Narragansett Bay Commission

CAPITAL BUDGET FY 2023

LAURIE HORRIDGE
Executive Director

VINCENT J. MESOLELLA
Chairman

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Capital Budget

NBC's Capital Budget includes the Operating Capital Program (OCP) and the Capital Improvement Program (CIP). The FY 2023 Capital Budget is $223.6 million which is $42.8 million or 23.7% higher than the prior year.

	FY 2021 Actual	FY 2022 Budget	FY 2023 Budget	Budgeted Difference
Source of Funds				
Project Fund - Pay-go Capital	$ 10,891,817	$ 6,333,000	$ 26,836,186	$ 20,503,186
Project Fund - Restricted OCP	3,192,306	4,327,000	3,812,000	(515,000)
2019 Series A (RIIB)	6,918,592	-	-	-
2020 Series B (WIFIA 1)	64,376,780	140,137,000	102,300,903	(37,836,097)
2020 Series C (WIFIA 2)	2,111,284	30,008,000	80,656,987	50,648,987
2021 Series A (RIIB)	-	-	1,000,000	1,000,000
2022 Series A (WIFIA 3)	-	-	8,982,856	8,982,856
Total Source of Funds	**$ 87,490,779**	**$ 180,805,000**	**$ 223,588,932**	**$ 42,783,932**
Use of Funds				
CIP	$ 83,847,136	$ 176,278,000	$ 219,776,932	$ 43,498,932
OCP	3,192,306	4,327,000	3,812,000	(515,000)
Cost of Issuance/Other	451,336	200,000	-	(200,000)
Total Use of Funds	**$ 87,490,779**	**$ 180,805,000**	**$ 223,588,932**	**$ 42,783,932**

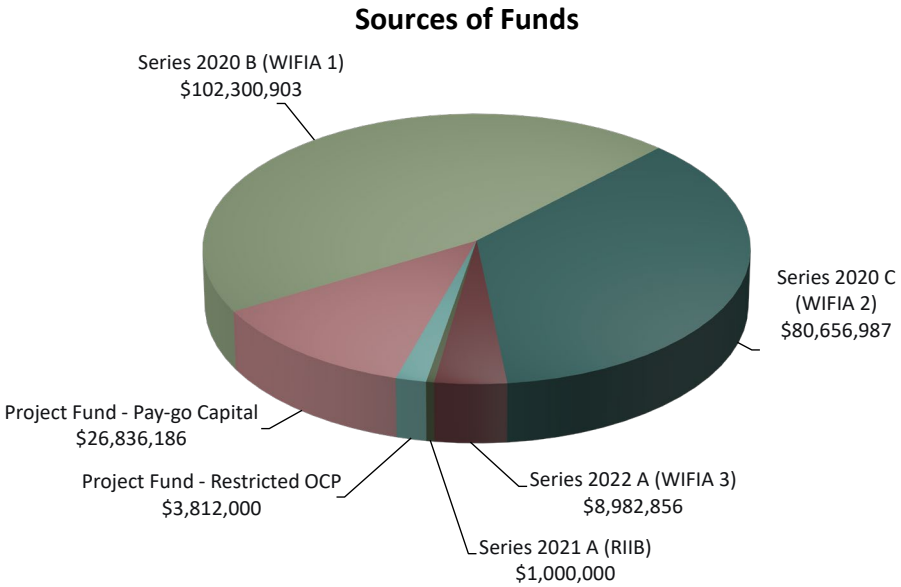
The CIP and OCP identify capital expenditures in the current budget year and subsequent five-years and are developed within the context of the Strategic Plan's short-term and long-term goals. NBC staff identify capital needs based upon the Asset Management Program as well as system and facility inspections. In addition, NBC engineers and scientists identify improvements that may be required to meet new permit requirements such as more stringent discharge limits as well as consent agreements. Additional capital needs such as improvements to Information Technology hardware and software are also identified as new technologies become available.

Items identified for inclusion in the Capital Budget must meet NBC's criteria to be considered an asset. NBC's asset criteria are further discussed in the OCP portion of this document. In general, assets that are to be purchased and installed by NBC staff within the fiscal year are included in the OCP. The highest priority items are included in the budget year with the remaining assets programmed into subsequent years. The CIP includes assets that will be completed over a number of years and are considered to be larger, more complex, and costlier. CIP items typically require the services of outside professional services to assist with planning, design, and construction. The projects identified in the CIP are assigned priority codes and funding is allocated accordingly.

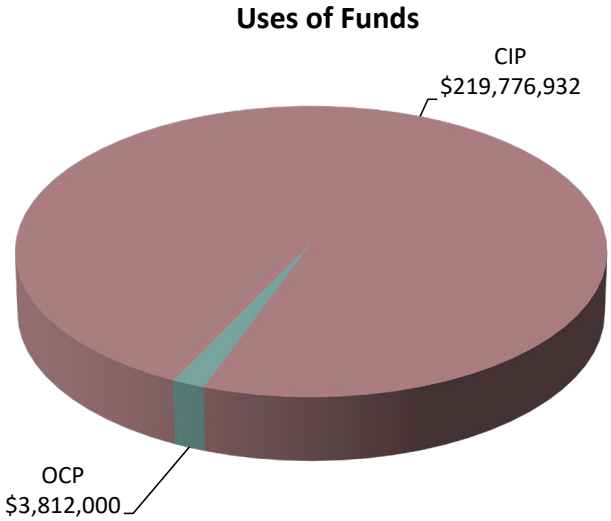
The Operating Budget includes debt service associated with the financing of the CIP. In addition, the Operating Budget line item "Transfer to Project Fund" is used in the subsequent fiscal year to fund the OCP and Pay-go CIP projects. Additional funding for the CIP is available from the Grants and Project Reimbursements Account in the Project Fund. NBC also funds the CIP with proceeds from the issuance of taxable and tax-exempt revenue bonds issued through the Rhode Island Infrastructure Bank (RIIB), which is also referred to in this document as

State Revolving Fund (SRF) debt. Capital improvements are also financed through the Water Infrastructure Financing Innovation Act (WIFIA) program administered by the United States Environmental Protection Agency (USEPA) which provides long-term low-cost credit assistance for up to 49% of eligible project costs. NBC also uses taxable and tax-exempt revenue bonds to meet capital needs.

In Fiscal Year 2023, the total sources of capital funds are approximately $223.6 million. The largest source of capital funding is the WIFIA 1 Loan at $102.3 million or 46%. The second largest source is the WIFIA 2 Loan at $80.7 million or 36%. The budgeted Project Fund – Pay-go Capital, comprised of the Restricted Account and the Grants & Project Reimbursements Account, is $26.8 million or 12%, followed by the WIFIA 3 Loan at $9.0 million or 4% and the Project Fund - Restricted OCP at $3.8 million or 2%. Lastly, Series 2021 A RIIB Loan proceeds of $1.0 million or less than 1% is budgeted. The following chart illustrates the capital funding sources by type.



The largest category of capital budget expense in FY 2023 is for the CIP, which represents $219.8 million or 98% of the total capital budget funds. The OCP represents $3.8 million or 2% of the capital budget expense. The following chart illustrates the capital funding uses by type.



The Fiscal Year 2023 Operating Capital Budget totals $3.8 million, which is $515 thousand lower than the prior year. The following table shows the FY 2023 budgeted Operating Capital by Division. Please refer to the OCP Overview tabs in this document for more information on the OCP including the program overview, five-year plan for FY 2024-2028 and FY 2023 budget detail.

FY 2023 Operating Capital Program by Division

Division Cost Center		Fiscal Year 2023	Fiscal Years 2024-2028
Administration			
Administration		$ 195,000	$ -
Information Technology		260,000	1,265,000
	Subtotal	455,000	1,265,000
Construction & Engineering			
Construction Services		50,000	104,000
Engineering		245,000	67,000
	Subtotal	295,000	171,000
Finance			
Finance		150,000	-
Customer Service		210,000	70,000
General Services		150,000	500,000
	Subtotal	510,000	570,000
Operations & Maintenance Services			
Interceptor Maintenance		121,000	1,526,000
Operations & Maintenance Services		73,000	32,000
Field's Point		756,000	6,609,000
Bucklin Point		878,000	2,650,000
	Subtotal	1,828,000	10,817,000
Environmental Science & Compliance			
Pretreatment		40,000	80,000
Laboratory		403,000	2,133,000
Environmental Monitoring		281,000	650,000
	Subtotal	724,000	2,863,000
Total		**$ 3,812,000**	**$ 15,686,000**

The table on the following page shows the CIP by functional area. The table shows that the Fiscal Year 2023 programmed CIP expense totals $219.8 million, which is $43.5 million higher than the prior year. In addition, NBC has programmed capital improvements of $562.1 million over FY 2024-2028.

Photo: Pawtucket Tunnel

The majority of these costs relate to the CSO Phase III A Facilities, at $173.3 million or 79% of the total programmed expense in FY 2023. The largest CSO Phase III A project is 30801, the design-build of the Pawtucket Tunnel and Pump Station, with programmed expense of $133.7 million in FY 2023 along with $170.9 million in FY 2024-2028.

Please refer to the CIP tabs in this document for more information on the CIP, the individual projects, and the project operating budget impact of these improvements.

Capital Improvement Program FY 2023 and FY 2024-2028

(In Thousands)

Project Number	Project Name		Fiscal Year 2023	Fiscal Years 2024-2028
Wastewater Treatment Facility Improvements				
20000	WWTF Improvements		$ -	$ 1,000
20200	2019 WWTF Improvements		98	-
20700	Long-Range Biosolids Disposal		223	10,004
24000	NBC Facility Electrical Improvements		448	3
81800	BPWWTF Sludge Digestion Facility Improvements		992	5,127
		Subtotal	1,761	16,134
Bucklin Point Resiliency Improvements				
81000	BPWWTF UV Disinfection Improvements		9,687	3,458
81600	BPWWTF Improvements		393	3,600
81700	BPWWTF Operations & Maintenance Buildings		18,830	5,649
		Subtotal	28,910	12,707
Field's Point Resiliency Improvements				
20300	FPWWTF Improvements		2,563	16,306
20400	FPWWTF Ernest Street Pump Station Improvements		2,758	32,764
20500	FPWWTF Maintenance & Storage Buildings		2,590	23,422
20600	NBC Solar Carport		8	-
20800	Cybersecurity Improvements		197	22
40101	FPWWTF Electrical Improvements		758	9,509
71000	Lincoln Septage Receiving Station Replacement		108	6,382
		Subtotal	8,982	88,405
Infrastructure Management				
1140600	RIPDES Compliance Improvements		303	235
1140800	Pilot Restoration Projects		101	66
1140900	Water Quality Model Validation and Enhancement		60	103
30700	NBC System-wide Facilities Planning		28	726
40200	NBC System-wide Inflow Reduction		127	978
40300	Municipal Lateral Sewer Acquisition Impact		-	481
40400	FPWWTF Plan Update		116	67
40550	RIPDES Flow Monitoring System Implementation		1,253	397
		Subtotal	1,988	3,053
CSO Phase III Facilities				
30800	CSO Phase III A Facilities - Design & Construction Program Management		18,892	42,059
30801	CSO Phase III A Facilities - Pawtucket Tunnel & Pump Station		133,667	170,931
30802	CSO Phase III A Facilities - Tunnel Pump Station Fit-out		27	104,994
30803	CSO Phase III A Facilities - OF 205		-	6,270
30804	CSO Phase III A Facilities - OF 210, 213, 214		1	28,225
30805	CSO Phase III A Facilities - OF 217		11,657	4,073
30807	CSO Phase III A Facilities - Regulator Modifications		6,107	25
30809	CSO Phase III A - GSI Projects		1,600	1,672
30810	CSO Phase III A Facilities - BPWWTF Clarifiers & Flow Splitters		1,385	45,639
		Subtotal	173,336	403,888
Sewer System Improvements				
12400	Interceptor Maintenance Building		3	9,984
30500	NBC Interceptor Easements Restoration, Various Locations		254	1,005
30610	NBC System-wide Regulator Modifications		533	3,077
70900	Omega Pump Station Improvements		631	6,744
		Subtotal	1,421	20,810
Interceptor Cleaning & Restoration				
30400M	Interceptor Inspection and Cleaning		-	2,500
30480M	Completion of Baseline Siphon Inspections and Cleanings		508	-
		Subtotal	508	2,500
Interceptor Restoration & Construction				
30400C	Interceptor Restoration and Construction		-	4,920
30315	Woonasquatucket CSO OF 046 Improvements		280	3,314
30421	Louisquisset Pike Interceptor Improvements		43	6,418
30468	Improvements to Interceptors FY 2022		2,550	-
		Subtotal	2,873	14,652
		Total	**$ 219,779**	**$ 562,149**

The Narragansett Bay Commission
One Service Road
Providence, Rhode Island 02905

401 • 461 • 8848
401 • 461 • 6540 FAX

http://www.narrabay.com

Vincent J. Mesolella
Chairman

Laurie A. Horridge
Executive Director

RESOLUTION 2022:01

APPROVAL OF FY 2023 CAPITAL BUDGET

WHEREAS, the Narragansett Bay Commission ("NBC") prepares and the NBC's Board of Commissioners ("Board") reviews and approves an annual Capital Budget for incorporation into the NBC's Annual Budget; and

WHEREAS, the Capital Budget consists of the Operating Capital Program (OCP) that identifies planned asset purchases and the Capital Improvement Program (CIP) that identifies planned capital improvement projects; and

WHEREAS, the Board has reviewed the FY 2023 Capital Budget;

NOW THEREFORE BE IT RESOLVED, that the NBC hereby adopts and approves the FY 2023 Capital Budget;

BE IT FURTHER RESOLVED, that with respect to the OCP for the period of July 1, 2022 through June 30, 2023:

1. The Executive Director and the Chief Financial Officer ("CFO") shall ensure that OCP expense does not exceed $3,812,000 for the period of July 1, 2022 to June 30, 2023.

2. The CFO shall administer the OCP consistent with the Trust Indenture and all Supplemental Trust Indentures and is hereby authorized to make any determinations and/or requests as required thereunder.

3. The CFO is hereby authorized to finance the FY 2023 Operating Capital Program from the Restricted Sub Account - Operating Capital Account in the Project Fund.

4. The CFO or Designee may instruct the Trustee to directly pay for assets from the Restricted Sub Account - Operating Capital Account in the Project Fund.

5. The CFO is hereby authorized to approve changes to the OCP, as well as adjustments between line items, and between cost centers for the budget year as long as the total expenditures do not exceed the total amount approved in the budget year and shall provide a summary of these changes to the Board and/or Finance Committee at regularly scheduled meetings.

BE IT FURTHER RESOLVED, that with respect to the CIP:

1. The Executive Director is authorized to expend funds on capital projects for preliminary planning, staff time and other services in order to assess project need, scope and feasibility prior to project review and approval by the Board for inclusion in the CIP and/or as separate stand-alone projects.

2. Inclusion of a project in the CIP does not constitute Board approval. All CIP projects must be presented to the Board for review and approval.

3. CIP expenditures must conform to applicable purchasing laws and regulations.

4. The CFO is hereby authorized to finance capital projects from Accounts in the Project Fund in accordance with the Trust Indenture.

5. The CFO shall transfer sewer tie-in fees, rebates, and other capital reimbursements from the Revenue Fund to the Project Fund – Grants and Project Reimbursements Account and the CFO is authorized to expend these funds on capital projects.

6. The budgeted CIP sources and uses are for planning purposes only and may be modified by the CFO to meet CIP cash draw needs, funding restrictions, emergencies, or take advantage of new funding opportunities.

BE IT FURTHER RESOLVED, that with respect to the Stabilization Account in the Debt Service Fund:

1. In addition to uses explicitly identified in section 506(6) the Trust Indenture, the CFO is authorized to expend funds in the Stabilization Account in the Debt Service Fund for certain capital financing related costs that are not included as part of Cost of Issuance such as fees relating to trustee and/or escrow services, credit reviews, WIFIA applications, arbitrage reporting, loan servicing, and other related costs.

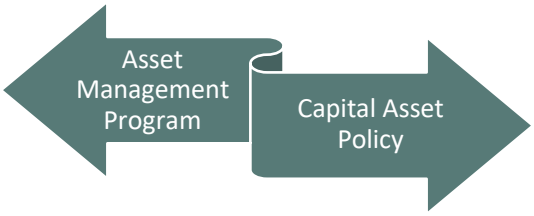
ADOPTED ON: _____

SIGNED: _____
Laurie Horridge
Secretary to the Board

Operating Capital Program

NBC's Operating Capital Program (OCP) identifies programmed asset purchases for the current budget year and subsequent five years. The OCP is based primarily on information from NBC's Asset Management Program (AMP) and includes new assets, asset replacements, asset renovations and betterments. Examples of these assets include pumps, tanks, actuators, bar racks, and testing equipment.

Other operating capital items are identified through facility inspections and established programmatic priorities. Examples of these assets include fleet vehicles and laboratory equipment as well as computer hardware and software licensing. In accordance with NBC's Capital Asset Policy, all assets must have an acquisition cost greater than $5,000 and a useful life of three years or more.



Operating Capital Program Overview

This year's OCP identifies 76 assets programmed for acquisition in FY 2023 at a total cost of approximately $3.8 million. NBC has also programmed asset purchases in FY 2024 through FY 2028 of approximately $15.7 million for a total of $19.5 million over the six-year period reflected in the Program. As is shown in the following table, most of the asset purchases, $12.6 million or 65%, are for items required to support the wastewater treatment and collection functions in the Operations and Maintenance Division.

