

NARRAGANSETT BAY COMMISSION



CAPITAL IMPROVEMENT PROGRAM

FISCAL YEARS



Vincent J. Mesolella
Chairman

Raymond J. Marshall, P.E.
Executive Director



**Capital Project Cost Summary for Fiscal Years 2015-2019
(In Thousands)**

Page Number	Project Number	Project Name	FY 2015 - FY 2019 (in thousands)
Wastewater Treatment Facility Improvements			
23	10901C	FPWWTF - Nitrogen Removal Facilities - Construction	\$ 808
25	11900C	Regulatory Compliance Building Construction	12,415
26	12000C	BPWWTF - Biogas Reuse - Construction	1,693
27	12100C	FPWWTF Wind Turbine - Construction	120
28	12400D	New IM Facilities - Design	557
28	12400C	New IM Facilities - Construction	6,052
29	12500C	Utility Reliability Enhancement for FP Campus	60
30	12600C	FPWWTF Land Acquisition & Site Demolition	540
31	80900C	BPWWTF - Nitrogen Removal Facilities - Construction	4,611
<i>Subtotal - Wastewater Treatment Facility Improvements</i>			<u>26,856</u>
Infrastructure Management			
33	1100000	Site Specific Study	246
35	1140200	Receiving Water Compliance Study	150
37	30438C	Interceptor Easements - Construction	518
38	30500D	NBC Interceptor Easements - Design	2,183
38	30500C	NBC Interceptor Easements - Construction	2,497
39	30501C	Interceptor Easements - NBC BVI Construction	730
40	30700	NBC System-Wide Facilities Planning	1,370
<i>Subtotal - Infrastructure Management</i>			<u>7,693</u>
Phase II CSO Facilities			
41	30301D	Phase II CSO Facilities - Design	95
42	30301RS	Phase II CSO Facilities - Program & Construction Management	16,019
43	30302C	Phase II CSO Facilities - OF 106	1,584
44	30303C	Phase II CSO Facilities - WCSOI Main	25,932
45	30304C	Phase II CSO Facilities - SCSOI Main	7,689
46	30305C	Phase II CSO Facilities - OF 027	370
47	30306C	Phase II CSO Facilities - OF 037 West	752
48	30307C	Phase II CSO Facilities - OF 037 South	4,091
49	30308C	Phase II CSO Facilities - OF 037 North	4,967
55	30314C	Phase II CSO Facilities - WCSOI of 054	13
<i>Subtotal - Phase II CSO Facilities</i>			<u>61,512</u>
Phase III CSO Facilities			
57	30800D	Phase III CSO Facilities - Design	37,399
57	30800C	Phase III CSO Facilities - Construction	166,025
<i>Subtotal - Phase III CSO Facilities</i>			<u>203,424</u>
CSO Interceptor Inspection & Cleaning			
61	30400M	Inspection and Cleaning of CSO Interceptors	2,500
<i>Subtotal - CSO Interceptor Inspection & Cleaning</i>			<u>2,500</u>
CSO Interceptor Repair & Construction			
62	30400C	Repair and Construction of CSO Interceptors	1,500
63	30421C	Louisquisset Pike Interceptor Replacement - Construction	2,382
64	30444C	Moshassuck Valley Interceptor - Construction	512
65	30455C	Improvements to Interceptors FY 2012	85
66	30456C	NBC Interceptor Lining at Butler Hospital	4
67	30457D	Providence River Siphon Replacement - Design	755
67	30457C	Providence River Siphon Replacement - Construction	6,138
68	30458D	Douglas/Branch Avenue Interceptor Relief - Design	565
68	30458C	Douglas/Branch Avenue Interceptor Relief - Construction	6,528
<i>Subtotal - CSO Interceptor Repair & Construction</i>			<u>18,468</u>
Total Capital Improvement Program			<u><u>\$ 320,454</u></u>

This page was intentionally left blank.

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 \$100,000 and are for new facilities as well as the repair and replacement of existing infrastructure. The CIP shows programmed expenditures for fiscal year (FY) 2014 as well as the five-year period of fiscal years 2015-2019, 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 58 projects that are either in progress, to be initiated or to be completed during the window.

The estimated costs for this year's CIP window are \$320.5 million with additional capital expenditures projected to be \$108.3 million in FY 2014 for a total of \$428.8 million during FY 2014-2019. The majority of the costs are related to the construction of the Combined Sewer Overflow (CSO) Phase II Facilities and the Nitrogen Removal Facilities at both Field's Point and Bucklin Point. Programmed expenditure for the federally mandated CSO Phase III facilities are programmed to begin in FY 2014 as NBC begins the design phase as required under the consent agreement between NBC and RIDEM. Construction costs are programmed to begin in FY 2018. For planning purposes, the programmed expenditures are classified into cost categories, as shown in the following table.

FY 2015-2019 CIP Costs by Category

(In thousands)

Category	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2015-2019	FY 2014-2019
Administrative	\$ 4,464	\$ 3,502	\$ 1,850	\$ 1,261	\$ 1,277	\$ 1,675	\$ 9,564	\$ 14,028
Land	1,400	550	600	300	4,000	-	5,450	6,850
A/E Professional	4,343	9,016	13,366	15,061	6,825	14,400	58,668	63,012
Construction	80,179	36,353	21,092	10,125	27,905	97,575	193,049	273,229
Contingency	8,399	10,504	11,920	1,184	584	150	24,342	32,741
Other	9,526	4,813	2,768	549	6,750	14,500	29,380	38,905
Total	\$ 108,311	\$ 64,738	\$ 51,596	\$ 28,479	\$ 47,341	\$ 128,300	\$ 320,454	\$ 428,765

Capital Improvement Program Assumptions

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

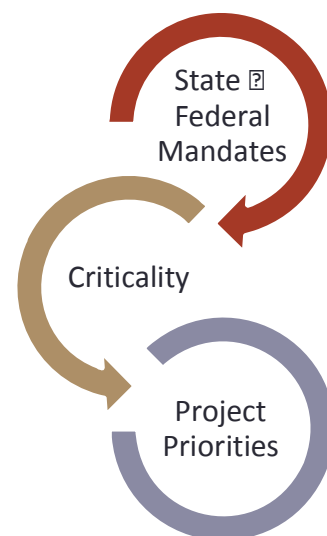
- Costs and cash flows are based on engineering estimates as well as bid amounts, once they become available.
- The CIP does not include the operating capital outlay expenses for the acquisition or replacement of long term assets required on an annual basis. These expenses are identified in NBC's annual operating budget and are outlined in the five-year Operating Capital Outlay Plan.
- The majority of construction projects include a 12% contingency based on the original construction cost estimate, 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. 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 85% of the projects identified in the window are prioritized with an "A" ranking and total approximately \$272.1 million.



In addition, 12% or \$37.1 million of projects are identified with a “B” ranking, which includes projects imperative to NBC’s ongoing operations. Finally 4%, or approximately \$11.3 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)

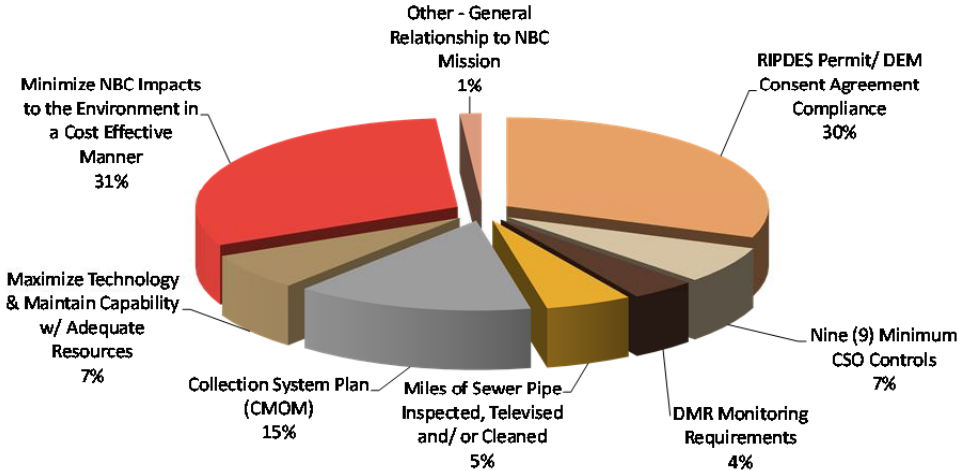
Project Priority	Fiscal Year 2015	Fiscal Year 2016	Fiscal Year 2017	Fiscal Year 2018	Fiscal Year 2019	Fiscal Years 2015-2019	Ranking Percentage
A	\$ 44,922	\$ 42,062	\$ 14,949	\$ 43,852	\$ 126,300	\$ 272,084	85%
B	15,678	6,003	9,941	3,434	2,000	37,054	12%
C	4,139	3,532	3,590	55	-	11,316	4%
Total	\$ 64,738	\$ 51,596	\$ 28,479	\$ 47,341	\$ 128,300	\$ 320,454	100%

Capital Projects by Strategic Objective

NBC’s Strategic Plan ensures the ability to meet water quality objectives set forth by 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 multiple purposes.

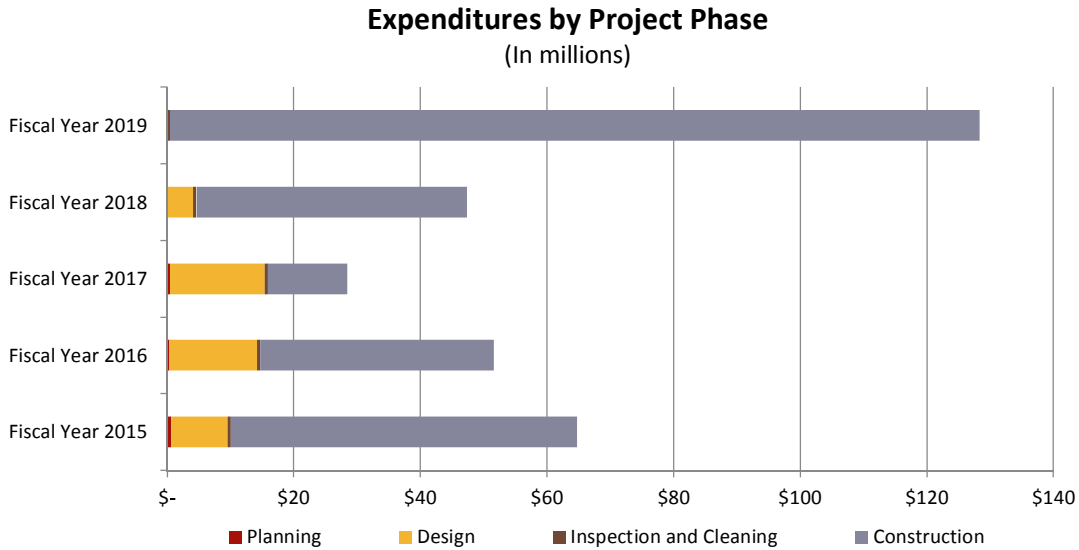
Of the 58 CIP projects, 31% are to Minimize NBC’s Impacts to the Environment in a Cost Effective Manner and 30% are related to the RIPDES Permit/DEM Consent Agreement Compliance Objective. In addition, 15% are related to the Collection System Plan Objective which relates to capacity management and operation 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

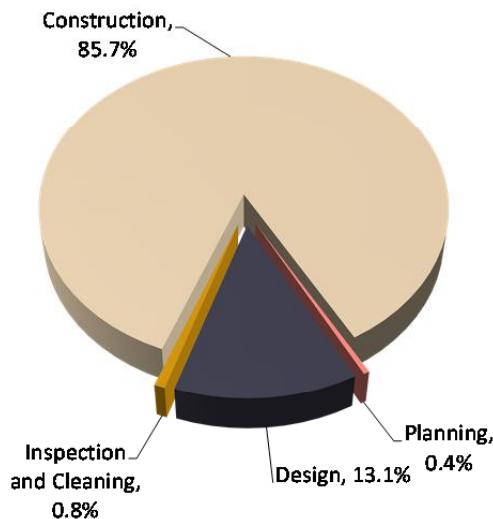


Capital Expenditure by Phase

NBC's large construction projects are delineated by three phases: planning, design and 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 below illustrates the programmed capital expenditures by project phase. The construction phase has the largest amount of expenditures during the window, with approximately 85.7% or \$274.5 million of the total expenditures. Design has the second largest amount of programmed expenditures with \$41.9 million or 13.1% of the expenditure. Finally, Planning and Inspection and Cleaning represent approximately 0.4% and 0.8% of the total respectively.



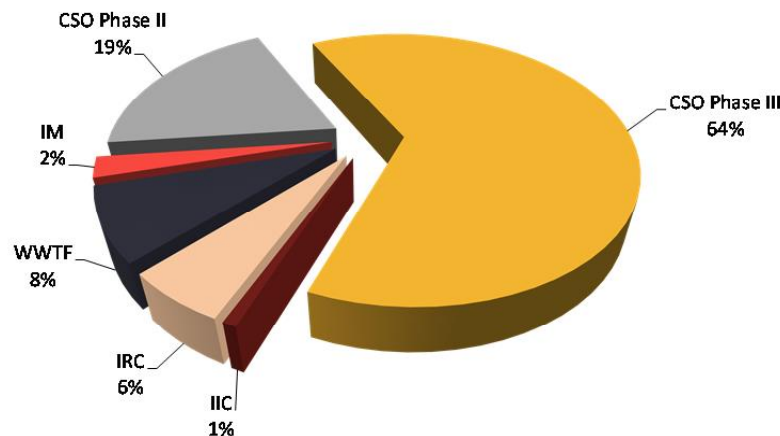
Capital Improvement Program Project Cost Allocation

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 following table.

