North	12,502
57	30310C	Phase II CSO Facilities - WCSOI North	55
58	30311C	Phase II CSO Facilities - WCSOI West	437
59	30312C	Phase II CSO Facilities - SCSOI Regulator	1,095
60	30313C	Phase II CSO Facilities - WCSOI Site Demolition	12
61	30314C	Phase II CSO Facilities - WCSOI OF 054	50
Subtotal - Phase II CSO Facilities - Construction			140,193
<u>Phase III CSO Facilities</u>			
65	30800D	Phase III CSO Facilities - Design	37,012
65	30800C	Phase III CSO Facilities - Construction	39,725
Subtotal - Phase III CSO Facilities			76,737
<u>Floatables Control Facilities</u>			
69	30600C	Floatables Control Facilities - Construction	210
Subtotal - Floatables Control Facilities			210
<u>CSO Interceptor Inspection and Cleaning</u>			
73	30400M	Inspection and Cleaning of CSO Interceptors	2,500
Subtotal - CSO Interceptor Inspection and Cleaning			2,500
<u>CSO Interceptor Repair and Construction</u>			
74	30400C	Repair and Construction of CSO Interceptors	5,103
75	30421C	Louisquissett Pike Interceptor Replacement - Construction	2,382
76	30444C	Moshassuck Valley Interceptor - Construction	2,371
78	30455C	Improvements to Interceptors FY 2012	370
Subtotal - CSO Interceptor Repair and Construction			10,226
<u>Total Capital Improvement Program</u>			\$ 289,640

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Capital Improvement Program (CIP)

The Capital Improvement Program

The Narragansett Bay Commission’s Capital Improvement Program (CIP) identifies programmed capital investments necessary to comply with current and future regulatory requirements, take advantage of technological advancements and ensure the integrity of NBC’s infrastructure. The projects, schedules and costs that are included in the CIP have been developed through a planning process that involves NBC’s Engineering and Construction staff and also incorporates the needs identified through NBC’s asset management program. These capital improvements represent projects greater than \$250,000 and are for new facilities as well as the repair and replacement of existing infrastructure. The CIP shows programmed expenditures for fiscal year 2013 as well as the five-year period of fiscal years 2014-2018, which is referred to in this document as the “window.” Structuring the CIP this way also enables NBC’s program to be easily incorporated into the capital budget of the State of Rhode Island.

Capital Improvement Program Overview

This year’s CIP identifies a total of 50 projects that are either in progress, to be initiated or to be completed during the window. Annual capital expenditures are projected to be in excess of \$100 million for FY 2013 and FY 2014 as the NBC continues construction of the Combined Sewer Overflow (CSO) Phase II Facilities, completes the construction of Nitrogen Removal Facilities at Field’s Point and initiates construction of the Nitrogen Removal Facilities at Bucklin Point. Total estimated costs for this year’s CIP window are \$290 million and a total of \$417 million during FY 2013-2018. For planning purposes, the programmed expenditures are classified into cost categories, as shown in the following table.

FY 2014-2018 CIP Costs by Category
(In thousands)

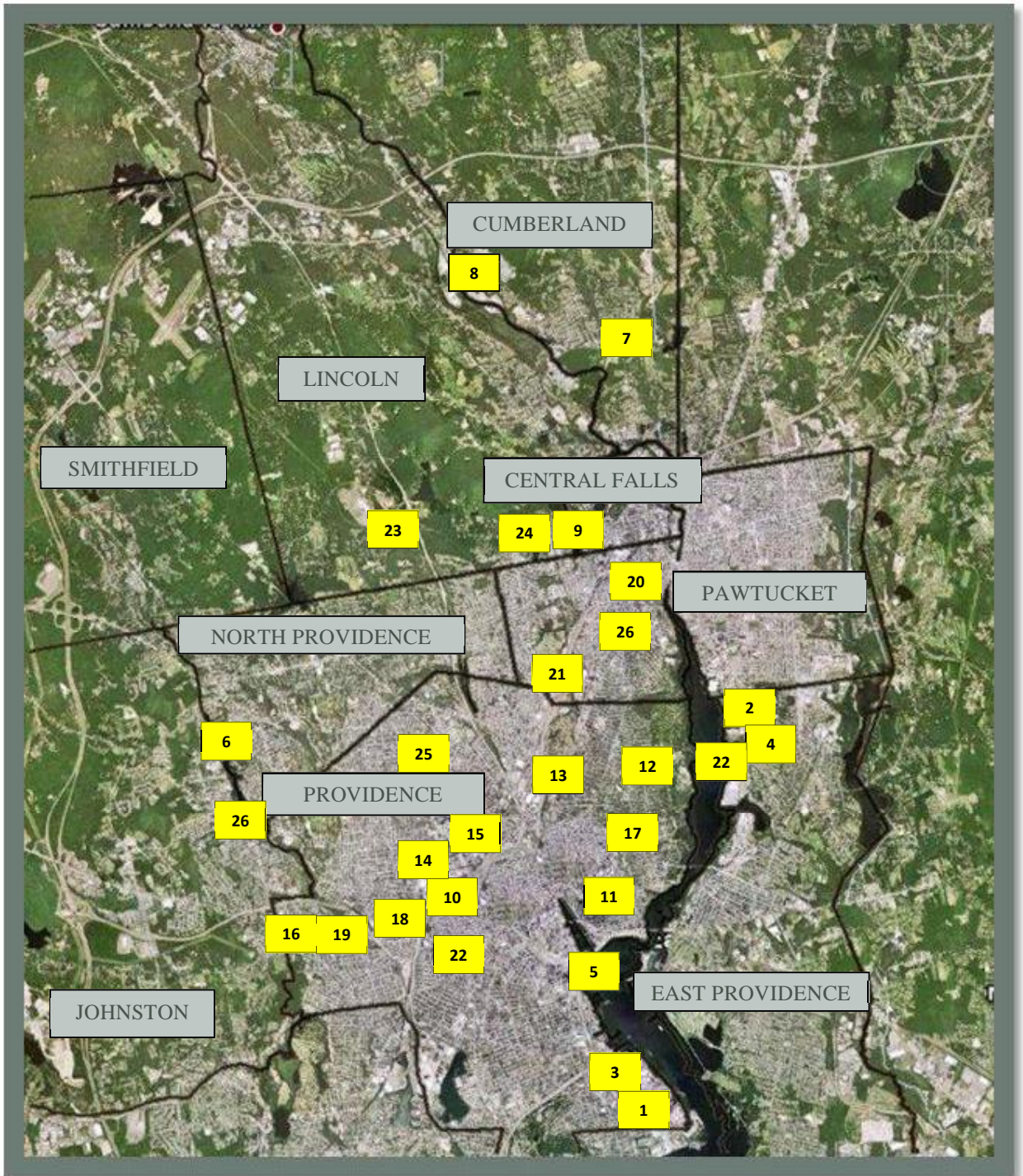
Category	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Total Costs	
							FY 2014-2018	FY 2013-2018
Administrative	\$ 4,676	\$ 3,620	\$ 2,626	\$ 906	\$ 707	\$ 1,311	\$ 9,170	\$ 13,846
Land	6,936	-	500	300	300	4,000	5,100	12,036
A/E Professional	3,880	3,505	1,531	13,087	16,001	10,652	44,775	48,655
Construction	93,537	85,491	36,589	16,591	2,284	27,314	168,269	261,806
Contingency	5,877	12,667	20,254	4,534	234	234	37,923	43,801
Other	11,960	9,361	7,303	802	149	6,789	24,402	36,362
Totals	\$126,865	\$114,643	\$68,803	\$36,220	\$19,675	\$50,300	\$289,640	\$416,505

Capital Improvement Program Project Locations

The capital projects included in this CIP are categorized into seven of the eight areas depending on their scope and phase. The capital projects identified in this year's CIP are shown on the map on the following page. The map highlights 26 project locations as identified in the key below.

Legend Key	Project Number	Project Name
<u>Wastewater Treatment Facility Improvements</u>		
1	10901	FP TF - Nitrogen Removal Facilities
1	11601C	FP TF Pump Replacement
1	11900	Regulatory Compliance Building
2	12000	BP TF - Biogas Reuse
3	12100	FP TF - Wind Turbine
3	12400	NBC IM Facilities
3	12500	Utility Reliability Enhancement for the Field Point Campus
4	80900	BP TF - Nitrogen Removal Facilities
<u>Infrastructure Management</u>		
5	1100000	Site Specific Study
5	1140100	River Model Development
6	30221	Hydraulic Systems Modeling
7	30438	Interceptor Easements - Construction
8	30501	Interceptor Easements - NBC B&I
<u>Phase II CSO Facilities</u>		
9	30302C	Phase II CSO Facilities - OF 106
10	30303C	Phase II CSO Facilities - CSOI Main
11	30404C	Phase II CSO Facilities - SCSOI Main
12	30305C	Phase II CSO Facilities - OF 027
13	30306C	Phase II CSO Facilities - OF 037 West
13	30307C	Phase II CSO Facilities - OF 037 South
13	30308C	Phase II CSO Facilities - OF 037 North
14	30309C	Phase II CSO Facilities - CSOI Regulator
15	30310C	Phase II CSO Facilities - CSOI North
16	30311C	Phase II CSO Facilities - CSOI West
17	30312C	Phase II CSO Facilities - SCSOI Regulator
18	30313C	Phase II CSO Facilities - CSOI Site Remediation
19	30314C	Phase II CSO Facilities - CSOI OF 054
<u>Phase III CSO Facilities</u>		
20	30800	Phase III CSO Facilities
<u>Floating Control Facilities</u>		
21	30600	Floating Control Facilities
<u>CSO Interceptor Inspection and Cleaning</u>		
22	30430M	Woonasquatucket Interceptor along Route 10 Inspection & Cleaning
<u>CSO Interceptor Repair and Construction</u>		
23	30421	Louisquisset Pike Interceptor Replacement
24	30444	Moshassuck Alley Interceptor
25	30454C	Branch Avenue Interceptor Improvement
26	30455C	Improvements to NBC Interceptors FY 2012

CAPITAL IMPROVEMENT PROGRAM PROJECT LOCATIONS



Capital Improvement Program Assumptions

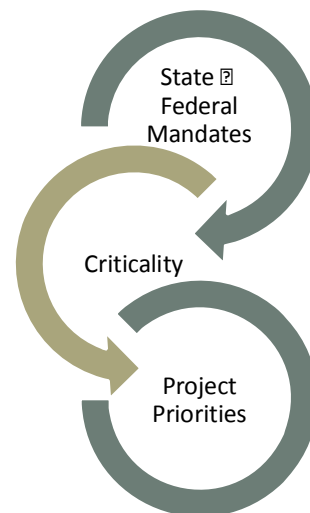
The cost estimates in this CIP are based on a number of assumptions as follows:

- Costs and cash flows are based on engineering estimates as well as bid amounts, once they become available.
- The CIP does not include the operating capital outlay expenses such as plant and equipment required on an annual basis. These expenses are identified in NBC's annual operating budget and are outlined in the five-year Operating Capital Outlay Plan.
- Construction projects include a 12% contingency which reflects recent industry experience related to construction cost factors and may be modified upon receipt of bids. The cost estimates for future design projects includes a 7% allowance for salary and fringe associated with project management, based on historical data.
- Financing costs and debt service associated with new debt for the CIP Program are not included in the CIP expenditures or the project cash flows. Financing costs are capitalized and amortized over the length of the debt payment schedule and debt service is included as an expense in the annual operating budget.

Capital Improvement Program Development

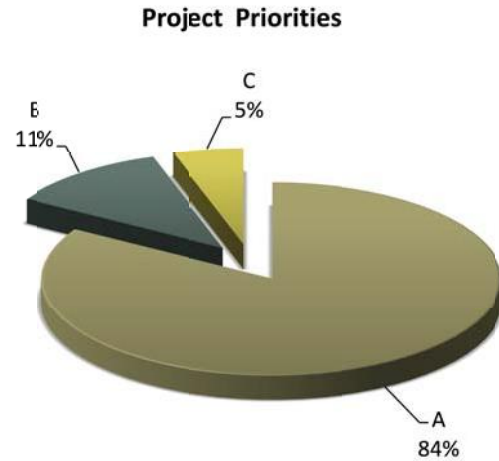
NBC's comprehensive capital improvement planning process incorporates the project's relationship to the strategic plan, program priorities, the permitting process, construction management availability, seasonal considerations, scheduling and other factors. The CIP drives NBC's long-term financing requirements, and therefore the particulars of each project are an essential component of NBC's financial plan. NBC's capital expenditures are expected to remain high over the next two years primarily due to investments required to meet State and Federal mandates for CSO abatement and Biological Nutrient Removal (BNR).

NBC's Project Managers begin the annual CIP process with the development of detailed justifications for each capital project including project scope, basis of the cost estimate and key factors impacting costs and schedules. The Project Managers also explain modifications from the prior year's CIP and the overall project timeline. A chart illustrating the detailed project scheduling can be found in the Appendix at the end of this CIP document. A CIP Review Committee reviews the proposed capital project expenditures. Projects approved for inclusion in the CIP are subsequently analyzed to assess major program changes, overall capital funding needs and the strength of the project's connection to the objectives in NBC's Strategic Plan.



As part of the CIP program development, the criticality of each project is assessed and a priority ranking is assigned based on that assessment. Projects with an “A” ranking are the most critical and are either mandated or currently under construction. Approximately 84% of the projects identified in the window are prioritized with an “A” ranking and total approximately \$242 million.

In addition, 11% or \$33 million of projects are identified with a “B” ranking, which includes projects imperative to NBC’s ongoing operations. Finally, 5% or approximately \$14.5 million of the capital expenditures, are ranked as “C”, which includes projects which are important but not critical to ongoing operations. The following table outlines the programmed expenditures according to each one of the three priority ranking throughout the CIP window.