FY 2023 – 2028
Operating Capital Program

Division	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 2024-2028	Total FY 2023-2028
Administration	$ 455,000	$ 250,000	$ 220,000	$ 325,000	$ 185,000	$ 285,000	$ 1,265,000	$ 1,720,000
Construction & Engineering	295,000	-	34,000	67,000	-	70,000	171,000	466,000
Finance	510,000	135,000	135,000	100,000	100,000	100,000	570,000	1,080,000
Operations & Maintenance	1,828,000	2,741,000	2,360,000	2,010,000	2,057,000	1,649,000	10,817,000	12,645,000
Environmental Science & Compliance	724,000	446,000	518,000	419,000	954,000	526,000	2,863,000	3,587,000
	$3,812,000	$3,572,000	$3,267,000	$2,921,000	$3,296,000	$2,630,000	$15,686,000	$19,498,000

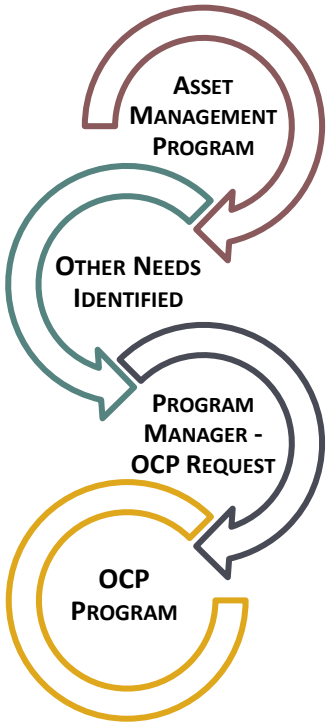
Operating Capital Program Development

NBC is committed to making the investments needed to ensure continuous operation of its facilities, support services and core business functions. To achieve this goal, NBC adopted and implemented an Asset Management Program (AMP), which is the primary source used to identify operating capital needs. The AMP is a comprehensive and detailed document maintained by the Asset Management Administrator that identifies all of NBC's assets. This includes assets acquired as part of a capital improvement project as well as assets purchased through the annual budget process.

Detailed asset information is captured in the asset management system including the location, cost, and useful life of an asset. In addition, each asset is assigned a criticality factor that takes into consideration redundancy. NBC's computerized work order system is integrated into the AMP so that preventive and corrective maintenance activity is also captured for each asset. The asset maintenance history and useful life information assists with the determination of whether an asset should be repaired or replaced. The

information in the AMP enables NBC to produce a facilities and equipment condition analysis report that is used to identify and prioritize capital asset needs.

In addition to the AMP, other new assets, or asset replacements are identified through the operation and inspection of facilities. Investment in Information Technology (IT) assets are typically programmed in advance to address specific needs such as refreshing employee workstations and laptops, enhancing the security of NBC's technical infrastructure, or implementing additional functionality to current business systems. Laboratory and sampling equipment needs are often identified through the planning process to ensure compliance with new RIPDES permit or water quality sampling requirements.



Program managers use the information from the AMP and other sources as the basis for requesting funding for operating capital assets. The OCP includes requests for the upcoming budget year as well as the subsequent five years to align with the Capital Improvement Program window.

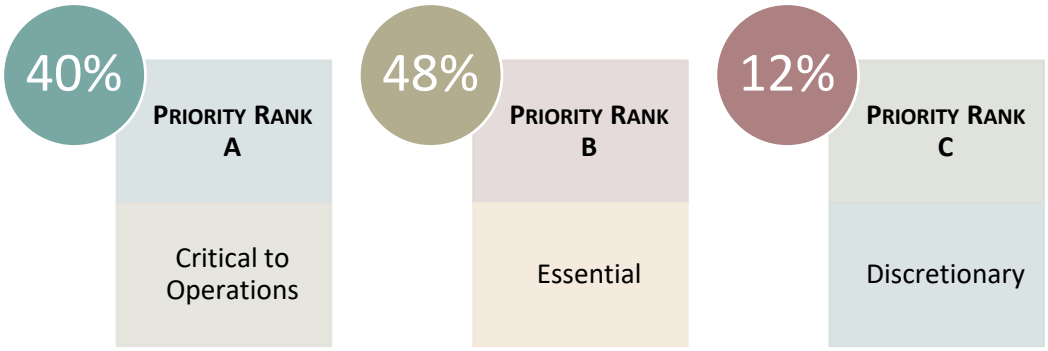
With respect to the upcoming budget year, as part of the annual budget process, each section submits detailed operating capital requests with supporting documentation for each asset. Each request is unique and includes the asset title, description, estimated cost, location, useful life, purchase justification, priority ranking and indicates if the asset is new, a replacement or a betterment. The requests are first reviewed by the accounting staff to determine if the request meets the capital asset criteria. Once approved by accounting, the requests are reviewed by Finance to ensure that the information is complete and that there is documentation to support the estimated cost. Any new asset request with a cost over $50 thousand is required to be accompanied by a cost analysis to demonstrate that the purchase of new equipment is more cost effective than using an outside vendor. Once the asset has been confirmed to meet the OCP criteria, the information is compiled and included in the budget. Each asset included in the budget is assigned a unique asset allocation number which is referenced when the asset is purchased to ensure that it is authorized.

Capital Assets by Priority

As part of the OCP program development, each asset request is assigned a priority ranking based on an assessment of its criticality. Assets with a priority Ranking "A" represent items critical to NBC operations and would include implementation of new technology, addressing a new permit requirement and ensuring the health and safety of NBC's work environment. Approximately 40% of asset requests for FY 2023 are prioritized with an "A" ranking with a total cost of $1.5 million.

In addition, 48% or $1.8 million are identified with a "B" priority ranking, which include items essential to efficient operations such as the need of a specialized contractor and/or skilled workers to install a new asset or availability of parts for critical equipment. Assets with a priority ranking "C" are assets needed,

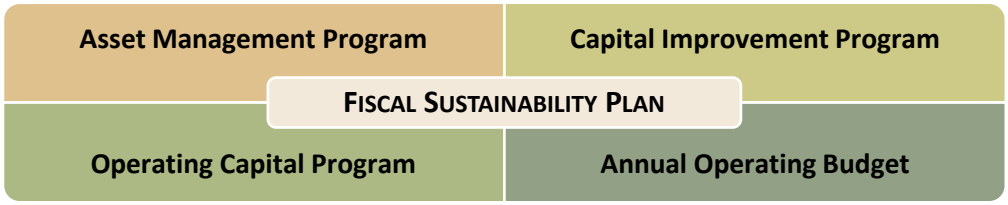
but not critical to ongoing operations of NBC's facilities, such as office furniture and equipment and represents 12% of the total or $477 thousand.



The OCP also reflects planned asset purchases for the subsequent five years. Although detailed information is required for all requested operating capital assets in the budget year, less specific information is needed to program future purchases. Each cost center submits a six-year operating capital needs form as part of the annual budget process. The first-year ties into the budget year and must be accompanied by the operating capital request form discussed previously. Assets in subsequent years must include the asset title, location, a brief explanation of how the asset will be used, and justification. These requests are reviewed by Finance and are incorporated into the OCP.

Fiscal Sustainability Plan

To borrow funds through the Rhode Island Infrastructure Bank (RIIB), NBC is required to have an established Fiscal Sustainability Plan (FSP) that complies with the Amendments to Titles I, II, V, and VI in the Water Resources Reform and Development Act under the Federal Water Pollution Control Act (Regulations). Under the guidance of NBC's Board of Commissioner's Fiscal Sustainability Plan Policy, the Asset Management Program (AMP), Capital Improvement Program (CIP), Annual Operating Budget and Operating Capital Program (OCP) were developed and implemented. These planning tools protect NBC's significant capital investments and conservation efforts and have been formally incorporated into the FSP. The AMP provides direction in developing the OCP based on the identified needs that meet the criteria set forth in NBC's Capital Asset Policy.



Operating Capital Program Guidelines

The development of the FY 2023 Operating Capital Program is governed by the following:

- The operating capital policy defines operating capital items as those with costs greater than $5,000 and a minimum useful life of three years.
- The Asset Management Policy requires the identification of short-term capital needs and the development of a long-term (five-year) asset replacement Program.
- The Accounting Manager must ensure that asset criteria is met and approve the capitalization of assets.

Operating Capital Program Budget Calendar

Development of the Operating Capital Program Budget is as follows:

OCTOBER 2021
- Budget Forms Available

NOVEMBER 2021
- FY 2023 – 2028 Operating Capital Submittals due to Finance
- Review submittals with respect to Asset Criteria and General Ledger (GL) account code

DECEMBER 2021
- 5-year OCP available for review and comments

JANUARY 2022
- Complete OCP Schedules
- Draft OCP Narrative

FEBRUARY 2022
- Finalize OCP Document
- Finance Committee and Board Review and Approval of OCP on March 1, 2022

Operating Capital Program Amendment Procedures

During the fiscal year, there may be a need to make changes to the operating capital budget to accommodate those instances in which the actual bids received for items are higher than budgeted amounts, or where the installation of a new asset requires additional resources beyond what was anticipated. In addition, changes may be required to accommodate emergencies. In these cases, a Division Director may request a modification to the operating capital budget. If a modification to the operating capital budget is needed, it is preferred that an entire asset is reallocated to the new item. In some cases, this is not possible and partial reallocations are accommodated. The Chief Financial Officer may authorize changes in the operating capital budget if the total expenditures do not exceed the total amount approved for the fiscal year. Procedures for modifications to the operating capital budget during the year are as follows:

Operating Capital Program Amendment Procedures

Non-Emergencies:

- Prior to Purchase, the Operating Capital Reallocation Request Form is completed, signed by the Division Director, and accompanied by vendor quote for the estimated cost.
- The Form is reviewed by the Accounting and Finance Departments to determine if the item meets the criteria to be considered an asset in accordance with NBC's Capital Asset Policy.
- The Form then requires review and approval by the Chief Financial Officer.
- If approved, a new Asset Allocation number is assigned, and operating capital funding is transferred.

Emergencies:

- The item is purchased in accordance with NBC's Purchasing Rules and Regulations for emergency purchases.
- The Operating Capital Reallocation Request Form is completed and signed by the Division Director and accompanied by a quote for the estimated cost.
- The Form is reviewed by the Accounting and Finance Departments to determine if the item meets the criteria to be considered an asset in accordance with NBC's Capital Asset Policy and is then reviewed by the Chief Financial Officer.

Operating Capital Program by Strategic Objective

The Strategic Plan guides NBC operations and ensures facilities and infrastructure are maintained. As part of the OCP development, the budgeted capital assets have been categorized by the goal the asset will address.

Of the 76 budgeted capital assets in FY 2023, $3.3 million or 89% are related to NBC's Core Business goal for infrastructure, applications, and compliance. In addition, $500 thousand or 11% relate to NBC's Environmental Performance goal and includes sampling and laboratory analysis assets. The following table illustrates the percentage of budgeted assets by strategic goal.

Percentage of OCP Assets by Strategic Plan Goal

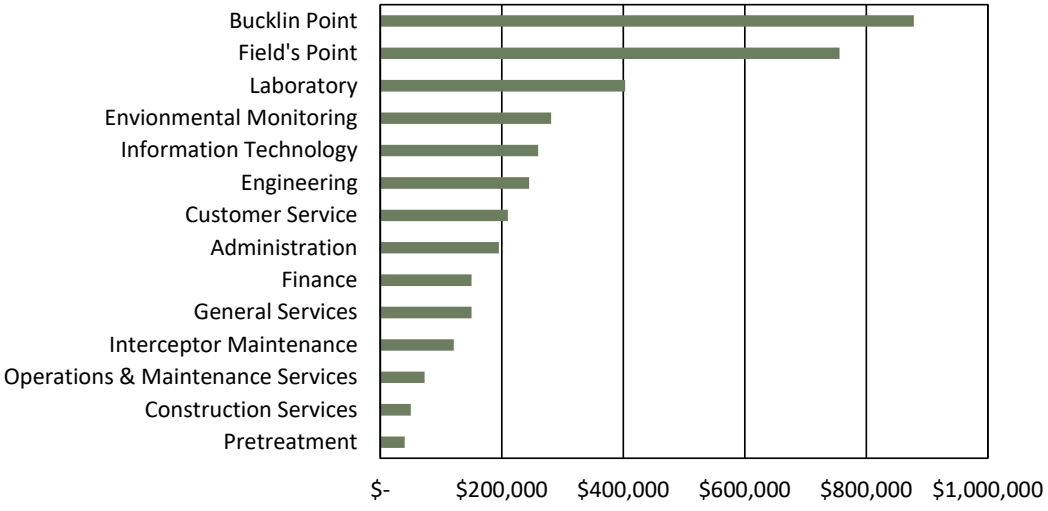
	Core Business: *Operate, maintain, and protect our collection and treatment systems to ensure that all State and Federal requirements are met or surpassed.*	
Key Code	**Percentage**	**Code Description**
CB3	**14%**	Ensure the cost-effective operation and maintenance of NBC wastewater treatment and collection system through best practices and the implementation of new technologies.
CB4	**75%**	Maintain NBC's asset management program to ensure continuous operation and the protection of assets.

	Environmental Performance: *Continuously evaluate NBC environmental performance to identify, quantify and minimize NBC impacts to the environment in a cost-effective manner.*	
Key Code	**Percentage**	**Code Description**
EP 2	**11%**	Perform data collection and analysis to optimize the treatment process and provide a scientific basis for future permit requirements

Operating Capital Program by Cost Center

The largest percentage of the FY 2023 OCP is to support the wastewater treatment facilities (WWTF), representing a combined 41% of the programmed operating capital with $878 thousand at Bucklin Point and $756 thousand at Field's Point. NBC has prioritized the replacement of numerous pumps, vehicles, tanks, bar racks, and other equipment, as well as upgrades to wind turbines and security, which are required to operate the facilities and maintain infrastructure. The Laboratory section's operating capital budget comprises 11% of the total or $403 thousand. The Laboratory is replacing several analyzers for WWTFs sample testing to meet RIPDES permit requirements. The Cyanide Analyzer, at a cost of $130 thousand is used to test for cyanide; the ICP-OES Industrial Metals Analyzer, at a cost of $120 thousand is used to test for metals and the Saltwater Nutrient Analyzer, at a cost of $120 thousand is used to test for nitrogen compounds in sea water. The Environmental Monitoring section comprises 7% of the total budget at $281 thousand and includes $155 thousand for the purchase of a new sampling vessel as well as replacement of sampling equipment. The Information Technology (IT) section's operating capital budget of $260 thousand or 7% of the total, includes $75 thousand for the annual PC Refresh Program and $75 thousand for the triennial security assessment. This total also includes hardware and software investments. The FY 2023 operating capital by cost center is reflected in the following chart.

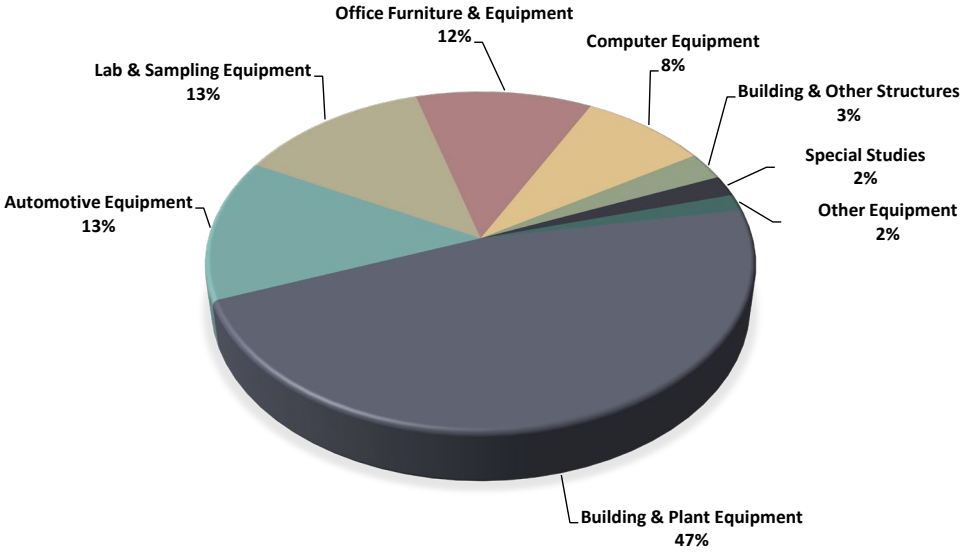
FY 2023 Operating Capital by Cost Center



Fiscal Year 2023 Operating Capital Program by Type

The FY 2023 OCP identifies new and replacement asset purchases totaling approximately $3.8 million. The largest asset category is Building & Plant Equipment at $1.8 million or 47% of the total. Automotive Equipment represents 13% or $517 thousand. Lab & Sampling Equipment represents 13% or $491 thousand. Office Furniture & Equipment represents 12% or $453 thousand. Computer Equipment represents 8% or $325 thousand. Other Equipment, Building & Other Structures and Special Studies comprise the remaining 7% of the FY 2023 asset acquisitions.

FY 2023 Operating Capital by Type



NBC's strategic goal of maximizing technology and maintaining capability is demonstrated through computer equipment purchases that are programmed in FY 2023. The majority is related to hardware upgrades and software enhancements to existing business systems along with the annual PC refresh program.