Functional Area	Definition
Wastewater Treatment Facility Improvements (WWTF)	Projects related to improvements at the NBC's Wastewater Treatment Facilities including 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)	CSO Floatables Control Facilities projects.
CSO Interceptor Inspection and Cleaning (IIC)	Projects related to interceptor inspection and cleaning.
CSO Interceptor Repair and Construction (IRC)	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 \$320.5 million in capital expenditures scheduled over this year's CIP window, \$203.4 million, or 64%, is allocated to begin design and construction of Phase III of the CSO Abatement Project. Approximately \$61.5 million, or 19%, is for Phase II of the CSO Abatement Project. In addition \$26.9 million, or 8%, is for Wastewater Treatment Facility Improvements, of which \$12 million will be spent on the construction of the new Regulatory Compliance Building located at Field's Point. The remaining expenditures of \$28.7 million or 9% are for Infrastructure Management, 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 2014-2018) CIP to the current year (FY 2015-2019) CIP. The most significant change is due to the CIP's window shift from year to year. The functional area with the largest increase of 165% is for the CSO Phase III Facilities as the design evaluation will begin in 2014 and 2015 and construction is scheduled to begin in 2018. In addition, the CSO Interceptor Repair and Construction increased by 80.6% as a result of new repair and construction projects. The remaining areas show decreases, reflecting the completion of capital projects. The

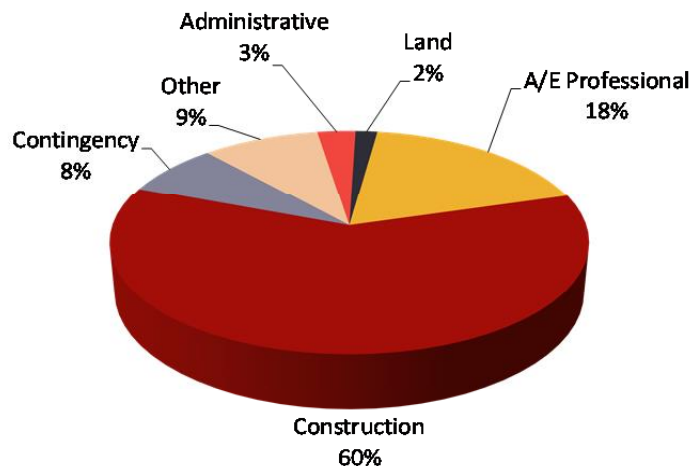
Wastewater Treatment Facility Improvements decreased by \$24.4 million as compared to last year’s CIP window as the FPWWTF Biological Nutrient Removal Facilities are completed. CSO Phase II decreased by \$78.8 million due to construction being performed in FY 2013 and FY 2014. Overall, there is a 10.6% increase 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 2014-2018)	Current Year CIP (FY 2015-2019)	% Change
Wastewater Treatment Facility Improvements	\$ 51,260	\$ 26,856	(48%)
Infrastructure Management	8,392	7,693	(8%)
CSO Phase II Facilities	140,315	61,512	(56%)
CSO Phase III Facilities	76,737	203,424	165.1%
Floatables Control Facilities	210	-	(100%)
CSO Interceptor Inspection and Cleaning	2,500	2,500	(0%)
CSO Interceptor Repair and Construction	10,226	18,468	80.6%
Total	\$ 289,640	\$ 320,454	10.6%

For planning purposes, the programmed expenditures within each project are classified into cost categories. Cost categories include the Administrative category, which includes NBC’s project 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 \$193.1 million, or approximately 60% of the total costs within the five-year period. Architectural and Engineering services represent approximately \$58.7 million or 18% of the costs during this same period.

CIP Costs by Type of Activity



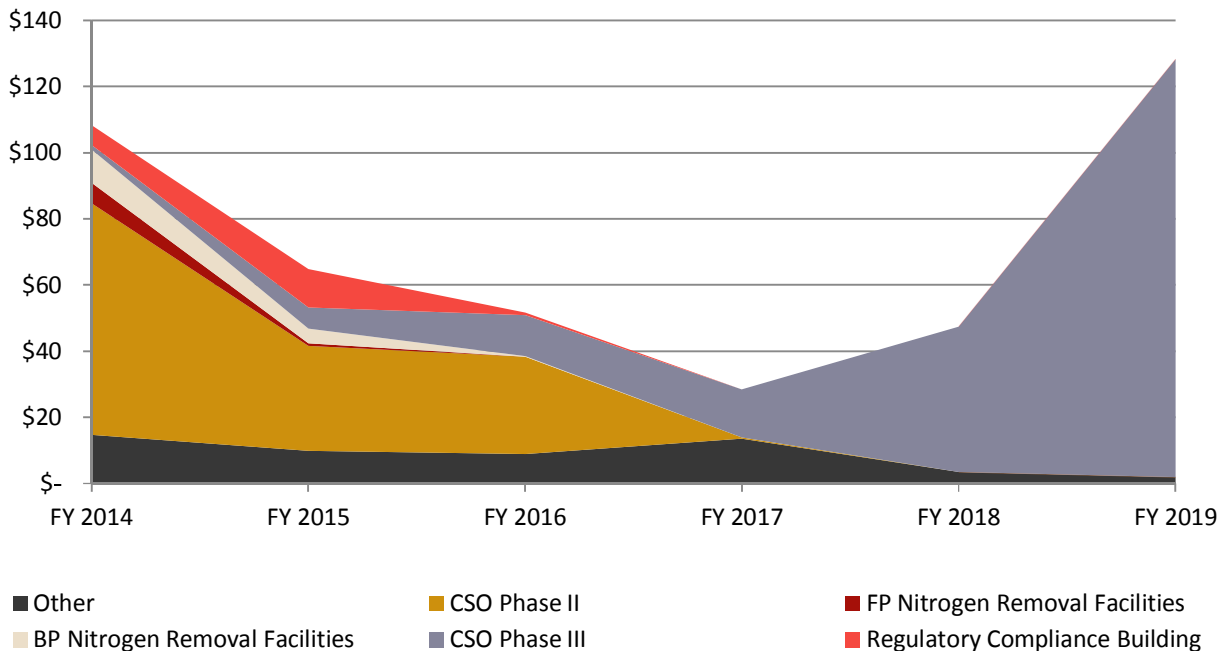
Significant Capital Improvement Projects

This year's CIP includes costs for five significant Capital Improvement Projects: construction of the CSO Phase II Facilities, Nutrient Removal Facilities at Field's Point, Nutrient Removal Facilities at Bucklin Point, the commencement of the design and construction phase for the Phase III CSO Facilities in FY 2014 and the construction of the Regulatory Compliance Building. Costs for these five projects during the five-year period total \$282.8 million, or 88% of this year's CIP. Construction of the Field's Point Nutrient Removal Facilities is scheduled for completion in FY2014. Construction of the CSO Phase II Facilities and the construction of the Bucklin Point Nutrient Removal Facilities are scheduled to be complete in FY 2015. 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 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2015 -FY 2019	Five-Year Window
CSO Phase II Facilities	\$ 69,973	\$ 31,751	\$ 29,463	\$ 299	\$ -	\$ -	\$ 61,512	19%
CSO Phase III Facilities	1,307	6,281	12,341	14,650	43,852	126,300	203,424	63%
Regulatory Compliance Building	6,052	11,635	780	-	-	-	12,415	4%
FP Nitrogen Removal Facilities	6,166	808	-	-	-	-	808	0%
BP Nitrogen Removal Facilities	10,028	4,423	188	-	-	-	4,611	1%
Other	14,785	9,839	8,825	13,531	3,489	2,000	37,683	12%
Total	\$ 108,311	\$ 64,738	\$ 51,596	\$ 28,479	\$ 47,341	\$ 128,300	\$ 320,454	100%

Expenditures by Major Project
(In Millions)



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 continues with the facilities construction in accordance with the schedule set forth in the Consent Agreement between NBC and RIDEM.

This project was separated into fourteen different construction contracts based upon the tasks to be completed. All fourteen contracts have been awarded and construction is approximately 42% complete. Construction costs for the CSO Phase II Facilities are estimated at \$212.0 million which is \$21.2 million less than last year as a result of bids that were lower than estimated costs. The construction costs for FY 2015-2019 are approximately \$61.4 million, or 19% of the total costs included in the five-year window. The table below lists the projects and their estimated costs compared to last year's CIP.

Phase II also includes four sewer separation projects on the East Side of Providence which will separate the sanitary flow from the stormwater flow. As part of this project, catch basins and storm drains will be constructed and downspouts will be disconnected to eliminate stormwater from entering the sanitary sewer system. A wetlands treatment facility will be constructed in Central Falls and will consist 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.



Photo: Tunneling pipe for the Woonasquatucket Interceptor

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 2015. The interceptors will eliminate discharge from approximately ten outfalls (OFs) for most storms, and convey the flows to the CSO Tunnel constructed in Phase I.

Phase II CSO Facilities - Total Construction Cost Comparison		2014-2018 CIP	2015-2019 CIP	Difference
30301RS	Phase II CSO Facilities - Program Construction Mgmt	\$ 30,315	\$ 30,315	\$ (0)
30302C	Phase II CSO Facilities - OF 106	5,926	5,924	(2)
30303C	Phase II CSO Facilities - CSOI	86,327	78,325	(8,002)
30304C	Phase II CSO Facilities - SCSOI Main	30,976	25,973	(5,003)
30305C	Phase II CSO Facilities - OF 027	11,412	11,991	579
30306C	Phase II CSO Facilities - OF 037 est	12,769	12,706	(63)
30307C	Phase II CSO Facilities - OF 037 South	15,127	11,490	(3,637)
30308C	Phase II CSO Facilities - OF 037 North	15,127	10,835	(4,292)
30309C	Phase II CSO Facilities - CSOI Regulator	1,240	1,101	(139)
30310C	Phase II CSO Facilities - CSOI North	9,366	9,277	(89)
30311C	Phase II CSO Facilities - CSOI est	9,125	10,252	1,127
30312C	Phase II CSO Facilities - SCSOI Regulator	1,932	736	(1,196)
30313C	Phase II CSO Facilities - CSOI Site Demolition	427	153	(274)
30314C	Phase II CSO Facilities - CSOI OF 054	3,150	2,915	(235)
Total Phase II Facilities - Construction		\$ 233,219	\$ 211,993	\$ (21,226)

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 RIDEM. 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 TTF for treatment. Total pre-design cost estimates are \$604.7 million, with \$203.4 million in the CIP window, representing 63% of costs. Design of the CSO Phase III Facilities is scheduled to begin in FY 2014 and involves a reevaluation of the proposed CSO Phase III program. This reevaluation will determine the improvement in water quality as a result of the work completed in the first two phases, and determine if Phase III needs to be completed. If Phase III is deemed necessary, the proposed facilities will be evaluated to determine the most cost effective approach. Design of the CSO Phase III Facilities represents approximately \$37.4 million in this year's CIP window.



Photo: Highlighted route of CSO Phase III

Nitrogen Removal at Field's Point and Bucklin Point

In accordance with terms of the Consent Agreement between NBC and RIDEM, 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 TTF's.

Field's Point

The construction cost estimate for the Field's Point nitrogen removal facilities and related upgrades (Project 109) is \$67 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 RICF, included 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 97% complete and are scheduled for completion in 2013. The Facility has been upgraded to remove nitrogen compounds using the Integrated Fixed Film Activated Sludge (IFAS) process. Existing aeration basins have been modified



Photo: New turbo blowers at Field's Point

to provide four separate zones in each tank to facilitate nitrogen removal. The existing blower building has also been modified to house nine new turbo blowers to provide aeration for the nitrogen removal process.



Photo: Workers placing grout for replaced screw lift pumps

The new Operations Building houses 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. A new screenings facility was built to eliminate fine solids from the flow prior to its entering the aeration tanks, screw lift pumps were replaced, and new piping was installed. Tanks and effluent pumps will be installed for the chemical addition of carbon and alkalinity needed for the BNR process.

Bucklin Point

NBC's facilities at Bucklin Point were originally designed and constructed to achieve a nitrogen level of 8 mg/l, but subsequent to the completion of construction, RIDEM also established a new permit nitrogen limit of 5 mg/l for NBC's Bucklin Point facility. In FY 2012, NBC began the process of upgrading the existing Biological Nutrient Removal (BNR) facilities and constructing new facilities in order to achieve the new permit nitrogen limit.

The construction cost estimate for the Bucklin Point nitrogen removal facilities and related upgrades (Project 809) is \$43 million. Currently, construction of the nitrogen removal facilities and improvements are approximately 49% complete.



Photo: Reconfiguring of aeration tank at Bucklin Point

As part of this project, the existing two stage aeration tanks will be reconfigured to a four stage process with one additional anoxic zone and one additional aerobic zone to provide improved nitrogen removal and attain the permit nitrogen limit. A number of process and mechanical improvements have been made throughout the facility, including modifications to the electrical distribution system. Existing facilities are being modified to accommodate new equipment and technology and construction of new facilities is underway for the additional processes necessary to meet the required permit nitrogen limit.