Estimated Costs by Project Priority
(In thousands)

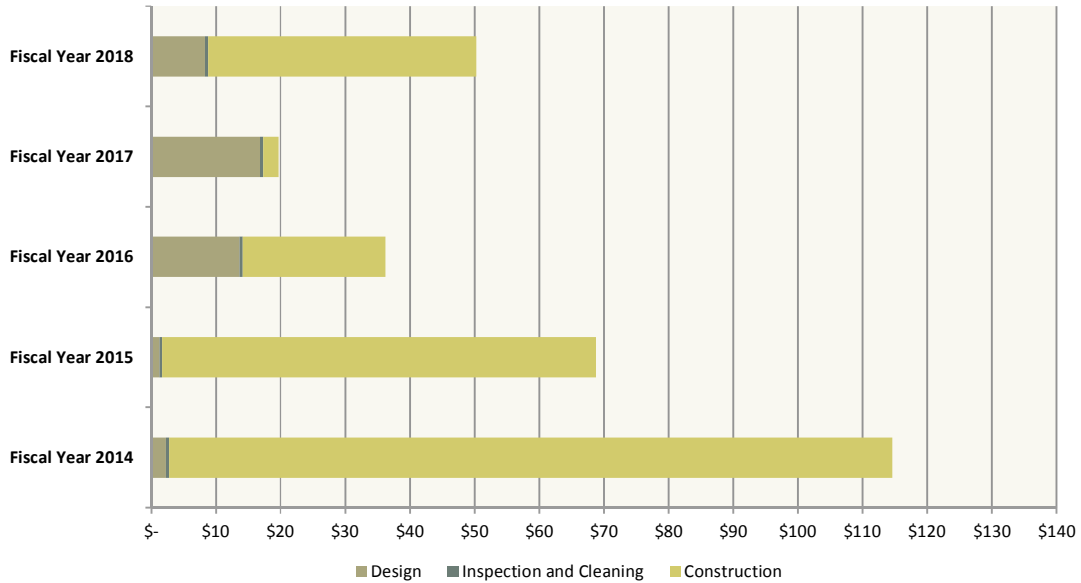
Project Priority	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Total Costs FY 2014-2018	Ranking Percentage
A	\$ 94,895	\$ 51,586	\$ 30,992	\$ 16,476	\$ 48,024	\$ 241,972	84%
B	12,954	10,561	4,278	3,144	2,276	33,213	11%
C	6,794	6,656	950	55	-	14,455	5%
Total Project Costs	\$ 114,643	\$ 68,803	\$ 36,220	\$ 19,675	\$ 50,300	\$ 289,640	100%

Capital Expenditure by Phase

NBC’s large construction projects are delineated by phases, beginning with planning, followed by design and finally construction. Planning consists of tasks such as feasibility studies and mapping. The design phase includes the determination of the intended technology as well as the development of all plans and specifications, acquisition of easements and permits. During the construction phase, facility improvements and infrastructure rehabilitation are constructed. The CIP also includes some programmed capital projects which are not broken down into phases, since they deal with the inspection, cleaning and repair of NBC’s miles of interceptors, or other one-time special studies to maintain the integrity of the NBC’s infrastructure and collection system.

The graph on the following page illustrates the programmed capital expenditures according to the project phase. The construction phase has the largest amount of expenditures during the window, with approximately 85% or \$245 million of the total expenditures. Design is the second largest phase with \$42 million or 15% of the capital expenditures. Finally, inspection and cleaning expenditures are approximately 1% of the total.

Expenditures by Project Phase (In millions)

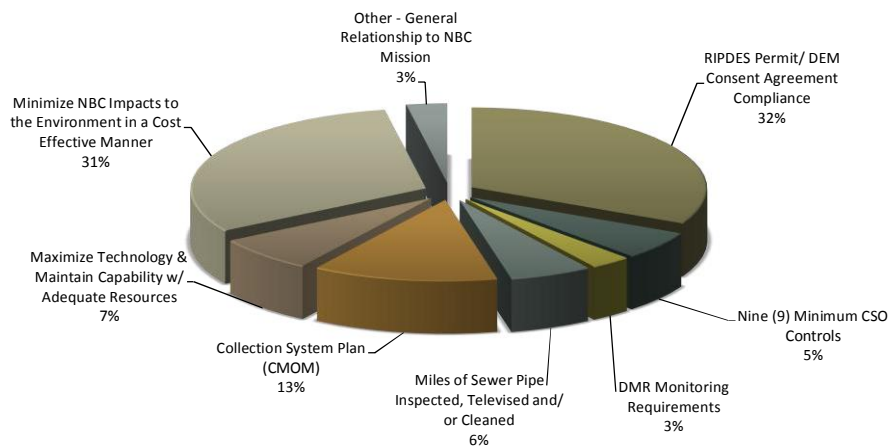


Capital Projects by Strategic Objective

NBC’s Strategic Plan ensures the ability to meet water quality objectives within the constraints of regulatory requirements through achieving short term and long term objectives. As part of the CIP development process, Project Managers determine the specific strategic goal or goals that the project will address. Projects may be aligned with more than one objective as the project may address more than one purpose.

Of the 50 CIP projects, 32% are related to the RIPDES Permit/DEM Consent Agreement Compliance Objective and 31% are to Minimize NBC’s Impacts to the Environment in a Cost Effective Manner. In addition, 13% are related to the Collection System Plan Objective which relates to capacity management and operation and maintenance of NBC’s collection and treatment system. The following chart illustrates the percentage of capital projects aligned with each Strategic Objective.

Percentage of Capital Projects by Strategic Objective



Capital Improvement Program Project Cost Allocation

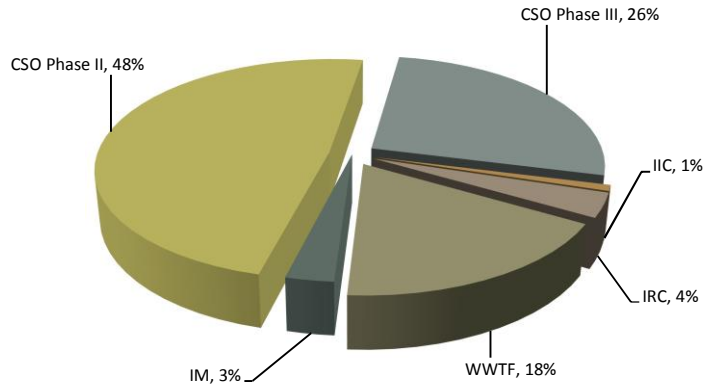
NBC classifies the capital expenditures by categorizing each capital project into one of eight functional areas, according to the scope and tasks involved within each capital project. The eight functional areas are described in the table below.

Allocation of Projects by Functional Area

Functional Area	Definition
Wastewater Treatment Facility Improvements (WWTF)	Projects related to improvements at the NBC's Wastewater Treatment Facilities, including the Nitrogen Removal Facilities.
Infrastructure Management (IM)	Includes Water Quality Modeling, System-wide Facilities Planning and Interceptor Easements.
Combined Sewer Overflow Phase II (CSO Phase II)	Projects related to the CSO Abatement Phase II Facilities.
Combined Sewer Overflow Phase III (CSO Phase III)	Projects related to the CSO Abatement Phase III Facilities.
Sewer System Improvements (SSI)	Projects related to pump station improvements and other sewer system related improvements.
Floatables Control Facilities (FCF)	Includes all CSO Floatables Control Facilities projects.
CSO Interceptor Inspection and Cleaning (IIC)	Includes projects related to interceptor inspection and cleaning.
CSO Interceptor Repair and Construction (IRC)	Includes projects related to interceptor repair and maintenance.

The following graph shows the allocation of capital expenditures according to the functional area classification. Of the approximately \$290 million in capital expenditures scheduled over this year's CIP window, \$140 million, or 48%, is for Phase II of the CSO Abatement Project. Approximately 26% or \$77 million is allocated to begin design of Phase III of the CSO Abatement Project. In addition, 18% or \$51 million is for Wastewater Treatment Facility Improvements, of which \$23 million will be spent on the Nitrogen Removal Facilities at both Field's Point and Bucklin Point. The remaining expenditures of \$21 million or 8% are for Infrastructure Management, Floatables Controls Facilities, Interceptor Repair and Construction and Interceptor Inspection and Cleaning.

CIP Costs by Functional Area



The following table shows a comparison of the capital expenditure costs by functional area from the prior year (FY 2013-2017) CIP to the current year (FY 2014-2018) CIP. Although the most significant change is due to the CIP's window shift from year to year, the CSO Phase II Facilities have decreased by \$150 million or 52% as a result of construction bids received.

The table below shows a 167% increase in the CSO Phase III Facilities functional area as construction is scheduled to begin in 2018. There is also a decrease in costs for Wastewater Treatment Facility Improvements of \$39 million and Floatables Control Facilities of \$1.2 million due to construction being performed in FY 2013. Overall, there is a 33% decrease in programmed expenditures for the current CIP window as compared to last year's CIP window.

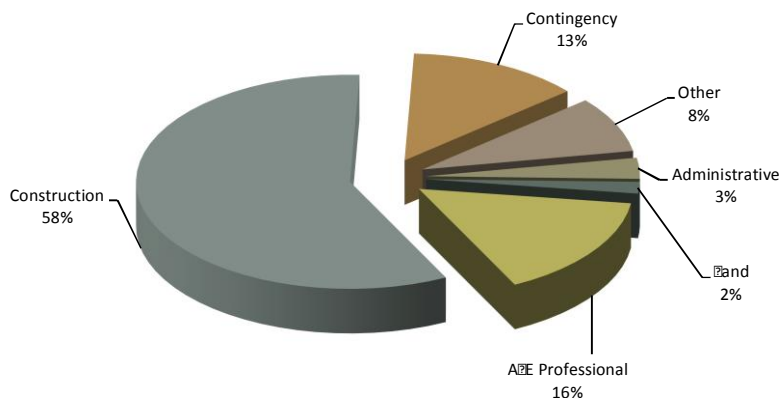
CIP Costs by Functional Area

(In thousands)

Functional Area	Prior Year CIP (FY 2013-2017)	Current Year CIP (FY 2014-2018)	Change
Wastewater Treatment Facility Improvements	\$ 89,915	\$ 51,260	-43%
Infrastructure Management	8,283	8,392	1%
CSO Phase II Facilities	289,987	140,315	-52%
CSO Phase III Facilities	28,713	76,737	167%
Floatables Control Facilities	1,399	210	-85%
CSO Interceptor Inspection and Cleaning	2,500	2,500	0%
CSO Interceptor Repair and Construction	9,457	10,226	8%
Total	\$ 430,254	\$ 289,640	-33%

For planning purposes, the programmed expenditures within each project are classified into cost categories. Cost categories include the Administrative category, which includes NBC construction management costs as well as police, legal and advertising expenses. The Land category includes costs for easements, as well as land acquisition. The Architectural/Engineering (A/E) Professional cost category includes costs for architectural and engineering services related to planning or design. The Construction cost category reflects contractor and outside construction management costs. Lastly, the Contingency cost category includes an allowance for construction cost increases based upon industry experience related to construction cost factors. As shown in the following chart, construction costs represent \$168 million, or approximately 58% of the total costs within the five-year period. Architectural and Engineering services represent approximately 16% or \$45 million of the costs during this same period.

CIP Costs by Type of Activity



Significant Capital Improvement Projects

This year's CIP includes costs for the design and construction of five significant Capital Improvement Projects: CSO Phase II Facilities, the completion of the nutrient removal facilities at Field's Point, nutrient removal at Bucklin Point, the commencement of the design phase for the Phase III CSO Facilities in FY 2016 and the construction of the Regulatory Compliance Building. Costs for these five projects during the five-year period total \$258 million, or 89% of this year's CIP. Construction of the Field's Point nutrient removal facilities is ongoing. Construction of the CSO Phase II Facilities is scheduled to be complete in FY 2016 and the construction of the Bucklin Point nutrient removal facilities began in FY 2012. NBC's investment in its other infrastructure projects is anticipated to remain fairly level in the near future as part of NBC's commitment to maintain its facilities. The following table and graph show the programmed expenditures for NBC's major projects and other smaller projects included in the current CIP window.

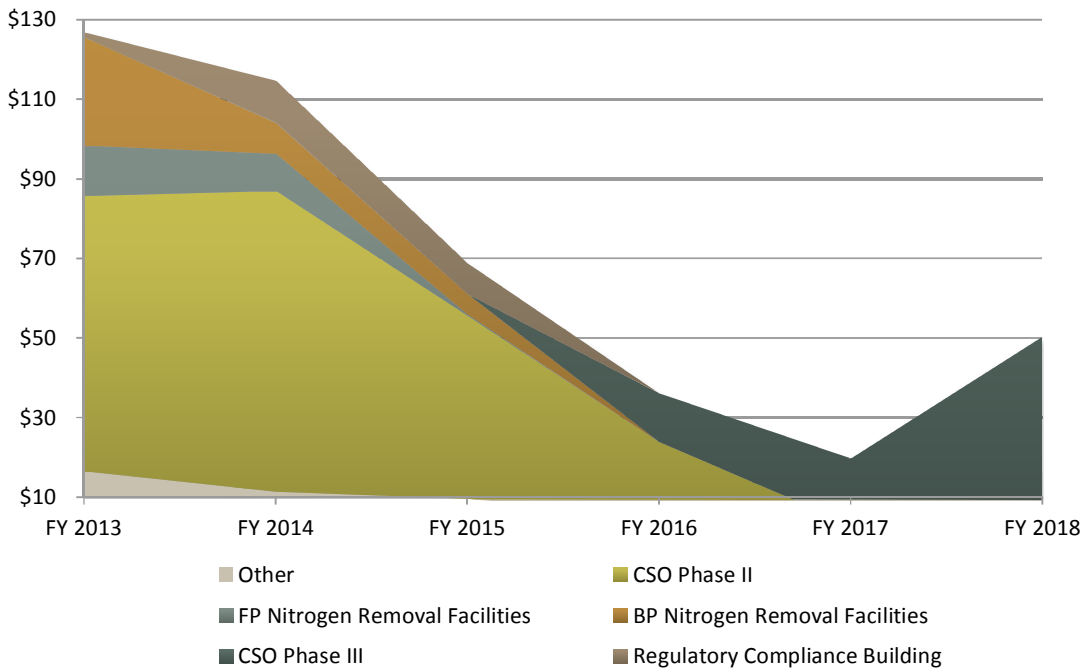
Expenditures by Major Project

(In thousands)

Project	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
CSO Phase II	\$ 69,145	\$ 75,601	\$ 45,947	\$ 18,645	\$ -	\$ -
CSO Phase III	-	-	-	12,237	16,476	48,024
Regulatory Compliance Building	1,284	10,566	7,665	-	-	-
FP Nitrogen Removal Facilities	12,738	9,346	363	-	-	-
BP Nitrogen Removal Facilities	27,158	7,763	5,170	110	-	-
Other	16,540	11,367	9,657	5,228	3,199	2,276
Total	\$ 126,865	\$ 114,643	\$ 68,803	\$ 36,220	\$ 19,675	\$ 50,300

Expenditures by Major Project

(Millions of \$)



Project 303 - CSO Phase II Facilities



The CSO Phase II Facilities are the second phase of the three phase federally mandated CSO Abatement Program. NBC completed the plans for CSO Phase II and submitted them to the Rhode Island Department of Environmental Management (RIDEM), in accordance with the schedule in the Consent Agreement between NBC and RIDEM.

The total estimated project cost for Phase II is \$233 million. This project has progressed to construction and has been separated into fourteen different construction projects based upon the tasks to be completed. The estimated cost for FY 2014-2018 is approximately \$140 million, or 48% of the total costs included in the five-year window. The table shown below lists the projects and their costs compared to last year's CIP.