Computer Equipment	Total
Customer Information and Billing System Enhancements	75,000
Annual PC Refresh Program	75,000
Laboratory Information Management System Enhancements	50,000
Power Supply Upgrade	50,000
Computer Room Enhancements	25,000
Conference Room Upgrades	25,000
Programmable Logic Controller	15,000
Security Upgrades	10,000
Total	**$ 325,000**

The following table illustrates NBC's FY 2023 programmed replacement and betterment investments which ensure the protection of assets and continuous operation of the facilities. Most of the Replacement Reserve items, or 56%, are for building and plant equipment. This includes pumps, bar racks, tanks and upgrades to the HVAC systems and wind turbines. This is followed by vehicles at 17%, laboratory & sampling equipment at 16% and computer equipment at 5%.

Replacement & Betterment Assets		Total	% of Total
Building & Plant Equipment	$	1,728,000	56%
Vehicles		517,000	17%
Laboratory & Sampling Equipment		478,000	16%
Computer Equipment		140,000	5%
Other		217,000	7%
Total	**$**	**3,080,000**	**100%**

Lastly, NBC plans on purchasing new assets in the Office Furniture and Equipment category. Several areas within the NBC campus will be reconfigured to accommodate changes in personnel at a cost of $295 thousand, a new space will be created for the Environmental Education program at a cost of $100 thousand and the purchase a new copy machine for printing sewer permits is also included. This category represents 55% of the total new assets. New computer hardware and software enhancements represent 25% of the programmed new assets at a cost of $185 thousand. NBC intends to purchase new assets in the building & plant equipment category totaling $63 thousand which include ductless split air conditioning systems in the COB, a portable trench box that will be used to assist with small excavations and a gas metering system which measures the gas level in the tunnel screening building. The remaining new assets at a cost of $81 thousand or 11% of the total will support operations and ensure core business goals are met.

New Assets		Total	% of Total
Office Furniture & Equipment		403,000	55%
Computer Equipment		185,000	25%
Building & Plant Equipment		63,000	9%
Other		81,000	11%
Total	**$**	**732,000**	**100%**

Operating Capital Program Funding

Operating Capital is funded from the Restricted Account – Operating Capital in the Project Fund. In accordance with the Trust Indenture, after fiscal year end, a calculation is made to determine the amount that should be transferred from the Stabilization Account in the Debt Service Fund to the Restricted Accounts in the Project Fund to support the Capital Budgets. This is also consistent with the Order from the Rhode Island Public Utilities Commission. An additional calculation is performed to further allocate the funds to the OCP and CIP Restricted Accounts. For the Operating Capital Program, the fund transfer at the beginning of each fiscal year to the Restricted Account – Operating Capital takes into consideration any unspent balance from the prior year (see calculation below).

FY 2023 Operating Capital Budget *Less* FY 2022 Unspent Operating Capital *Equals* Funds Transferred to Restricted Account - Operating Capital

The following table shows that in FY 2023, NBC plans to fund the OCP with $3.8 million from the Restricted Account – Operating Capital in the Project Fund. NBC has also programmed funding of $5.0 million per year for FY 2024 through FY 2028 for the OCP from this same source.

OCP - SOURCES

Sources of Funds (Thousands)	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 2024-2028
Restricted Account-Operating Capital	$ 3,812	$ 5,000	$ 5,000	$ 5,000	$ 5,000	$ 5,000	$ 25,000
Total	**$ 3,812**	**$ 5,000**	**$ 5,000**	**$ 5,000**	**$ 5,000**	**$ 5,000**	**$ 25,000**

The FY 2023 programmed asset purchases total approximately $3.8 million. In FY 2024 through FY 2028, NBC has programmed the acquisition of the assets identified in the OCP as well as an additional placeholder amount. This ensures that total programmed uses are $5.0 million per year in the five-year window.

OCP - USES

Uses of Funds (Thousands)	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 2024-2028
Operating Capital Program	$ 3,812	$ 3,572	$ 3,267	$ 2,921	$ 3,296	$ 2,630	$ 15,686
Operating Capital Placeholder	-	1,428	1,733	2,079	1,704	2,370	9,314
Total	**$ 3,812**	**$ 5,000**	**$ 5,000**	**$ 5,000**	**$ 5,000**	**$ 5,000**	**$ 25,000**

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Operating Capital Program Summary by Fiscal Year

Asset Type	Asset Title	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total Cost
ADMINISTRATION								
Administration								
Replacement	Environmental Education Room	$ 100,000	$ -	$ -	$ -	$ -	$ -	$ 100,000
New	Office Furniture & Equipment	95,000	-	-	-	-	-	95,000
	Subtotal Administration	195,000	-	-	-	-	-	195,000
Information Technology								
Replacement	Annual PC Refresh Program Replacement	75,000	75,000	75,000	75,000	75,000	75,000	450,000
New	Triennial Security Assessment	75,000	-	-	75,000	-	-	150,000
New	LIMS Enhancement	50,000	-	50,000	-	50,000	-	150,000
New	Conference Room Upgrades	25,000	25,000	25,000	25,000	25,000	25,000	150,000
New	Computer Room Enhancements	25,000	25,000	25,000	25,000	25,000	25,000	150,000
New	Security Upgrades	10,000	10,000	10,000	10,000	10,000	10,000	60,000
Replacement	Edge Switch Upgrades	-	50,000	-	50,000	-	50,000	150,000
New	Oracle ERP/Database Enhancements	-	40,000	-	40,000	-	40,000	120,000
New	Hansen Upgrades	-	25,000	-	25,000	-	25,000	75,000
Replacement	Large Form Scanner/Printer	-	-	35,000	-	-	35,000	70,000
	Subtotal Information Technology	260,000	250,000	220,000	325,000	185,000	285,000	1,525,000
CONSTRUCTION & ENGINEERING								
Construction Services								
Replacement	Vehicle 357	50,000	-	-	-	-	-	50,000
Replacement	Vehicle 343	-	-	34,000	-	-	-	34,000
Replacement	Vehicle 337	-	-	-	35,000	-	-	35,000
Replacement	Vehicle 311	-	-	-	-	-	35,000	35,000
	Subtotal Construction Services	50,000	-	34,000	35,000	-	35,000	154,000
Engineering								
Replacement	HVAC Control System Upgrade	70,000	-	-	-	-	-	70,000
Replacement	Interceptor Maintenance HVAC	65,000	-	-	-	-	-	65,000
New	Ductless Split Air Conditioning System	35,000	-	-	-	-	-	35,000
Replacement	Ductless Split Air Conditioning System	15,000	-	-	-	-	-	15,000
Replacement	GPS Rover	45,000	-	-	-	-	-	45,000
Replacement	Survey Equipment	15,000	-	-	-	-	-	15,000
Replacement	Vehicle 326	-	-	-	32,000	-	-	32,000
Replacement	Vehicle 312	-	-	-	-	-	35,000	35,000
	Subtotal Engineering	245,000	-	-	32,000	-	35,000	312,000
FINANCE								
Finance								
New	Office Furniture & Equipment	100,000	-	-	-	-	-	100,000
Replacement	Copy machine	50,000	-	-	-	-	-	50,000
	Subtotal Finance	150,000	-	-	-	-	-	150,000
Customer Service								
New	Office Furniture & Equipment	100,000	-	-	-	-	-	100,000
New	CIS Enhancements	75,000	-	-	-	-	-	75,000
Replacement	Vehicle 339	35,000	-	-	-	-	-	35,000
Replacement	Vehicle 335	-	35,000	-	-	-	-	35,000
Replacement	Vehicle 316	-	-	35,000	-	-	-	35,000
	Subtotal Customer Service	210,000	35,000	35,000	-	-	-	280,000
General Services								
Replacement	Wind Turbine Upgrades	150,000	100,000	100,000	100,000	100,000	100,000	650,000
	Subtotal General Services	150,000	100,000	100,000	100,000	100,000	100,000	650,000
OPERATIONS & MAINTENANCE								
Interceptor Maintenance								
Replacement	Vehicle 341	55,000	-	-	-	-	-	55,000
Replacement	Vehicle 444	40,000	-	-	-	-	-	40,000
Replacement	Garage Heaters	10,000	-	-	-	-	-	10,000
New	Portable Trench Box	8,000	-	-	-	-	-	8,000
Replacement	Digger Bucket	8,000	-	-	-	-	-	8,000
Replacement	Vehicle 472	-	150,000	-	-	-	-	150,000
Replacement	Vehicle 376	-	140,000	-	-	-	-	140,000
Replacement	Vehicle 455	-	-	75,000	-	-	-	75,000
Replacement	Vehicle 338	-	-	65,000	-	-	-	65,000
Replacement	Interceptor Maintenance Building Roof	-	-	56,000	-	-	-	56,000
Replacement	Copy Machine	-	-	12,000	-	-	-	12,000
Replacement	Vehicle 363	-	-	-	225,000	-	-	225,000
Replacement	Vehicle 459	-	-	-	16,000	-	-	16,000
Replacement	Fence Gate Controller	-	-	-	12,000	-	-	12,000
Replacement	Equipment 829A	-	-	-	10,000	-	-	10,000

Operating Capital Program Summary by Fiscal Year

Asset Type	Asset Title	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total Cost
Replacement	Equipment 656A	-	-	-	8,000	-	-	8,000
Replacement	Vehicle 346	-	-	-	7,000	-	-	7,000
Replacement	Vehicle 329	-	-	-	-	600,000	-	600,000
Replacement	Vehicle 322	-	-	-	-	-	75,000	75,000
Replacement	Vehicle 334	-	-	-	-	-	45,000	45,000
Replacement	Vehicle 373	-	-	-	-	-	30,000	30,000
	Subtotal Interceptor Maintenance	121,000	290,000	208,000	278,000	600,000	150,000	1,647,000
Operations & Maintenance Services								
Replacement	Power Supply Upgrade	50,000	-	-	-	-	-	50,000
Replacement	Programmable Logic Controller Upgrade	15,000	-	-	-	-	-	15,000
New	Copy Machine	8,000	-	-	-	-	-	8,000
Replacement	Vehicle 336	-	-	-	32,000	-	-	32,000
	Subtotal Operations & Maintenance Services	73,000	-	-	32,000	-	-	105,000
Field's Point								
Replacement	Bar Racks	150,000	152,000	152,000	152,000	155,000	155,000	916,000
Replacement	Grit Tank Unit	105,000	110,000	110,000	115,000	115,000	115,000	670,000
New	Fire Alarm	80,000	-	-	-	-	-	80,000
Replacement	Return Sludge Pump	80,000	-	-	-	-	-	80,000
Replacement	Hypo Tank Relining	65,000	-	-	-	-	-	65,000
Replacement	Vehicle 375	45,000	-	-	-	-	-	45,000
Replacement	Vehicle 379	35,000	-	-	-	-	-	35,000
Replacement	Sludge Grinder	30,000	-	18,000	18,000	18,000	22,000	106,000
Replacement	Wasting Pump	30,000	-	-	-	-	-	30,000
Replacement	Variable Frequency Drive	30,000	-	-	-	-	-	30,000
Replacement	Sludge Pump & Motor	24,000	24,000	-	-	-	25,000	73,000
Replacement	Sludge Pump	20,000	-	-	-	-	-	20,000
Replacement	Influent Gate Cylinder	20,000	-	-	-	-	-	20,000
New	Gas Metering System	20,000	-	-	-	-	-	20,000
Replacement	Isolation Valves	15,000	-	-	-	-	-	15,000
Replacement	Tank Level Indicator	7,000	-	-	-	-	-	7,000
Replacement	Sewage Pump	-	250,000	50,000	250,000	250,000	-	800,000
Replacement	Hydro Flow Screen	-	200,000	-	-	-	-	200,000
Replacement	40 MGD Sewage Pump Cartridge	-	165,000	175,000	-	-	-	340,000
Replacement	Vehicle 353	-	155,000	-	-	-	-	155,000
Replacement	Variable Frequency Drive Cells	-	100,000		-	-	-	100,000
Replacement	Tank Turntable Assembly	-	85,000	85,000	85,000	-	-	255,000
Replacement	Lower Bearing & Shaft	-	75,000	75,000	80,000	-	80,000	310,000
Betterment	Tunnel 1 Crane Recoating	-	50,000	-	-	-	-	50,000
Replacement	300 HP Motor for Pump	-	45,000	45,000	-	-	-	90,000
Replacement	Grit Pump with Motor	-	35,000	-	-	-	-	35,000
Replacement	Vehicle 389	-	35,000	-	-	-	-	35,000
Replacement	Hydraulic Power System	-	30,000	-	-	-	-	30,000
Replacement	Pepcon Unit	-	30,000	-	-	-	-	30,000
Replacement	Vehicle 434	-	30,000	-	-	-	-	30,000
Replacement	Exhaust Fans	-	25,000	-	-	-	-	25,000
Replacement	Equipment 0024	-	25,000	-	-	-	-	25,000
Replacement	Equipment 0040	-	22,000	-	-	-	-	22,000
Replacement	Screw Pump Motor	-	20,000	38,000	25,000	-	-	83,000
Replacement	MCC Room UPS	-	20,000	-	-	-	-	20,000
Replacement	Dewatering Pump Motor	-	19,000	-	-	-	-	19,000
Replacement	Tunnel Bridge Crane Drive Unit/Hoist/Trolly	-	18,000	-	-	-	-	18,000
Replacement	Sludge Grinder Cartridges	-	15,000	15,000		15,000	-	45,000
Replacement	Equipment 109A	-	15,000	-	-	-	-	15,000
Replacement	Dewatering Pump	-	12,000	-	-	-	-	12,000
Replacement	Variable Frequency Drive	-	10,000	-	-	-	-	10,000
Replacement	Mag Flow Meter	-	6,000	-	-	-	-	6,000
Replacement	Fire Alarm Panel	-	5,000	-	-	-	-	5,000
Replacement	Dehumidifiers	-	-	200,000	-	-	-	200,000
Replacement	Sewage Pump Motor	-	-	100,000	-	-	-	100,000
Replacement	Hypo Storage Tanks	-	-	75,000	75,000	80,000	80,000	310,000
Replacement	Vehicle 360	-	-	45,000	-	-	-	45,000
Replacement	Vehicle 366	-	-	45,000	-	-	-	45,000
Replacement	Sewage Pump & Motor	-	-	40,000	-	-	-	40,000
Replacement	Vehicle 352	-	-	40,000	-	-	-	40,000
Replacement	Vehicle 464	-	-	40,000	-	-	-	40,000
Replacement	200 HP Motor for Pump	-	-	35,000	30,000		-	65,000
Replacement	Tunnel-1 Crane Laser Distance/Power Rails/Shoes Rebuild	-	-	35,000	-	-	-	35,000
Replacement	Equipment 0050	-	-	35,000	-	-	-	35,000
Replacement	Sluice Gate Actuators	-	-	30,000	-	-	-	30,000
Replacement	Vehicle 345	-	-	28,000	-	-	-	28,000