Renewable Energy

A renewable energy source is one which is continuously created. Renewable energy sources minimize greenhouse gases and allow 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) converts wind energy into electricity using three 1.5 mega-watt turbines. This project will generate clean sustainable energy both for use on-site for wastewater treatment operations and sale back to the grid. In addition to reducing greenhouse gas emissions, the wind turbines will help offset projected increases in utility use associated with the new BNR facilities. The three wind turbines became operational in October 2012. Final improvements to the interconnection facilities are anticipated to be complete in early FY 2014 which will enable NBC to increase electricity production. NBC has also applied for authorization to sell Renewable Energy Credits which will generate revenues in FY 2014 if they are successfully marketed. The project is expected to cost approximately \$15.4 million.



Photo: One of three wind turbines at Field's Point

Bucklin Point Wastewater Treatment Facility Biogas Reuse



Photo: Digester tank at Bucklin Point

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 and biologically decompose in the absence of oxygen, generating a methane rich biogas byproduct.

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. 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 \$5.6 million.

Collection System Infrastructure



Photo: Inserting of lining at an interceptor in project location

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. These improvement projects are identified through the inspection process they are funded from the annual allocation.

Capital Improvement Program Changes

Completed Projects

Of the three projects completed last year 77% of the expenditures were related to the CSO Interceptor Repair and Construction. The Wastewater Treatment Facility Improvements and the CSO Interceptor Inspection and Cleaning functional areas accounted for the remaining 23% of the completed project expenditures. The following table summarizes the completed project costs which totaled \$2.4 million.

Project Number	Project Name	Total Cost (In thousands)
<u>Wastewater Treatment Facility Improvements</u>		
11601C	FP @ TF Pump Replacement	\$ 303
	<i>Subtotal</i>	<u>303</u>
<u>CSO Interceptor Inspection and Cleaning</u>		
30430M	@ RI Route 10 Inspection and Cleaning	252
	<i>Subtotal</i>	<u>252</u>
<u>CSO Interceptor Repair and Construction</u>		
30454C	Branch @venue Interceptor Improvement	1,833
	<i>Subtotal</i>	<u>1,833</u>
Completed Project Total		\$ 2,388

New Projects

This year's CIP identifies seven new capital projects. Project 1140200 involves a study of the effect of nitrogen reductions on dissolved oxygen levels in NBC receiving waters in upper Narragansett Bay at a projected cost of \$300 thousand. This is a complex issue and the resulting report and legal analysis may have a significant impact on the extent to which NBC is mandated to continue with costly capital improvements. Also new this year is \$721 thousand for the design and construction of Project 11602 which involves the rehabilitation of a canopy roof in the Tunnel Pump Station that protects the pump station equipment. Project 12600 relates to a land acquisition for property adjacent to NBC's Field's Point Wastewater Treatment Facility. This acquisition serves two purposes. First, demolition of the deteriorated buildings on the site will eliminate debris from blowing into NBC's treatment facilities and second, it will give NBC room to locate new facilities.

Project 30470M involves the inspection and cleaning of approximately four miles of NBC-owned interceptors in the Town of North Providence at an estimated cost of \$165 thousand. There are three new collection system projects. Project 30456 includes planning, design, and construction and involves the lining of approximately 2,400 feet of sewer pipe, rehabilitation of manholes and other repairs to NBC's sewer line. Project 30457, at a projected cost of \$6.1 million, is for the planning, design, and construction of the Providence River Siphon which is more than 100 years old and is critical for the conveyance of flows from the East Side of Providence to the Allen's Avenue Interceptor. Project 30458 is for Douglas/Branch Avenue Interceptor Relief at an estimated cost of \$7.2 million. The planning, design, and construction are needed to eliminate surcharging in wet weather which may result in Sanitary Sewer Overflows. The new projects are shown in the following table.

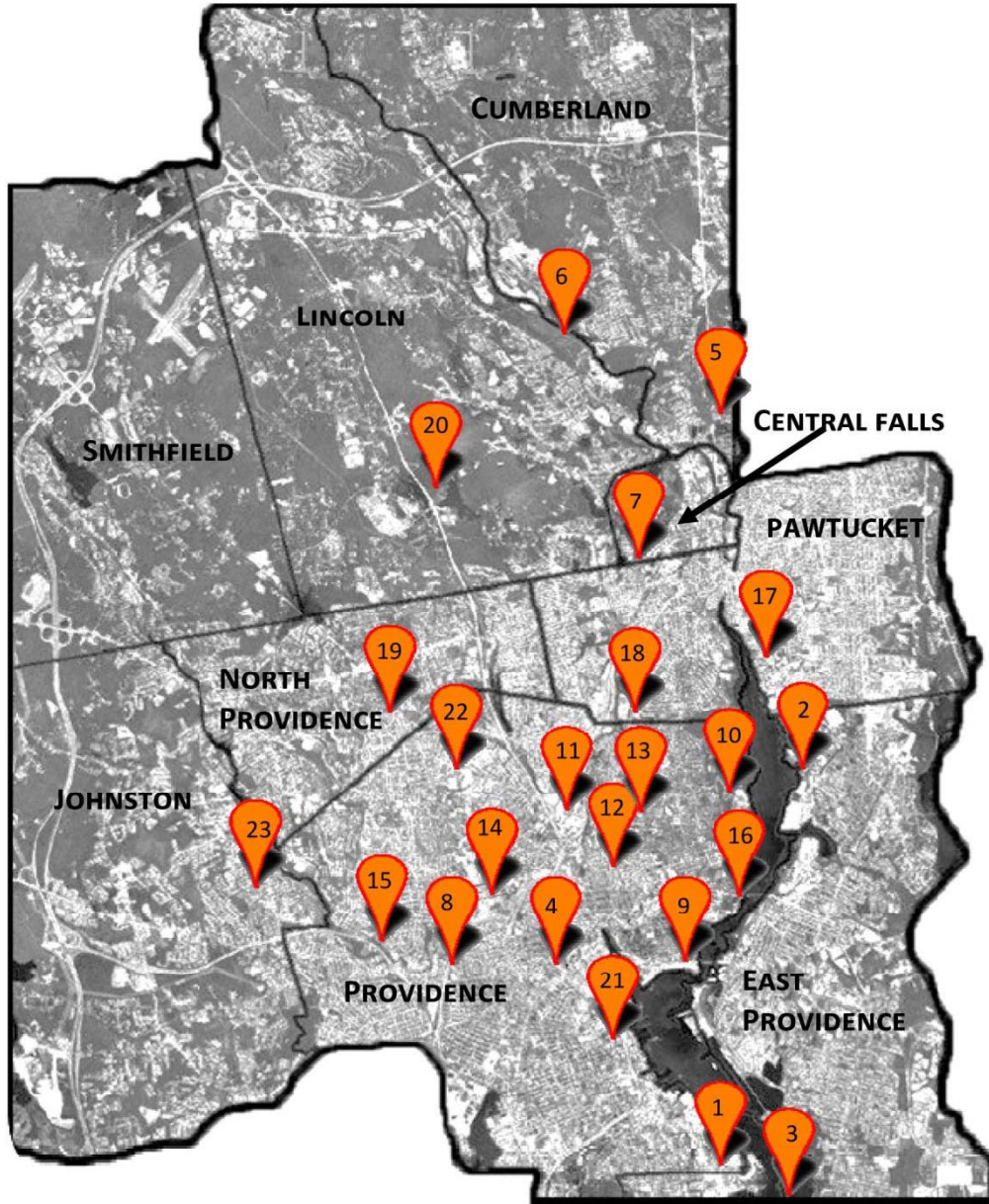
Project Number	Project Name	Estimated Cost (In thousands)
1140200	Receiving Water Compliance Study	\$ 300
11602D	FPWWTF Tunnel Pump Station Improvements - Design	58
11602C	FPWWTF Tunnel Pump Station Improvements - Construction	663
12600C	FPWWTF Land Acquisition/Site Demo	1,607
30470M	North Providence Interceptor Inspection	165
30456C	NBC Interceptor Lining at Butler Hospital	540
30457P	Providence River Siphon Replacement - Planning	224
30457D	Providence River Siphon Replacement - Design	830
30457C	Providence River Siphon Replacement - Construction	6,138
30458P	Douglas/Branch Avenue Interceptor Relief - Planning	67
30458D	Douglas/Branch Avenue Interceptor Relief - Design	565
30458C	Douglas/Branch Avenue Interceptor Relief - Construction	6,528
Total		\$ 17,685

Capital Improvement Program Project Locations

The capital projects identified in this year's CIP are shown on the map on the following page. The map highlights 23 project locations as identified in the key below.

Legend Key	Project Number	Project Name
Wastewater Treatment Facility Improvements		
1	10901	FPWWTF - Nitrogen Removal Facilities
1	11602	FPWWTF Tunnel Pump Station Improvements
1	11900	Regulatory Compliance Building
2	12000	BPWWTF - Biogas Reuse
1	12100	FPWWTF - Wind Turbine
1	12400	NBC IM Facilities
1	12500	Utility Reliability Enhancement for the Field's Point Campus
1	12600	FPWWTF Land Acquisition/Site Demo
2	80900	BPWWTF - Nitrogen Removal Facilities
Infrastructure Management		
3	1100000	Site Specific Study
3	1140100	River Model Development
3	1140200	Receiving Water Compliance Study
4	30221	Hydraulic Systems Modeling
5	30438	Interceptor Easements - Construction
	30500	NBC Interceptor Easements
6	30501	Interceptor Easements - NBC BVI
	30700	NBC System-wide Facilities Planning
Phase II CSO Facilities		
7	30302C	Phase II CSO Facilities - OF 106
8	30303C	Phase II CSO Facilities - WCSOI Main
9	30404C	Phase II CSO Facilities - SCSOI Main
10	30305C	Phase II CSO Facilities - OF 027
11	30306C	Phase II CSO Facilities - OF 037 West
12	30307C	Phase II CSO Facilities - OF 037 South
13	30308C	Phase II CSO Facilities - OF 037 North
8	30309C	Phase II CSO Facilities - WCSOI Regulator
14	30310C	Phase II CSO Facilities - WCSOI North
15	30311C	Phase II CSO Facilities - WCSOI West
16	30312C	Phase II CSO Facilities - SCSOI Regulator
8	30313C	Phase II CSO Facilities - WCSOI Site Demolition
15	30314C	Phase II CSO Facilities - WCSOI OF 054
Phase III CSO Facilities		
17	30800	Phase III CSO Facilities
Floatables Control Facilities		
18	30600	Floatables Control Facilities
CSO Interceptor Inspection and Cleaning		
19	30470M	North Providence Interceptor Inspection
CSO Interceptor Repair and Construction		
20	30421	Louisquisset Pike Interceptor Replacement
7	30444	Moshassuck Valley Interceptor
23	30455C	Improvements to NBC Interceptors FY 2012
10	30456C	NBC Interceptor Lining at Butler Hospital
21	30457C	Providence River Siphon Replacement
22	30458C	Douglas/Branch Avenue Interceptor Relief

CAPITAL IMPROVEMENT PROGRAM PROJECT LOCATIONS



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 Rhode Island Clean Water Finance Agency (RICWA) to the extent that there are loans available. The RICWA, through the State Revolving Fund Program (SRF), provides interest rate subsidies on loans for eligible projects. However, RICWA does not have sufficient capacity to meet all the NBC's needs.

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 Eighteen Supplemental Indentures.

Impact of the CIP on the Operating Budget

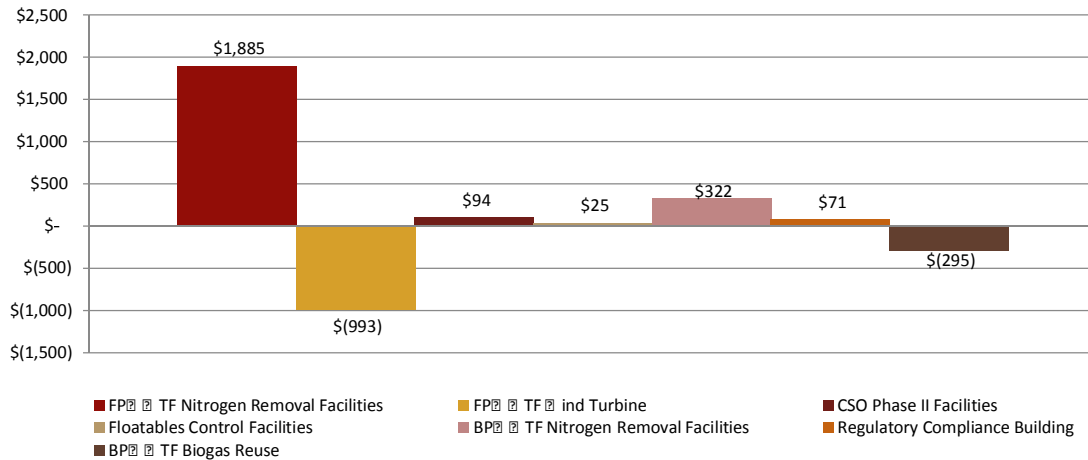
The primary impact of the CIP on the Operating Budget is the payment of debt service in the form of principal and interest on the borrowings executed to finance the CIP. The debt service and user fee projections associated with financing this CIP are identified in the Long-Term Debt Overview section 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 including two that will have positive impacts. The following table provides additional detail to the operational costs of the capital projects for the current fiscal year and the CIP window.