Phase II CSO Facilities - Total Construction Cost Comparison		<u>2013-2017 CIP</u>	<u>2014-2018 CIP</u>	<u>Difference</u>
30301RS	Phase II CSO Facilities - Program & Construction Mgmt	\$ 30,315	\$ 30,315	\$ 0
30302C	Phase II CSO Facilities - OF 106	10,197	5,926	(4,271)
30303C	Phase II CSO Facilities - WCSOI	116,332	86,327	(30,005)
30304C	Phase II CSO Facilities - SCSOI Main	73,579	30,976	(42,602)
30305C	Phase II CSO Facilities - OF 027	11,412	11,412	-
30306C	Phase II CSO Facilities - OF 037 West	24,608	12,769	(11,839)
30307C	Phase II CSO Facilities - OF 037 South	15,127	15,127	-
30308C	Phase II CSO Facilities - OF 037 North	15,127	15,127	-
30309C	Phase II CSO Facilities - WCSOI Regulator	1,096	1,240	144
30310C	Phase II CSO Facilities - WCSOI North	24,000	9,366	(14,634)
30311C	Phase II CSO Facilities - WCSOI West	18,076	9,125	(8,951)
30312C	Phase II CSO Facilities - SCSOI Regulator	2,530	1,932	(598)
30313C	Phase II CSO Facilities - WCSOI Site Demolition	667	427	(240)
30314C	Phase II CSO Facilities - WCSOI OF 054	-	3,150	3,150
Total Phase II Facilities - Construction Costs		<u>\$ 343,065</u>	<u>\$ 233,218</u>	<u>\$(109,846)</u>

Ten of the fourteen contracts have been awarded to date for the CSO Phase II Facilities. Contract 30302C and 30304C will be awarded in May 2012. The remaining two contracts, 30307C and 30308C, are scheduled for award in the Fall 2012. Phase II construction is currently 8% complete. The most significant components of the Phase II Facilities are the construction of two interceptors in the Field's Point Service Area. The Seekonk Interceptor will run approximately 8,000 feet along the Seekonk River and the Woonasquatucket Interceptor will run approximately 18,200 feet along the Woonasquatucket River. These projects began in FY 2012 and are scheduled to be complete in FY 2016. The interceptors will eliminate discharge from approximately ten outfalls (OFs) for most storms. These flows will then be conveyed to the CSO Tunnel constructed in Phase I.

The CSO Phase II Facilities also include four sewer separation projects on the East Side of Providence which will separate the sanitary flow from the storm water flow. Construction of catch basins and new storm drains is ongoing on the East Side of Providence. Downspouts will be disconnected to remove stormwater from entering the sanitary sewer system. The disconnections will remove approximately 62 million gallons of stormwater from the combined sewer system annually. A wetlands treatment facility in Central Falls will also be constructed and consists of a storage tank and created wetlands. For small storms, the combined sewer flows will be stored in the tank until after the storm when they will be pumped to the collection system. For larger storms, treatment will be provided by the wetland. This portion of the project is eligible for "principal forgiveness" in addition to the traditional interest rate subsidy as part of NBC's 2012 borrowing from the Rhode Island Clean Water Finance Agency (RICWFA).

Project 308 - CSO Phase III Facilities



The CSO Phase III Facilities represent the third and final phase of the federally mandated CSO Abatement Program required as part of a Consent Agreement between NBC and RIEM. This phase includes the construction of a 13,000 foot long tunnel in Pawtucket along the Seekonk and Blackstone Rivers (shown in yellow). This tunnel will store flows from three CSO Interceptors totaling approximately 14,500 feet in length and two sewer separation projects. Flows from this tunnel will be conveyed to NBC's Bucklin Point TF for treatment. Total pre-design cost estimates are \$603 million for the CSO Phase III Facilities. Design of the CSO Phase III Facilities represents approximately 26% or \$77 million in this year's CIP window.

Nitrogen Removal at Field's Point and Bucklin Point

In accordance with terms of the Consent Agreement between NBC and RIEM, NBC is required to attain a seasonal total nitrogen limit of 5 mg/l from May to October at the Field's Point and Bucklin Point TF's.

Field's Point

The construction cost estimate for the Field's Point nitrogen removal facilities and related upgrades (Project 109) is \$72 million. The project is being funded with \$57.7 million in financing through the Federal American Recovery and Reinvestment Act (ARRA). The ARRA program, administered through the RIC FA, includes a "principal forgiveness" component of approximately 15% or \$8.6 million in addition to the traditional interest rate subsidy.

Currently, construction of the nitrogen removal facilities is approximately 84% complete and on schedule. Ten existing aeration basins have been modified with concrete walls (right) in order to provide four anaerobic zones and accommodate the diffusers



for the Integrated Fixed Film Activated Sludge (IFAS) process. The existing blower building (right) has also been modified for nine new turbo blowers, which will provide aeration for the nitrogen removal process. A new electrical room has been constructed and is equipped with the conduit and wiring necessary to operate the new blowers.



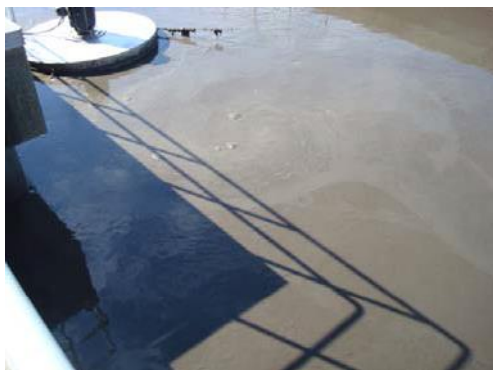
This project also included construction of a new Operations Building (below) which was complete in FY 2012. This building will house the computer control systems for the Biological Nutrient Removal (BNR) Facilities, wastewater operations at Field's Point, the Tunnel Pump Station and the Ernest Street Pump Station.

As part of this project, a new screenings facility was built to eliminate fine solids from the flow prior to its entering the aeration tanks. The screw lift pumps were replaced and new piping was installed to improve the distribution of the Return Activated Sludge (RAS), before entering the aeration tanks. Tanks and effluent pumps will be installed for the chemical addition of carbon and alkalinity needed for the BNR process.



Throughout the construction period, significant structural and mechanical changes must be made to the treatment plant, without disruption to the 24 hour day to day operations. A variety of wastewater treatment equipment, process piping, electrical components and controls have been installed and furnished. Upgrades were made to the electrical service in order to provide the additional power needed for BNR and a new backup generator was connected to ensure a constant power supply.

Bucklin Point



NBC's facilities at Bucklin Point were designed to achieve a total nitrogen level of 8 mg/l, but subsequent to the completion of construction for these facilities, RIDEM established a seasonal total nitrogen limit of 5 mg/l. NBC has completed the design for the new and upgraded facilities. The final design plans and specifications were approved on June 15, 2011.

The current construction cost estimate for the Bucklin Point nitrogen removal facilities, Project 809, is \$43 million. This cost is \$9.9 million less than the cost in last year's CIP primarily because the actual bid came in lower than the estimated bid. This project will upgrade the existing BNR processes at Bucklin Point. As part of this project the current two stage aeration tanks will be reconfigured to a four stage process with one additional anoxic zone and one additional aerobic zone. A number of existing process operations will also be upgraded and a new chemical addition system for supplemental carbon will be constructed. Construction began in FY 2012.

Green Technology

A renewable energy source may be considered a green technology or “green” if it minimizes greenhouse gases or otherwise adversely impact the environment or compromise the ability for future generations to meet their energy needs. NBC currently has two projects that meet these criteria.

Field’s Point Wastewater Treatment Facility Wind Turbines

NBC’s Wind Turbine energy project at Field’s Point (Project 121) will convert wind energy into electricity using three 1.5 mega-watt turbines. This project is expected to generate clean sustainable energy for use on-site for wastewater treatment operations and the ability to sell excess energy back to the grid. In addition to reducing greenhouse gas emissions, the wind turbines will help offset projected increases in utility costs associated with the new Facilities. All three wind turbines have been erected, internal electrical work is complete and duct bank installations have begun. NBC is working with National Grid on the interconnect agreement and the turbines are anticipated to be operational in FY 2013. The project is expected to cost approximately \$14.9 million.



Bucklin Point Wastewater Treatment Facility Biogas Reuse



At Bucklin Point, NBC uses a process called anaerobic digestion to treat and stabilize biosolids from the wastewater treatment process. The biosolids are placed in large heated digester tanks (shown to the left) and allowed to biologically decompose in the absence of oxygen, generating a methane rich biogas byproduct suitable for energy recovery.

NBC currently uses about 50% of this biogas in an on-site heat exchanger to supply heat to the anaerobic digestion tanks. The remaining biogas is flared as waste (right). Using a combined heat and power system, NBC will burn all the biogas in a reciprocating engine to generate both electricity and heat energy for use within the wastewater treatment facility. This process will reduce NBC’s dependency on fossil fuel generated electricity and will reduce NBC’s carbon footprint through the efficient use of this readily available renewable fuel. Currently, the NBC is in the final design phase for this project and construction is scheduled to begin in FY 2014. Estimated construction costs (Project 120) are approximately \$2.6 million.



Capital Improvement Program Changes

Collection System Infrastructure



This CIP includes projects that demonstrate NBC's continued commitment to maintain NBC's infrastructure and collection system. Through this initiative, NBC is able to program its capital expenditures in an efficient manner. These projects allow NBC to protect its infrastructure, maximize flow capacity, and provide for the health and safety of the public. In this year's CIP, NBC allocates \$1.5 million annually



for interceptor construction and repairs and \$500 thousand annually to interceptor inspection and cleaning in years that do not have specific projects identified. As improvement projects are identified through the inspection process they are funded from the annual allocation.

Completed Projects

Of the five projects completed last year, the majority of expenditures, 85%, were related to the Sewer System Improvements and CSO Interceptor Repair and Construction. The wastewater Treatment Facility Improvements and Interceptor Inspection and Cleaning functional areas accounted for remaining 15% of the completed project expenditures. The following table summarizes the completed projects of \$1.7 million.

Completed Project #	Completed Project Description	Total Costs (In thousands)
Wastewater Treatment Facility Improvements		
12300C	NBC Fire Code Compliance	\$ 93
Subtotal - Wastewater Treatment Facility Improvements		93
Sewer System Improvement		
70600C	Omega Pump Station Rack Room	133
70700C	Lincoln Septage Station - Lakeside Unit Replacement	612
Subtotal - Sewer System Improvement		745
CSO Interceptor Inspection and Cleaning		
30435M	East Providence Interceptor Inspection and Cleaning	165
Subtotal - CSO Interceptor Inspection and Cleaning		165
CSO Interceptor Repair and Construction		
30453C	Improvements to NBC Interceptors FY 2010	702
Subtotal - CSO Interceptor Inspection and Cleaning		702
Total Completed Projects		\$ 1,705

New Projects

This year's CIP identifies three new capital projects. The pumps at the Ernest Street Pump Station have provided NBC with over 20 years of service and are critical in pumping sewage to the Field's Point WWTF. Project 11601C is the purchase, refurbishment and installation of existing motors at the Ernest Street Pump Station. The added benefit of refurbishing the motors will be that these pumps will be more compatible with the Variable Frequency Drives (VFD's) currently being installed as part of project 12200C. Project 30455C is the lining of approximately 4,612 linear feet of sewer pipe, rehabilitation of 33 manholes and various repairs to three different interceptors. Lastly, Project 12500C is a utility reliability enhancement at Field's Point that will address concerns about the location and condition of power lines that serve the WWTF. The estimated costs are outlined in the following table.

<u>Project #</u>	<u>Project Description</u>	<u>Estimated Cost (In thousands)</u>
New Projects:		
11601C	FPWWTF Pump Replacement	\$ 500
12500C	Utility Reliability Enhancement for FP Campus	1,597
30455C	Improvements to Interceptors FY 2012	1,500
	Subtotal - New Projects	3,597
	Total New Projects	\$ 3,597

Capital Improvement Program Funding

NBC recognizes the importance of planning for capital expenditures in the context of overall financial management. NBC is committed to obtaining the lowest cost of financing in order to minimize ratepayer impact, while ensuring compliance with regulatory constraints. NBC is authorized to issue debt to finance its CIP and uses a Long-Term Financial Model to identify capital funding needs and sources and to project debt issuance.

NBC maximizes its borrowing from the RICWFA to the extent that there are loans available. The RICWFA, through the State Revolving Fund Program (SRF) provides interest rate subsidies on loans for eligible projects.

Other factors that must be considered include:

- NBC is regulated by the Rhode Island Public Utilities Commission (PUC) and the PUC has restricted the use of the prior year debt service coverage allowance to fund only operating capital and capital projects, as well as the Reserve for Revenue Stability Fund.
- NBC must take into consideration arbitrage expenditure requirements to avoid financial penalties.
- There are restrictions on the types of expenditures that may be financed through SRF. For example, land may not be financed through SRF, and only projects that have been approved by RIDEM and are reachable on the RIDEM's project priority list are eligible for SRF funding.
- NBC must also expend and manage its resources in accordance with NBC's Trust Indenture and Fifteen Supplemental Indentures.

Impact of the CIP on the Operating Budget

The primary impact of the CIP on the Operating Budget is the payment of debt service on the borrowings executed to finance the CIP. The debt service and user fee projections associated with financing this CIP are identified in the Long-Term Debt Overview section of the Operating Budget. Although the CIP's primary impact on the Operating Budget is debt service, certain capital improvements will also directly impact operating costs. These expenditures relate to the operation of the completed capital improvements and are incorporated into the operating budget. In this CIP, NBC's engineers have identified seven capital projects that will impact NBC's operating budget once they become operational. They have also identified two "green" capital projects that will generate cost savings and offset operating impacts. The following table provides additional detail to the operational costs of the capital projects from FY 2014-2019.

CIP Impact on Operating Budget (In thousands)

Project Name	Expenditure Type	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
FPWWTF Nitrogen Removal Facilities						
	Utilities	\$1,415	\$1,450	\$1,502	\$1,547	\$1,593
	Chemicals	369	380	392	404	416
	Screenings & Sludge Disposal	2	2	2	2	2
	Water	2	2	3	3	3
	Subtotal	1,789	1,842	1,899	1,955	2,013
Regulatory Compliance Building						
	Utilities	-	39	77	79	82
	Subtotal	-	39	77	79	82
BPWWTF Biogas Reuse						
	Maintenance & Service Agreements	-	260	260	260	260
	Utilities	-	(505)	(526)	(546)	(568)
	Subtotal	-	(245)	(266)	(286)	(308)
FPWWTF Wind Turbine						
	Maintenance & Service Agreements	100	100	100	100	100
	Utilities	(793)	(793)	(793)	(793)	(793)
	Subtotal	(693)	(693)	(693)	(693)	(693)
CSO Phase II Facilities						
	Biosolids Disposal	-	21	43	48	54
	Utilities	-	21	43	45	47
	Maintenance & Service Agreements	-	5	10	11	12
	Subtotal	-	47	96	104	112
Floatable Control Facilities						
	Trash Nets	10	20	22	24	25
	Subtotal	10	20	22	24	25
BPWWTF Nitrogen Removal Facilities						
	Utilities	-	72	75	78	81
	Chemicals	-	190	198	205	213
	Subtotal	-	262	273	283	294
Total Impact on Operating Budget		\$0,000	\$0,070	\$0,007	\$0,000	\$0,505

Of the seven projects, three will have operational costs beginning in FY 2014. The majority, or 4.83% is for the Field’s Point Nitrogen Removal Project. Operation of the Nitrogen Removal Facilities will increase operating costs by \$1.8 million however the FPWWTF Wind Turbine project is anticipated to result in electricity savings of approximately \$693,000 beginning in FY 2014. The table below illustrates the cost and percentage of impact by project, in FY 2014 based on the current year’s operating budget.