Operating Capital Program Summary by Fiscal Year

Asset Type	Asset Title	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total Cost
Replacement	Water Champ	-	-	25,000	25,000	25,000	-	75,000
Replacement	Equipment 0070	-	-	22,000	-	-	-	22,000
Replacement	Froth Spray Pump & Motor	-	-	20,000	-	-	40,000	60,000
Replacement	Sump Pump	-	-	20,000	-	-	-	20,000
Replacement	Hypochlorite Pump & Motor	-	-	20,000	-	-	-	20,000
Replacement	Gearbox, Stem & Piston	-	-	14,000	-	-	-	14,000
Replacement	Computer Air Handling Unit	-	-	12,000	-	-	-	12,000
Replacement	Copy Machine	-	-	12,000	-	-	-	12,000
Replacement	Dilution Flow Meter	-	-	10,000	-	-	-	10,000
Replacement	Variable Frequency Drive	-	-	10,000	-	-	-	10,000
Replacement	Equipment 0025	-	-	10,000	-	-	-	10,000
Replacement	Flow Meter	-	-	9,000	-	-	-	9,000
Replacement	Flow Meter	-	-	8,000	-	-	-	8,000
Replacement	LEL Gas Meter	-	-	6,000	-	-	-	6,000
Replacement	20 MGD Sewage Pump Cartridge	-	-	-	130,000	-	-	130,000
Replacement	Caustic Storage Tank	-	-	-	75,000	80,000	85,000	240,000
Replacement	Vehicle 332	-	-	-	45,000	-	-	45,000
Replacement	Gearboxes for Sluice Gates	-	-	-	40,000	-	-	40,000
Replacement	Scum Dewatering Pump	-	-	-	36,000	-	-	36,000
Replacement	Plant Water Pump & Motor	-	-	-	35,000	35,000	-	70,000
Replacement	Vehicle 333	-	-	-	28,000	-	-	28,000
Replacement	Metering Pumps	-	-	-	25,000	-	-	25,000
Replacement	Actuator for Butterfly Valve	-	-	-	20,000	-	-	20,000
Replacement	Sodium Bisulfite Analyzer	-	-	-	15,000	-	-	15,000
Replacement	Lower Explosive Limit Gas Meter	-	-	-	10,000	-	-	10,000
Replacement	Effluent Bisulfite Analyzer	-	-	-	9,000	-	-	9,000
Replacement	Process Control Unit	-	-	-	-	50,000	-	50,000
Replacement	Butterfly Valve	-	-	-	-	40,000	-	40,000
Replacement	Flow Meter	-	-	-	-	40,000	-	40,000
Replacement	GT Flow Meter Assembly	-	-	-	-	30,000	-	30,000
Replacement	Flow Meters	-	-	-	-	28,000	-	28,000
Replacement	Scum Pump w/motor	-	-	-	-	20,000	-	20,000
Replacement	Serpentine Conveyor Pans	-	-	-	-	12,000	-	12,000
Replacement	Air Handling Unit, MCC Room	-	-	-	-	9,000	-	9,000
Replacement	Underflow Valve Actuators	-	-	-	-	-	45,000	45,000
Replacement	Vehicle 315	-	-	-	-	-	35,000	35,000
Replacement	Caustic Metering Pump	-	-	-	-	-	30,000	30,000
Replacement	Stainless Steel Tank	-	-	-	-	-	30,000	30,000
Replacement	Air Handling Unit	-	-	-	-	-	25,000	25,000
Replacement	Copy Machine	-	-	-	-	-	8,500	8,500
Replacement	Copy Machine	-	-	-	-	-	8,500	8,500
Replacement	Wet Weather Storage Trailer	-	-	-	-	-	8,000	8,000
	Subtotal Field's Point	756,000	1,783,000	1,709,000	1,323,000	1,002,000	792,000	7,365,000
Bucklin Point								
Replacement	Effluent Pump 3 Rebuild	125,000	-	-	-	-	-	125,000
Replacement	Roof	100,000	-	-	-	-	-	100,000
Replacement	Bar Rack	60,000	90,000	90,000	90,000	95,000	100,000	525,000
Replacement	Sludge Pump with Grinder	60,000	60,000	-	-	70,000	-	190,000
Replacement	RAS Pump	55,000	-	-	-	-	-	55,000
Replacement	Booster Pump 1	52,000	60,000	-	-	-	-	112,000
Replacement	Booster Pump 2	52,000	60,000	-	-	-	-	112,000
Replacement	Air Handling Unit	50,000	-	-	-	-	-	50,000
Replacement	Muffin Monster Cutting Assembly	50,000	-	-	-	50,000	-	100,000
Replacement	Recirculation Pumps	50,000	-	-	-	-	-	50,000
Replacement	Scum Pump/Grinder/Mixer	35,000	-	35,000		-	-	70,000
Replacement	Actuators	29,000	-	-	-	-	-	29,000
Replacement	Ultraviolet Transmission Probe	28,000	-	-	-	-	-	28,000
Replacement	Grit Pump	25,000	25,000	25,000	25,000	30,000	30,000	160,000
Replacement	Scum Pump	25,000	-	30,000	-	30,000	-	85,000
Replacement	Aeration Tank Diffusers	20,000	-	-	-	-	-	20,000
Replacement	Dewatering Pump	20,000	-	-	-	-	-	20,000
Replacement	Flushing Water Pump	16,000	20,000	20,000	-	-	-	56,000
Replacement	30 Yard Container	16,000	-	-	-	-	-	16,000
Replacement	Confined Space Hoist Equipment	10,000	-	-	-	-	-	10,000
Replacement	Screw Pump	-	70,000	-	-	-	-	70,000
Replacement	Air Filter Box	-	40,000	-	45,000	-	45,000	130,000
Replacement	Vortex Collector Motor & Gearbox	-	35,000	-	-	-	-	35,000
Replacement	Vehicle 351	-	28,000	-	-	-	-	28,000
Replacement	Sump Pumps	-	25,000	-	-	-	-	25,000
Replacement	Equipment 0065A	-	25,000	-	-	-	-	25,000

Operating Capital Program Summary by Fiscal Year

Asset Type	Asset Title	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total Cost
Replacement	Equipment 0067A	-	25,000	-	-	-	-	25,000
Replacement	Disinfection Control System	-	20,000	-	-	-	-	20,000
Replacement	Bisulfite Tanks	-	14,000	-	-	-	-	14,000
Replacement	Flow Meter	-	16,000	-	-	-	-	16,000
Replacement	Equipment 0065	-	12,000	-	-	-	-	12,000
Replacement	EV344	-	8,000	-	-	-	-	8,000
Replacement	EV455	-	8,000	-	-	-	-	8,000
Replacement	Equipment 802A	-	7,000	-	-	-	-	7,000
Replacement	Flume Meter	-	6,000	-	-	-	-	6,000
Replacement	Flume Meter	-	6,000	-	-	-	-	6,000
Replacement	UPS Battery Backup	-	6,000	-	-	-	-	6,000
Replacement	Conveyor Leveling Screws	-	2,000	-	-	-	-	2,000
Replacement	Vehicle 330	-	-	45,000	-	-	-	45,000
Replacement	Vehicle 331	-	-	45,000	-	-	-	45,000
Replacement	Flow Meter	-	-	26,000	-	-	-	26,000
Replacement	Wet Weather Dewatering Pump	-	-	25,000	-	-	-	25,000
Replacement	Harmonic Turbo Blower	-	-	24,000	-	-	-	24,000
Replacement	Sump Pumps	-	-	20,000	-	-	-	20,000
Replacement	Actuators & Gearbox	-	-	15,000	-	-	-	15,000
Replacement	Control Panel & Power Monitoring System	-	-	14,000	-	-	-	14,000
Replacement	Voltage Regulator	-	-	12,000	-	-	-	12,000
Replacement	Equipment 910A	-	-	10,000	-	-	-	10,000
Replacement	Equipment 0102A	-	-	7,000	-	-	-	7,000
Replacement	Vehicle 368	-	-	-	85,000	-	-	85,000
Replacement	Vehicle 344	-	-	-	35,000	-	-	35,000
Replacement	Hypo Pump	-	-	-	30,000	-	-	30,000
Replacement	Actuator Valves	-	-	-	15,000	-	-	15,000
Replacement	Total Suspended Solids Meter	-	-	-	10,000	-	-	10,000
Replacement	Meter & Transmitter	-	-	-	10,000	-	-	10,000
Replacement	Equipment 118A	-	-	-	10,000	-	-	10,000
Replacement	Gas Detection System	-	-	-	8,000	-	-	8,000
Replacement	Equipment 0102A	-	-	-	8,000	-	-	8,000
Replacement	Influent Flow Meter	-	-	-	6,000	-	-	6,000
Replacement	Dissolved Oxygen Sensors	-	-	-	-	-	120,000	120,000
Replacement	Variable Frequency Drive Effluent Pumps	-	-	-	-	-	90,000	90,000
Replacement	Primary Digester 1 Mixer 1	-	-	-	-	60,000	-	60,000
Replacement	Primary Digester 1 Mixer 2	-	-	-	-	60,000	-	60,000
Replacement	Primary Digester 1 Mixer 3	-	-	-	-	60,000	-	60,000
Replacement	Primary Digester 2 Mixer 1	-	-	-	-	-	60,000	60,000
Replacement	Primary Digester 2 Mixer 2	-	-	-	-	-	60,000	60,000
Replacement	Primary Digester 2 Mixer 3	-	-	-	-	-	60,000	60,000
Replacement	Scum Pump	-	-	-	-	-	50,000	50,000
Replacement	RAS Pump 6 Rebuild	-	-	-	-	-	40,000	40,000
Replacement	Scum Pump	-	-	-	-	-	30,000	30,000
Replacement	Scum Well Mixer	-	-	-	-	-	22,000	22,000
	Subtotal Bucklin Point	878,000	668,000	443,000	377,000	455,000	707,000	3,528,000
ENVIRONMENTAL SCIENCE & COMPLIANCE								
Pretreatment								
Replacement	Vehicle 386	40,000	-	-	-	-	-	40,000
Replacement	Vehicle 371	-	-	40,000	-	-	-	40,000
Replacement	Vehicle 342	-	-	-	-	40,000	-	40,000
	Subtotal Pretreatment	40,000	-	40,000	-	40,000	-	120,000
Laboratory								
Replacement	Cyanide Analyzer	130,000	-	-	-	-	130,000	260,000
Replacement	ICP-OES Industrial Metals Analyzer	120,000	-	-	-	-	120,000	240,000
Replacement	Salt Water Nutrient Analyzer	120,000	-	-	-	-	120,000	240,000
Replacement	Sample Refrigerators	20,000	20,000	-	20,000	-	20,000	80,000
Betterment	Bioassay Aquatic Filtration System	7,000	-	-	-	-	-	7,000
New	Autoclave Data Logger Probe System	6,000	-	-	-	-	-	6,000
Replacement	Fresh Water Nutrient Analyzer	-	115,000	-	-	-	-	115,000
Replacement	Gas Chromatography Analyzer	-	85,000	-	-	-	-	85,000
Replacement	Oil and Grease Extractor	-	55,000	-	-	-	-	55,000
Replacement	Total Organic Carbon Analyzer (TOC)	-	37,000	-	-	-	-	37,000
Replacement	Water Purification System	-	-	120,000	-	-	-	120,000
Replacement	Auto-Titration System	-	-	117,000	-	-	-	117,000
Replacement	Robotic BOD Analyzer	-	-	97,000	-	-	-	97,000
Replacement	Lab Dish Washers	-	-	-	70,000	-	-	70,000
Replacement	Biological Media Dispenser	-	-	-	49,000	-	-	49,000
Replacement	Autoclave	-	-	-	49,000	-	-	49,000

Operating Capital Program Summary by Fiscal Year

Asset Type	Asset Title	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total Cost
Replacement	Autoclave	-	-	-	49,000	-	-	49,000
Replacement	Mercury Analyzer	-	-	-	30,000	-	-	30,000
Replacement	Microbiology Microscope	-	-	-	27,000	-	-	27,000
Replacement	Analytical Balances	-	-	-	23,000	-	-	23,000
Replacement	Liquid Chromatograph-MS (LC-MS) System	-	-	-	-	564,000	-	564,000
Replacement	ICP-Mass Spectrometer Analyzer	-	-	-	-	206,000	-	206,000
Replacement	TKN Hot Block System	-	-	-	-	10,000	-	10,000
	Subtotal Laboratory	403,000	312,000	334,000	317,000	780,000	390,000	2,536,000
Environmental Monitoring								
Replacement	Vehicle 392	155,000	-	-	-	-	-	155,000
Replacement	Fixed Site Sondes and Associated Equipment	56,000	56,000	56,000	60,000	60,000	60,000	348,000
Replacement	Vehicle 358	38,000	-	-	-	-	-	38,000
Replacement	Fixed Site Probes/Handheld Meter/Related Equipment	32,000	32,000	34,000	34,000	34,000	36,000	202,000
Replacement	Vehicle 349	-	38,000	-	-	-	-	38,000
Replacement	Refrigerated Autosampler	-	8,000	-	8,000	-	-	16,000
Replacement	Vehicle 340	-	-	40,000	-	-	-	40,000
Replacement	Boat Trailer	-	-	14,000	-	-	-	14,000
Replacement	Vehicle 324	-	-	-	-	40,000	-	40,000
Replacement	Vehicle 309	-	-	-	-	-	40,000	40,000
	Subtotal Environmental Monitoring	281,000	134,000	144,000	102,000	134,000	136,000	931,000
	Total	**$ 3,812,000**	**$ 3,572,000**	**$ 3,267,000**	**$ 2,921,000**	**$ 3,296,000**	**$ 2,630,000**	**$ 19,498,000**

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FY 2023 Operating Capital Program

Asset Type	Rank	Budget Account	Allocation	Asset Title	Asset Description	Approved Budget
ADMINISTRATION						
Administration						
N	C	16580	OC23-021-001	Environmental Education Room	Space needed for environmental education	$ 100,000
N	C	16580	OC23-021-002	Office Furniture & Equipment	New office space and furniture to accommodate changes in Administration	95,000
					Subtotal Administration	195,000
Information Technology						
R	B	16555	OC23-033-001	Annual PC Refresh Program	NBC personnel computers	75,000
N	B	16620	OC23-033-002	Triennial Security Assessment	Assess our current security posture	75,000
N	B	16550	OC23-033-003	LIMS Enhancement	Laboratory Information Management System tracks samples to be tested	50,000
N	C	16550	OC23-033-004	Conference Room Upgrades	Updating technology in the conference rooms	25,000
N	C	16550	OC23-033-005	Computer Room Enhancements	New hardware for computer room	25,000
N	C	16550	OC23-033-006	Security Upgrades	Upgrades to Antivirus software	10,000
					Subtotal Information Technology	260,000
					Subtotal Administration	**455,000**
CONSTRUCTION & ENGINEERING						
Construction Services						
R	B	16515	OC23-022-001	Vehicle 357	Transport NBC personnel to construction sites	50,000
					Subtotal Construction Services	50,000
Engineering						
R	B	16525	OC23-025-001	Upgrade HVAC Control System	Integrate Admin/Carbon Feed/Fine Screens/Screw Unit Blower Buildings	70,000
R	B	16525	OC23-025-002	Interceptor Maintenance HVAC	Replace ground unit at Interceptor Maintenance	65,000
R	B	16595	OC23-025-003	GPS Rover	Field Surveying	45,000
N	C	16520	OC23-025-004	Ductless Split AC System	New AC units in two offices on fourth floor of Corporate Office Building	35,000
R	C	16525	OC23-025-005	Ductless Split AC System	Replace AC unit in third floor office of Corporate Office Building	15,000
R	B	16595	OC23-025-006	Survey Equipment	Field surveying	15,000
					Subtotal Engineering	245,000
					Subtotal Construction & Engineering	**295,000**
FINANCE						
Finance						
N	C	16580	OC23-031-001	Office Furniture & Equipment	Office furniture and reconfiguration to accommodate changes in Finance	100,000
R	C	16586	OC23-031-002	Copy machine	Print Budgets/CIP/Audits and other presentations	50,000
					Subtotal Finance	150,000
Customer Service						
N	C	16580	OC23-034-001	Office Furniture & Equipment	Office furniture needs to meet changes in Customer Service	100,000
N	B	16550	OC23-034-002	CIS Enhancements	Upgrade billing system/automate business processes/SOW	75,000
R	B	16515	OC23-034-003	Vehicle 339	Customer site visits	35,000
					Subtotal Customer Service	210,000
General Services						
N	C	16525	OC23-080-001	Wind Turbine Upgrades	Converts wind energy into electricity used on-site to support facility operations	150,000
					Subtotal General Services	150,000
					Subtotal Finance	**510,000**
OPERATIONS AND MAINTENANCE						
Interceptor Maintenance						
R	B	16515	OC23-043-001	Vehicle 341	Transport staff and equipment to various sites for inspections and repairs	55,000
R	B	16515	OC23-043-002	Vehicle 444	Transport staff and equipment to various sites for inspections and repairs	40,000
R	B	16525	OC23-043-003	Garage Heaters	Heat Interceptor Maintenance garage	10,000
N	A	16520	OC23-043-004	Portable Trench Box	Assists with small excavations	8,000
R	A	16515	OC23-043-005	Digger Bucket	Cleans catch basins and sumps	8,000
					Subtotal Interceptor Maintenance	121,000
Operations & Maintenance Services						
R	A	16555	OC23-044-001	Power Supply Upgrade	Supplies power - grit generator power monitoring/wet weather facilities	50,000
R	A	16555	OC23-044-002	Programmable Logic Controller	Monitors input devices to control the state of output devices	15,000
N	B	16580	OC23-044-003	Copy Machine	Print sewer permits	8,000
					Subtotal Operations & Maintenance Services	73,000
Field's Point						
R	A	16525	OC23-046-001	Bar Racks	Removes large items from influent to protect downstream equipment	150,000
R	A	16525	OC23-046-002	Grit Tank Unit	Grit settles, then pumped to hoppers in grit building	105,000
R	B	16525	OC23-046-003	Return Sludge Pump	Returns and removes sludge from process	80,000
R	A	16555	OC23-046-004	Fire Alarm	Update fire alarm to current technology	80,000
R	B	16525	OC23-046-005	Hypo Tank	Storage for sodium hypochlorite	65,000
R	B	16515	OC23-046-006	Vehicle 379	Transport NBC personnel and equipment	45,000
R	B	16515	OC23-046-007	Vehicle 375	Transport NBC personnel and equipment	35,000
R	B	16525	OC23-046-008	Sludge Grinder	Macerates large chunks of sludge or other items found in biosolids	30,000
R	B	16525	OC23-046-009	Wasting Pump	Removes waste activated sludge and pumps it to gravity thickeners	30,000