CIP Impact on Operating Budget (In thousands)

Project Name	Expenditure Type	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019
FP TF Nitrogen Removal Facilities							
	Utilities	\$ 1,253	\$ 1,291	\$ 1,330	\$ 1,369	\$ 1,411	\$ 1,453
	Chemicals	369	380	392	404	416	428
	Screenings & Sludge Disposal	2	2	2	2	2	2
	Water	2	2	2	2	3	3
	FP total	1,626	1,675	1,725	1,777	1,830	1,885
Regulatory Compliance Building							
	Utilities	-	-	65	67	69	71
	FP total	-	-	65	67	69	71
BP TF Biogas Reuse							
	Maintenance & Service Agreements	-	-	165	170	175	180
	Utilities	-	-	(422)	(439)	(457)	(475)
	BP total	-	-	(257)	(269)	(282)	(295)
FP TF Wind Turbine							
	Maintenance & Service Agreements	62	64	66	68	70	72
	Renewable Energy Credits	(356)	(356)	(356)	(356)	(356)	(356)
	Utilities	(709)	(709)	(709)	(709)	(709)	(709)
	FP total	(1,003)	(1,001)	(999)	(997)	(995)	(993)
CSO Phase II Facilities							
	Utilities	1	17	32	35	38	41
	Labor	13	26	26	26	26	26
	Chemicals	7	13	13	13	13	13
	Maintenance & Service Agreements	1	3	3	3	3	3
	Other	6	7	8	9	10	11
	CSO total	27	65	81	85	89	93
Floatable Control Facilities							
	Screenings & Sludge Disposal	1	1	1	1	1	1
	Labor	5	6	6	7	7	8
	Other	11	12	13	14	15	16
	FP total	17	18	20	21	23	25
BP TF Nitrogen Removal Facilities							
	Utilities	-	72	75	78	81	84
	Chemicals	-	190	202	214	226	238
	BP total	-	262	277	292	307	322
Total		\$ 668	\$ 1,020	\$ 913	\$ 977	\$ 1,043	\$ 1,109

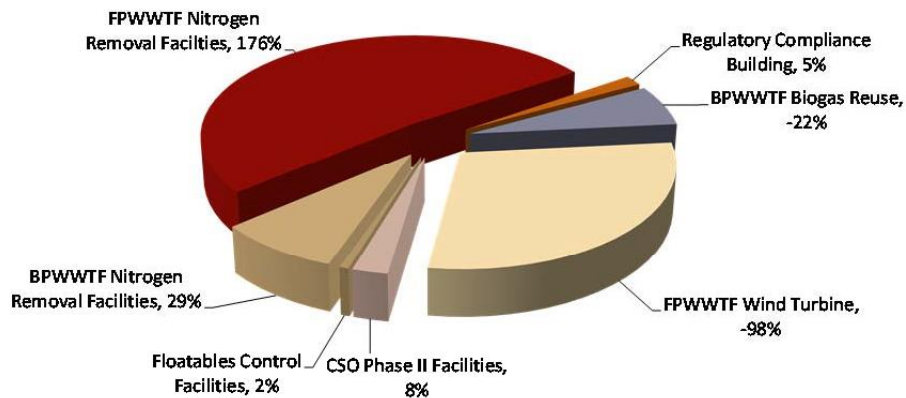
In order to assess the impact of the operational costs for these facilities, the costs have been calculated as a percentage of the projected operating budget. In FY 2019, the operating cost of the completed facilities is \$1.1 million, or 2.85% of the operating budget. The majority of this increase is related to the Nitrogen Removal Facilities which will be offset as a result of the positive impacts of NBC's renewable energy projects. The following graph illustrates the cost impact by project.

FY 2019 CIP Impact by Project
(In thousands)



Operational impacts for FY 2015-2019 are for chemicals, utilities, labor, maintenance & service agreements and screening and grit disposal. The chart below shows the percentage of operating costs by project during FY 2015-2019. The majority is for the FPWTF Nitrogen Removal Facilities which includes chemical costs and increased electricity usage. These increases are offset by the generation of electricity by the wind turbines located at Field's Point. The FPWTF Wind Turbine and the BPWTF Biogas Reuse projects will generate energy that will result in cost savings once the facilities are complete. Finally, there are minor impacts related to the CSO Phase II Facilities which include labor and maintenance for the new facilities.

CIP Impact on Operating Budget
(In thousands)



Capital Project Summary by Fiscal Year

Project Number	Project Name	Project Priority	Pre-Fiscal Year 2014	Fiscal Year 2014	Fiscal Years 2015-2019	Post-Fiscal Year 2019	Total Estimated Project Cost
Wastewater Treatment Facility Improvements							
10901C	FPWWTF - Nitrogen Removal Facilities - Construction	A	\$ 59,581	\$ 6,166	\$ 808	\$ -	\$ 66,555
11602D	FPWWTF Tunnel Pump Station Improvements - Design	B	-	58	-	-	58
11602C	FPWWTF Tunnel Pump Station Improvements - Construction	B	-	663	-	-	663
11900D	Regulatory Compliance Building - Design	A	2,781	161	-	-	2,942
11900C	Regulatory Compliance Building Construction	A	2	5,891	12,415	-	18,308
12000D	BPWWTF - Biogas Reuse - Design	C	394	76	-	-	470
12000C	BPWWTF - Biogas Reuse - Construction	C	-	3,924	1,693	-	5,617
12100C	FPWWTF Wind Turbine - Construction	A	14,374	894	120	-	15,388
12400D	New IM Facilities - Design	C	-	-	557	-	557
12400C	New IM Facilities - Construction	C	-	-	6,052	-	6,052
12500C	Utility Reliability Enhancement for FP Campus	A	257	2,080	60	-	2,397
12600C	FPWWTF Land Acquisition & Site Demolition	A	124	943	540	-	1,607
80900D	BPWWTF - Nitrogen Removal Facilities - Design	A	3,598	261	-	-	3,859
80900C	BPWWTF - Nitrogen Removal Facilities - Construction	A	28,346	9,767	4,611	-	42,724
Subtotal - Wastewater Treatment Facility Improvements			\$ 109,457	\$ 30,883	\$ 26,856	\$ -	\$ 167,196
Infrastructure Management							
1100000	Site Specific Study	A	\$ 211	\$ -	\$ 246	\$ -	\$ 457
1140100	River Model Development	C	320	88	-	-	408
1140200	Receiving Water Compliance Study	B	-	150	150	-	300
30221D	Hydraulic Systems Modeling - Design	C	263	25	-	-	288
30438D	Interceptor Easements - Design	A	645	153	-	-	798
30438C	Interceptor Easements - Construction	A	-	94	518	-	612
30500D	NBC Interceptor Easements - Design	B	-	752	2,183	-	2,935
30500C	NBC Interceptor Easements - Construction	B	-	-	2,497	-	2,497
30501D	Interceptor Easements - NBC BVI Design	A	250	396	-	-	646
30501C	Interceptor Easements - NBC BVI Construction	A	-	-	730	-	730
30700	NBC System-wide Facilities Planning	B	-	3	1,370	-	1,372
Subtotal - Infrastructure Management			\$ 1,690	\$ 1,660	\$ 7,693	\$ -	\$ 11,043
Phase II CSO Facilities							
30301D	Phase II CSO Facilities - Design	A	\$ 18,404	\$ 1,323	\$ 95	\$ -	\$ 19,821
30301RS	Phase II CSO Facilities - Program & Construction Management	A	9,896	4,400	16,019	-	30,315
30302C	Phase II CSO Facilities - OF 106	A	2,085	2,254	1,584	-	5,924
30303C	Phase II CSO Facilities - WCSOI Main	A	25,479	26,914	25,932	-	78,325
30304C	Phase II CSO Facilities - SCSOI Main	A	7,288	10,997	7,689	-	25,973
30305C	Phase II CSO Facilities - OF 027	A	10,444	1,177	370	-	11,991
30306C	Phase II CSO Facilities - OF 037 West	A	6,679	5,275	752	-	12,706
30307C	Phase II CSO Facilities - OF 037 South	A	54	7,344	4,091	-	11,490
30308C	Phase II CSO Facilities - OF 037 North	A	716	5,153	4,967	-	10,835
30309C	Phase II CSO Facilities - WCSOI Regulator	A	1,086	15	-	-	1,101
30310C	Phase II CSO Facilities - WCSOI North	A	5,803	3,474	-	-	9,277
30311C	Phase II CSO Facilities - WCSOI West	A	10,122	130	-	-	10,252
30312C	Phase II CSO Facilities - SCSOI Regulator	A	631	105	-	-	736
30313C	Phase II CSO Facilities - WCSOI Site Demolition	A	150	3	-	-	153
30314C	Phase II CSO Facilities - WCSOI of 054	A	1,493	1,409	13	-	2,915
Subtotal - Phase II CSO Facilities			\$ 100,329	\$ 69,973	\$ 61,512	\$ -	\$ 231,815

Capital Project Summary by Fiscal Year

Project Number	Project Name	Project Priority	Pre-Fiscal Year 2014	Fiscal Year 2014	Fiscal Years 2015-2019	Post-Fiscal Year 2019	Total Estimated Project Cost
Phase III CSO Facilities							
30800D	Phase III CSO Facilities - Design	A	\$ -	\$ 1,307	\$ 37,399	\$ -	\$ 38,706
30800C	Phase III CSO Facilities - Construction	A	-	-	166,025	399,925	565,950
Subtotal - Phase III CSO Facilities			\$ -	\$ 1,307	\$ 203,424	\$ 399,925	\$ 604,656
Floatables Control Facilities							
30600D	Floatables Control Facilities - Design	A	\$ 434	\$ 54	\$ -	\$ -	\$ 488
30600C	Floatables Control Facilities - Construction	A	4,118	883	-	-	5,002
Subtotal - Floatables Control Facilities			\$ 4,552	\$ 937	\$ -	\$ -	\$ 5,490
CSO Interceptor Inspection & Cleaning							
30400M	Inspection and Cleaning of CSO Interceptors	B	\$ -	\$ 335	\$ 2,500	\$ 500	\$ 3,335
30470M	North Providence Interceptor Inspection	B	-	165	-	-	165
Subtotal - CSO Interceptor Inspection & Cleaning			\$ -	\$ 500	\$ 2,500	\$ 500	\$ 3,500
CSO Interceptor Repair & Construction							
30400C	Repair and Construction of CSO Interceptors	B	\$ -	\$ -	\$ 1,500	\$ 1,500	\$ 3,000
30421C	Louisquisset Pipe Interceptor Replacement - Construction	C	-	-	2,382	-	2,382
30444D	Moshassuc Valley Interceptor - Design	C	138	219	-	-	357
30444C	Moshassuc Valley Interceptor - Construction	C	2	1,859	512	-	2,373
30455C	Improvements to Interceptors FY 2012	A	1,726	81	85	-	1,892
30456C	NBC Interceptor Lining at Butler Hospital	B	2	534	4	-	540
30457P	Providence River Siphon Replacement - Planning	B	9	215	-	-	224
30457D	Providence River Siphon Replacement - Design	B	-	76	755	-	830
30457C	Providence River Siphon Replacement - Construction	B	-	-	6,138	-	6,138
30458P	Douglas Branch Avenue Interceptor Relief - Planning	B	-	67	-	-	67
30458D	Douglas Branch Avenue Interceptor Relief - Design	B	-	-	565	-	565
30458C	Douglas Branch Avenue Interceptor Relief - Construction	B	-	-	6,528	-	6,528
Subtotal - CSO Interceptor Repair & Construction			\$ 1,878	\$ 3,050	\$ 18,468	\$ 1,500	\$ 24,896
Total Capital Improvement Program			\$ 21,930	\$ 10,311	\$ 20,454	\$ 401,925	\$ 1,047,592

Priority	Description
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

10901

FPWWTF - Nitrogen Removal Facilities



Photo: Blower Building Louver Cut-outs

The RIPDES permit for Field's Point requires a nitrogen limit of 5 mg/l from May to October starting in 2014. This project will modify the existing aeration basins to accommodate an Integrated Fixed Film Media process. The operational costs for the utility, chemical and maintenance costs associated with the operation of the

Project Overview

new nitrogen removal facilities will begin in FY 2014.

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	January-07	September-11	57 Months	6,806
Construction	March-09	February-15	73 Months	66,555
Total Project	April-01	February-15	166 Months	\$74,233

Projected Expenditures - 10901P

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 392	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 392
A/E Professional	413	-	-	-	-	-	-	-	413
Other	67	-	-	-	-	-	-	-	67
Total Project Costs	\$ 872	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 872

Projected Expenditures - 10901D

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 448	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 448
Land	1,900	-	-	-	-	-	-	-	1,900
A/E Professional	4,396	-	-	-	-	-	-	-	4,396
Other	62	-	-	-	-	-	-	-	62
Total Project Costs	\$ 6,806	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,806

Projected Expenditures - 10901C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 2,066	\$ 520	\$ 240	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,826
Land	-	-	-	-	-	-	-	-	-
A/E	3,264	661	293	-	-	-	-	-	4,218
Construction	54,127	1,252	275	-	-	-	-	-	55,654
Contingency	-	3,289	-	-	-	-	-	-	3,289
Other	123	444	-	-	-	-	-	-	567
Total	\$ 59,581	\$ 6,166	\$ 808	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 66,555

Note: Cash Flow Basis in Thousands

11602

FPWWTF Tunnel Pump Station Improvements



Photo: Tunnel Pump Station

This project involves improvements to the Tunnel Pump Station including the rehabilitation of the canopy roof which protects the pump station equipment from water damage. In addition, the ground water collection and conveyance system needs to be replaced.