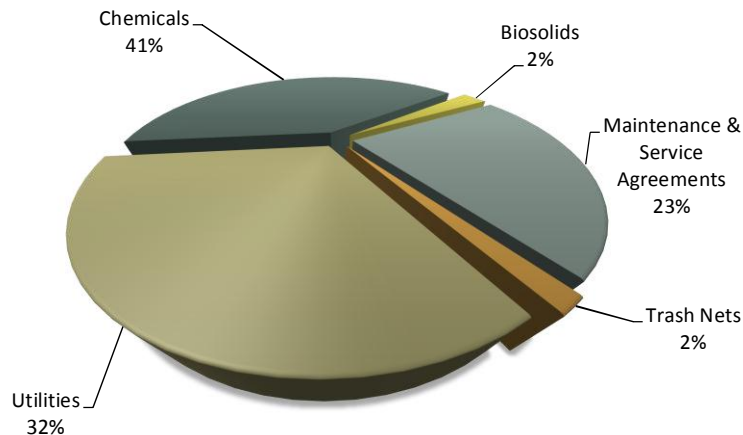
CIP Impact on Operating Budget
(In thousands)

CIP Project Name	FY 2014	Percentage of Impact on Operating Budget*
FPWWTF Nitrogen Removal Facilities	\$ 1,789	4.83%
FPWWTF Wind Turbine	(693)	-1.87%
Floatables Control Facilities	10	0.03%
Total	\$ 1,106	2.99%

* Based on FY 2012 Approved Operating Budget

Operational impacts for FY 2014-2018 are for chemicals, maintenance & service agreements, biosolids disposal, trash nets and utilities. The graph below shows the percentage of the impacts related to the operational costs during FY 2014-2018. The majority or 41% is related to chemical costs for the nitrogen removal facilities at Field’s Point and Bucklin Point. Two new chemicals being used at Field’s Point are sodium hydroxide to adjust alkalinity and a carbon source to improve nitrogen removal. Utility costs represent 32% of the impacts which is related to the nitrogen removal facilities as well as the Regulatory Compliance Building. These utility costs will be offset by NBC’s renewable energy projects resulting in net savings once fully operational. Maintenance and service agreements represent 23% of the impact, while biosolids disposal and trash nets account for 2% and 2% respectively. The FPWWTF Wind Turbine and the BPWWTF Biogas Reuse projects will generate energy that will result in a cost savings once the facilities are complete.

CIP Impact by Element of Operating Expense
(In thousands)



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Capital Project Cost Summary

Capital Project Cost Summary

Project Number	Project Name	Project Priority	Pre-Fiscal Year 2013	Fiscal Year 2013	Fiscal Years 2014-2018	Post-Fiscal Year 2018	Total Estimated Project Cost
Wastewater Treatment Facility Improvements							
10901D	FPWWTF - Nitrogen Removal Facilities - Design	A	\$ 4,910	\$ 1,896	\$ -	\$ -	6,806
10901C	FPWWTF - Nitrogen Removal Facilities - Construction	A	51,237	10,843	9,710	-	71,789
11601C	FPWWTF Pump Replacement	B	238	262	-	-	500
11900D	Regulatory Compliance Building - Design	B	1,808	1,207	-	-	3,015
11900C	Regulatory Compliance Building - Construction	B	-	77	18,231	-	18,308
12000D	BPWWTF - Biogas Reuse - Design	C	173	282	-	-	455
12000C	BPWWTF - Biogas Reuse - Construction	C	-	-	2,649	-	2,649
12100C	FPWWTF - Wind Turbine - Construction	C	11,404	3,049	453	-	14,906
12400D	New IM Facilities - Design	C	-	9	548	-	557
12400C	New IM Facilities - Construction	C	-	-	6,052	-	6,052
12500C	Utility Reliability Enhancement for FP Campus	B	53	970	575	-	1,597
80900D	BPWWTF - Nitrogen Removal Facilities- Design	A	3,527	306	-	-	3,834
80900C	BPWWTF - Nitrogen Removal Facilities- Construction	A	2,830	26,852	13,043	-	42,725
Subtotal - Wastewater Treatment Facility Improvements			\$ 76,181	\$ 45,751	\$ 51,260	\$ -	\$ 173,193
Infrastructure Management							
110000	Site Specific Study	A	\$ 211	\$ -	\$ 246	\$ -	457
1140100	River Model Development	C	254	124	-	-	378
30221D	Hydraulic Systems Modeling - Design	C	168	159	-	-	327
30438D	Interceptor Easments - Design	A	554	221	-	-	775
30438C	Interceptor Easments - Construction	A	-	-	612	-	612
30500D	NBC Interceptor Easements - Design	B	-	-	2,935	-	2,935
30500C	NBC Interceptor Easements - Construction	B	-	-	2,497	-	2,497
30501D	Interceptor Easements - NBC BVI Design	A	239	407	-	-	646
30501C	Interceptor Easements - NBC BVI Construction	A	-	-	730	-	730
30700	NBC System-wide Facilities Planning	B	-	-	1,372	-	1,372
Subtotal - Infrastructure Management			\$ 1,425	\$ 912	\$ 8,392	\$ -	\$ 10,729
Phase II CSO Facilities							
Phase II Facilities - Design							
30301D	Phase II CSO Facilities - Design	A	\$ 16,131	\$ 5,069	\$ 122	\$ -	21,321
Subtotal - Phase II CSO Facilities - Design			\$ 16,131	\$ 5,069	\$ 122	\$ -	\$ 21,321
Phase II CSO Facilities - Construction							
30301RS	Phase II CSO Facilities - Program & Construction Management	A	\$ 4,627	\$ 4,266	\$ 21,422	\$ -	30,315
30302C	Phase II CSO Facilities - OF 106	A	132	2,375	3,419	-	5,926
30303C	Phase II CSO Facilities - WCSOI Main	A	3,329	22,000	60,998	-	86,327
30304C	Phase II CSO Facilities - SCSOI Main	A	17	6,778	24,181	-	30,976
30305C	Phase II CSO Facilities - OF 027	A	3,890	5,472	2,049	-	11,412
30306C	Phase II CSO Facilities - OF 037 West	A	3,817	7,481	1,472	-	12,769
30307C	Phase II CSO Facilities - OF 037 South	A	-	2,625	12,502	-	15,127
30308C	Phase II CSO Facilities - OF 037 North	A	-	2,625	12,502	-	15,127
30309C	Phase II CSO Facilities - WCSOI Regulator	A	1,134	106	-	-	1,240
30310C	Phase II CSO Facilities - WCSOI North	A	1,602	7,709	55	-	9,366
30311C	Phase II CSO Facilities - WCSOI West	A	4,788	3,900	437	-	9,125
30312C	Phase II CSO Facilities - SCSOI Regulator	A	273	564	1,095	-	1,932
30313C	Phase II CSO Facilities - WCSOI Site Demolition	A	271	144	12	-	427
30314C	Phase II CSO Facilities - WCSOI OF 054	A	-	3,100	50	-	3,150
Subtotal - Phase II CSO Facilities - Construction			\$ 23,880	\$ 69,145	\$ 140,193	\$ -	\$ 233,218

Capital Project Cost Summary

Project Number	Project Name	Project Priority	Pre-Fiscal Year 2013	Fiscal Year 2013	Fiscal Years 2014-2018	Post-Fiscal Year 2018	Total Estimated Project Cost
Phase III CSO Facilities							
30800D	Phase III CSO Facilities - Design	A	\$ -	\$ -	\$ 37,012	\$ -	\$ 37,012
30800C	Phase III CSO Facilities - Construction	A	-	-	39,725	526,225	565,950
Subtotal - Phase III CSO Facilities			\$ -	\$ -	\$ 76,737	\$ 526,225	\$ 602,962
Floatables Control Facilities							
30600D	Floatables Control Facilities - Design	A	\$ 378	\$ 110	\$ -	\$ -	\$ 488
30600C	Floatables Control Facilities - Construction	A	915	3,878	210	-	5,004
Subtotal - Floatables Control Facilities			\$ 1,293	\$ 3,988	\$ 210	\$ -	\$ 5,492
CSO Interceptor Inspection and Cleaning							
30400M	Inspection and Cleaning of CSO Interceptors	B	\$ -	\$ 94	\$ 2,500	\$ 500	\$ 3,094
30430M	WRI Route 10 Inspection and Cleaning	B	44	406	-	-	450
Subtotal - CSO Interceptor Inspection and Cleaning			\$ 44	\$ 500	\$ 2,500	\$ 500	\$ 3,544
CSO Interceptor Repair and Construction							
30400C	Repair and Construction of CSO Interceptors	B	\$ -	\$ 156	\$ 5,103	\$ 1,500	\$ 6,759
30421C	Dobuissetts Pipeline Interceptor Replacement - Construction	C	-	-	2,382	-	2,382
30444D	Moshassuc Valley Interceptor - Design	C	26	229	-	-	255
30444C	Moshassuc Valley Interceptor - Construction	C	-	2	2,371	-	2,373
30454C	Branch Avenue Interceptor Improvement	A	1,866	31	-	-	1,897
30455C	Improvements to Interceptors FY 2012	A	48	1,082	370	-	1,500
Subtotal - CSO Interceptor Repair and Construction			\$ 1,940	\$ 1,500	\$ 10,226	\$ 1,500	\$ 15,166
Total Capital Improvement Program			\$ 120,894	\$ 126,865	\$ 289,640	\$ 528,225	\$ 1,065,625

Note: Cash Flow Basis in Thousands

Category	Project Priority
A	Mandated, emergency or under construction, etc.
B	Not mandated but project is imperative to ongoing operation of facilities
C	Project is important but not critical to ongoing operations

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Wastewater Treatment Facility Improvements

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10901

FPWWTF - Nitrogen Removal Facilities



Photo: Newly constructed Operations Building
Project Overview

The RIPDES permit for Field's Point requires a nitrogen limit of 5 mg/l from May to October. This project will modify the existing aeration basins to accommodate an Integrated Fixed Film Media process. The operational cost estimate for the utility, chemical and maintenance costs associated with the operation of the new nitrogen removal facilities will begin in FY 2013.

Location: Service Road (Providence, RI)
Contractor(s): Daniel O'Connell's Sons
Project Manager: Rich Bernier, P.E.
Project Priority: A

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	April-01	May-07	75 Months	\$872
Design	February-07	November-12	57 Months	6,806
Construction	March-09	March-15	74 Months	71,789
Total Project	April-01	March-15	170 Months	\$79,467

Projected Expenditures - 10901P

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 392	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 392
A/E Professional	413	-	-	-	-	-	-	-	413
Other	67	-	-	-	-	-	-	-	67
Total Project Costs	\$ 872	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 872

Projected Expenditures - 10901D

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 433	\$ 15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 448
Land	20	1,881	-	-	-	-	-	-	1,900
A/E Professional	4,396	-	-	-	-	-	-	-	4,396
Other	62	-	-	-	-	-	-	-	62
Total Project Costs	\$ 4,910	\$ 1,896	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,806

Projected Expenditures - 10901C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 1,853	\$ 521	\$ 251	\$ 2	\$ -	\$ -	\$ -	\$ -	\$ 2,627
Land	-	-	-	-	-	-	-	-	-
A/E Professional	2,819	780	533	87	-	-	-	-	4,218
Construction	46,342	9,103	-	275	-	-	-	-	55,720
Contingency	-	-	8,457	-	-	-	-	-	8,457
Other	223	439	105	-	-	-	-	-	767
Total Project Costs	\$ 51,237	\$ 10,843	\$ 9,346	\$ 363	\$ -	\$ -	\$ -	\$ -	\$ 71,789

Note: Cash Flow Basis in Thousands

11601C

FPWWTF Pump Replacement



Photo: Motors at the Ernest Street Pump Station
Project Overview

The pumps at the Ernest Street Pump Station have provided NBC with over 20 years of service and are critical in pumping sewage to the Field's Point TF. This project will purchase and install a new 300hp 2300 volt motor and refurbish four additional pump motors to ensure continuous operations and compatibility with the FD's installed as part of project 12200C. The project costs are for the purchase, refurbishment and associated installation costs.

Location: Ernest Street Pump Station, Providence, RI
 Contractor(s): Continental Motors
 Project Manager: Paul Nordstrom, P.E.
 Project Priority: B

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	July-11	April-13	21 Months	\$500
Total Project	July-11	April-13	21 Months	\$500

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 11601C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	228	188	-	-	-	-	-	-	416
Contingency	-	-	-	-	-	-	-	-	-
Other	10	74	-	-	-	-	-	-	84
Total Project Costs	\$ 238	\$ 262	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500

Note: Cash Flow Basis in Thousands

11900

NBC Regulatory Compliance Building and Related Upgrades



Photo: An Architect's rendering of the proposed Regulatory Compliance Building

This project will design and construct a Regulatory Compliance Building, which will house the EMDA and Laboratory sections of the NBC. This project will unify NBC's efforts for environmental sampling and related analysis by including the necessary laboratory equipment and monitoring capability required by permit and EPA. This building is proposed to be 30,000 square feet and will be

Project Overview

Location: Service Road (Providence, RI)
 Contractor(s): CDM
 Project Manager: Terry Cote, P.E.
 Project Priority: A

located on Service Road in Providence. This project also includes related site demolition and is currently in the design phase.

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	September-08	June-09	9 Months	\$323
Design	September-10	February-13	29 Months	3,015
Construction	January-13	June-15	30 Months	18,308
Total Project	September-08	June-15	83 Months	\$21,646

Projected Expenditures - 11900P

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 132	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 132
A/E Professional	191	-	-	-	-	-	-	-	191
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ 323	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 323

Projected Expenditures - 11900D

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 86	\$ 37	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 123
Land	1,342	-	-	-	-	-	-	-	1,342
A/E Professional	336	1,104	-	-	-	-	-	-	1,440
Other	44	66	-	-	-	-	-	-	110
Total Project Costs	\$ 1,808	\$ 1,207	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,015

Projected Expenditures - 11900C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ 52	\$ 321	\$ 190	\$ -	\$ -	\$ -	\$ -	\$ 563
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	20	235	120	-	-	-	-	375
Construction	-	-	10,010	5,490	-	-	-	-	15,500
Contingency	-	-	-	1,860	-	-	-	-	1,860
Other	-	5	-	5	-	-	-	-	10
Total Project Costs	\$ -	\$ 77	\$ 10,566	\$ 7,665	\$ -	\$ -	\$ -	\$ -	\$ 18,308

Note: Cash Flow Basis in Thousands

1,000

BPWWTF Biogas Reuse



Photo: Bucelin Point Boiler Plant

Project Overview

NBC has determined that it is cost effective to convert the methane biogas generated within the biosolids anaerobic digesters at the Bucelin Point WWTTF into electricity using a reciprocating engine. This project is now in the design phase which includes design of a biogas pretreatment system, development of specifications for a generator and design of the interconnection with the existing electrical system.

Location: Bucelin Point WWTTF (East Providence, RI)

Contractor(s): Brown & Caldwell

Project Manager: Kathryn Kelly, P.E.