FY 2023 Operating Capital Program

Asset Type	Rank	Budget Account	Allocation	Asset Title	Asset Description	Approved Budget
R	A	16525	OC23-046-010	Variable Frequency Drive	Controls pump speed	30,000
R	B	16525	OC23-046-011	Sludge Pump with Motor	Pumps sludge to tanks	24,000
R	B	16525	OC23-046-012	Sludge Pump	Pumps sludge to tanks	20,000
R	A	16525	OC23-046-013	Influent Gate Cylinder	Opens gates to bar rack in wet well	20,000
N	B	16520	OC23-046-014	Gas Metering System	Measures gas level in Tunnel Screening Building	20,000
R	A	16525	OC23-046-015	Isolation Valves	Isolates pumps	15,000
R	B	16525	OC23-046-016	Tank Level Indicator	Level indicator for carbon in tanks	7,000
					Subtotal Field's Point	756,000
Bucklin Point						
R	A	16525	OC23-047-001	Effluent Pump	Pumps effluent	125,000
R	A	16615	OC23-047-002	Roof	Roof replacement on carbon feed building	100,000
R	A	16525	OC23-047-003	Bar Rack	Removes large items from influent to protect downstream equipment	60,000
R	B	16525	OC23-047-004	Sludge Pump with Grinder	Pumps sludge and grinds any large objects	60,000
R	B	16525	OC23-047-005	RAS Pump	Pumps return activated sludge	55,000
R	A	16525	OC23-047-006	Booster Pump 1	Transfers methane gas to boiler	52,000
R	A	16525	OC23-047-007	Booster Pump 2	Transfers methane gas to boiler	52,000
R	B	16525	OC23-047-008	Air Handling Unit	Air exchange throughout building	50,000
R	B	16525	OC23-047-009	Muffin Monster Cutting Assembly	Shreds items in influent so equipment will not be damaged	50,000
R	A	16525	OC23-047-010	Recirculation Pumps	Recirculates effluent in tanks	50,000
R	B	16525	OC23-047-011	Scum Pump/Grinder/Mixer	Pumps and grinds any large objects	35,000
R	B	16525	OC23-047-012	Actuators	Controls flows to aeration tanks	29,000
R	A	16525	OC23-047-013	Ultraviolet Transmission Probe	Measures ultraviolet	28,000
R	A	16525	OC23-047-014	Grit Pump	Removes grit from influent	25,000
R	B	16525	OC23-047-015	Scum Pump	Moves the scum to wells for removal	25,000
R	A	16525	OC23-047-016	Aeration Tank Diffusers	Oxygenates and aerates wastewater	20,000
R	B	16525	OC23-047-017	Dewatering Pump	Oxygenates and aerates wastewater	20,000
R	C	16525	OC23-047-018	Flushing Water Pump	Supplies plant water to site and building	16,000
R	C	16515	OC23-047-019	30 Yard Container	Dispose of scrap metal and wood	16,000
R	B	16525	OC23-047-020	Confined Space Hoist Equipment	Used in confined spaces per OSHA requirements	10,000
					Subtotal Bucklin Point	878,000
					Subtotal Operations & Maintenance	**1,828,000**
ENVIRONMENTAL SCIENCE & COMPLIANCE						
Pretreatment						
R	A	16515	OC23-052-001	Vehicle	Transport NBC personnel to conduct inspections and investigations	40,000
					Subtotal Pretreatment	40,000
Laboratory						
R	B	16575	OC23-053-001	Cyanide Analyzer	Tests for cyanide in Field's Point, Bucklin Point, and SIU Industrial samples	130,000
R	B	16575	OC23-053-002	ICP-OES Industrial Metals Analyzer	Tests for metals in SIU industrial samples, manhole samples, and solid samples	120,000
R	B	16575	OC23-053-003	Salt Water Nutrient Analyzer	Tests for nitrogen compounds in sea water	120,000
R	B	16575	OC23-053-004	Sample Refrigerators	Preserves and holds permit samples	20,000
B	A	16575	OC23-053-005	Bioassay Aquatic Filtration System	Maintains the aquarium environment for Bioassay Sea Urchins to live	7,000
N	A	16570	OC23-053-006	Autoclave Data Logger Probe System	Documents autoclave temperature and processing	6,000
					Subtotal Laboratory	403,000
Environmental Monitoring						
R	A	16515	OC23-055-001	Sampling Vessel	Transport NBC personnel for upper bay sample collections	155,000
R	A	16575	OC23-055-002	Fixed Site Sondes	Fixed site and buoy stations in upper Bay	56,000
R	A	16515	OC23-055-003	Vehicle 358	Transport NBC personnel for field sample collections	38,000
R	A	16575	OC23-055-004	Fixed Site Probes & Meter	Nutrient sampling probes, meters and associated equipment	32,000
					Subtotal Environmental Monitoring	281,000
					Subtotal Environmental Science & Compliance	**724,000**
					Total Operating Capital FY 2023	**$ 3,812,000**

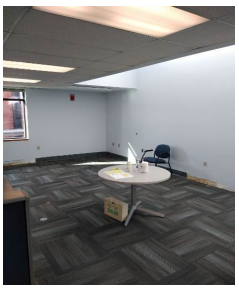
ASSET TYPE

- **R** Replacement
- **N** New
- **B** Betterment

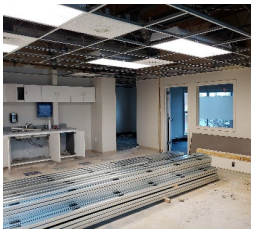
RANK

- **A** Priority Rank A - Critical to Operations
- **B** Priority Rank B - Essential
- **C** Priority Rank C - Discretionary

Asset Allocation No.	**OC23-021-001**				
Asset Title:	**Environmental Education Room**	**Cost Center:**	Administration		
Asset Location:	Pretreatment Building	**Amount:**	$100,000	**Priority Ranking:**	C
Need identified:	☐ Asset Management	☐ Inspection		☑ Other	
Asset Description:	Create space for Environmental Education.				
Budget Account:	16580 Office Furniture & Equipment				
Type:	NEW		**Useful life:**	5 Years	
Original date in service:	1986		**Original estimated useful life:**	5 Years	



Asset Allocation No.	**OC23-021-002**				
Asset Title:	**Office Furniture & Reconfiguration**	**Cost Center:**	Administration		
Asset Location:	Corporate Office Building	**Amount:**	$ 95,000	**Priority Ranking:**	C
Need identified:	☐ Asset Management	☐ Inspection		☑ Other	
Asset Description:	Office furniture and reconfiguration to accommodate changes in Administration.				
Budget Account:	16580 Office Furniture & Equipment				
Type:	NEW		**Useful life:**	5 Years	
Original date in service:	N/A		**Original estimated useful life:**	N/A	



Asset Allocation No.	**OC23-022-001**				
Asset Title:	**Vehicle 357**	**Cost Center:**	Construction Services		
Asset Location:	Field's Point	**Amount:**	$ 50,000	**Priority Ranking:**	B
Need identified:	☐ Asset Management	☑ Inspection		☐ Other	
Asset Description:	Transport NBC personnel to construction sites.				
Budget Account:	16515 Automotive Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	5 Years	
Original date in service:	2012		**Original estimated useful life:**	5 Years	

Asset Allocation No.	**OC23-025-001**				
Asset Title:	**HVAC Control Room System Upgrade**	**Cost Center:**	Engineering		
Asset Location:	Field's Point Administration Building	**Amount:**	$ 70,000	**Priority Ranking:**	B
Need identified:	☐ Asset Management	☑ Inspection		☐ Other	
Asset Description:	Controls the HVAC climate for the control room, locker rooms, offices, etc.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2009		**Original estimated useful life:**	7 Years	

Asset Allocation No.	**OC23-025-002**				
Asset Title:	**HVAC Units**	**Cost Center:**	Engineering		
Asset Location:	Interceptor Maintenance Building	**Amount:**	$ 65,000	**Priority Ranking:**	B
Need identified:	☐ Asset Management	☑ Inspection		☐ Other	
Asset Description:	Heats and cools the Interceptor Maintenance building.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2001		**Original estimated useful life:**	7 Years	

Asset Allocation No.	**OC23-025-003**				
Asset Title:	**GPS Rover**	**Cost Center:**	Engineering		
Asset Location:	Corporate Office Building	**Amount:**	$ 45,000	**Priority Ranking:**	B
Need identified:	☑ Asset Management	☑ Inspection		☐ Other	
Asset Description:	Locate, measure and incoporate NBC assets into various platforms such as GIS, AutoCad and provide ciritical information for NBC projects and operations.				
Budget Account:	16595 Other Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2011		**Original estimated useful life:**	7 Years	

Asset Allocation No.	**OC23-025-004**				
Asset Title:	**Ductless Split AC System**	**Cost Center:**	Engineering		
Asset Location:	Corporate Office Building	**Amount:**	$ 35,000	**Priority Ranking:**	B
Need identified:	☐ Asset Management	☑ Inspection		☐ Other	
Asset Description:	Supplemental heating and cooling in two offices on fourth floor of Corporate Office Building.				
Budget Account:	16520 Building and Plant Equipment				
Type:	NEW		**Useful life:**	7 Years	
Original date in service:	N/A		**Original estimated useful life:**	N/A	

Asset Allocation No.	**OC23-025-005**				
Asset Title:	**Ductless Split AC System**	**Cost Center:**	Engineering		
Asset Location:	Corporate Office Building	**Amount:**	$ 15,000	**Priority Ranking:**	B
Need identified:	☐ Asset Management	☑ Inspection		☐ Other	
Asset Description:	Heats and cools office located on third floor of Coporate Office Building.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2011		**Original estimated useful life:**	7 Years	

Asset Allocation No.	**OC23-025-006**				
Asset Title:	**Survey Equipment**	**Cost Center:**	Engineering		
Asset Location:	Corporate Office Building	**Amount:**	$ 15,000	**Priority Ranking:**	B
Need identified:	☑ Asset Management	☑ Inspection		☐ Other	
Asset Description:	Locate, measure and incoporate NBC assets into various platforms such as GIS, AutoCad and provide ciritical information for NBC projects and operations.				
Budget Account:	16595 Other Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2017		**Original estimated useful life:**	7 Years	

Asset Allocation No.	**OC23-031-001**				
Asset Title:	**Office Furniture & Reconfiguration**	**Cost Center:**	Finance		
Asset Location:	Corporate Office Building	**Amount:**	$100,000	**Priority Ranking:**	C
Need identified:	☐ Asset Management	☐ Inspection		☑ Other	
Asset Description:	Office furniture and reconfiguration to accommodate changes in Finance.				
Budget Account:	16580 Office Furniture & Equipment				
Type:	NEW		**Useful life:**	5 Years	
Original date in service:	N/A		**Original estimated useful life:**	N/A	

Asset Allocation No.	**OC23-31-002**				
Asset Title:	**Copy Machine**	**Cost Center:**	Finance		
Asset Location:	Corporate Office Building	**Amount:**	$ 50,000	**Priority Ranking:**	C
Need identified:	☐ Asset Management	☐ Inspection		☑ Other	
Asset Description:	Print the annual budgets, audits, PUC filings and other presentations.				
Budget Account:	16586 Office Furniture & Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	5 Years	
Original date in service:	2015		**Original estimated useful life:**	5 Years	

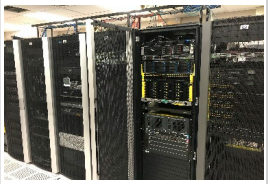
Asset Allocation No.	**OC23-033-001**				
Asset Title:	**Annual PC Refresh Program**	**Cost Center:**	Information Technology		
Asset Location:	NBC-wide	**Amount:**	$ 75,000	**Priority Ranking:**	B
Need identified:	☐ Asset Management	☐ Inspection		☑ Other	
Asset Description:	Computers over the 5-year refresh cycle will be replaced with new ones.				
Budget Account:	16555 Computer Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	3 Years	
Original date in service:	2017		**Original estimated useful life:**	3 Years	

Asset Allocation No.	**OC23-033-002**				
Asset Title:	**Triennial Security Assessment**	**Cost Center:**	Information Technology		
Asset Location:	NBC-wide	**Amount:**	$ 75,000	**Priority Ranking:**	B
Need identified:	☐ Asset Management	☐ Inspection	☑ Other		
Asset Description:	Assess current security posture to ensure our security is sufficient to protect NBC from current threats.				
Budget Account:	16620 Special Studies				
Type:	NEW		**Useful life:**	3 Years	
Original date in service:	N/A		**Original estimated useful life:**		N/A

Asset Allocation No.	**OC23-033-003**				
Asset Title:	**LIMS Enhancements**	**Cost Center:**	Information Technology		
Asset Location:	Corporate Office Building	**Amount:**	$ 50,000	**Priority Ranking:**	B
Need identified:	☐ Asset Management	☐ Inspection	☑ Other		
Asset Description:	Enhancements to the Laboratory Information System to meet the changing needs of NBC.				
Budget Account:	16550 Computer Equipment				
Type:	NEW		**Useful life:**	3 Years	
Original date in service:	N/A		**Original estimated useful life:**		N/A

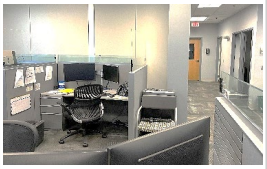
Asset Allocation No.	**OC23-033-004**				
Asset Title:	**Conference Room Upgrades**	**Cost Center:**	Information Technology		
Asset Location:	NBC-wide	**Amount:**	$ 25,000	**Priority Ranking:**	C
Need identified:	☐ Asset Management	☐ Inspection	☑ Other		
Asset Description:	Update technology in conference rooms.				
Budget Account:	16550 Computer Equipment				
Type:	NEW		**Useful life:**	3 Years	
Original date in service:	N/A		**Original estimated useful life:**		N/A

Asset Allocation No.	**OC23-033-005**				
Asset Title:	**Computer Room Enhancements**	**Cost Center:**	Information Technology		
Asset Location:	Corporate Office Building	**Amount:**	$ 25,000	**Priority Ranking:**	C
Need identified:	☐ Asset Management	☐ Inspection	☑ Other		
Asset Description:	Install new hardware in computer room to maintain computer integrity and ensure they operate efficiently.				
Budget Account:	16550 Computer Equipment				
Type:	NEW		**Useful life:**	3 Years	
Original date in service:	N/A		**Original estimated useful life:**		N/A



Asset Allocation No.	**OC23-033-006**				
Asset Title:	**Security Upgrades**	**Cost Center:**	Information Technology		
Asset Location:	NBC-wide	**Amount:**	$ 10,000	**Priority Ranking:**	A
Need identified:	☐ Asset Management	☐ Inspection	☑ Other		
Asset Description:	Update security to comply with insurance security requirements.				
Budget Account:	16550 Computer Equipment				
Type:	NEW	**Useful life:**	3 Years		
Original date in service:	N/A	**Original estimated useful life:**	N/A		

Asset Allocation No.	**OC23-034-001**				
Asset Title:	**Office Furniture & Reconfiguration**	**Cost Center:**	Customer Service		
Asset Location:	Corporate Office Building	**Amount:**	$100,000	**Priority Ranking:**	C
Need identified:	☐ Asset Management	☐ Inspection	☑ Other		
Asset Description:	Office furniture and reconfiguration to accommodate changes in Customer Service.				
Budget Account:	16580 Office Furniture & Equipment				
Type:	NEW	**Useful life:**	5 Years		
Original date in service:	N/A	**Original estimated useful life:**	N/A		



Asset Allocation No.	**OC23-034-002**				
Asset Title:	**CIS Enhancements**	**Cost Center:**	Customer Service		
Asset Location:	Corporate Office Building	**Amount:**	$ 75,000	**Priority Ranking:**	B
Need identified:	☐ Asset Management	☐ Inspection	☑ Other		
Asset Description:	Upgrade billing system and new automation of business processes and SOW.				
Budget Account:	16550 Computer Equipment				
Type:	NEW	**Useful life:**	3 Years		
Original date in service:	N/A	**Original estimated useful life:**	N/A		

ADVANCED UTILITY SYSTEMS

Asset Allocation No.	**OC23-034-003**				
Asset Title:	**Vehicle 339**	**Cost Center:**	Customer Service		
Asset Location:	Corporate Office Building	**Amount:**	$ 35,000	**Priority Ranking:**	B
Need identified:	☐ Asset Management	☐ Inspection	☐ Other		
Asset Description:	Transport NBC personnel to customer site visits.				
Budget Account:	16515 Automotive Equipment Replacement				
Type:	REPLACEMENT	**Useful life:**	5 Years		
Original date in service:	2015	**Original estimated useful life:**	5 Years		

Asset Allocation No.	**OC23-043-001**				
Asset Title:	**Vehicle 341**	**Cost Center:**	Interceptor Maintenance		
Asset Location:	Interceptor Maintenance Garage	**Amount:**	$ 55,000	**Priority Ranking:**	B
Need identified:	☐ Asset Management	☐ Inspection	☑ Other		
Asset Description:	Transport NBC personnel to perform daily permit required inspections and field work.				
Budget Account:	16515 Automotive Equipment Replacement				
Type:	REPLACEMENT	**Useful life:**	5 Years		
Original date in service:	2015	**Original estimated useful life:**	5 Years		

Asset Allocation No.	**OC23-043-002**				
Asset Title:	**Vehicle 444**	**Cost Center:**	Interceptor Maintenance		
Asset Location:	Interceptor Maintenance Garage	**Amount:**	$ 40,000	**Priority Ranking:**	B
Need identified:	☐ Asset Management	☑ Inspection	☐ Other		
Asset Description:	Transport NBC personnel to perform daily field work.				
Budget Account:	16515 Automotive Equipment Replacement				
Type:	REPLACEMENT	**Useful life:**	5 Years		
Original date in service:	2006	**Original estimated useful life:**	5 Years		

Asset Allocation No.	**OC23-043-003**				
Asset Title:	**Garage Heaters**	**Cost Center:**	Interceptor Maintenance		
Asset Location:	Interceptor Maintenance Garage	**Amount:**	$ 10,000	**Priority Ranking:**	B
Need identified:	☑ Asset Management	☐ Inspection	☐ Other		
Asset Description:	Heats Interceptor Maintenance Garage.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT	**Useful life:**	7 Years		
Original date in service:	2010	**Original estimated useful life:**	7 Years		

Asset Allocation No.	**OC23-043-004**				
Asset Title:	**Trench Box**	**Cost Center:**	Interceptor Maintenance		
Asset Location:	IM Storage Building	**Amount:**	$ 8,000	**Priority Ranking:**	A
Need identified:	☑ Asset Management	☐ Inspection	☐ Other		
Asset Description:	Secures excavation trenches for repairs needed (ex: water valve repair/ fire hydrant excavation, etc.).				
Budget Account:	16520 Building and Plant Equipment				
Type:	NEW	**Useful life:**	7 Years		
Original date in service:	N/A	**Original estimated useful life:**	N/A		