Project Overview

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

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	October-13	3 Months	\$58
Construction	October-13	June-14	8 Months	663
Total Project	July-13	June-14	11 Months	\$721

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 11602D

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ 8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	50	-	-	-	-	-	-	50
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ 58	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 58

Projected Expenditures - 11602C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ 38	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	25	-	-	-	-	-	-	25
Construction	-	500	-	-	-	-	-	-	500
Contingency	-	50	-	-	-	-	-	-	50
Other	-	50	-	-	-	-	-	-	50
Total Project Costs	\$ -	\$ 663	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 663

Note: Cash Flow Basis in Thousands

11900

NBC Regulatory Compliance Building and Related Improvements



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

This project is for the design and construction of 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 36,800 square feet and will be located on Service Road in Providence. This project also includes related site demolition and is currently in the design phase.

Project Overview

Location: Service Road (Providence, RI)
 Contractor(s): CDM
 Project Manager: Terry Cote, 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	September-08	June-09	9 Months	\$323
Design	September-10	November-13	39 Months	2,942
Construction	June-13	November-15	29 Months	18,308
Total Project	September-08	November-15	77 Months	\$21,573

Projected Expenditures - 11900P

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 132	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 132
A/E Professional	191	-	-	-	-	-	-	-	191
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ 323	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 323

Projected Expenditures - 11900D

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 173	\$ 15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 188
Land	1,247	-	-	-	-	-	-	-	1,247
A/E Professional	1,333	139	-	-	-	-	-	-	1,472
Other	28	7	-	-	-	-	-	-	35
Total Project Costs	\$ 2,781	\$ 161	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,942

Projected Expenditures - 11900C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 2	\$ 221	\$ 335	\$ 5	\$ -	\$ -	\$ -	\$ -	\$ 563
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	155	220	-	-	-	-	-	375
Construction	-	5,510	9,215	775	-	-	-	-	15,500
Contingency	-	-	1,860	-	-	-	-	-	1,860
Other	-	5	5	-	-	-	-	-	10
Total Project Costs	\$ 2	\$ 5,891	\$ 11,635	\$ 780	\$ -	\$ -	\$ -	\$ -	\$ 18,308

Note: Cash Flow Basis in Thousands

12000

BPWWTF Biogas Reuse



Photo: Bucelin Point Boiler Plant

This project will construct a reciprocating engine to use biogas generated within the biosolids anaerobic digesters at the Bucelin Point TF as a fuel to generate electricity and heat for reuse in the treatment facility. This project is currently in the design phase which includes the design of a biogas pretreatment system, development of specifications for a generator and design of the interconnection with the existing electrical system.

Project Overview

Location: Bucelin Point TF (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	October-13	39 Months	470
Construction	July-13	July-15	25 Months	5,617
Total Project	June-07	July-15	95 Months	\$6,133

Projected Expenditures - 12000P

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 22	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22
A/E Professional	23	-	-	-	-	-	-	-	23
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ 46	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 46

Projected Expenditures - 12000D

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 80	\$ 15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 95
Land	-	-	-	-	-	-	-	-	-
A/E Professional	285	56	-	-	-	-	-	-	342
Other	28	5	-	-	-	-	-	-	33
Total Project Costs	\$ 394	\$ 76	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 470

Projected Expenditures - 12000C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ 38	\$ 24	\$ 2	\$ -	\$ -	\$ -	\$ -	\$ 64
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	26	24	-	-	-	-	-	50
Construction	-	3,850	950	100	-	-	-	-	4,900
Contingency	-	-	588	-	-	-	-	-	588
Other	-	10	5	-	-	-	-	-	15
Total Project Costs	\$ -	\$ 3,924	\$ 1,591	\$ 102	\$ -	\$ -	\$ -	\$ -	\$ 5,617

Note: Cash Flow Basis in Thousands

12100C

FPWWTF Wind Turbine



Photo: Field's Point Wind Turbines

BC has investigated the feasibility of converting wind energy into electricity using three Mega-watt (MW) Class Wind Turbines at the Field's Point TF. Three 1.5 MW wind turbines have been installed through the design/build process at the Fields Point TF. The wind turbines became operational in October 2012.

Project Overview

Location: Field's Point TF (Providence, RI)
 Contractor(s): Milbane
 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	December-06	December-09	38 Months	\$40
Design	/A	/A	/A	/A
Construction	October-10	April-15	55 Months	15,388
Total Project	December-06	April-15	101 Months	\$15,428

Projected Expenditures - 12100P

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25
A/E Professional	-	-	-	-	-	-	-	-	-
Other	15	-	-	-	-	-	-	-	15
Total Project Costs	\$ 40	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40

Projected Expenditures -Design

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 12100C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 493	\$ 44	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 537
Land	-	-	-	-	-	-	-	-	-
A/E Professional	57	8	-	-	-	-	-	-	65
Construction	13,287	170	120	-	-	-	-	-	13,577
Contingency	-	613	-	-	-	-	-	-	613
Other	538	58	-	-	-	-	-	-	596
Total Project Costs	\$ 14,374	\$ 894	\$ 120	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,388

Note: Cash Flow Basis in Thousands

12400

New IM Facilities

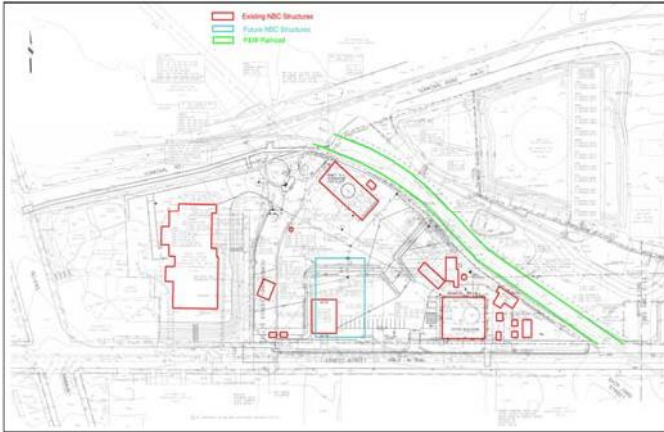


Photo: Proposed Site for New IM Building

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

Project Overview

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	July-14	December-15	17 Months	\$557
Construction	September-15	December-17	27 Months	6,052
Total Project	July-14	December-17	42 Months	\$6,609

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 12400D

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ 21	\$ 16	\$ -	\$ -	\$ -	\$ -	\$ 37
Land	-	-	-	-	-	-	-	-	-
A/E	-	-	300	200	-	-	-	-	500
Other	-	-	-	20	-	-	-	-	20
Total	\$ -	\$ -	\$ 321	\$ 236	\$ -	\$ -	\$ -	\$ -	\$ 557

Projected Expenditures - 12400C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ 177	\$ 170	\$ 5	\$ -	\$ -	\$ 352
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	30	20	-	-	-	50
Construction	-	-	-	2,200	2,750	50	-	-	5,000
Contingency	-	-	-	-	600	-	-	-	600
Other	-	-	-	-	50	-	-	-	50
Total Project Costs	\$ -	\$ -	\$ -	\$ 2,407	\$ 3,590	\$ 55	\$ -	\$ -	\$ 6,052

Note: Cash Flow Basis in Thousands

12500C

Utility Reliability Enhancement for the Field's Point Campus



Photo: Utility work being performed on Service Road

Many of the utility poles within the Field's Point campus are very old and should they fail in a storm, critical CBC operations could be affected. The existing power lines and utility poles located along Service Road are poorly positioned in relation to the new CBC Administration Building and the site of the proposed Regulatory Compliance Building. It is critical that these buildings are powered by reliable utility infrastructure and this project will reposition the utility poles and wires.

Project Overview

Location: Providence, RI

Contractor(s): /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	/A	/A	/A	/A
Design	/A	/A	/A	/A
Construction	April-12	November-14	31 Months	\$2,397
Total Project	April-12	November-14	31 Months	\$2,397

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 12500C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 47	\$ 120	\$ 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 177
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	100	-	-	-	-	-	-	100
Construction	-	950	50	-	-	-	-	-	1,000
Contingency	-	120	-	-	-	-	-	-	120
Other	210	790	-	-	-	-	-	-	1,000
Total Project Costs	\$ 257	\$ 2,080	\$ 60	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,397

Note: Cash Flow Basis in Thousands

12600C

FPWWTF Land Acquisition/Site Demolition



Photo: Aerial View of Existing Building on Terminal Road

There is limited open space near the NBC's FPWWTF and new facilities may be required to meet RIPDES permit requirements. Consequently the NBC purchased land from the City of Providence that abuts the FPWWTF property. This project involves the demolition of the existing building and the construction of a replacement facility at another location.

Project Overview

Location: Providence, RI
 Contractor(s): JR Vinagro 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	December-12	July-15	31 Months	\$1,607
Total Project	December-12	July-15	31 Months	\$1,607

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 12600C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 47	\$ 55	\$ 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 103
Land	-	-	-	-	-	-	-	-	-
A/E Professional	5	15	-	-	-	-	-	-	20
Construction	42	847	97	85	-	-	-	-	1,071
Contingency	-	-	357	-	-	-	-	-	357
Other	30	25	-	-	-	-	-	-	55
Total Project Costs	\$ 124	\$ 943	\$ 455	\$ 85	\$ -	\$ -	\$ -	\$ -	\$ 1,607

Note: Cash Flow Basis in Thousands

80900C

BPWWTF Nitrogen Removal Facilities



Photo: Aerial view of the BPWWTF
Project Overview

NBC's facilities at Bucklin Point were designed and constructed to achieve a nitrogen level of 8 mg/l, but subsequent to the completion of construction, RIDEM established a new permit nitrogen limit of 5 mg/l. NBC has begun construction of the new facilities and upgrades to the existing Biological Nutrient Removal (BNR) process to achieve the new permit nitrogen limits. This project will upgrade the existing BNR process at this facility as well as rehabilitate other key treatment processes.

Location: Bucklin Point WWTF (East 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	July-07	September-09	26 Months	\$260
Design	April-10	October-13	43 Months	3,859
Construction	July-11	March-16	57 Months	42,724
Total Project	July-07	March-16	92 Months	\$46,842

Projected Expenditures - 80900P

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 57	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 57
A/E Professional	203	-	-	-	-	-	-	-	203
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ 260	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 260

Projected Expenditures - 80900D

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 265	\$ 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 296
Land	-	-	-	-	-	-	-	-	-
A/E Professional	3,247	221	-	-	-	-	-	-	3,468
Other	86	9	-	-	-	-	-	-	95
Total Project Costs	\$ 3,598	\$ 261	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,859

Projected Expenditures - 80900C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 527	\$ 240	\$ 158	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 924
Land	-	-	-	-	-	-	-	-	-
A/E Professional	1,512	700	600	188	-	-	-	-	3,000
Construction	26,248	8,711	302	-	-	-	-	-	35,262
Contingency	-	-	3,363	-	-	-	-	-	3,363
Other	59	115	-	-	-	-	-	-	175
Total Project Costs	\$ 28,346	\$ 9,767	\$ 4,423	\$ 188	\$ -	\$ -	\$ -	\$ -	\$ 42,724

Note: Cash Flow Basis in Thousands

This page was intentionally left blank.

1100000

Site Specific Study



Photo: The R² Monitor, NBC's sampling vessel

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 Buc²lin 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 TF. As a result, new studies may be required as part of the re-permitting process.

Project Overview

Location: Field's Point TF (Providence, RI)
 Contractor(s): /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	/A	/A	/A	/A
Design	November-01	June-15	166 Months	\$457
Construction	/A	/A	/A	/A
Total Project	November-01	June-15	166 Months	\$457

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 1100000

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	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 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note: Cash Flow Basis in Thousands

1140100

River Model Development

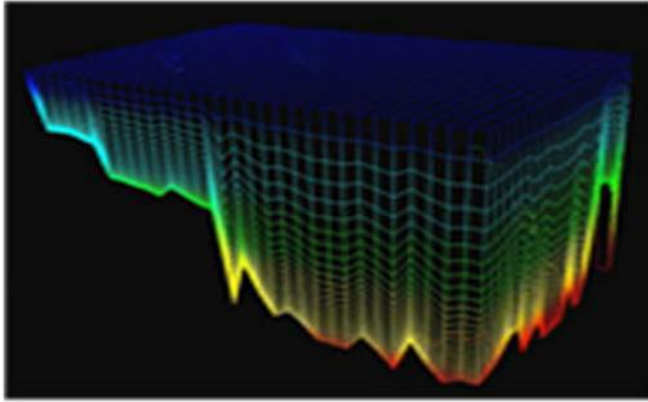


Photo: ROM 3D grid boxes follow the shape of the coastline and represent the volume of Narragansett Bay

BC 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, which was model development, is complete. The second phase, which was to run the model under varying conditions and loadings to determine the impact of nitrogen loads on the receiving waters is also complete. Future work will be to use the model to determine the effectiveness of different alternatives on improving water quality.