Project Priority: C

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	June-07	December-09	31 Months	\$46
Design	April-10	December-12	33 Months	455
Construction	July-13	May-15	22 Months	2,649
Total Project	June-07	May-15	96 Months	\$2,150

Projected Expenditures - 1,000P

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 22	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22
A/E Professional	23	-	-	-	-	-	-	-	23
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ 46	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 46

Projected Expenditures - 1,000D

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 50	\$ 20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 70
Land	-	-	-	-	-	-	-	-	-
A/E Professional	94	248	-	-	-	-	-	-	342
Other	29	14	-	-	-	-	-	-	43
Total Project Costs	\$ 173	\$ 282	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 455

Projected Expenditures - 1,000C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ 46	\$ 18	\$ -	\$ -	\$ -	\$ -	\$ 64
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	34	16	-	-	-	-	50
Construction	-	-	1,950	300	-	-	-	-	2,250
Contingency	-	-	-	270	-	-	-	-	270
Other	-	-	10	5	-	-	-	-	15
Total Project Costs	\$ -	\$ -	\$ 2,040	\$ 609	\$ -	\$ -	\$ -	\$ -	\$ 2,649

Note: Cash Flow Basis in Thousands

12100C

FPWWTF Wind Turbine



Photo: The blades being connected to the hub
Project Overview

NBC has investigated the feasibility of converting wind energy into electricity using three Mega-Watt (MW) Class Wind Turbines at the Field's Point WWTF. Three 1.5 MW wind turbines have been installed through the design/build process at the Fields Point WWTF. Duct bank installations are complete and currently the interconnection between the current electrical system and turbines is underway. The wind turbines will be operational in FY 2013.

Location: Field's Point WWTF (Providence, RI)
Contractor(s): Gilbane
Project Manager: Rich Bernier, P.E.
Project Priority: C

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	December-06	December-09	38 Months	\$40
Design	N/A	N/A	N/A	N/A
Construction	October-10	December-14	51 Months	14,906
Total Project	December-06	December-14	97 Months	\$14,946

Projected Expenditures - 12100P

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25
A/E Professional	-	-	-	-	-	-	-	-	-
Other	15	-	-	-	-	-	-	-	15
Total Project Costs	\$ 40	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40

Projected Expenditures -Design

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 12100C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 334	\$ 38	\$ 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 373
Land	-	-	-	-	-	-	-	-	-
A/E Professional	61	5	-	-	-	-	-	-	66
Construction	10,680	1,459	331	120	-	-	-	-	12,589
Contingency	279	1,471	-	-	-	-	-	-	1,751
Other	50	76	-	-	-	-	-	-	126
Total Project Costs	\$ 11,404	\$ 3,049	\$ 333	\$ 120	\$ -	\$ -	\$ -	\$ -	\$ 14,906

Note: Cash Flow Basis in Thousands

1400 New IM Facilities

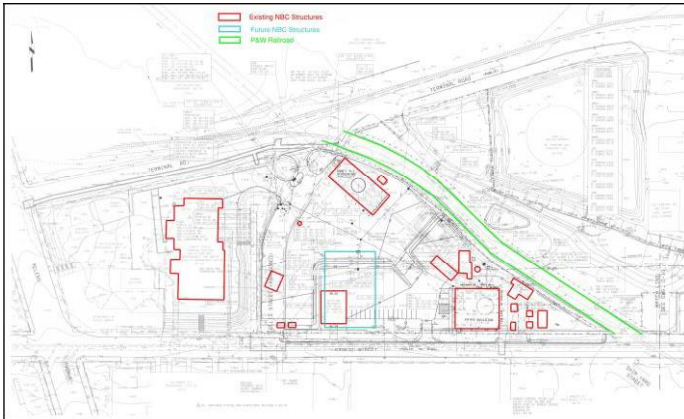


Photo: Proposed Site for New IM Building
Project Overview

Design and construction of a new building will be needed when the IM responsibilities are increased. The building will include administrative area and garage area with storage yard.

Location: Providence, RI
 Contractor(s): N/A
 Project Manager: Rich Bernier, P.E.
 Project Priority: C

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	February-13	June-14	16 Months	\$557
Construction	May-14	July-16	26 Months	6,052
Total Project	February-14	July-16	42 Months	\$6,609

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 1400D

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ 9	\$ 28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 37
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	500	-	-	-	-	-	500
Other	-	-	20	-	-	-	-	-	20
Total Project Costs	\$ -	\$ 9	\$ 548	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 557

Projected Expenditures - 1400C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ 7	\$ 290	\$ 50	\$ 5	\$ -	\$ -	\$ 352
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	50	-	-	-	-	50
Construction	-	-	-	4,700	250	50	-	-	5,000
Contingency	-	-	-	-	600	-	-	-	600
Other	-	-	-	-	50	-	-	-	50
Total Project Costs	\$ -	\$ -	\$ 7	\$ 5,040	\$ 950	\$ 55	\$ -	\$ -	\$ 6,052

Note: Cash Flow Basis in Thousands

1500C

Utility Reliability Enhancement for the Fields Point Campus



Photo: Utility work being performed on Service Road
Project Overview

Many of the utility poles within the Fields Point campus are very old and should they fail in a storm, critical NBC operations could be affected. The existing power lines and utility poles located along Service Road are poorly positioned in relation to the new NBC Administration Building and the site of the proposed Regulatory Compliance Building. It is critical that these buildings are powered by reliable utility infrastructure. Currently NBC staff has contacted National Grid to review site plans to determine the feasibility of relocating poles and wires within the campus, either underground or down New York Avenue to Shipyard Street.

Location: Providence, RI
 Contractor: N/A
 Project Manager: Rich Bernier, P.E.
 Project Priority: A

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	April-12	April-14	24 Months	1,597
Total Project	April-12	April-14	24 Months	\$1,597

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 1500C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 20	\$ 132	\$ 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 177
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	70	30	-	-	-	-	-	100
Construction	23	728	400	-	-	-	-	-	1,150
Contingency	-	-	120	-	-	-	-	-	120
Other	10	40	-	-	-	-	-	-	50
Total Project Costs	\$ 53	\$ 970	\$ 575	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,597

Note: Cash Flow Basis in Thousands

0900C

BPWWTF Nitrogen Removal Facilities



**Photo: Aerial view of the BPWWTF
Project Overview**

NBC's facilities at Bucelin Point were designed and constructed to achieve a nitrogen level of 8 mg/l, but subsequent to the completion of construction, RIDEM established a permit nitrogen limit of 5 mg/l. NBC has completed the design for the new facilities and upgrades the existing Biological Nutrient Removal (BNR) process to achieve the new permit nitrogen limits. A number of process operations will be upgraded as well. This project will upgrade the existing BNR process at this facility.

Location: Bucelin Point WWTf (East Providence, RI)
 Contractor(s): Daniel O'Connells Sons
 Project Manager: Rich Bernier, P.E.
 Project Priority: A

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	July-07	September-09	26 Months	\$260
Design	April-10	February-13	35 Months	3,834
Construction	July-11	December-15	54 Months	42,725
Total Project	July-07	December-15	102 Months	\$46,819

Projected Expenditures - 0900P

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 57	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 57
A/E Professional	203	-	-	-	-	-	-	-	203
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ 260	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 260

Projected Expenditures - 0900D

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 215	\$ 16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 231
Land	-	-	-	-	-	-	-	-	-
A/E Professional	3,228	240	-	-	-	-	-	-	3,468
Other	85	50	-	-	-	-	-	-	135
Total Project Costs	\$ 3,527	\$ 306	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,834

Projected Expenditures - 0900C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 64	\$ 340	\$ 348	\$ 174	\$ -	\$ -	\$ -	\$ -	\$ 926
Land	-	-	-	-	-	-	-	-	-
A/E Professional	310	1,000	960	620	110	-	-	-	3,000
Construction	2,450	25,500	6,455	221	-	-	-	-	34,626
Contingency	-	-	-	4,155	-	-	-	-	4,155
Other	6	12	-	-	-	-	-	-	18
Total Project Costs	\$ 2,830	\$ 26,852	\$ 7,763	\$ 5,170	\$ 110	\$ -	\$ -	\$ -	\$ 42,725

Note: Cash Flow Basis in Thousands

Infrastructure Management

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1100000

Site Specific Study



Photo: The R Monitor, NBC's sampling vessel
Project Overview

The Site Specific Study required by NBC's RIPDES permit was completed in FY 2003 and final results were submitted to RIDEM in FY 2004. This study characterized the level of dissolved and total metals in the receiving waters at both Field's Point and Bucelin Point. The data obtained from this study was used for project 1140100, as well as by NBC and RIDEM in the joint development of new discharge permits and consent agreements for both plants. RIDEM is currently developing new RIPDES permits for each of the TF. As a result, new studies may be required as part of the re-permitting process.

Location: Field's Point of TF (Providence, RI)
Contractor(s): N/A
Project Manager: John Motta
Project Priority: A

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	November-01	June-14	154 Months	\$457
Construction	N/A	N/A	N/A	N/A
Total Project	November-01	June-14	154 Months	\$457

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 1100000

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 16	\$ -	\$ 234	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250
Land	-	-	-	-	-	-	-	-	-
A/E Professional	163	-	6	-	-	-	-	-	169
Other	33	-	5	-	-	-	-	-	38
Total Project Costs	\$ 211	\$ -	\$ 246	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 457

Projected Expenditures - Construction

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note: Cash Flow Basis in Thousands

1140100

River Model Development

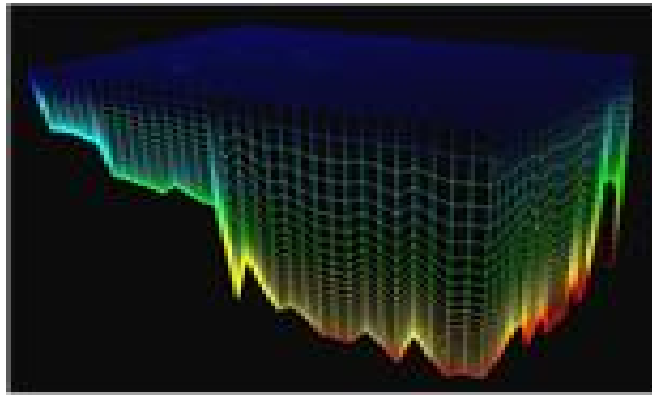


Photo: ROMS 3D grid shows follow the shape of the coastline and represent the volume of Narragansett Bay
Project Overview

NBC has partnered with the University of Rhode Island (URI) Graduate School of Oceanography (GSO) to develop a Regional Ocean Management System (ROMS) model of circulation and transport within the Providence and Seekonk Rivers and Upper Narragansett Bay. The first phase of the model development is complete. The second phase will run the model under varying conditions and loadings to determine the impact of nitrogen loads on the receiving waters. This analysis will assist in determining the Total Maximum Daily Load (TMDL) for nitrogen that can be discharged from NBC's two wastewater treatment facilities without violating water quality standards.

Location: Field's Point & TF (Providence, RI)
 Contractor(s): University of RI, Graduate School of Oceanography
 Project Manager: Terry Cote, P.E.
 Project Priority: C

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	March-05	February-13	96 Months	\$378
Construction	N/A	N/A	N/A	N/A
Total Project	March-05	February-17	96 Months	\$378

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 1140100

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 42	\$ 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 46
Land	-	-	-	-	-	-	-	-	-
A/E Professional	163	7	-	-	-	-	-	-	170
Other	49	113	-	-	-	-	-	-	162
Total Project Costs	\$ 254	\$ 124	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 378

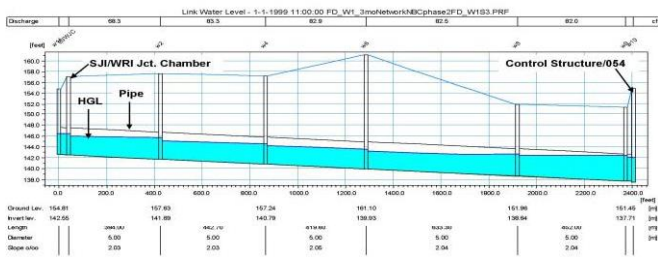
Projected Expenditures - Construction

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note: Cash Flow Basis in Thousands

Hydraulic Systems Modeling

**WCSOI Final Design Run 1
New WRI
Peak HGL 3-month storm**



**Photo: A graphic depicting the output from the WCSOI model
Project Overview**

This project involves the updating of a sewer system model for the Field's Point service area to include the Towns of Johnston and North Providence. The updated model will allow NBC to determine the impact of future development and other changes to the sewer system flows. This information can then be used to determine where there is insufficient capacity in the sewer system, in accordance with the CMOM requirements established by the EPA.

Location: Narragansett Bay Commission Service Area
Contractor(s): N/A
Project Manager: Kathryn Kelly, P.E.
Project Priority: C

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	June-06	December-11	68 Months	\$75
Design	July-11	August-12	14 Months	327
Construction	N/A	N/A	N/A	N/A
Total Project	June-06	August-12	76 Months	\$402

Projected Expenditures - 2021P

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13
A/E Professional	59	-	-	-	-	-	-	-	59
Other	2	-	-	-	-	-	-	-	2
Total Project Costs	\$ 75	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 75

Projected Expenditures - 2021D

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 45	\$ 8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 53
Land	-	-	-	-	-	-	-	-	-
A/E Professional	123	80	-	-	-	-	-	-	203
Other	-	71	-	-	-	-	-	-	71
Total Project Costs	\$ 168	\$ 159	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 327

Projected Expenditures - Construction

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note: Cash Flow Basis in Thousands

Interceptor Easements



Photo: Cumberland sewer system easement locations

Much of the NBC sewer system in Cumberland is located in easements that cross private property. NBC is presently evaluating these easements, as to whether the access to the easements is sufficient for access in order to maintain the integrity of the collection system. This project is for an evaluation of the Abbott Valley Interceptor easements.

Project Overview

Upon completion of the evaluation, the easements will be cleared and access provided as necessary under the construction phase of this project.

Location: Cumberland, RI
 Contractor(s): B
 Project Manager: Tom Bruecner, P.E.
 Project Priority: A

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	June-06	December-12	79 Months	\$775
Construction	July-13	October-14	15 Months	612
Total Project	June-06	October-14	101 Months	\$1,387

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 04D

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 158	\$ 51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 208
Land	3	150	-	-	-	-	-	-	153
A/E Professional	388	21	-	-	-	-	-	-	409
Other	5	-	-	-	-	-	-	-	5
Total Project Costs	\$ 554	\$ 221	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 775

Projected Expenditures - 04C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ 32	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 32
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	475	25	-	-	-	-	500
Contingency	-	-	60	-	-	-	-	-	60
Other	-	-	20	-	-	-	-	-	20
Total Project Costs	\$ -	\$ -	\$ 587	\$ 25	\$ -	\$ -	\$ -	\$ -	\$ 612

Note: Cash Flow Basis in Thousands

0500

NBC Interceptor Easements

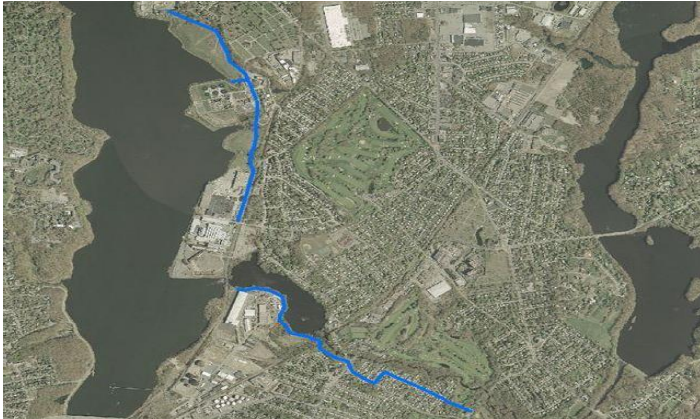


Photo: Proposed area for the East Providence easement investigation
Project Overview

Many of NBC's interceptors are located in overland areas that run through private property. It is difficult to access these easements due to the terrain and vegetative growth. Many areas have become overgrown and the sewer is difficult to locate. The easements will be located through field survey and then cleared sufficiently to provide access to maintain NBC's infrastructure. Project 30500 will continue NBC's efforts to locate the interceptors and easements in each of the communities within the NBC service area. As the field surveys begin for the remaining cities and towns, each will be given a unique project number and draw funding from Project 30500.