Asset Allocation No.	**OC23-043-005**				
Asset Title:	**Digger Bucket**	**Cost Center:**	Interceptor Maintenance		
Asset Location:	IM Storage Building	**Amount:**	$ 8,000	**Priority Ranking:**	A
Need identified:	☑ Asset Management	☐ Inspection		☐ Other	
Asset Description:	Cleans catch basins and sumps.				
Budget Account:	16515 Automotive Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	5 Years	
Original date in service:	2011		**Original estimated useful life:**	5 Years	

Asset Allocation No.	**OC23-044-001**				
Asset Title:	**Power Supply Upgrade**	**Cost Center:**	Operations & Maintenance Services		
Asset Location:	Field's Point Wet Weather Facilities	**Amount:**	$ 50,000	**Priority Ranking:**	A
Need identified:	☐ Asset Management	☐ Inspection		☑ Other	
Asset Description:	Current power supplies are obsolete and will be replaced with new modular units to improve system reliability.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	1997		**Original estimated useful life:**	7 Years	

Asset Allocation No.	**OC23-044-002**				
Asset Title:	**Programmable Logic Controller**	**Cost Center:**	Operations & Maintenance Services		
Asset Location:	Bucklin Point Facilities	**Amount:**	$ 15,000	**Priority Ranking:**	A
Need identified:	☑ Asset Management	☐ Inspection		☐ Other	
Asset Description:	Monitors input devices and makes decisions based on programming to control the state of the output devices. Current system failing, new interface modules will be installed to improve system reliability.				
Budget Account:	16555 Computer Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	3 Years	
Original date in service:	2005		**Original estimated useful life:**	3 Years	

Asset Allocation No.	**OC23-044-003**				
Asset Title:	**Copy Machine**	**Cost Center:**	Operations & Maintenance Services		
Asset Location:	Corporate Office Building	**Amount:**	$ 8,000	**Priority Ranking:**	B
Need identified:	☐ Asset Management	☐ Inspection		☑ Other	
Asset Description:	Print sewer permits.				
Budget Account:	16580 Office Furniture & Equipment				
Type:	NEW		**Useful life:**	5 Years	
Original date in service:	N/A		**Original estimated useful life:**	N/A	

Asset Allocation No.	**OC23-046-001**				
Asset Title:	**Bar Racks**	**Cost Center:**	Field's Point		
Asset Location:	Ernest St. Pump Station - Influent Pumping	**Amount:**	$ 150,000	**Priority Ranking:**	A
Need identified:	☐ Asset Management	☐ Inspection		☑ Other	
Asset Description:	Removes large items from influent to protect downstream equipment.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2015		**Original estimated useful life:**		7 Years

Asset Allocation No.	**OC23-046-002**				
Asset Title:	**Grit Tank Unit**	**Cost Center:**	Field's Point		
Asset Location:	Grit Building - Preliminary Treatment	**Amount:**	$ 105,000	**Priority Ranking:**	A
Need identified:	☐ Asset Management	☐ Inspection		☑ Other	
Asset Description:	Allows grit to settle to the bottom where the grit is pumped to hoppers in the grit building.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2016		**Original estimated useful life:**		7 Years

Asset Allocation No.	**OC23-046-003**				
Asset Title:	**Return Sludge Pump**	**Cost Center:**	Field's Point		
Asset Location:	Return Sludge Pumping, Secondary Treatment	**Amount:**	$ 80,000	**Priority Ranking:**	A
Need identified:	☐ Asset Management	☐ Inspection		☑ Other	
Asset Description:	Returns and removes sludge from process.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2003		**Original estimated useful life:**		7 Years

Asset Allocation No.	**OC23-046-004**				
Asset Title:	**Fire Alarm**	**Cost Center:**	Field's Point		
Asset Location:	Tunnel Pump Station	**Amount:**	$ 80,000	**Priority Ranking:**	A
Need identified:	☑ Asset Management	☐ Inspection		☐ Other	
Asset Description:	Replace current fire alarm system with new technology.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:			**Original estimated useful life:**		7 Years

Asset Allocation No.	**OC23-046-005**				
Asset Title:	**Hypo Tank**	**Cost Center:**	Field's Point		
Asset Location:	Hypo Tank Farm	**Amount:**	$ 65,000	**Priority Ranking:**	B
Need identified:	☑ Asset Management	☐ Inspection		☐ Other	
Asset Description:	Storage tank for sodium hypochlorite.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2017		**Original estimated useful life:**	7 Years	

Asset Allocation No.	**OC23-046-006**				
Asset Title:	**Vehicle 379**	**Cost Center:**	Field's Point		
Asset Location:	Field's Point	**Amount:**	$ 45,000	**Priority Ranking:**	B
Need identified:	☑ Asset Management	☐ Inspection		☐ Other	
Asset Description:	Transport NBC personnel and equipment.				
Budget Account:	16515 Automotive Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	5 Years	
Original date in service:	2009		**Original estimated useful life:**	5 Years	

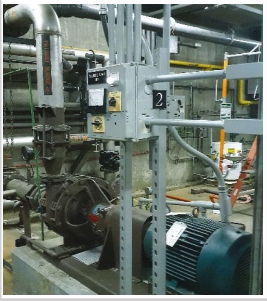
Asset Allocation No.	**OC23-046-007**				
Asset Title:	**Vehicle 375**	**Cost Center:**	Field's Point		
Asset Location:	Field's Point	**Amount:**	$ 35,000	**Priority Ranking:**	B
Need identified:	☐ Asset Management	☑ Inspection		☐ Other	
Asset Description:	Transport NBC personnel and equipment.				
Budget Account:	16515 Automotive Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	5 Years	
Original date in service:	2011		**Original estimated useful life:**	5 Years	

Asset Allocation No.	**OC23-046-008**				
Asset Title:	**Sludge Grinder**	**Cost Center:**	Field's Point		
Asset Location:	Gravity Thickener Pump Station	**Amount:**	$ 30,000	**Priority Ranking:**	B
Need identified:	☐ Asset Management	☑ Inspection		☐ Other	
Asset Description:	Macerates large chunks of sludge or other items found in biosolids.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2007		**Original estimated useful life:**	7 Years	

Asset Allocation No.	**OC23-046-009**				
Asset Title:	**Wasting Pump**	**Cost Center:**	Field's Point		
Asset Location:	Return Sludge Pumping Station	**Amount:**	$ 30,000	**Priority Ranking:**	B
Need identified:	☑ Asset Management	☐ Inspection		☐ Other	
Asset Description:	Removes waste activated sludge and pumps it to gravity thickeners.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	1987		**Original estimated useful life:**	7 Years	

Asset Allocation No.	**OC23-046-010**				
Asset Title:	**Variable Frequency Drive**	**Cost Center:**	Field's Point		
Asset Location:	Pump Station RAS 1	**Amount:**	$ 30,000	**Priority Ranking:**	B
Need identified:	☑ Asset Management	☐ Inspection		☐ Other	
Asset Description:	Controls pump speed.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	Unknown		**Original estimated useful life:**	7 Years	

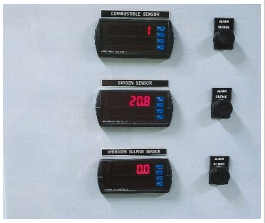
Asset Allocation No.	**OC23-046-011**				
Asset Title:	**Sludge Pump w/Motor**	**Cost Center:**	Field's Point		
Asset Location:	Primary Sludge Pump Station	**Amount:**	$ 24,000	**Priority Ranking:**	B
Need identified:	☑ Asset Management	☐ Inspection		☐ Other	
Asset Description:	Pumps sludge into tanks.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2006		**Original estimated useful life:**	7 Years	



Asset Allocation No.	**OC23-046-012**				
Asset Title:	**Sludge Pump**	**Cost Center:**	Field's Point		
Asset Location:	Wet Weather Pump Station	**Amount:**	$ 20,000	**Priority Ranking:**	B
Need identified:	☑ Asset Management	☐ Inspection		☐ Other	
Asset Description:	Pumps sludge into tanks.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	1991		**Original estimated useful life:**	7 Years	

Asset Allocation No.	**OC23-046-013**				
Asset Title:	**Influent Gate Cylinder**	**Cost Center:**	Field's Point		
Asset Location:	Ernest Street Pump Station	**Amount:**	$ 20,000	**Priority Ranking:**	B
Need identified:	☐ Asset Management	☑ Inspection		☐ Other	
Asset Description:	Opens gate to bar rack in wet well.				
Budget Account:	16520 Building and Plant Equipment				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	Unknown		**Original estimated useful life:**	7 Years	

Asset Allocation No.	**OC23-046-014**				
Asset Title:	**Gas Metering System**	**Cost Center:**	Field's Point		
Asset Location:	Tunnel Screenings Building	**Amount:**	$ 20,000	**Priority Ranking:**	B
Need identified:	☑ Asset Management	☐ Inspection		☐ Other	
Asset Description:	Measures gas level in Tunnel Screening Building.				
Budget Account:	16520 Building and Plant Equipment				
Type:	NEW		**Useful life:**	7 Years	
Original date in service:	N/A		**Original estimated useful life:**	7 Years	



Asset Allocation No.	**OC23-046-015**				
Asset Title:	**Isolation Valves**	**Cost Center:**	Field's Point		
Asset Location:	Return Sludge Pump Station	**Amount:**	$ 15,000	**Priority Ranking:**	A
Need identified:	☑ Asset Management	☐ Inspection		☐ Other	
Asset Description:	Isolates pumps.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2014		**Original estimated useful life:**	7 Years	

Asset Allocation No.	**OC23-046-016**				
Asset Title:	**Tank Level Indicator**	**Cost Center:**	Field's Point		
Asset Location:	Carbon Feed Building	**Amount:**	$ 7,000	**Priority Ranking:**	B
Need identified:	☐ Asset Management	☑ Inspection		☐ Other	
Asset Description:	Level indicator for carbon in tanks.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2016		**Original estimated useful life:**	7 Years	

Asset Allocation No.	**OC23-047-001**				
Asset Title:	**Effluent Pump**	**Cost Center:**	Bucklin Point		
Asset Location:	Dry Weather Effluent Pump Station	**Amount:**	$125,000	**Priority Ranking:**	A
Need identified:	☐ Asset Management	☑ Inspection		☐ Other	
Asset Description:	Pumps effluent.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2015		**Original estimated useful life:**	7 Years	

Asset Allocation No.	**OC23-047-002**				
Asset Title:	**Roof**	**Cost Center:**	Bucklin Point		
Asset Location:	Carbon Feed Building	**Amount:**	$100,000	**Priority Ranking:**	A
Need identified:	☑ Asset Management	☐ Inspection		☐ Other	
Asset Description:	Replace roof on Carbon Feed Building.				
Budget Account:	16615 Building & Other Structures Replacement				
Type:	REPLACEMENT		**Useful life:**	50 Years	
Original date in service:	2018		**Original estimated useful life:**	50 Years	

Asset Allocation No.	**OC23-047-003**				
Asset Title:	**Bar Rack**	**Cost Center:**	Bucklin Point		
Asset Location:	Screening & Grit Building	**Amount:**	$ 60,000	**Priority Ranking:**	A
Need identified:	☑ Asset Management	☐ Inspection		☐ Other	
Asset Description:	Removes large items from influent.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2005		**Original estimated useful life:**	7 Years	

Asset Allocation No.	**OC23-047-004**				
Asset Title:	**Sludge Pump with Grinder**	**Cost Center:**	Bucklin Point		
Asset Location:	Dry Weather Primary Pump Station	**Amount:**	$ 60,000	**Priority Ranking:**	B
Need identified:	☐ Asset Management	☑ Inspection		☐ Other	
Asset Asset Description:	Pumps sludge and grinds any large objects.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2005		**Original estimated useful life:**	7 Years	

Asset Allocation No.	**OC23-047-005**				
Asset Title:	**RAS Pump**	**Cost Center:**	Bucklin Point		
Asset Location:	Return Sludge Pump Station	**Amount:**	$ 55,000	**Priority Ranking:**	B
Need identified:	☑ Asset Management	☑ Inspection		☐ Other	
Asset Description:	Pumps return activated sludge.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2014		**Original estimated useful life:**	7 Years	

Asset Allocation No.	**OC23-047-006**				
Asset Title:	**Booster Pump**	**Cost Center:**	Bucklin Point		
Asset Location:	Digester Control Building	**Amount:**	$ 52,000	**Priority Ranking:**	A
Need identified:	☑ Asset Management	☑ Inspection		☐ Other	
Asset Description:	Transfers methane gas to boiler. Pump 1 is at the end of its useful life.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2018		**Original estimated useful life:**	7 Years	

Asset Allocation No.	**OC23-047-007**				
Asset Title:	**Booster Pump**	**Cost Center:**	Bucklin Point		
Asset Location:	Digester Control Building	**Amount:**	$ 52,000	**Priority Ranking:**	A
Need identified:	☑ Asset Management	☑ Inspection		☐ Other	
Asset Description:	Transfers methane gas to boiler. Pump 2 is at the end of its useful life.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2018		**Original estimated useful life:**	7 Years	

Asset Allocation No.	**OC23-047-008**				
Asset Title:	**Air Handling Unit**	**Cost Center:**	Bucklin Point		
Asset Location:	Dry Weather Effluent Pump Station	**Amount:**	$ 50,000	**Priority Ranking:**	B
Need identified:	☑ Asset Management	☑ Inspection		☐ Other	
Asset Description:	Air exchange throughout building.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2005		**Original estimated useful life:**	7 Years	

Asset Allocation No.	**OC23-047-009**				
Asset Title:	**Muffin Monster Cutting Assembly**	**Cost Center:**	Bucklin Point		
Asset Location:	Aeration Tanks 1-4	**Amount:**	$ 50,000	**Priority Ranking:**	B
Need identified:	☑ Asset Management	☑ Inspection	☐ Other		
Asset Description:	Shreds items in influent so equipment will not be damaged.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT	**Useful life:**	7 Years		
Original date in service:	2005	**Original estimated useful life:**	7 Years		

Asset Allocation No.	**OC23-047-010**				
Asset Title:	**Recirculation Pumps**	**Cost Center:**	Bucklin Point		
Asset Location:	Aeration Tanks 1-4	**Amount:**	$ 50,000	**Priority Ranking:**	A
Need identified:	☑ Asset Management	☑ Inspection	☐ Other		
Asset Description:	Recirculates effluent in tanks.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT	**Useful life:**	7 Years		
Original date in service:	2006	**Original estimated useful life:**	7 Years		

Asset Allocation No.	**OC23-047-011**				
Asset Title:	**Scump Pump/Grinder/Mixer**	**Cost Center:**	Bucklin Point		
Asset Location:	Dry Weather Primary Pump Station	**Amount:**	$ 35,000	**Priority Ranking:**	B
Need identified:	☑ Asset Management	☑ Inspection	☐ Other		
Asset Description:	Removes scum and grinds any large objects.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT	**Useful life:**	7 Years		
Original date in service:	2007	**Original estimated useful life:**	7 Years		

Asset Allocation No.	**OC23-047-012**				
Asset Title:	**Actuators**	**Cost Center:**	Bucklin Point		
Asset Location:	Aeration Tanks 1-4	**Amount:**	$ 29,000	**Priority Ranking:**	B
Need identified:	☑ Asset Management	☑ Inspection	☐ Other		
Asset Description:	Controls flow to aeration tanks.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT	**Useful life:**	7 Years		
Original date in service:	2020	**Original estimated useful life:**	7 Years		

Asset Allocation No.	**OC23-047-013**				
Asset Title:	**Ultraviolet Transmission Probe**	**Cost Center:**	Bucklin Point		
Asset Location:	Channel Contact Tank	**Amount:**	$ 28,000	**Priority Ranking:**	A
Need identified:	☑ Asset Management	☑ Inspection		☐ Other	
Asset Description:	Measures ultraviolet.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2015		**Original estimated useful life:**	7 Years	

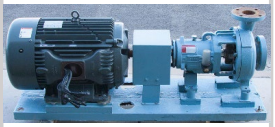
Asset Allocation No.	**OC23-047-014**				
Asset Title:	**Grit Pump**	**Cost Center:**	Bucklin Point		
Asset Location:	Screening & Grit Building	**Amount:**	$ 25,000	**Priority Ranking:**	A
Need identified:	☐ Asset Management	☑ Inspection		☐ Other	
Asset Description:	Removes grit from influent.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2017		**Original estimated useful life:**	7 Years	

Asset Allocation No.	**OC23-047-015**				
Asset Title:	**Scum Pump**	**Cost Center:**	Bucklin Point		
Asset Location:	Scum Well & Mixed Liquor Chamber	**Amount:**	$ 25,000	**Priority Ranking:**	B
Need identified:	☑ Asset Management	☑ Inspection		☐ Other	
Asset Description:	Moves the scum to wells for removal.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2013		**Original estimated useful life:**	7 Years	

Asset Allocation No.	**OC23-047-016**				
Asset Title:	**Aeration Tank Diffusers**	**Cost Center:**	Bucklin Point		
Asset Location:	Aeration Tanks	**Amount:**	$ 20,000	**Priority Ranking:**	A
Need identified:	☑ Asset Management	☑ Inspection		☐ Other	
Asset Description:	Oxygenates and aerates wastewater.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2006		**Original estimated useful life:**	7 Years	