Project Overview

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	/A	/A	/A	/A
Design	March-05	December-13	107 Months	\$408
Construction	/A	/A	/A	/A
Total Project	March-05	December-13	107 Months	\$408

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 1140100

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 53	\$ 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 56
Land	-	-	-	-	-	-	-	-	-
A/E Professional	221	32	-	-	-	-	-	-	253
Other	46	52	-	-	-	-	-	-	98
Total Project Costs	\$ 320	\$ 88	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 408

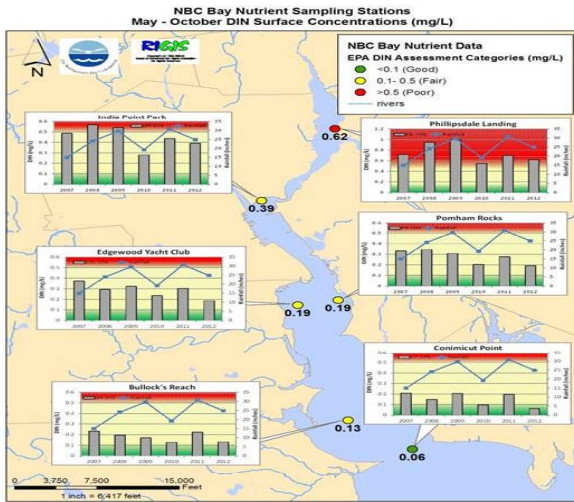
Projected Expenditures - Construction

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note: Cash Flow Basis in Thousands

1140200

Receiving Water Compliance Study



Project Overview

Location: NBC Service Area
 Contractor(s): /A
 Project Manager: Thomas Va
 Project Priority: B

Project 1140200 will evaluate the effect of nitrogen reductions on dissolved oxygen levels in upper Narragansett Bay. The project involves the collection of data and the development of a comprehensive report that will assist NBC with information relative to potential permit requirements. This project also entails the engagement of consultants and legal counsel related to permit requirements that would mandate NBC to make additional capital investments.

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	/A	/A	/A	/A
Design	July-13	June-15	24 Months	\$300
Construction	/A	/A	/A	/A
Total Project	July-13	June-15	24 Months	\$300

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY 2020	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 1140200

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY 2020	Total
Administrative	\$ -	\$ 100	\$ 100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	50	50	-	-	-	-	-	100
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ 150	\$ 150	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300

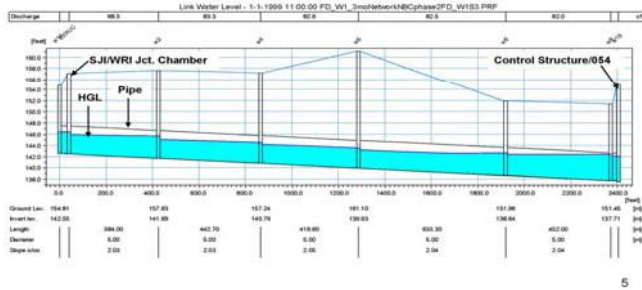
Projected Expenditures - Construction

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY 2020	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): C2M Hill
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	June-10	October-13	40 Months	288
Construction	/A	/A	/A	/A
Total Project	June-06	October-13	108 Months	\$363

Projected Expenditures - 30221P

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13
A/E Professional	59	-	-	-	-	-	-	-	59
Other	2	-	-	-	-	-	-	-	2
Total Project Costs	\$ 75	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 75

Projected Expenditures - 30221D

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 61	\$ 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 66
Land	-	-	-	-	-	-	-	-	-
A/E Professional	203	20	-	-	-	-	-	-	223
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ 263	\$ 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 288

Projected Expenditures - Construction

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note: Cash Flow Basis in Thousands

3043D

Interceptor Easements



Photo: Cumberland sewer system easement locations

Much of the 2 BC sewer system in Cumberland is located in easements that cross private property. 2 BC 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 Alley Interceptor easements. Upon completion of the evaluation, the easements will be cleared and access provided as necessary under the construction phase of this project.

Project Overview

Location: Cumberland, RI
 Contractor(s): 22B
 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	2/A	2/A	2/A	2/A
Design	October-05	December-13	99 Months	\$798
Construction	February-14	May-15	15 Months	612
Total Project	October-05	May-15	115 Months	\$1,410

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 3043D

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 171	\$ 44	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 215
Land	64	89	-	-	-	-	-	-	153
A/E Professional	409	20	-	-	-	-	-	-	429
Other	2	-	-	-	-	-	-	-	2
Total Project Costs	\$ 645	\$ 153	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 798

Projected Expenditures - 3043C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ 9	\$ 23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 32
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	80	420	-	-	-	-	-	500
Contingency	-	-	60	-	-	-	-	-	60
Other	-	5	15	-	-	-	-	-	20
Total Project Costs	\$ -	\$ 94	\$ 518	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 612

Note: Cash Flow Basis in Thousands

30500

NBC Interceptor Easements

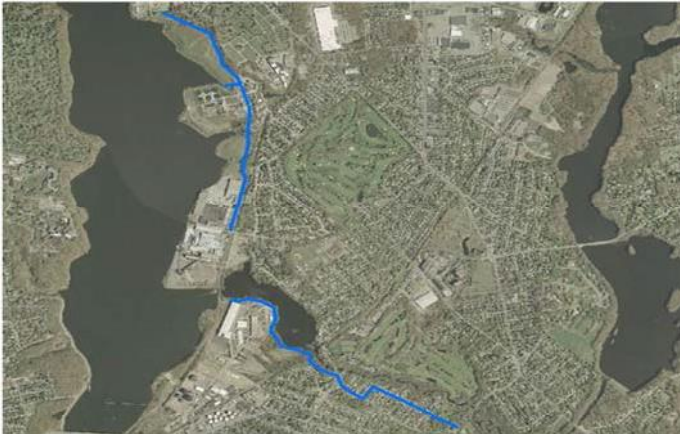


Photo: Proposed area for the East Providence easement investigation

Many of NBC's interceptors are located in overland areas that run through private property. It is difficult to locate and access these easements due to the terrain and overgrown vegetation. 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

Project Overview

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

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.

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	July-16	37 Months	\$2,935
Construction	September-14	August-17	36 Months	2,497
Total Project	July-13	August-17	49 Months	\$5,432

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30500D

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	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 - 30500C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	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

30501

Interceptor Easements - NBC B

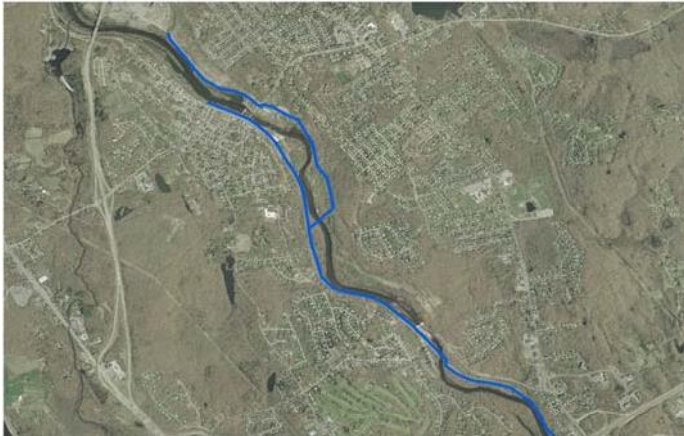


Photo: Blackstone Valley Interceptor in Lincoln

Many of NBC's interceptors are located in overland areas that run through private property. It is difficult to locate and access these easements due to the terrain and overgrown vegetation. 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 Blackstone

Project Overview

Location: Lincoln, RI

Contractor(s): NBC

Project Manager: Tom Brueckner, P.E.

Project Priority: A

Valley Interceptor in Lincoln and Cumberland. Upon completion of this work, the easement will be cleared to allow access to maintain the sewer.

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	January-14	55 Months	\$646
Construction	July-14	July-15	12 Months	730
Total Project	July-09	July-15	68 Months	\$1,376

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30501D

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 71	\$ 68	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 139
Land	-	247	-	-	-	-	-	-	247
A/E Professional	173	73	-	-	-	-	-	-	247
Other	6	8	-	-	-	-	-	-	14
Total Project Costs	\$ 250	\$ 396	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 646

Projected Expenditures - 30501C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	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

30700

NBC System-Wide Facilities Planning

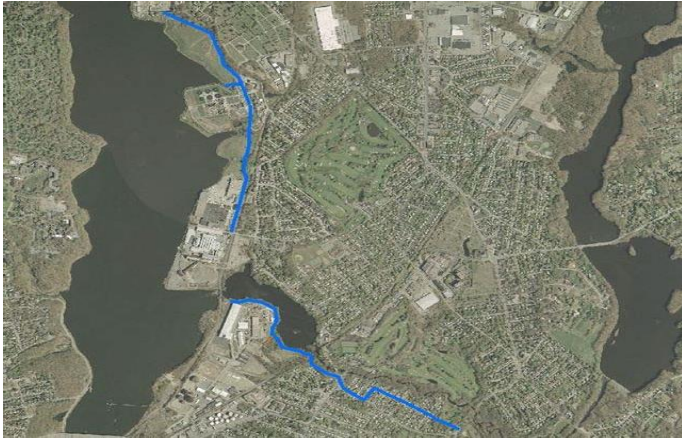


Photo: Proposed area for the East Providence capacity analysis

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,

Project Overview

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

each will be given a unique project number and draw funding from Project 30700.

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	April-14	March-17	36 Months	\$1,372
Construction	N/A	N/A	N/A	N/A
Total Project	April-14	March-17	36 Months	\$1,372

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30700

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ 3	\$ 84	\$ 54	\$ 52	\$ -	\$ -	\$ -	\$ 192
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	530	250	400	-	-	-	1,180
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ 3	\$ 614	\$ 304	\$ 452	\$ -	\$ -	\$ -	\$ 1,372

Projected Expenditures - Construction

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note: Cash Flow Basis in Thousands

30301D

CSO Phase II Facilities Design

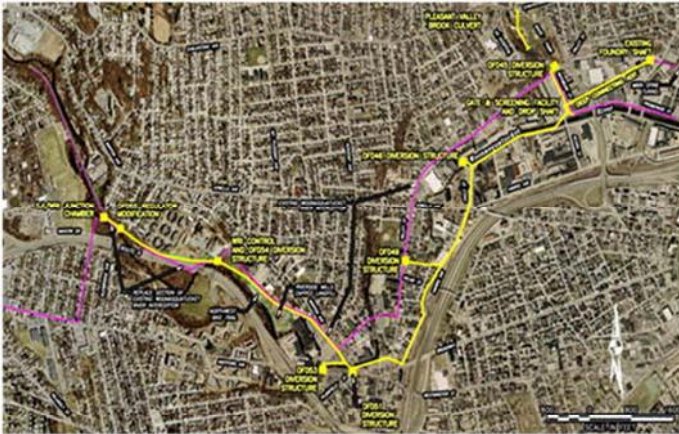


Photo: Proposed Woonasquatucket CSO Interceptor alignment

CSO Phase II is the second phase of the City of Providence's federally mandated CSO Abatement Program. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the Seehon and Woonasquatucket Rivers to the Main Tunnel constructed in Phase I. The proposed length of the Woonasquatucket Interceptor is 18,200 feet and the Seehon Interceptor will be approximately 8,000 feet.

Project Overview

Location: Providence, RI / Central Falls, RI
 Contractor(s): Louis Berger Group
 Project Manager: Tom Bruciner, P.E.
 Project Priority: A

Phase II also includes two sewer separation projects in Providence, and a constructed wetlands treatment facility in Central Falls.

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	TBA	TBA	TBA	TBA
Design	November-06	March-15	101 Months	\$19,821
Construction	TBA	TBA	TBA	TBA
Total Project	November-06	March-15	101 Months	\$19,821

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30301D

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 1,324	\$ 7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,331
Land	6,261	989	-	-	-	-	-	-	7,250
A/E Professional	10,783	-	-	-	-	-	-	-	10,783
Other	35	326	95	-	-	-	-	-	457
Total Project Costs	\$ 18,404	\$ 1,323	\$ 95	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,821

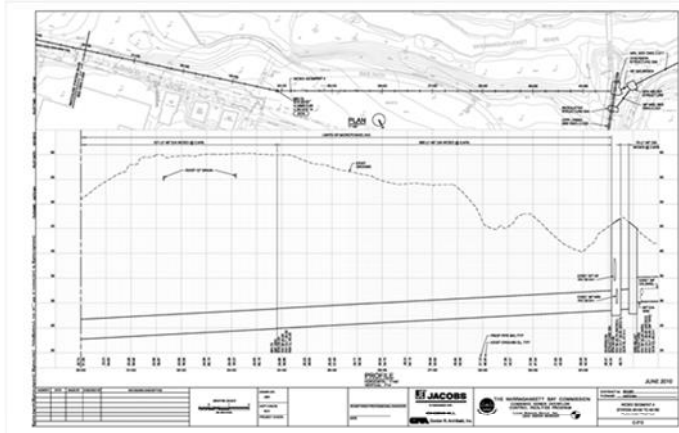
Projected Expenditures - Construction

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note: Cash Flow Basis in Thousands

30301R

Phase II CSO Facilities Program Construction Management



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

Photo: Plans of the proposed CSO Phase II alignment

Project Overview

Location: /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	/A	/A	/A	/A
Design	/A	/A	/A	/A
Construction	September-10	April-16	68 Months	\$30,315
Total Project	September-10	April-16	68 Months	\$30,315

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30301R

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	9,896	4,400	3,500	12,519	-	-	-	-	30,315
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ 9,896	\$ 4,400	\$ 3,500	\$ 12,519	\$ -	\$ -	\$ -	\$ -	\$ 30,315

Note: Cash Flow Basis in Thousands

30302C

Phase II CSO Facilities OF 106



Photo: Proposed Wetlands Facility in Central Falls

Project Overview

Location: Central Falls, RI
 Contractor(s): J. Lynch & Sons, Inc.
 Project Manager: Rich Bernier, P. E.
 Project Priority: A

CSO Phase II is the second phase of the City's CSO Abatement Program. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the Seequon and Woonasquatucket 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	Q/A	Q/A	Q/A	Q/A
Design	Q/A	Q/A	Q/A	Q/A
Construction	March-12	February-15	35 Months	\$5,924
Total Project	March-12	February-15	35 Months	\$5,924

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30302C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 47	\$ 48	\$ 60	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 155
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	1,918	1,726	45	-	-	-	-	-	3,689
Contingency	-	-	1,000	-	-	-	-	-	1,000
Other	120	480	480	-	-	-	-	-	1,080
Total Project Costs	\$ 2,085	\$ 2,254	\$ 1,584	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,924

Note: Cash Flow Basis in Thousands

30303C

Phase II CSO Facilities Woonasquatucket River



Photo: Proposed Woonasquatucket River CSO Interceptor Main alignment
Project Overview

Location: Providence, RI/Central Falls, RI

Contractor(s): Barletta Heavy/Shanley Balfour Beatty

Project Manager: Rich Bernier, P.E.