Location: Narragansett Bay Commission Service Area
Contractor(s): N/A
Project Manager: Tom Brueckner, P.E.
Project Priority: B

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	August-13	August-16	37 Months	\$2,935
Construction	September-14	August-17	36 Months	2,497
Total Project	August-13	August-17	49 Months	\$5,432

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 0500D

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ 86	\$ 79	\$ 81	\$ 10	\$ -	\$ -	\$ 256
Land	-	-	-	500	300	300	-	-	1,100
A/E Professional	-	-	660	420	480	-	-	-	1,560
Other	-	-	6	-	13	-	-	-	19
Total Project Costs	\$ -	\$ -	\$ 752	\$ 999	\$ 874	\$ 310	\$ -	\$ -	\$ 2,935

Projected Expenditures - 0500C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ 35	\$ 48	\$ 50	\$ 12	\$ -	\$ 145
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	520	700	700	180	-	2,100
Contingency	-	-	-	-	84	84	84	-	252
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ 555	\$ 832	\$ 834	\$ 276	\$ -	\$ 2,497

Note: Cash Flow Basis in Thousands

0501

Interceptor Easements - NBC B

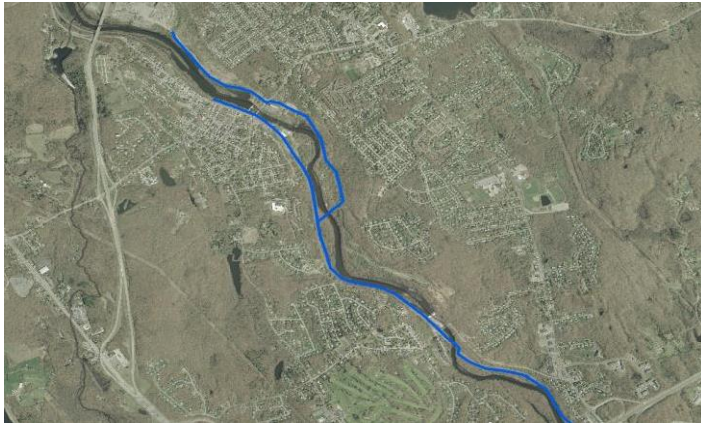


Photo: Blacstone Alley Interceptor in Lincoln
Project Overview

Many of NBC's interceptors are located in overland areas that run through private property. It is difficult to access these easements due to the terrain and vegetative growth. Many areas have become overgrown and the sewer is difficult to locate. The easements will be located through field survey and then cleared sufficiently to provide access to crews and equipment. Project 30501 is to locate manholes and easements on the Blacstone Alley Interceptor in Lincoln and Cumberland. Upon completion of this work, the easement will be cleared to allow access to maintain the sewer.

Location: Lincoln, RI
Contractor(s): B
Project Manager: Tom Bruecner, P.E.
Project Priority: A

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	July-09	October-12	40 Months	\$646
Construction	July-13	July-14	12 Months	730
Total Project	July-09	July-14	61 Months	\$1,376

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 0501D

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 76	\$ 63	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 139
Land	-	247	-	-	-	-	-	-	247
A/E Professional	158	89	-	-	-	-	-	-	247
Other	5	9	-	-	-	-	-	-	14
Total Project Costs	\$ 239	\$ 407	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 646

Projected Expenditures - 0501C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ 38	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	530	70	-	-	-	-	600
Contingency	-	-	72	-	-	-	-	-	72
Other	-	-	20	-	-	-	-	-	20
Total Project Costs	\$ -	\$ -	\$ 660	\$ 70	\$ -	\$ -	\$ -	\$ -	\$ 730

Note: Cash Flow Basis in Thousands

NBC System-Wide Facilities Planning

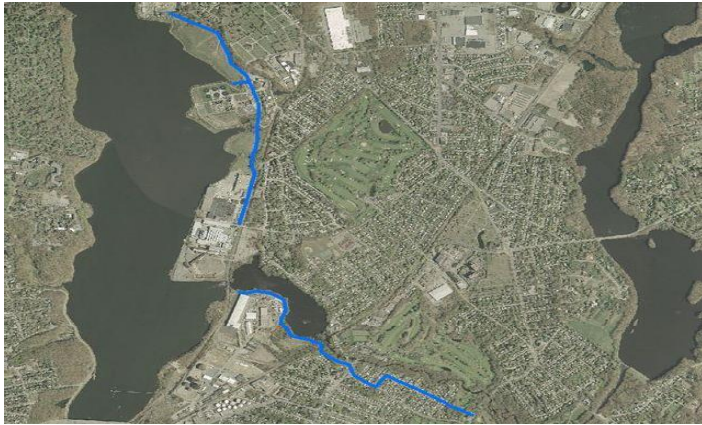


Photo: Proposed area for the East Providence capacity analysis
Project Overview

NBC's interceptor sewers convey flow from local sewers in the district's eight cities and towns to the two NBC wastewater treatment facilities. Project 30700 will continue NBC's studies to determine if there is adequate capacity for the next twenty years and if there is any excessive infiltration/inflow (I/I) in NBC's interceptors. As the evaluations begin for the remaining Cities and Towns, each will be given a unique project number and draw funding from Project 30700.

Location: Narragansett Bay Commission Service Area
 Contractor(s): N/A
 Project Manager: Tom Brueckner, P.E.
 Project Priority: B

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	July-13	May-16	35 Months	\$1,372
Construction	N/A	N/A	N/A	N/A
Total Project	July-13	May-16	35 Months	\$1,372

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 0700

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ 82	\$ 39	\$ 72	\$ -	\$ -	\$ -	\$ 192
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	480	200	500	-	-	-	1,180
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ 561	\$ 239	\$ 572	\$ -	\$ -	\$ -	\$ 1,372

Projected Expenditures - Construction

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note: Cash Flow Basis in Thousands

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Phase II CSO Facilities

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Phase II CSO Facilities Program Construction Management

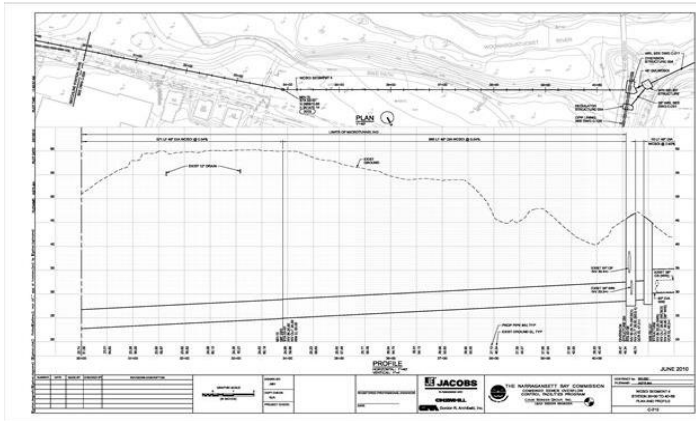


Photo: Plans of the proposed CSO Phase II alignment
Project Overview

Project 30301RS provides Program and Construction Management of the Phase II CSO Phase Facilities construction program, which consists of thirteen construction projects. This project is currently underway and will continue until Phase II of the CSO Program is complete.

Location: N/A
 Contractor(s): Louis Berger Group
 Project Manager: Rich Bernier, P.E.
 Project Priority: A

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	September-10	January-16	64 Months	\$30,315
Total Project	September-10	January-16	64 Months	\$30,315

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 201R

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	4,627	4,266	4,400	4,150	12,872	-	-	-	30,315
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ 4,627	\$ 4,266	\$ 4,400	\$ 4,150	\$ 12,872	\$ -	\$ -	\$ -	\$ 30,315

Note: Cash Flow Basis in Thousands

30302C Phase II CSO Facilities OF 106



Photo: OF 106 at Emmet Street

Project Overview

Location: Central Falls, RI
 Contractor(s): N/A
 Project Manager: Rich Bernier, P. E.
 Project Priority: A

CSO Phase II is the second phase of NBC's CSO Abatement Program. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the Seekonk and Woonasquacket Rivers to the Main Tunnel constructed under Phase I, two sewer separation projects in Providence and a constructed wetlands facility in Central Falls. This project (30302C) is for the construction of the wetlands facility to treat the combined sewer overflow from OF 106 in Central Falls.

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	March-12	February-15	35 Months	\$5,926
Total Project	March-12	February-15	35 Months	\$5,926

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30302C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 12	\$ 60	\$ 80	\$ 5	\$ -	\$ -	\$ -	\$ -	\$ 157
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	1,835	1,674	180	-	-	-	-	3,689
Contingency	-	-	1,000	-	-	-	-	-	1,000
Other	120	480	480	-	-	-	-	-	1,080
Total Project Costs	\$ 132	\$ 2,375	\$ 3,234	\$ 185	\$ -	\$ -	\$ -	\$ -	\$ 5,926

Note: Cash Flow Basis in Thousands

Phase 2 CSO Facilities WC20Main

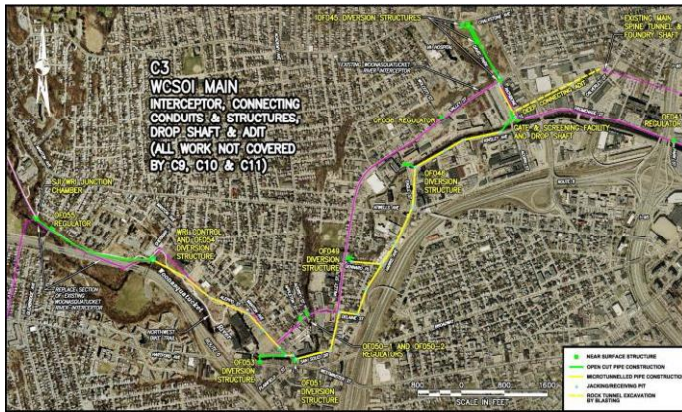


Photo: Proposed Woonasquatucket CSO Interceptor Main alignment
Project Overview

CSO Phase II is the second phase of NBC's CSO Abatement Program. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the Seezon and Woonasquatucket Rivers to the Main Tunnel constructed in Phase I, two sewer separation projects in Providence and a constructed wetlands treatment facility in Central Falls. This project (30303C) will construct a 18,200 foot long Woonasquatucket CSO Interceptor (2 CSOI) along the Woonasquatucket River.

Location: Providence, RI/Central Falls, RI
 Contractor(s): Barletta Heavy/Shanley Balfour Beatty
 Project Manager: Rich Bernier, P.E.
 Project Priority: A

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	September-11	May-16	57 Months	\$86,327
Total Project	September-11	May-16	57 Months	\$86,327

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 2020C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 129	\$ 720	\$ 738	\$ 789	\$ 156	\$ -	\$ -	\$ -	\$ 2,532
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	1,940	17,500	24,000	15,500	1,055	-	-	-	59,995
Contingency	-	-	-	10,800	-	-	-	-	10,800
Other	1,260	3,780	3,780	3,780	400	-	-	-	13,000
Total Project Costs	\$ 3,329	\$ 22,000	\$ 28,518	\$ 30,869	\$ 1,611	\$ -	\$ -	\$ -	\$ 86,327

Note: Cash Flow Basis in Thousands

3030C

Phase II CSO Facilities SCSOI MIN



Photo: Proposed Secon CSO Interceptor alignment
Project Overview

CSO Phase II is the second phase of NBC's CSO Abatement Program. 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 Tunnel constructed in Phase I, two sewer separation projects in Providence and a constructed wetlands facility in Central Falls. This project (30304C) will construct an 8,000 foot long Seekonk CSO Interceptor (SCSOI) along the Seekonk River.

Location: Providence, RI/Central Falls, RI
Contractor(s): N/A
Project Manager: Rich Bernier, P.E.
Project Priority: A

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	February-12	December-15	46 Months	\$30,976
Total Project	February-12	December-15	6 Months	\$30,96

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 3030C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 17	\$ 378	\$ 486	\$ 656	\$ 82	\$ -	\$ -	\$ -	\$ 1,619
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	4,400	10,500	3,577	180	-	-	-	18,657
Contingency	-	-	-	-	3,700	-	-	-	3,700
Other	-	2,000	2,400	2,400	200	-	-	-	7,000
Total Project Costs	\$ 17	\$ 6,778	\$ 13,386	\$ 6,633	\$ 4,162	\$ -	\$ -	\$ -	\$ 30,976

Note: Cash Flow Basis in Thousands

30305C

Phase II CSO Facilities OF 2017



Photo: OF 2017
Project Overview

CSO Phase II is the second phase of NBC's CSO Abatement Program. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the Seezon and Woonasquatucket Rivers to the Main Tunnel constructed in Phase I, two sewer separation projects in Providence, and a constructed wetlands treatment facility in Central Falls. This project (303.05C) is for the separation of combined sewers in the Hope Street area of the East Side of Providence.

Location: Providence, RI/Central Falls, RI
Contractor(s): Bohn Rocchio Corporation
Project Manager: Rich Bernier, P.E.
Project Priority: A

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	March-11	May-14	41 Months	\$11,412
Total Project	March-11	August-14	41 Months	\$11,412

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30305C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 262	\$ 410	\$ 100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 772
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	2,598	4,462	370	-	-	-	-	-	7,431
Contingency	-	-	1,529	-	-	-	-	-	1,529
Other	1,030	600	50	-	-	-	-	-	1,680
Total Project Costs	\$ 3,890	\$ 5,472	\$ 2,049	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,412

Note: Cash Flow Basis in Thousands

30306C

Phase II CSO Facilities Of 017 West



Photo: CSO 017 at Cemetery Street
Project Overview

CSO Phase II is the second phase of NBC's CSO Abatement Program. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the Seebon and Woonasquatucket Rivers to the Main Tunnel constructed in Phase I, two sewer separation projects in Providence and a constructed wetlands facility in Central Falls. This project (30306C) is for the separation of combined sewers in the North Main Street area of the East Side of Providence from Colonial Road to Hillside Avenue.