Asset Allocation No.	**OC23-047-017**				
Asset Title:	**Dewatering Pump**	**Cost Center:**	Bucklin Point		
Asset Location:	Aeration Dewatering Pump Station	**Amount:**	$ 20,000	**Priority Ranking:**	B
Need identified:	☑ Asset Management	☑ Inspection		☐ Other	
Asset Description:	Dewaters aeration and chlorine contact tanks.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2003		**Original estimated useful life:**	7 Years	

Asset Allocation No.	**OC23-047-018**				
Asset Title:	**Flushing Water Pump**	**Cost Center:**	Bucklin Point		
Asset Location:	Maintenance	**Amount:**	$ 16,000	**Priority Ranking:**	C
Need identified:	☑ Asset Management	☑ Inspection		☐ Other	
Asset Description:	Supplies plant water to site and buildings.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2003		**Original estimated useful life:**	7 Years	



Asset Allocation No.	**OC23-047-019**				
Asset Title:	**30 Yard Container**	**Cost Center:**	Bucklin Point		
Asset Location:	Maintenance	**Amount:**	$ 16,000	**Priority Ranking:**	C
Need identified:	☑ Asset Management	☑ Inspection		☐ Other	
Asset Description:	Dispose of scrap metal and wood.				
Budget Account:	16515 Automotive Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	5 Years	
Original date in service:	2005		**Original estimated useful life:**	5 Years	

Asset Allocation No.	**OC23-047-020**				
Asset Title:	**Confined Space Hoist Equipment**	**Cost Center:**	Bucklin Point		
Asset Location:	Maintenance	**Amount:**	$ 10,000	**Priority Ranking:**	B
Need identified:	☑ Asset Management	☑ Inspection		☐ Other	
Asset Description:	Used in confined spaces per OSHA requirements.				
Budget Account:	16525 Building and Plant Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	7 Years	
Original date in service:	2013		**Original estimated useful life:**	7 Years	

Asset Allocation No.	**OC23-052-001**				
Asset Title:	**Vehicle 386**	**Cost Center:**	Pretreatment		
Asset Location:	Field's Point	**Amount:**	$ 40,000	**Priority Ranking:**	A
Need identified:	☑ Asset Management	☑ Inspection	☐ Other		
Asset Description:	Transport NBC personnel to conduct inspections and investigations.				
Budget Account:	16515 Automotive Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	5 Years	
Original date in service:	2009		**Original estimated useful life:**	5 Years	

Asset Allocation No.	**OC23-053-001**				
Asset Title:	**Cyanide Analyzer**	**Cost Center:**	Laboratory		
Asset Location:	Water Quality Science Building	**Amount:**	$130,000	**Priority Ranking:**	B
Need identified:	☑ Asset Management	☑ Inspection	☐ Other		
Asset Description:	Tests for cyanide in Field's Point, Bucklin Point and SIU Industrial samples.				
Budget Account:	16575 Lab & Sampling Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	5 Years	
Original date in service:	2016		**Original estimated useful life:**	5 Years	

Asset Allocation No.	**OC23-053-002**				
Asset Title:	**ICP-OES Metals Analyzer**	**Cost Center:**	Laboratory		
Asset Location:	Water Quality Science Building	**Amount:**	$120,000	**Priority Ranking:**	B
Need identified:	☑ Asset Management	☑ Inspection	☐ Other		
Asset Description:	Tests for metals in SIU industrial samples, manhole samples, and solid samples.				
Budget Account:	16575 Lab & Sampling Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	5 Years	
Original date in service:	2016		**Original estimated useful life:**	5 Years	

Asset Allocation No.	**OC23-053-003**				
Asset Title:	**Salt Water Nutrient Analyzer**	**Cost Center:**	Laboratory		
Asset Location:	Water Quality Science Building	**Amount:**	$120,000	**Priority Ranking:**	B
Need identified:	☑ Asset Management	☐ Inspection	☐ Other		
Asset Description:	Tests for nitrogen compounds in sea water.				
Budget Account:	16575 Lab & Sampling Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	5 Years	
Original date in service:	2016		**Original estimated useful life:**	5 Years	

Asset Allocation No.	**OC23-053-004**				
Asset Title:	**Sample Refrigerators**	**Cost Center:**	Laboratory		
Asset Location:	Water Quality Science Building	**Amount:**	$ 20,000	**Priority Ranking:**	B
Need identified:	☑ Asset Management	☐ Inspection		☐ Other	
Asset Description:	Preserves and holds permit samples				
Budget Account:	16575 Lab & Sampling Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	5 Years	
Original date in service:	2016		**Original estimated useful life:**	5 Years	

Asset Allocation No.	**OC23-053-005**				
Asset Title:	**Bioassay Aquatic Filtration System**	**Cost Center:**	Laboratory		
Asset Location:	Water Quality Science Building	**Amount:**	$ 7,000	**Priority Ranking:**	A
Need identified:	☑ Asset Management	☐ Inspection		☐ Other	
Asset Description:	Maintains the aquarium environment for Bioassay Sea Urchins to live.				
Budget Account:	16575 Lab & Sampling Equipment Replacement				
Type:	BETTERMENT		**Useful life:**	5 Years	
Original date in service:	2021		**Original estimated useful life:**	5 Years	

Asset Allocation No.	**OC23-053-006**				
Asset Title:	**Autoclave Data Logger Probe System**	**Cost Center:**	Laboratory		
Asset Location:	Water Quality Science Building	**Amount:**	$ 6,000	**Priority Ranking:**	A
Need identified:	☑ Asset Management	☐ Inspection		☐ Other	
Asset Description:	Confirms and documents autoclave temperature during processing as required by EPA.				
Budget Account:	16570 Lab & Sampling Equipment				
Type:	NEW		**Useful life:**	5 Years	
Original date in service:	N/A		**Original estimated useful life:**	N/A	

Asset Allocation No.	**OC23-055-001**				
Asset Title:	**Sampling Vessel**	**Cost Center:**	Environmental Monitoring		
Asset Location:	Johnson & Wales Marina	**Amount:**	$155,000	**Priority Ranking:**	A
Need identified:	☐ Asset Management	☐ Inspection		☑ Other	
Asset Description:	Transport NBC personnel for upper bay sample collections				
Budget Account:	16515 Automotive Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	5 Years	
Original date in service:	2019		**Original estimated useful life:**	5 Years	

Asset Allocation No.	**OC23-055-002**				
Asset Title:	**Fixed Site Sondes**	**Cost Center:**	Environmental Monitoring		
Asset Location:	Upper Narragansett Bay	**Amount:**	$ 56,000	**Priority Ranking:**	A
Need identified:	☐ Asset Management	☐ Inspection	☑ Other		
Asset Description:	Conducts real-time water quality monitoring of NBC's receiving waters as required by NBC's RIPDES permit.				
Budget Account:	16575 Lab & Sampling Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	5 Years	
Original date in service:	2012		**Original estimated useful life:**	5 Years	

Asset Allocation No.	**OC23-055-003**				
Asset Title:	**Vehicle 358**	**Cost Center:**	Environmental Monitoring		
Asset Location:	Bucklin Point	**Amount:**	$ 38,000	**Priority Ranking:**	A
Need identified:	☐ Asset Management	☐ Inspection	☑ Other		
Asset Description:	Transports NBC personnel to collect samples at NBC's Bucklin Point Wastewater Treatment Facility.				
Budget Account:	16515 Automotive Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	5 Years	
Original date in service:	2013		**Original estimated useful life:**	5 Years	

Asset Allocation No.	**OC23-055-004**				
Asset Title:	**Fixed Site Probes & Meter**	**Cost Center:**	Environmental Monitoring		
Asset Location:	Upper Narragansett Bay	**Amount:**	$ 32,000	**Priority Ranking:**	A
Need identified:	☑ Asset Management	☐ Inspection	☐ Other		
Asset Description:	Conducts real-time water quality monitoring of NBC's receiving waters as required by NBC's RIPDES permit.				
Budget Account:	16575 Lab & Sampling Equipment Replacement				
Type:	REPLACEMENT		**Useful life:**	5 Years	
Original date in service:	2017		**Original estimated useful life:**	5 Years	

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Capital Improvement Program

Field's Point Wastewater Treatment Facility

The Narragansett Bay Commission's (NBC) Capital Improvement Program (CIP) is a planning document which identifies programmed capital investments necessary to comply with current and future regulatory requirements, take advantage of technological advancements, ensure the integrity of NBC's infrastructure, and achieve operational efficiencies. 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 incorporates needs identified through NBC's asset management program. These capital improvements include construction of new facilities and rehabilitation and replacement of existing infrastructure, as well as energy efficiency and sustainability projects. The CIP shows programmed expenditures for the current Fiscal Year (FY) 2023 as well as the following five-year period of FY 2024-2028, referred to in this document as the "window".

Capital Improvement Program Overview

This year's CIP identifies a total of 45 projects that are either in progress, to be initiated, or to be completed during FY 2023-2028. The estimated costs for this year's CIP window are $562.1 million, with additional expenditures of $219.8 million in FY 2023 for a total of $781.9 million. The majority or 72% of the expenditures are related to the third and final phase of the Combined Sewer Overflow (CSO) Abatement Facilities. Other projects account for the remaining 28% of the CIP and reflect the continued investment in NBC's wastewater treatment and collection system infrastructure.

FY 2023-2028 CIP Costs

(In Thousands)

Category	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2024-2028	Total
Administrative	$ 5,871	$ 6,692	$ 5,236	$ 1,732	$ 832	$ 311	$ 14,802	$ 20,673
Land	2,011	20	-	-	-	-	20	2,031
A/E Professional	23,614	24,211	18,963	8,567	4,629	3,897	60,267	83,881
Construction	180,053	173,157	138,530	47,248	10,988	1,103	371,026	551,079
Contingency	5,505	10,724	60,069	16,665	12,930	175	100,563	106,068
Other	2,723	5,710	6,415	2,143	1,073	130	15,471	18,194
	$ 219,777	**$ 220,514**	**$ 229,212**	**$ 76,355**	**$ 30,452**	**$ 5,616**	**$ 562,149**	**$ 781,926**

The CIP document reflects all phases of a construction project, including planning and design, as a single project. In addition, for planning purposes, projects that are substantially complete with only retainage and/or "punch-list" items remaining are considered complete and are not carried in the CIP summary or detailed project listing. These projects are, however, discussed in the completed projects section of the CIP. The CIP projects are also identified by classifications which rank them in terms of priority. The CIP includes additional information regarding changes in the CIP from the prior year, new projects, and the projected operating budget impact of each project.

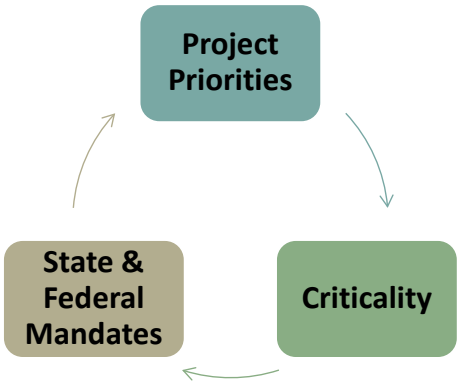
CIP Financing

The CIP is financed primarily through long-term debt issuance. Please see the Long-Term Financial Plan section of NBC's Annual Budget for a comprehensive presentation regarding CIP financing and the impact of the CIP on NBC's Operating Budget.

Capital Improvement Program Development

NBC's comprehensive capital improvement planning process takes into consideration the project's relationship to the strategic plan, program priorities, the permitting process, project readiness, 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 Project Managers begin the annual CIP process with the development of detailed justifications for each capital project including project scope, basis for the cost estimate and key factors impacting costs and schedules. The Project Managers also explain modifications from the prior year's CIP and provide the overall project schedule. The CIP Review Committee reviews the proposed capital projects including the assignment of priorities and schedules. Projects approved for inclusion in the CIP are subsequently analyzed to assess major program changes, overall capital funding needs, the strength of the project's connection to the objectives in NBC's Strategic Plan, as well as financing and operating cost impacts.



Capital Improvement Program Assumptions

The costs and schedules included in this year's CIP reflect NBC's best estimates and are based on several assumptions as follows:

- Costs and cash flows are based on planning or design estimates and/or bids once available.
- Preliminary construction project cost estimates include a contingency based upon an engineering assessment of the complexity of the project and industry experience. Project contingencies may be subsequently modified based upon the bids and information obtained during construction. Cost estimates for new design and construction projects include an allowance for NBC staff salary and fringe associated with project management, based on historical experience.
- Financing costs and debt service associated with the CIP are not included in the CIP expenditures or the project cash flows. Financing costs are expensed in the operating budget in the year they are incurred. The debt service payments (principal and interest) are included as an expense in the annual operating budget.
- The CIP does not include the acquisition or replacement of certain assets included in the five-year Operating Capital Program as part of the Capital Budget.
- Impacts of CIP projects on the Operating Budget are estimated based on prior experience and engineering estimates.

Capital Projects by Strategic Objective

NBC's Strategic Plan ensures NBC's ability to meet water quality objectives set forth by regulatory requirements through achieving short-term and long-term objectives at a reasonable cost. Due to the magnitude of the CIP and NBC's funding constraints, NBC evaluated proposed capital improvements based on strategic value. As part of the CIP development process, NBC identifies one or more Key Codes of the Core Business Strategic Plan Goal that a project will address. The highest percentage or 40%, are aligned with managing the planning, design, and construction of capital improvements. Approximately 27% of the projects are aligned with ensuring compliance with State and Federal regulations, permits, consent agreements, certifications as well as NBC rules and regulations, guidelines, and reporting requirements. In addition, 16% of the projects in the CIP are aligned with ensuring cost-effective operation and maintenance of NBC wastewater treatment and collection system. The remaining projects are aligned with ensuring climate resiliency of NBC's existing and future facilities at 13%; and ensuring continuous operation and the protection of assets through NBC's asset management program at 4% .

Percentage of CIP Projects Aligned to Strategic Plan Core Business Goal

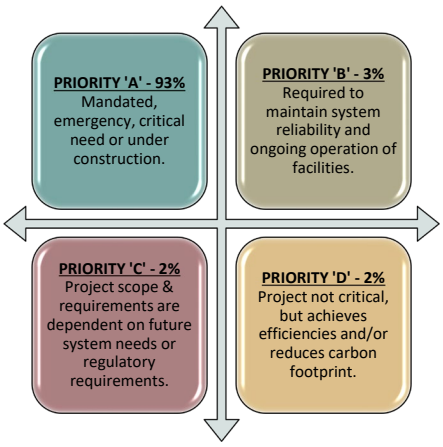
	Core Business: *Operate, maintain, and protect our collection and treatment systems to ensure that all State and Federal requirements are met or surpassed.*

Key Code	Percentage	Code Description
CB1	**27%**	Ensure compliance with State and Federal regulations, permits, consent agreements, certifications, NBC rules and regulations, guidelines, and reporting requirements.
CB2	**40%**	Manage the planning, design, and construction of capital improvements in the most cost-effective manner to ensure compliance with regulatory requirements.
CB3	**16%**	Ensure the cost-effective operation and maintenance of NBC wastewater treatment and collection system through best practices and the implementation of new technologies.
CB4	**4%**	Maintain NBC's asset management program to ensure continuous operation and the protection of assets.
CB5	**13%**	Ensure climate resiliency of NBC's existing and future facilities.

Capital Projects by Priority

Another step to the development process of the CIP program, a priority ranking is assigned based on an assessment of the project's criticality. Projects with a priority ranking of "A" represent a critical need and are either mandated, an emergency or currently under construction. Approximately 93% of the project costs identified in the window are prioritized with an "A" ranking and a total estimated cost of $523.7 million.

In addition, 3% or $19.5 million are identified with a "B" priority ranking, which includes projects that are required to maintain systems reliability and ongoing operations of facilities. Projects with a priority ranking of "C" are dependent on future system needs or regulatory requirements and represent 2% or $10.4 million. The remaining 2% or $8.6 million are ranked as priority "D" and include projects that are not critical but achieve efficiencies and/or reduce NBC's carbon footprint.

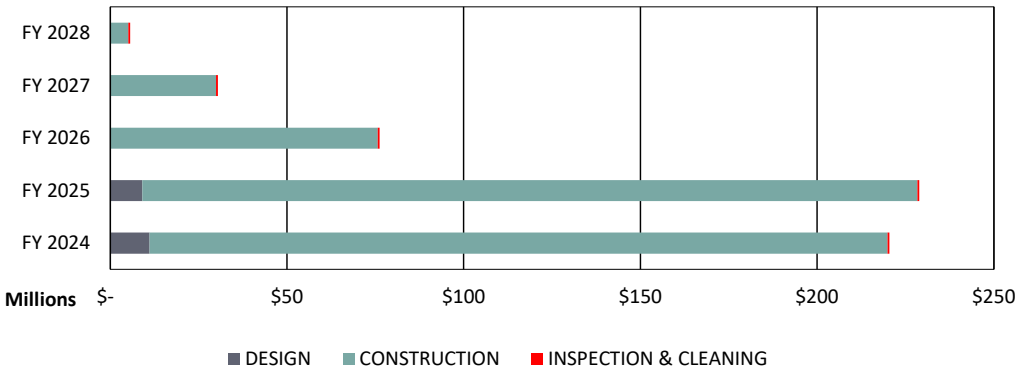


Percentage calculated on project cost.