Project Priority: A

CSO Phase II is the second phase of the City of Providence's CSO Abatement Program. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the Seeley 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 (WCSOI) along the Woonasquatucket River.

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	August-16	60 Months	\$78,325
Total Project	September-11	August-16	60 Months	\$78,325

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30303C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 866	\$ 564	\$ 518	\$ 582	\$ -	\$ -	\$ -	\$ -	\$ 2,530
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	24,161	25,100	12,000	1,638	-	-	-	-	62,899
Contingency	-	-	-	7,896	-	-	-	-	7,896
Other	451	1,250	1,200	1,800	299	-	-	-	5,000
Total Project Costs	\$ 25,479	\$ 26,914	\$ 13,718	\$ 11,916	\$ 299	\$ -	\$ -	\$ -	\$ 78,325

Note: Cash Flow Basis in Thousands

30304C

Phase II CSO Facilities Construction



Photo: Installation of water supports
Project Overview

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

CSO Phase II is the second phase of the City of Providence's CSO Abatement Program. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the Seequon and Moshassuck 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 Seequon CSO Interceptor (SCSOI) along the Seequon River.

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	Q/A	Q/A	Q/A	Q/A
Design	Q/A	Q/A	Q/A	Q/A
Construction	February-12	December-15	46 Months	\$25,973
Total Project	February-12	December-15	46 Months	\$25,973

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30304C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 175	\$ 464	\$ 633	\$ 345	\$ -	\$ -	\$ -	\$ -	\$ 1,617
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	6,963	9,933	1,582	180	-	-	-	-	18,657
Contingency	-	-	-	3,700	-	-	-	-	3,700
Other	150	600	600	650	-	-	-	-	2,000
Total Project Costs	\$ 7,288	\$ 10,997	\$ 2,814	\$ 4,875	\$ -	\$ -	\$ -	\$ -	\$ 25,973

Note: Cash Flow Basis in Thousands

30305C

Phase II CSO Facilities OF 027



Photo: OF 027

Project Overview

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

CSO Phase II is the second phase of the City of Providence's CSO Abatement Program. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the Seeley 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 (30305C) is for the separation of combined sewers in the Hope Street area of the East Side of Providence.

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	September-14	42 Months	\$11,991
Total Project	March-11	September-14	42 Months	\$11,991

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30305C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 973	\$ 190	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,163
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	7,722	587	370	-	-	-	-	-	8,679
Contingency	-	400	-	-	-	-	-	-	400
Other	1,749	-	-	-	-	-	-	-	1,749
Total Project Costs	\$ 10,444	\$ 1,177	\$ 370	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,991

Note: Cash Flow Basis in Thousands

30306C

Phase II CSO Facilities OF 037 West



Photo: CSO 037 at Cemetery Street

Project Overview

Location: Providence, RI

Contractor(s): CB Utility

Project Manager: Rich Bernier, P.E.

Project Priority: A

CSO Phase II is the second phase of Providence's CSO Abatement Program. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the Seeley 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.

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	/A	/A	/A	/A
Design	/A	/A	/A	/A
Construction	May-11	December-14	44 Months	\$12,706
Total Project	May-11	December-14	44 Months	\$12,706

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30306C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 501	\$ 184	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 685
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	4,951	2,526	37	-	-	-	-	-	7,514
Contingency	-	557	-	-	-	-	-	-	557
Other	1,227	2,008	715	-	-	-	-	-	3,950
Total Project Costs	\$ 6,679	\$ 5,275	\$ 752	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,706

Note: Cash Flow Basis in Thousands

30307C

Phase II CSO Facilities OF 037 South

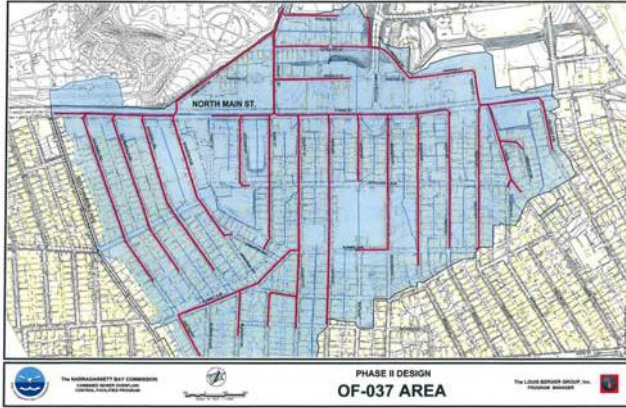


Photo: Proposed OF 037 Sewer Separation Project Overview

CSO Phase II is the second phase of the City of Providence's CSO Abatement Program. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the Seehon and Coonassquatucket 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): John 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	/A	/A	/A	/A
Design	/A	/A	/A	/A
Construction	January-13	October-15	34 Months	\$11,490
Total Project	January-13	October-15	34 Months	\$11,490

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30307C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 4	\$ 419	\$ 207	\$ 2	\$ -	\$ -	\$ -	\$ -	\$ 633
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	5,925	1,782	60	-	-	-	-	7,767
Contingency	-	-	1,440	-	-	-	-	-	1,440
Other	50	1,000	600	-	-	-	-	-	1,650
Total Project Costs	\$ 54	\$ 7,344	\$ 4,029	\$ 62	\$ -	\$ -	\$ -	\$ -	\$ 11,490

Note: Cash Flow Basis in Thousands

30308C

Phase II CSO Facilities OF 037 North

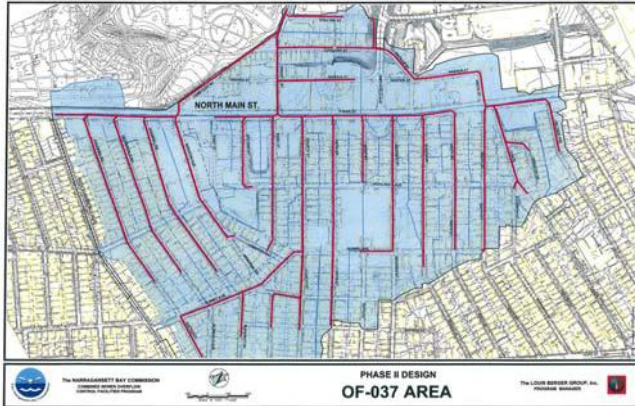


Photo: Proposed OF 037 Sewer Separation Project Overview

CSO Phase II is the second phase of the City of Providence's CSO Abatement Program. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the Seeley 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 Hillside Avenue.

Location: Providence, RI
 Contractor(s): DiGregorio 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	/A	/A	/A	/A
Design	/A	/A	/A	/A
Construction	February-13	February-16	36 Months	\$10,835
Total Project	February-13	February-16	36 Months	\$10,835

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30308C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 56	\$ 281	\$ 296	\$ 51	\$ -	\$ -	\$ -	\$ -	\$ 683
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	660	4,200	2,467	40	-	-	-	-	7,367
Contingency	-	-	1,440	-	-	-	-	-	1,440
Other	-	672	673	-	-	-	-	-	1,345
Total Project Costs	\$ 716	\$ 5,153	\$ 4,876	\$ 91	\$ -	\$ -	\$ -	\$ -	\$ 10,835

Note: Cash Flow Basis in Thousands

30309C

Phase II CSO Facilities WCO Regulator



Photo: Walcott Street at Alley Street OF 05

Project Overview

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

CSO Phase II is the second phase of BC's CSO Abatement Program. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the Seeon and Moosquatucket 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.

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	/A	/A	/A	/A
Design	/A	/A	/A	/A
Construction	March-11	December-13	33 Months	\$1,101
Total Project	March-11	December-13	33 Months	\$1,101

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30309C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 111	\$ 6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 117
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	845	9	-	-	-	-	-	-	854
Contingency	130	-	-	-	-	-	-	-	130
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ 1,086	\$ 15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,101

Note: Cash Flow Basis in Thousands

30310C

Phase II CSO Facilities Woonsocket North



Photo: Infiltration into existing Woonsocket North overflow

CSO Phase II is the second phase of the City of Providence's CSO Abatement Program. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the Seeley and Woonsocket 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 Woonsocket CSO Interceptor (CSOI) through Davis Park.

Project Overview

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	\$9,277
Total Project	June-11	May-14	35 Months	\$9,277

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30310C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 62	\$ 28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 90
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	5,341	81	-	-	-	-	-	-	5,422
Contingency	-	2,346	-	-	-	-	-	-	2,346
Other	400	1,019	-	-	-	-	-	-	1,419
Total Project Costs	\$ 5,803	\$ 3,474	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,277

Note: Cash Flow Basis in Thousands

30311C

Phase II CSO Facilities West



Photo: Piping Installation north of Route 6 in Johnston

CSO Phase II is the second phase of the City of Johnston's CSO Abatement Program. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the Seeley 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 bike path north of Route 6 near the Johnston Town line.

Project Overview

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	\$10,252
Total Project	April-11	February-14	34 Months	\$10,252

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

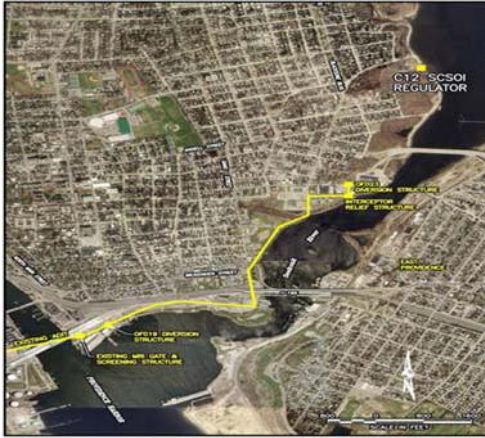
Projected Expenditures - 30311C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 105	\$ 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 107
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	10,018	127	-	-	-	-	-	-	10,145
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ 10,122	\$ 130	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,252

Note: Cash Flow Basis in Thousands

30312C

Phase II CSO Facilities Regulator



**Photo: Proposed Seequon CSO Interceptor Regulator
Project Overview**

CSO Phase II is the second phase of BC's CSO Abatement Program. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the Seequon 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 Seequon River.

Location: Providence, RI

Contractor(s): RP Iannucillo & 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	/A	/A	/A	/A
Design	/A	/A	/A	/A
Construction	August-11	February-14	30 Months	\$736
Total Project	August-11	February-14	30 Months	\$736

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30312C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 36	\$ 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	595	3	-	-	-	-	-	-	598
Contingency	-	100	-	-	-	-	-	-	100
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ 631	\$ 105	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 736

Note: Cash Flow Basis in Thousands

30313C

Phase II CSO Facilities Woonasquatucket River Site Demolition



Photo: Proposed Woonasquatucket CSO Interceptor Site Demolition

Project Overview

Location: Providence, RI

Contractor(s): AA Asbestos Abatement Co Inc.

Project Manager: Rich Bernier, P.E.

Project Priority: A

CSO Phase II is the second phase of the City of Providence's CSO Abatement Program. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the Seeley 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 (WCSOI) along the Woonasquatucket River can be completed.

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	Q1/A	Q1/A	Q1/A	Q1/A
Design	Q1/A	Q1/A	Q1/A	Q1/A
Construction	November-11	July-13	20 Months	\$153
Total Project	November-11	July-13	20 Months	\$153

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30313C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 43	\$ 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 45
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	107	1	-	-	-	-	-	-	108
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ 150	\$ 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 153

Note: Cash Flow Basis in Thousands

30314C

Phase II CSO Facilities WCO#054



Photo: WCO 054

Project Overview

Location: Providence, RI

Contractor(s): DiGregario, Inc.

Project Manager: Rich Bernier, P.E.

Project Priority: A

CSO Phase II is the second phase of the City of Providence's CSO Abatement Program. It consists of the construction of two interceptors to convey flows from combined sewer overflows in Providence along the Seeley 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 (30314C) is for the construction of two chambers associated with outfall 054 on the Woonasquatucket Sewer Interceptor (WSI) along the bioreactor path north of Route 6 near the Johnston Town line.

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	Q1/A	Q1/A	Q1/A	Q1/A
Design	Q1/A	Q1/A	Q1/A	Q1/A
Construction	January-12	September-14	33 Months	\$2,915
Total Project	January-12	September-14	33 Months	\$2,915

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30314C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 34	\$ 56	\$ 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 90
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	1,455	902	12	-	-	-	-	-	2,369
Contingency	-	431	-	-	-	-	-	-	431
Other	5	20	-	-	-	-	-	-	25
Total Project Costs	\$ 1,493	\$ 1,409	\$ 13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,915

Note: Cash Flow Basis in Thousands

This page was intentionally left blank.