Location: Providence, RI
Contractor(s): CB Utility
Project Manager: Rich Bernier, P.E.
Project Priority: A

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	May-11	August-14	40 Months	\$12,769
Total Project	May-11	August-14	40 Months	\$12,769

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30306C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 129	\$ 319	\$ 48	\$ 2	\$ -	\$ -	\$ -	\$ -	\$ 498
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	1,808	5,030	555	37	-	-	-	-	7,430
Contingency	-	892	-	-	-	-	-	-	892
Other	1,880	1,240	770	60	-	-	-	-	3,950
Total Project Costs	\$ 3,817	\$ 7,481	\$ 1,373	\$ 99	\$ -	\$ -	\$ -	\$ -	\$ 12,769

Note: Cash Flow Basis in Thousands

Phase II CSO Facilities OF 037 South

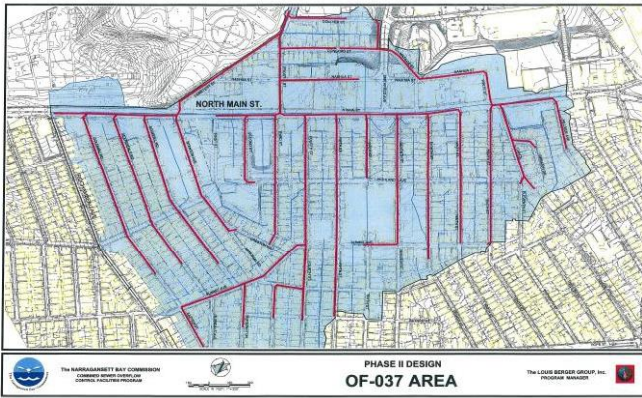


Photo: Proposed OF 037 Sewer Separation Project Overview

CSO Phase II is the second phase of NBC's CSO Abatement Program. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the Seezon and Woonasquatucket Rivers to the Main Tunnel constructed in Phase I, two sewer separation projects in Providence and a constructed wetlands facility in Central Falls. This project (30307C) is for the separation of combined sewers east of North Main Street from Colonial to Fourth Street.

Location: Providence, RI
 Contractor(s): N/A
 Project Manager: Rich Bernier, P.E.
 Project Priority: A

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	July-12	May-15	34 Months	\$15,127
Total Project	July-12	May-15	34 Months	\$15,127

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30307C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ 101	\$ 184	\$ 57	\$ -	\$ -	\$ -	\$ -	\$ 342
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	2,300	9,640	60	-	-	-	-	12,000
Contingency	-	-	-	1,440	-	-	-	-	1,440
Other	-	224	672	449	-	-	-	-	1,345
Total Project Costs	\$ -	\$ 2,625	\$ 10,496	\$ 2,006	\$ -	\$ -	\$ -	\$ -	\$ 15,127

Note: Cash Flow Basis in Thousands

Phase 3C0 Facilities OF 07 North

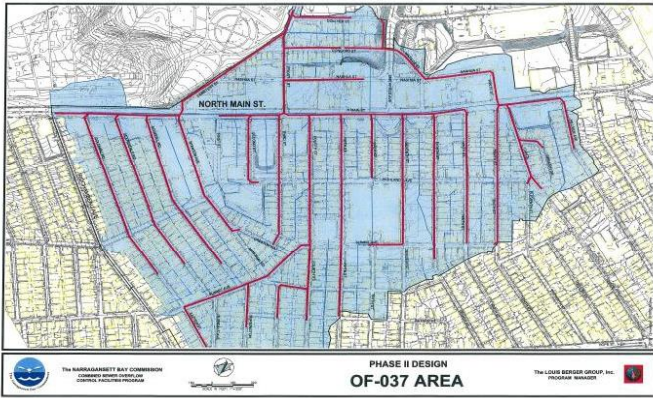


Photo: Proposed OF 07 Sewer Separation Project Overview

CSO Phase II is the second phase of NBC's CSO Abatement Program. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the Seezon and Woonasquatucket Rivers to the Main Tunnel constructed in Phase I, two sewer separation projects in Providence and a constructed wetlands facility in Central Falls. This project (30308C) is for the separation of combined sewers east of North Main Street from Fourth Street to Millside Avenue.

Location: Providence, RI
 Contractor(s): N/A
 Project Manager: Rich Bernier, P.E.
 Project Priority: A

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	August-12	June-15	35 Months	\$15,127
Total Project	August-12	June-15	35 Months	\$15,127

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 3030C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ 101	\$ 184	\$ 57	\$ -	\$ -	\$ -	\$ -	\$ 342
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	2,300	9,640	60	-	-	-	-	12,000
Contingency	-	-	-	1,440	-	-	-	-	1,440
Other	-	224	672	449	-	-	-	-	1,345
Total Project Costs	\$ -	\$ 2,625	\$ 10,496	\$ 2,006	\$ -	\$ -	\$ -	\$ -	\$ 15,127

Note: Cash Flow Basis in Thousands

30309C

Phase 33C3O Facilities WC3O3Regulator



Photo: Walcott Street at Alley Street OF 05
Project Overview

CSO Phase II is the second phase of NBC's CSO Abatement Program. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the Seezon and Woonasquatucket Rivers to the Main Tunnel constructed in Phase I, two sewer separation projects in Providence and a constructed wetlands treatment facility in Central Falls. This project (30309C) is for the modifications to regulator structures OF 050-1, 050-2, 058 and 041.

Location: Providence, RI/Central Falls, RI
Contractor(s): Grove Construction
Project Manager: Rich Bernier, P.E.
Project Priority: A

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	March-11	June-13	27 Months	\$1,240
Total Project	March-11	June-13	27 Months	\$1,240

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30309C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 159	\$ 47	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 206
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	904	29	-	-	-	-	-	-	933
Contingency	51	-	-	-	-	-	-	-	51
Other	20	30	-	-	-	-	-	-	50
Total Project Costs	\$ 1,134	\$ 106	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,240

Note: Cash Flow Basis in Thousands

30310C

Phase 33C3O Facilities WC3O3North



Photo: Infiltration into existing WC3O3North overflow
Project Overview

CSO Phase II is the second phase of NBC's CSO Abatement Program. 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 Tunnel constructed in Phase I, two sewer separation projects in Providence and a constructed wetlands treatment facility in Central Falls. This project (30310C) is for the construction of a 1,800 foot long Woonasquatucket CSO Interceptor (3 CSOI) through Davis Park.

Location: Providence, RI
Contractor(s): Cardi Corporation
Project Manager: Rich Bernier, P.E.
Project Priority: A

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	June-11	May-14	35 Months	\$9,366
Total Project	June-11	May-14	35 Months	\$9,366

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30310C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 39	\$ 139	\$ 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 179
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	1,163	4,151	54	-	-	-	-	-	5,368
Contingency	-	2,400	-	-	-	-	-	-	2,400
Other	400	1,019	-	-	-	-	-	-	1,419
Total Project Costs	\$ 1,602	\$ 7,709	\$ 55	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,366

Note: Cash Flow Basis in Thousands

30311C

Phase 2 CSO Facilities WC00West



Photo: Piping Installation north of Route 6 in Johnston
Project Overview

CSO Phase II is the second phase of NBC's CSO Abatement Program. 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 Tunnel constructed in Phase I, two sewer separation projects in Providence and a constructed wetlands treatment facility in Central Falls. This project (30311C) is for the construction of the 2,400 foot long Woonasquatucket Sewer Interceptor (SI) along the bi-lane path north of Route 6 near the Johnston Town line.

Location: Providence, RI
Contractor(s): DiGregorio, Inc.
Project Manager: Rich Bernier, P.E.
Project Priority: A

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	April-11	February-14	34 Months	\$9,125
Total Project	April-11	February-14	34 Months	\$9,125

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30311C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 137	\$ 80	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 217
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	4,410	2,932	342	-	-	-	-	-	7,685
Contingency	-	164	-	-	-	-	-	-	164
Other	240	724	95	-	-	-	-	-	1,059
Total Project Costs	\$ 4,788	\$ 3,900	\$ 437	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,125

Note: Cash Flow Basis in Thousands

Phase II CSO Facilities CSO Regulator

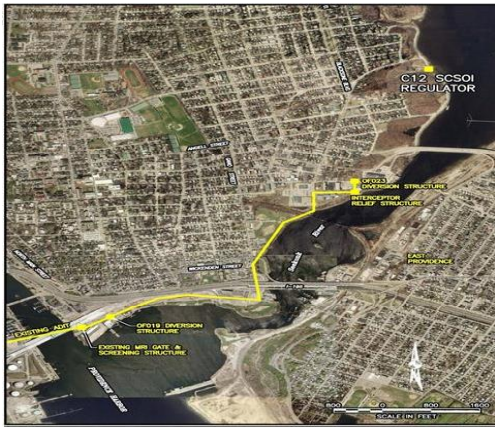


Photo: Proposed Seezon CSO Interceptor Regulator
Project Overview

CSO Phase II is the second phase of NBC's CSO Abatement Program. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the Seezon and Woonasquatucket Rivers to the Main Tunnel constructed in Phase I, two sewer separation projects in Providence and a constructed wetlands facility in Central Falls. This project (30312C) is for the construction of the a new regulator at OF 025 in River Road along the Seezon River.

Location: Providence, RI
Contractor(s): RP Iannicillo & Sons
Project Manager: Rich Bernier, P.E.
Project Priority: A

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	August-11	November-13	28 Months	\$1,932
Total Project	August-11	November-13	28 Months	\$1,932

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30312C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 33	\$ 136	\$ 21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 190
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	210	358	30	-	-	-	-	-	598
Contingency	-	-	1,044	-	-	-	-	-	1,044
Other	30	70	-	-	-	-	-	-	100
Total Project Costs	\$ 273	\$ 564	\$ 1,095	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,932

Note: Cash Flow Basis in Thousands

Phase 2 Facilities Woonasquatucket Site Demolition



Photo: Proposed Woonasquatucket CSO Interceptor Site Demolition Project Overview

CSO Phase II is the second phase of NBC's CSO Abatement Program. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the Seezon and Woonasquatucket Rivers to the Main Tunnel constructed in Phase I, two sewer separation projects in Providence and a constructed wetlands treatment facility in Central Falls. This project (30313C) is for the demolition of 4 buildings so that the construction of the 18,200 foot long Woonasquatucket CSO Interceptor (2 CSOI) along the Woonasquatucket River can be completed

Location: Providence, RI
 Contractor(s): AA Asbestos Abatement Co Inc.
 Project Manager: Rich Bernier, P.E.
 Project Priority: A

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	November-11	July-13	20 Months	\$427
Total Project	November-11	July-13	20 Months	\$427

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 2021

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 86	\$ 59	\$ 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 147
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	165	20	10	-	-	-	-	-	195
Contingency	-	60	-	-	-	-	-	-	60
Other	20	5	-	-	-	-	-	-	25
Total Project Costs	\$ 271	\$ 144	\$ 12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 427

Note: Cash Flow Basis in Thousands

30314C

Phase 37C7O Facilities WC7O7OF 054



Photo: C7O 054

Project Overview

Location: Providence, RI
 Contractor(s): N/A
 Project Manager: Rich Bernier, P.E.
 Project Priority: A

CSO Phase II is the second phase of NBC's CSO Abatement Program. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the See7on7 and 7oonasquatuc7et Rivers to the Main Tunnel constructed in Phase I, two sewer separation projects in Providence and a constructed wetlands treatment facility in Central Falls. This project (30314C) is for the construction of two chambers associated with outfall 054 on the 7oonasquatuc7et Sewer Interceptor (7 SI) along the bi7e path north of Route 6 near the 7ohnston Town line.

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	7uly-12	April-14	22 Months	\$3,150
Total Project	7uly-12	April-14	22 Months	\$3,150

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30314C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ 300	\$ 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 325
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	2,344	25	-	-	-	-	-	2,369
Contingency	-	431	-	-	-	-	-	-	431
Other	-	25	-	-	-	-	-	-	25
Total Project Costs	\$ -	\$ 3,100	\$ 50	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,150

Note: Cash Flow Basis in Thousands

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Phase III CSO Facilities

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CSO Phase III Facilities



Photo: Proposed alignment for the Pawtucket CSO Tunnel
Project Overview

CSO Phase III is the third phase of NBC's CSO Abatement Program. This phase includes the construction of a tunnel in Pawtucket totaling approximately 13,000 feet in length. Phase III also includes three CSO Interceptors totaling approximately 14,500 feet in length and two sewer separation projects. Total cost estimates for CSO Phase III are based on pre-design estimates.

Location: Pawtucket, RI
 Contractor(s): N/A
 Project Manager: Tom Brueckner, P.E.
 Project Priority: A

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	July-15	December-17	29 Months	\$37,012
Construction	August-17	August-22	61 Months	565,950
Total Project	July-15	August-22	77 Months	\$602,962

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 2020

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ 240	\$ 465	\$ 247	\$ -	\$ 952
Land	-	-	-	-	-	-	4,000	-	4,000
A/E Professional	-	-	-	-	11,997	16,001	4,002	-	32,000
Other	-	-	-	-	-	10	50	-	60
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ 12,237	\$ 16,476	\$ 8,299	\$ -	\$ 37,012

Projected Expenditures - 2020C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 875	\$ 5,125	\$ 6,000
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	6,650	49,350	56,000
Construction	-	-	-	-	-	-	25,600	374,400	400,000
Contingency	-	-	-	-	-	-	-	48,000	48,000
Other	-	-	-	-	-	-	6,600	49,350	55,950
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,725	\$ 526,225	\$ 565,950

Note: Cash Flow Basis in Thousands

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Floatables Control Facilities

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0600

Floatables Control Facilities



Photo: Overflow
Project Overview

As part of the nine minimum controls required under EPA's CSO Control Policy, floatables control is to be provided at the Phase III CSO overflows. NBC will conduct an evaluation and then design floatables control for the three largest Phase III overflows OF 205, OF 219 and OF 220. NBC will provide trash racks for the remaining Phase III overflows.

This project is currently in construction.

Location: Pawtucket, RI
Central Falls, RI
Contractor(s): Bohn Rocchio Corporation
Project Manager: Rich Bernier, P.E.
Project Priority: A

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	September-09	August-12	36 Months	\$488
Construction	October-11	February-14	29 Months	5,004
Total Project	September-09	February-14	54 Months	\$5,492

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 0600D

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 167	\$ 30	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 197
Land	-	30	-	-	-	-	-	-	30
A/E Professional	211	-	-	-	-	-	-	-	211
Other	-	50	-	-	-	-	-	-	50
Total Project Costs	\$ 378	\$ 110	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 488

Projected Expenditures - 0600C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 60	\$ 167	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 227
Land	-	-	-	-	-	-	-	-	-
A/E Professional	33	90	-	-	-	-	-	-	123
Construction	822	3,170	210	-	-	-	-	-	4,202
Contingency	-	444	-	-	-	-	-	-	444
Other	-	7	-	-	-	-	-	-	7
Total Project Costs	\$ 915	\$ 3,878	\$ 210	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,004

Note: Cash Flow Basis in Thousands

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Interceptor Inspection and Cleaning and Interceptor Repair and Construction

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Projects 304 M Summary

CSO Interceptor and Cleaning Projects



Photo: Cleaning the sewer at the Omega Pump Station
Project Overview

The 304 M projects continue NBC's program to clean and inspect NBC interceptors as needed. The TV inspections assist in determining pipe conditions and developing solutions to any problems which may be identified. Based on completed inspections to date, the cleaning is needed to remove accumulated grit. As new inspection and cleaning projects are identified from the TV inspections, they will be given a unique project number and draw funding from the funds available in Project 30400M.