3000

CSO Phase III Facilities



Photo: Proposed alignment for the Pawtucket CSO Tunnel

Project Overview

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

CSO Phase III is the third phase of the City of Pawtucket's federally mandated CSO Abatement Program and 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. This year's CIP reflects design beginning in FY 2014 that includes a reevaluation of the program after the first two phases of the CSO Program are complete. This reevaluation will determine the improvement in water quality as a result of that work, if Phase III needs to be completed and, if so, if the approach as originally designed is still the most cost effective.

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	December-17	54 Months	\$38,706
Construction	July-17	August-22	62 Months	565,950
Total Project	July-13	August-22	109 Months	\$604,656

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 3000

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ 72	\$ 114	\$ 174	\$ 465	\$ 127	\$ -	\$ -	\$ 952
Land	-	-	-	-	-	4,000	-	-	4,000
A/E Professional	-	935	5,927	11,997	14,185	-	-	-	33,044
Other	-	300	240	170	-	-	-	-	710
Total Project Costs	\$ -	\$ 1,307	\$ 6,281	\$ 12,341	\$ 14,650	\$ 4,127	\$ -	\$ -	\$ 38,706

Projected Expenditures - 3000C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 875	\$ 1,500	\$ 3,625	\$ 6,000
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	6,650	14,400	34,950	56,000
Construction	-	-	-	-	-	25,600	96,000	278,400	400,000
Contingency	-	-	-	-	-	-	-	48,000	48,000
Other	-	-	-	-	-	6,600	14,400	34,950	55,950
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,725	\$ 126,300	\$ 399,925	\$ 565,950

Note: Cash Flow Basis in Thousands

This page was intentionally left blank.

30600

Floatables Control Facilities



Photo: Overflow 220

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. BC conducted an evaluation and then designed floatables control facilities for the three largest Phase III overflows OF 205, OF 219 and OF 220. BC will provide trash racks for the remaining Phase III

Project Overview

overflows. This project is currently in construction.

Location: Pawtucket, RI
 Contractor(s): John 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	/A	/A	/A	/A
Design	July-09	October-13	52 Months	\$488
Construction	July-13	June-14	11 Months	5,002
Total Project	July-09	June-14	60 Months	\$5,490

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30600D

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 143	\$ 54	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 197
Land	30	-	-	-	-	-	-	-	30
A/E Professional	211	-	-	-	-	-	-	-	211
Other	50	-	-	-	-	-	-	-	50
Total Project Costs	\$ 434	\$ 54	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 488

Projected Expenditures - 30600C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 165	\$ 60	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 225
Land	-	-	-	-	-	-	-	-	-
A/E Professional	83	40	-	-	-	-	-	-	123
Construction	3,871	332	-	-	-	-	-	-	4,202
Contingency	-	444	-	-	-	-	-	-	444
Other	-	7	-	-	-	-	-	-	7
Total Project Costs	\$ 4,118	\$ 883	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,002

Note: Cash Flow Basis in Thousands

This page was intentionally left blank.

Projects 304 M Summary

CFO Interceptor and Cleaning Projects



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

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

The 304 M projects continue NBC's program to clean and inspect NBC interceptors as needed. The T 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 T inspections, they will be given a unique project number and draw funding from the funds available in Project 30400M.

Total Project Duration/Cost

Project Phase	Actual/Projected Start Date	Actual/Projected Completion Date	Project Duration	Cost (in Thousands)
Planning	/A	/A	/A	/A
Design	/A	/A	/A	/A
Inspection/Cleaning	July-09	Ongoing	Ongoing	\$3,500
Total Project	July-09	Ongoing	Ongoing	\$3,500

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 304 M Summary

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ 91	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 691
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Inspect/Cleaning	-	303	325	325	325	325	325	325	2,253
Contingency	-	-	-	-	-	-	-	-	-
Other	-	106	75	75	75	75	75	75	556
Total Project Costs	\$ -	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 3,500

Note: Cash Flow Basis in Thousands

30400C

Repair and Construction of CPO Interceptors



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

Project 30400C estimates the unknown costs of interceptor repair and construction resulting from WBC'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.

Project Overview

Location: Warragansett 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	/A	/A	/A	/A
Design	/A	/A	/A	/A
Construction	July-01	Ongoing	Ongoing	\$3,000
Total Project	July-01	Ongoing	Ongoing	\$3,000

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30400C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 75	\$ 75	\$ 150
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	1,250	1,250	2,500
Contingency	-	-	-	-	-	-	150	150	300
Other	-	-	-	-	-	-	25	25	50
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,500	\$ 1,500	\$ 3,000

Note: Cash Flow Basis in Thousands

30421

Louisquisset Pipe Interceptor Replacement



Photo: Proposed portion of Lincoln Interceptor Replacement

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.

Project Overview

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	/A	/A	/A	/A
Design	May-07	July-09	26 Months	\$206
Construction	August-14	June-16	22 Months	2,382
Total Project	May-07	June-16	109 Months	\$2,588

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30421D

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	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 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	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

30444

Mosshassuck Valley Interceptor



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

Inspection of 2,600 feet of the Mosshassuck Valley Interceptor from Higginson Street in Central Falls to Lockbridge Street in Pawtucket revealed that this line has sunk 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): Louis Berger Group

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	November-13	22 Months	357
Construction	June-13	February-15	20 Months	2,373
Total Project	May-06	February-15	107 Months	\$2,752

Projected Expenditures - 30444P

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2
A/E Professional	20	-	-	-	-	-	-	-	20
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ 22	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22

Projected Expenditures - 30444D

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 30	\$ 52	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 82
Land	-	75	-	-	-	-	-	-	75
A/E Professional	108	35	-	-	-	-	-	-	143
Other	-	57	-	-	-	-	-	-	57
Total Project Costs	\$ 138	\$ 219	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 357

Projected Expenditures - 30444C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 2	\$ 63	\$ 13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 78
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	31	4	-	-	-	-	-	35
Construction	-	1,750	250	-	-	-	-	-	2,000
Contingency	-	-	240	-	-	-	-	-	240
Other	-	15	5	-	-	-	-	-	20
Total Project Costs	\$ 2	\$ 1,859	\$ 512	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,373

Note: Cash Flow Basis in Thousands

30455C

Improvements to Interceptors FY 2012



Photo: Lining at an interceptor improvement location

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.

Project Overview

Location: Providence, RI
 Contractor: John 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	/A	/A	/A	/A
Design	/A	/A	/A	/A
Construction	April-12	July-14	27 Months	\$1,892
Total Project	April-12	July-14	27 Months	\$1,892

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30455C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 127	\$ 62	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 189
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	1,590	8	-	-	-	-	-	-	1,598
Contingency	-	-	85	-	-	-	-	-	85
Other	9	11	-	-	-	-	-	-	20
Total Project Costs	\$ 1,726	\$ 81	\$ 85	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,892

Note: Cash Flow Basis in Thousands

30456C

NBC Interceptor Lining at Butler Hospital



Photo: Lining at an interceptor improvement location

This project involves the lining of approximately 2,400 feet of sewer pipe, rehabilitation of manholes and various repairs to an NBC-owned sewer located on the Butler Hospital property in Providence.

Project Overview

Location: Providence, RI

Contractor: N/A

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	April-13	December-14	20 Months	\$540
Total Project	April-13	December-14	20 Months	\$540

Projected Expenditures - Planning

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - Design

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Projected Expenditures - 30456C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 2	\$ 55	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 57
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	396	4	-	-	-	-	-	400
Contingency	-	48	-	-	-	-	-	-	48
Other	-	35	-	-	-	-	-	-	35
Total Project Costs	\$ 2	\$ 534	\$ 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 540

Note: Cash Flow Basis in Thousands

30457

Providence River Siphon Replacement



Photo: Providence River Siphon House

The existing Providence River Siphon is over 100 years old. Should it fail there is no back up sewer to convey flow from the East Side of Providence to the Allen's Ave. interceptor. Replacing or rehabilitating this siphon will ensure continuous uninterrupted service for the future.

Project Overview

Location: Providence, RI
 Contractor: 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	March-13	December-13	10 Months	\$224
Design	February-14	September-15	19 Months	830
Construction	July-15	June-17	23 Months	6,138
Total Project	March-13	June-17	51 Months	\$7,192

Projected Expenditures - 30457P

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ 9	\$ 15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24
A/E Professional	-	180	-	-	-	-	-	-	180
Other	-	20	-	-	-	-	-	-	20
Total Project Costs	\$ 9	\$ 215	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 224

Projected Expenditures - 30457D

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ 11	\$ 80	\$ 10	\$ -	\$ -	\$ -	\$ -	\$ 100
Land	-	-	50	200	-	-	-	-	250
A/E Professional	-	60	340	-	-	-	-	-	400
Other	-	5	75	-	-	-	-	-	80
Total Project Costs	\$ -	\$ 76	\$ 545	\$ 210	\$ -	\$ -	\$ -	\$ -	\$ 830

Projected Expenditures - 30457C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ 90	\$ 144	\$ -	\$ -	\$ -	\$ 234
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	98	156	-	-	-	254
Construction	-	-	-	1,650	3,350	-	-	-	5,000
Contingency	-	-	-	-	500	-	-	-	500
Other	-	-	-	25	125	-	-	-	150
Total Project Costs	\$ -	\$ -	\$ -	\$ 1,863	\$ 4,275	\$ -	\$ -	\$ -	\$ 6,138

Note: Cash Flow Basis in Thousands

3045C

Douglas / Branch Avenue Interceptor Relief



Photo:  at an interceptor improvement location

The Branch Avenue Interceptor is subject to surcharging in wet weather which may result in Sanitary Sewer Overflows. This project is to evaluate improvements that should be made to the Interceptor to eliminate the surcharging. Design and construction of the improvements would be done after the evaluation is complete.

Project Overview

Location: Providence, RI
 Contractor: 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	July-13	May-14	10 Months	\$67
Design	July-14	January-16	18 Months	565
Construction	November-15	April-18	20 Months	6,528
Total Project	Jul-13	April-18	57 Months	\$7,100

Projected Expenditures - 3045P

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ 12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12
A/E Professional	-	50	-	-	-	-	-	-	50
Other	-	5	-	-	-	-	-	-	5
Total Project Costs	\$ -	\$ 67	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 67

Projected Expenditures - 3045D

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ 36	\$ 59	\$ -	\$ -	\$ -	\$ -	\$ 95
Land	-	-	-	100	-	-	-	-	100
A/E Professional	-	-	270	80	-	-	-	-	350
Other	-	-	5	15	-	-	-	-	20
Total Project Costs	\$ -	\$ -	\$ 311	\$ 254	\$ -	\$ -	\$ -	\$ -	\$ 565

Projected Expenditures - 3045C

Cost Category	Pre-FY 2014	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Post FY-2019	Total
Administrative	\$ -	\$ -	\$ -	\$ 26	\$ 270	\$ 158	\$ -	\$ -	\$ 453
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	25	300	175	-	-	500
Construction	-	-	-	250	3,000	1,750	-	-	5,000
Contingency	-	-	-	-	-	500	-	-	500
Other	-	-	-	-	-	75	-	-	75
Total Project Costs	\$ -	\$ -	\$ -	\$ 301	\$ 3,570	\$ 2,658	\$ -	\$ -	\$ 6,528

Note: Cash Flow Basis in Thousands

This page was intentionally left blank.

Task Name	2014				2015				2016				2017				2018				2019					
	Qtr. 4	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4	
10901 - FPWWTF Nitrogen Removal Facilities																										
Construction																										
11602 FPWWTF Tunnel Pump Station Improvements																										
Design																										
Bid/Award Process																										
Construction																										
11900 - NBC Regulatory Compliance Building and Related Upgrades																										
Design/Funding Requirements																										
Bid/Award Process																										
Construction																										
12000 - BPWWTF Biogas Reuse																										
Design																										
Bid/Award Process																										
Construction																										
12100 FPWWTF Wind Turbines																										
Procurement																										
Construction																										
12400 - New IM Facilities																										
Design																										
Bid/Award Process																										
Construction																										
12500 - Utility Reliability Enhancement for the FP Campus																										
Bid/Award Process																										
Construction																										
12600C - FPWWTF Land Acquisition/Site Demolition																										
Bid/Award Process																										
Construction																										
30301D - CSO Phase II Facilities Design																										
Design/Funding Requirements																										
30301RS - Phase II CSO Facilities Program & Construction Management																										
Construction																										
30302C - Phase II CSO Facilities OF 106																										
Bid/Award Process																										
Construction																										
30303C - Phase II CSO Facilities WCSOI Main																										
Bid/Award Process																										
Construction																										
30304C - Phase II CSO Facilities SCSOI Main																										
Bid/Award Process																										
Construction																										
30305C - Phase II CSO Facilities OF 027																										
Bid/Award Process																										
Construction																										
30306C - Phase II CSO Facilities OF 037 West																										
Bid/Award Process																										
Construction																										
30307C - Phase II CSO Facilities OF 037 South																										
Bid/Award Process																										
Construction																										
30308C - Phase II CSO Facilities OF 037 North																										
Bid/Award Process																										
Construction																										
30309C - Phase II CSO Facilities WCSOI Regulators																										
Bid/Award Process																										
Construction																										

This page was intentionally left blank.