Location: Narragansett Bay Commission Service Area
 Contractor(s): Various
 Project Manager: Meg Goulet, P.E.
 Project Priority: B

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Inspection/Cleaning	July-09	Ongoing	Ongoing	\$3,544
Total Project	July-09	Ongoing	Ongoing	\$3,544

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 304 M Summary

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 9	\$ 93	\$ 102	\$ 102	\$ 102	\$ 102	\$ 102	\$ 102	\$ 479
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Inspect/Cleaning	25	316	284	284	284	284	284	284	2,354
Contingency	-	-	-	-	-	-	-	-	-
Other	10	91	114	114	114	114	114	114	711
Total Project Costs	\$ 44	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 3,544

Note: Cash Flow Basis in Thousands

30400C

Repair and Construction of CSO Interceptors



Photo: Removal of abandoned pipe at Atwells Ave. and Valley Street
Project Overview

Project 30400C estimates the unknown costs of interceptor repair and construction resulting from NBC's inspection and cleaning projects and emergency situations. Interceptor repair and construction projects result from such issues as root intrusion, structural damage, odor control, aging infrastructure, inaccessible structures, pipe damage and emergency situations. As new repair and construction projects are identified they are given a unique project number and draw funding from the funds available in Project 30400C.

Location: Narragansett Bay Commission Service Area
 Contractor(s): Various
 Project Manager: Rich Bernier, P.E.
 Project Priority: B

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	July-01	Ongoing	Ongoing	\$6,759
Total Project	July-01	Ongoing	Ongoing	\$6,759

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30400C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ 17	\$ -	\$ 103	\$ 75	\$ 75	\$ 75	\$ 75	\$ 420
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	124	-	410	1,250	1,250	1,250	1,250	5,534
Contingency	-	15	-	49	150	150	150	150	664
Other	-	-	-	41	25	25	25	25	141
Total Project Costs	\$ -	\$ 156	\$ -	\$ 603	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 6,759

Note: Cash Flow Basis in Thousands

Louisquisset Pipe Interceptor Replacement



Photo: Proposed portion of Lincoln Interceptor Replacement
Project Overview

The Facilities Plan for project 30421 identified wet weather capacity problems with the Louisquisset Interceptor and recommended that the southern half of the interceptor in Lincoln be replaced with a larger pipe to accommodate present and projected flows.

Location: Lincoln, RI
 Contractor(s): Beta Engineering
 Project Manager: Terry Cote, P.E.
 Project Priority: C

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	May-07	July-09	26 Months	\$206
Construction	August-13	June-15	22 Months	2,382
Total Project	May-07	June-15	92 Months	\$2,588

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30421D

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 40	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40
Land	-	-	-	-	-	-	-	-	-
A/E Professional	155	-	-	-	-	-	-	-	155
Other	11	-	-	-	-	-	-	-	11
Total Project Costs	\$ 206	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 206

Projected Expenditures - 30421C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ 63	\$ 29	\$ -	\$ -	\$ -	\$ -	\$ 92
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	32	18	-	-	-	-	50
Construction	-	-	1,500	500	-	-	-	-	2,000
Contingency	-	-	-	240	-	-	-	-	240
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ 1,595	\$ 787	\$ -	\$ -	\$ -	\$ -	\$ 2,382

Note: Cash Flow Basis in Thousands

0444

Mosshassuck Alley Interceptor



Photo: Portion of the Mosshassuck Alley Interceptor to be replaced
Project Overview

Recent inspection of 2,600 feet of the Mosshassuck Alley Interceptor from Higginson Street in Central Falls to Lockbridge Street in Pawtucket revealed that this line has sunken from its original grade at numerous points, by as much as 2.5 feet. This settling is causing maintenance problems and accumulation of grease which may result in structural problems. This project would replace this line in the public right of way.

Location: Providence, RI
Contractor(s): N/A
Project Manager: Terry Cote, P.E.
Project Priority: C

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	May-06	October-06	6 Months	\$22
Design	January-12	January-13	12 Months	255
Construction	March-13	December-14	21 Months	2,373
Total Project	May-06	December-14	105 Months	\$2,650

Projected Expenditures - 0444P

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2
A/E Professional	20	-	-	-	-	-	-	-	20
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ 22	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22

Projected Expenditures - 0444D

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 10	\$ 70	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 80
Land	-	30	-	-	-	-	-	-	30
A/E Professional	16	127	-	-	-	-	-	-	143
Other	-	2	-	-	-	-	-	-	2
Total Project Costs	\$ 26	\$ 229	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 255

Projected Expenditures - 0444C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ 2	\$ 76	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 78
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	35	-	-	-	-	-	35
Construction	-	-	1,900	100	-	-	-	-	2,000
Contingency	-	-	240	-	-	-	-	-	240
Other	-	-	20	-	-	-	-	-	20
Total Project Costs	\$ -	\$ 2	\$ 2,271	\$ 100	\$ -	\$ -	\$ -	\$ -	\$ 2,373

Note: Cash Flow Basis in Thousands

0454C

Branch Avenue Interceptor Improvement



Photo: The intake and discharge piping on Branch Avenue
Project Overview

A sink hole appeared in Branch Avenue under the Route 146 overpass in the vicinity of NBC's interceptor. Investigations were made as to the condition of the interceptor. Due to the poor condition of the interceptor, the NBC will line approximately 4,200 linear feet of 20", 36" and 40" pipe from Bingham Street to Langdon Street. This project also includes the rehabilitation of 35 manholes. With this project, the Branch Avenue Interceptor from Douglas Avenue to Route 95 will have been rehabilitated.

Location: Providence, RI
Contractor: Insituform Technologies
Project Manager: Rich Bernier, P.E.
Project Priority: A

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	September-10	January-13	28 Months	\$1,897
Total Project	September-10	January-13	28 Months	\$1,897

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 0454C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 342	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 342
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	1,514	31	-	-	-	-	-	-	1,545
Contingency	-	-	-	-	-	-	-	-	-
Other	10	-	-	-	-	-	-	-	10
Total Project Costs	\$ 1,866	\$ 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,897

Note: Cash Flow Basis in Thousands

0455C

Improvements to NBC Interceptors FY 2013



Photo: Working at an interceptor improvement location
Project Overview

Project 30455C will line 4,612 linear feet of sewer pipe, rehabilitate 33 manholes and do various spot repairs to three different interceptors at various locations in Providence, Johnston, North Providence and Pawtucket, Rhode Island.

Location: Providence, RI
Contractor: N/A
Project Manager: Rich Bernier, P.E.
Project Priority: A

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	April-12	August-14	28 Months	\$1,500
Total Project	April-12	August-14	28 Months	\$1,500

Projected Expenditures - Planning

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

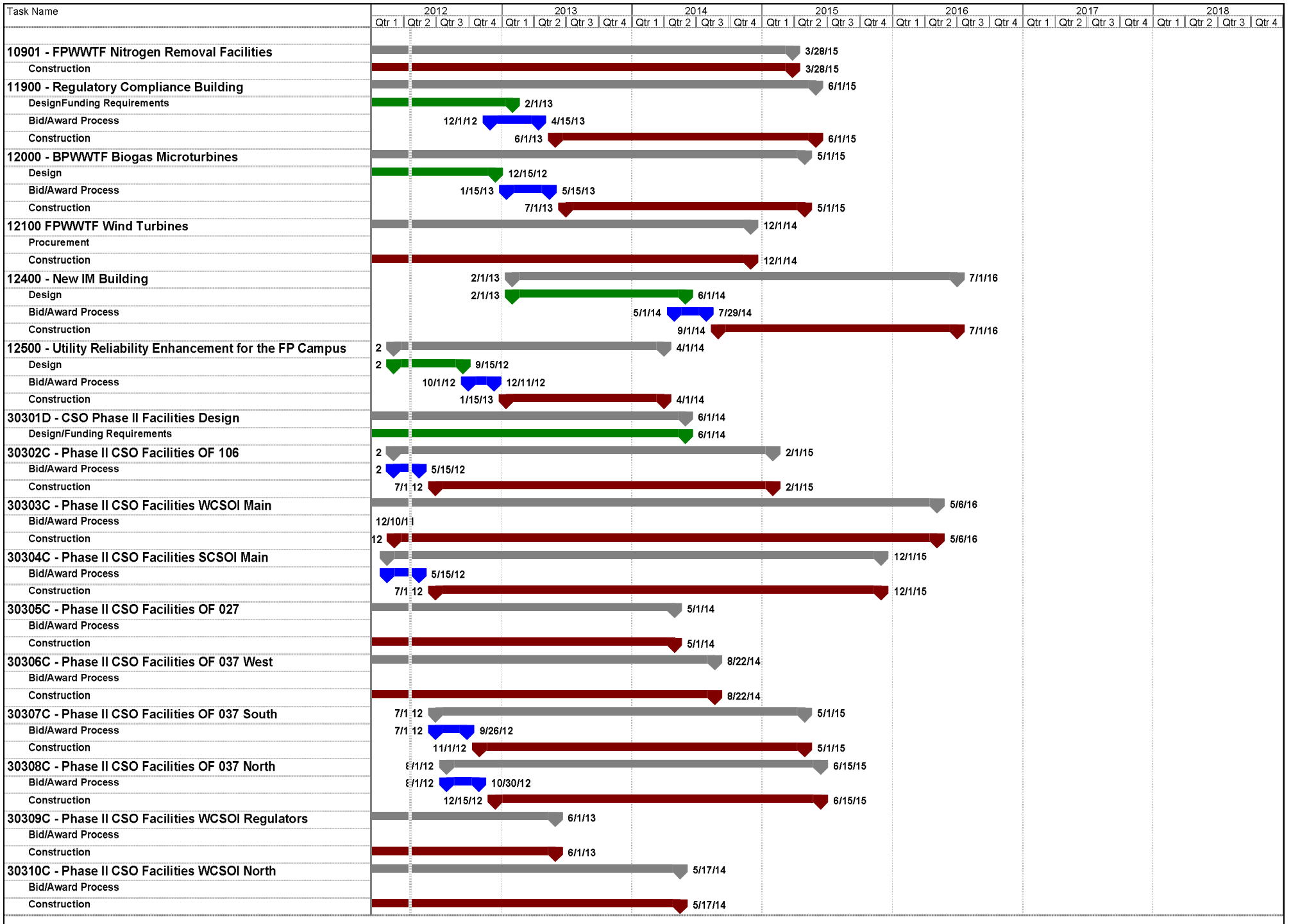
Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

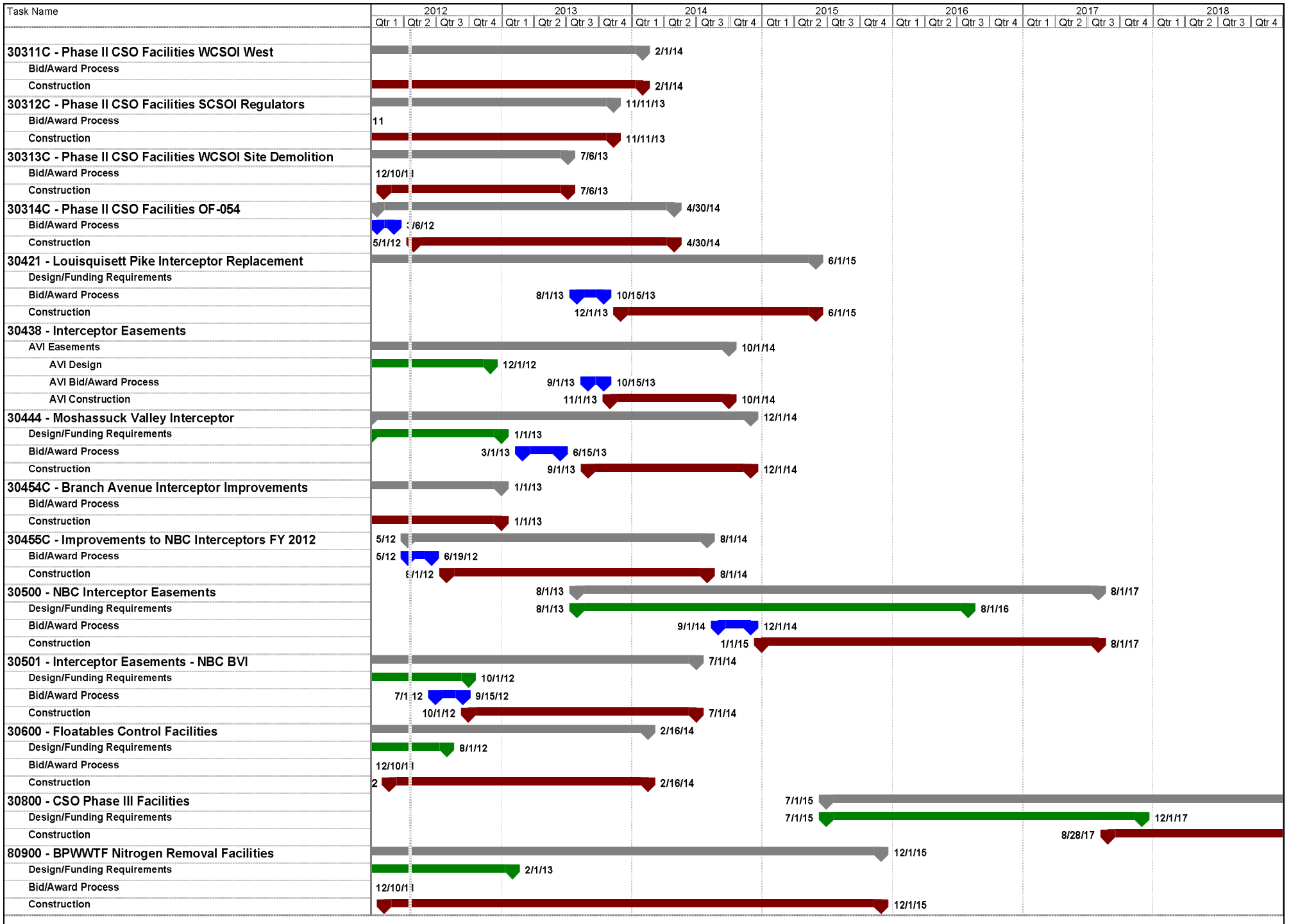
Projected Expenditures - 0455C

Cost Category	Pre-FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Post-FY 2018	Total
Administrative	\$ 38	\$ 82	\$ 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 130
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	990	205	10	-	-	-	-	1,205
Contingency	-	-	145	-	-	-	-	-	145
Other	10	10	-	-	-	-	-	-	20
Total Project Costs	\$ 48	\$ 1,082	\$ 360	\$ 10	\$ -	\$ -	\$ -	\$ -	\$ 1,500

Note: Cash Flow Basis in Thousands

Appendix





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