Capital Expenditures by Phase

NBC's construction projects are generally comprised of three phases including planning, design, and construction. Planning consists of tasks such as feasibility studies and determination of the technology to be implemented. The design phase includes the development of plans and specifications and the acquisition of easements and permits. During the construction phase, facility improvements and infrastructure are constructed. The CIP also includes some programmed capital projects which are not broken down into phases, such as the inspection, cleaning, and repair of NBC's interceptors, or other one-time special studies. As is evident in the chart below, the majority, or 96% of the programmed expenditures during the five-year CIP window, relate to the construction phase at $538.9 million.

FY 2024-2028 Capital Expenditures by Phase

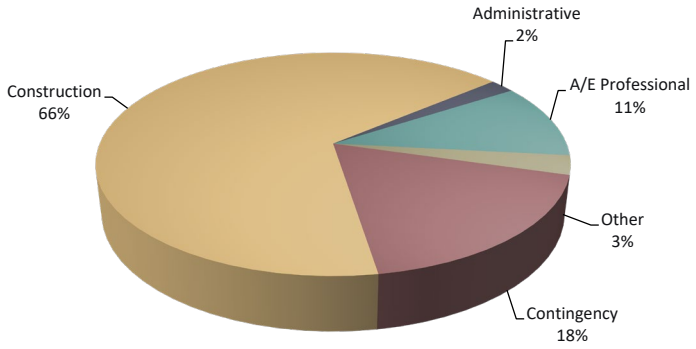


Capital Expenditures by Cost Category

For planning purposes, the project costs are shown by categories including the Administrative cost category, which includes NBC's project management costs as well as police, legal and advertising expense. The Architectural/Engineering (A/E) Professional cost category includes costs for professional planning or design services. 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 chart below, Construction costs represent $371.0 million or approximately 66% of the total costs within the FY 2024-2028 window. Contingency represents $100.6 million or 18% and A/E Professional services represent approximately $60.3 million or 11% of the costs during this same period.

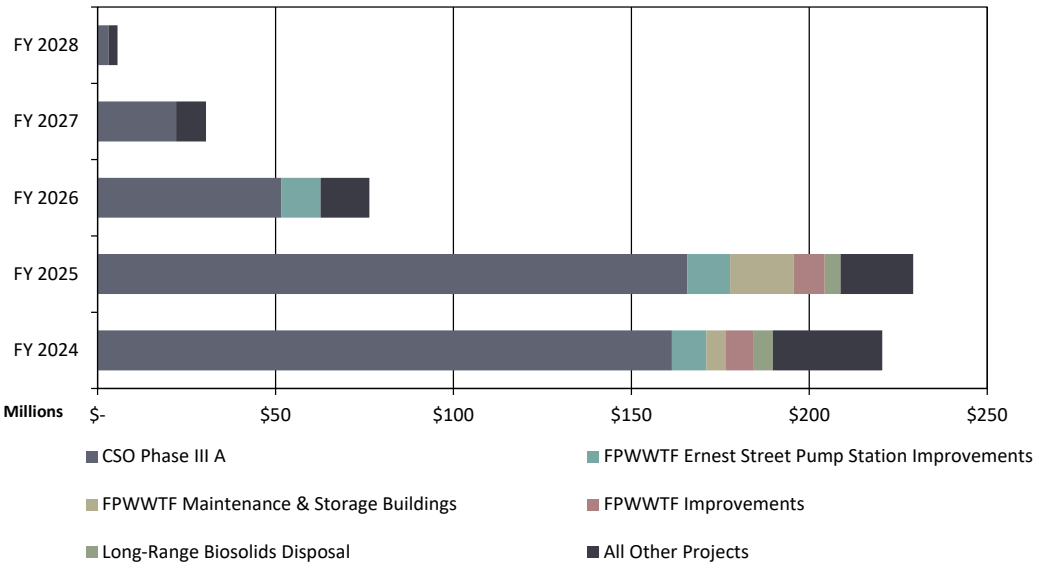
CIP Costs by Cost Category



Significant Capital Improvement Projects

The most significant project included in this year's CIP is the CSO Phase III A Facilities which comprise $403.9 million or 72% of the CIP's programmed costs. There are four other projects with an estimated total cost of $10.0 million or more in the CIP window. The largest is the FPWWTF Ernest Street Pump Station Improvements at $32.8 million or 6%, followed by the FPWWTF Maintenance and Storage Buildings at $23.4 million or 4%, the FPWWTF Improvements is $16.3 million or 3%, and the Long-Range Biosolids Disposal at $10.0 million or 2% of the total CIP window. The following table and graph show the programmed expenditures for the major projects included in the CIP window.

Largest Capital Projects			
Project	**Total Costs FY 2024 - 2028**		**% of Total**
CSO Phase III A	$	403,888	72%
FPWWTF Ernest Street Pump Station Improvements		32,764	6%
FPWWTF Maintenance & Storage Buildings		23,422	4%
FPWWTF Improvements		16,306	3%
Long-Range Biosolids Disposal		10,004	2%
All Other Projects		75,765	13%
Total	**$**	**562,149**	**100%**



Capital Expenditures by Functional Area

For planning purposes, NBC also groups capital projects into functional areas, according to the scope and tasks involved with the capital project. These categories include projects that have been identified as part of NBC's focus on ensuring that the facilities can meet future needs. The functional areas are identified in the following table.

CIP Functional Areas

Functional Area	Project Examples
Wastewater Treatment Facilities (WWTF)	WWTF Improvements, Sludge Digestion Facilities, Long-Range Biosolids Disposal
Bucklin Point Resiliency Improvements	Ultraviolet (UV) Disinfection, Operations and Maintenance Buildings, WWTF Improvements and Standby Power
Field's Point Resiliency Improvements	Ernest Street Pumping Station, Maintenance and Storage Buildings, WWTF Improvements, Solar Carport, Septage Receiving Facility Improvements and Standby Power
Infrastructure Management (IM)	Special Studies, Energy Sustainability, Flow Monitoring, RIPDES Compliance Improvements
CSO Phase III Facilities	CSO Phase III A, B, C and D
Sewer System Improvements	Easement Restoration, Sewer System, Pump Station
Interceptor Inspection & Cleaning (IIC)	Remote Television Inspections, Grit/Debris Removal and Disposal
Interceptor Repair & Construction (IRC)	Expansion, Improvements, and Lining of Interceptors and Manhole Rehabilitation

The following table shows how the CIP costs have shifted by functional area on a year-to-year basis.

Expenditures by Functional Area

(In Thousands)

Functional Area	2023-2027 CIP	2024-2028 CIP	Change	% Change
Wastewater Treatment Facility	$ 16,997	$ 16,134	$ (863)	(5%)
Bucklin Point Resiliency	37,649	12,707	(24,942)	(66%)
Field's Point Resiliency	47,472	88,405	40,933	86%
Infrastructure Management	2,669	3,053	384	14%
CSO Phase III A Facilities	575,318	403,888	(171,430)	(30%)
Sewer System Improvements	22,522	20,810	(1,712)	(8%)
Interceptor Inspection and Cleaning	3,142	2,500	(642)	(20%)
Interceptor Restoration and Construction	12,265	14,652	2,387	19%
Total	**$ 718,034**	**$ 562,149**	**$ (155,885)**	**(22%)**

On a year-over-year basis, the most significant percentage change from the prior year is an 86% increase in the Field's Point Resiliency functional area. This is a result of two new projects added to this category, the Lincoln Septage Receiving Station Replacement Project (71000) and Cybersecurity Improvements Project (20800). Also, after further inspection of the Ernest Street Pump Station, additional repairs and necessary upgrades were identified. The Bucklin Point Resiliency functional area decreased 66% primarily because the BPWWTF Operations & Maintenance Buildings Project (81600) will be completed in FY 2023 and the BPWWTF Ultraviolet (UV) Disinfection Improvements Project (81000) will be completed in early FY 2024. In terms of total dollars, the CSO Phase III A Facilities are programmed at $171.4 million or 30% lower than last year's CIP. This is due to the construction of Pawtucket Tunnel and Pump Station Project (30801), being the largest project in this category, will be 65% complete in FY 2023.

The Sewer System Improvements category has a decrease of 8% or $1.7 million from the prior year because the Lincoln Septage Receiving Station Replacement Project (71000) is now included in the Field's Point Resiliency functional area. The Interceptor Inspection and Cleaning functional area shows a 20% decrease over the prior year as the Baseline Siphon Inspection Project (30480) will be completed in FY 2023. The Interceptor Restoration and Construction category shows an increase of 19% or $2.4 million from the prior year. This is a result of schedule changes as well as cost increases for Louisquisset Pike Interceptor Improvements Project

(30421). Lastly, the Infrastructure Management functional area has increased 14% or $384 thousand from last year's CIP due to schedule changes and the addition of the Water Quality Model Validation and Enhancement Project (1140900). Overall, programmed expenditures are $155.9 million or 22% lower than the prior year CIP.

Wastewater Treatment Facility (WWTF) Improvements

This year's CIP includes $16.1 million in programmed funding for projects related to NBC's wastewater treatment facilities. In particular, the Long-Range Biosolids Disposal Project (20700) at an estimated cost of $10.0 million involves the evaluation, planning and development of a reliable long-term biosolids (sludge) management strategy for biosolids generated at NBC's WWTFs in anticipation of NBC's current contract expiration for these services in FY 2026. The BPWWTF Sludge Digestion Facility Improvements Project (81800) at a cost of $5.1 million involves upgrades to the sludge digester complex including planning and design of improvements to the primary and secondary digesters, piping systems, valves, equipment, and related infrastructure that are required to address operational needs and methane leakage concerns.

On a system-wide basis NBC continues to program $500 thousand annually for wastewater treatment facility improvements to ensure resources are available in years that do not have specific projects identified to maintain the integrity of the treatment facilities. Lastly, the CIP has funding programmed for the NBC Facilities Electrical Improvements Project (24000) to evaluate electrical equipment/facilities and identify/implement needed improvements.

The following table shows the WWTF functional area projects and estimated costs in the five-year CIP window.

WWTF Improvements
(In Thousands)

Project Number	Major Project	FY 2024-2028 CIP
20700	Long-Range Biosolids Disposal	$ 10,004
81800	BPWWTF Sludge Digestion Facility Improvements	5,127
20000	WWTF Improvements	1,000
24000	NBC Facility Electrical Improvements	3
	Total	**$ 16,134**

Bucklin Point Resiliency Improvements (BP Resiliency)

BP Resiliency was identified as part of NBC's resiliency planning process and consists of three separate projects. The following table shows the BP Resiliency estimated costs by project. The costs over the five-year CIP window are $12.7 million with an additional $57.5 million in costs prior to FY 2024 for a total estimated project cost of $70.3 million.

Bucklin Point Resiliency Improvements
(In Thousands)

Project Number	Major Project	FY 2024-2028 CIP
81000	BPWWTF UV Disinfection Improvements	$ 3,458
81700	BPWWTF Operations & Maintenance Buildings	3,600
81600	BPWWTF Improvements	5,649
	Total	**$ 12,707**

The BPWWTF UV Disinfection Improvements Project (81000) includes the construction of a new UV disinfection building and replacement of the UV disinfection equipment with an energy efficient system.

The BPWWTF Improvements Project (81600) involves the installation of a redundant power system, as well as the repair or replacement of boilers, hydronic piping systems, and isolation gates.

BP Operations & Maintenance Buildings

Project (81700) consists of both a new Operations Building and a new Maintenance Building to replace buildings that are more than 70 years old. To ensure reliable operation of critical process streams, the Supervisory Control and Data Acquisition (SCADA) computer system will be relocated to a higher elevation environmentally controlled space. The new Operations and Maintenance Buildings will replace obsolete and space-constrained facilities and will include a repair workshop for heavy equipment, new electrical, welding and instrumentation rooms, along with offices and a briefing room for the maintenance staff. This project is being completed through a design/build process.

Field's Point Resiliency Improvements (FP Resiliency)

At Field's Point, NBC has identified the six projects shown in the following table that address resiliency concerns. The estimated costs for these projects over the FY 2024-2028 window are $88.4 million. FP Resiliency improvements also includes $1.0 million for construction of a solar carport in FY 2023.

Field's Point Resiliency Improvements
(In Thousands)

Project Number	Major Project	FY 2024-2028 CIP
20400	FPWWTF Ernest Street Pump Station Improvements	$ 32,764
20500	FPWWTF Maintenance & Storage Buildings	23,422
20300	FPWWTF Improvements	16,306
40101	FPWWTF Electrical Improvements	9,509
71000	Lincoln Septage Receiving Station Replacement	6,382
20800	Cybersecurity Improvements	22
	Total	**$ 88,405**

The FPWWTF Maintenance and Storage Buildings Project (20500) at an estimated cost of $23.4 million are needed to replace two structures that are beyond their useful life. The FPWWTF Improvements Project (20300) focuses on several improvements and upgrades to the Field's Point WWTF. The most significant items are the disinfection and dechlorination systems, a new transformer, replacement of the water automatic strainer system and the odor control unit at the Gravity Thickener Building, and construction of three new Variable Frequency Drives (VFDs) for the return activated sludge pumps. The Field's Point critical electrical and control systems and standby power solution will be evaluated and implemented as part of the FPWWTF Electrical Improvements Project (40101) at a cost of $9.5 million.

Also included as part of FP Resiliency is the Lincoln Septage Receiving Station Replacement Project (71000) which will replace the existing 30-year-old facility that is beyond its useful life. The new facility, estimated to cost $6.4 million, will operate automatically and provide preliminary treatment and testing of septage prior to discharge into the collection system. The Cybersecurity Improvements Project (20800), new to the CIP this year, addresses cybersecurity risks that may adversely impact NBC's ability to continuously operate and maintain its facilities.

FPWWTF Ernest Street Pump Station

The FPWWTF Ernest Street Pump Station Improvements Project (20400) at an estimated cost of $32.8 million includes improvements to NBC's largest and most critical pump station located adjacent to Field's Point that has a capacity of 200 MGD. Improvements include replacement of large diameter valves, gates, actuators, flow meters, pumps, VFDs, instrumentation and control units, influent screening, motor control centers, motor protectors, electrical power systems and a new standby power generator. In addition, the building requires modifications to the roofing system, air handling units and other infrastructure.

Infrastructure Management

The Infrastructure Management functional area includes several smaller studies and projects. The two most significant projects identified are the NBC System-wide Inflow Reduction Project (40200) at $978 thousand and the NBC System-wide Facilities Planning Project (30700) at $726 thousand. There is one new project included in this year's CIP, the Water Quality Model Validation and Enhancement Project (110900) which will validate the accuracy and assess performance of the Regional Ocean Modeling System. The total estimated cost for this category in the five-year CIP is $3.1 million.

Infrastructure Management
(In Thousands)

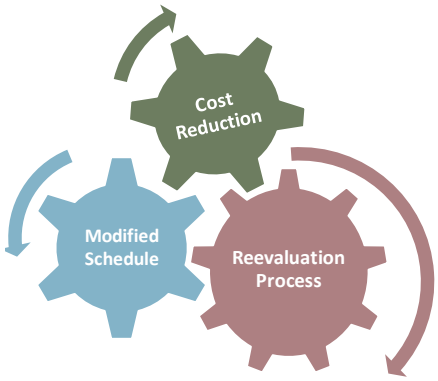
Project Number	Major Project	FY 2024-2028 CIP
40200	NBC System-wide Inflow Reduction	$ 978
30700	NBC System-wide Facilities Planning	726
40300	Municipal Lateral Sewer Acquisition Impact	481
40550	RIPDES Flow Monitoring System Implementation	397
1140600	RIPDES Compliance Improvements	235
1140900	Water Quality Model Validation and Enhancement	103
40400	FPWWTF Plan Update	67
1140800	Pilot Restoration Initiative	66
	Total	**$ 3,053**

CSO Phase III Facilities (Project 308)

NBC's single largest project in the CIP is the CSO Phase III Facilities at an estimated cost over fiscal years 2024 – 2028 of $403.9 million. NBC is under a Consent Agreement with RIDEM to implement a federally mandated CSO Program that will address the Commission's 65 CSOs in both the Field's Point and Bucklin Point service areas. The CSO Program will be completed in three phases. The first phase was the construction of the Phase I Facilities (the Main Spine tunnel, drop shafts, and pump station) at a cost of approximately $360 million. Construction of the Phase I Facilities began in June 2001 and became operational in October 2008. The Commission completed design of the CSO Phase II Facilities in 2010. Construction began in September 2011 and the facilities were placed in service by December 31, 2015.

NBC initiated the reevaluation of the Phase III Facilities in January 2014 with a focus on affordability issues, an evaluation of the significant improvements in water quality achieved through the first two phases, use of an integrated approach and an investigation of "green" technologies to determine if the third phase facilities, as originally developed, remained the most cost-effective approach.

Several alternatives were developed through this reevaluation process and a series of Stakeholder meetings were held to evaluate the alternatives and financial impacts. The affordability analysis based upon EPA criteria was thoroughly conducted to evaluate ratepayer impact on the various communities and census tracts in NBC's service area. The Commission selected an alternative on April 28, 2015 and the final revaluation report was approved by RIDEM in December 2017. The Environmental Assessment ("EA") which was part of the Phase III evaluation was also approved in December 2017. NBC's Consent Agreement has been renegotiated based upon the approved plan.



As a result of the reevaluation process, the Phase III CSO Program was subdivided into four phases to be completed by 2041. The program also incorporates Green Stormwater Infrastructure (GSI) facilities to be constructed in each of the four phases to reduce stormwater inflow to the existing CSO system by implementing stormwater infiltration projects, with expenditures of $10 million on GSI in each phase.

The current pre-design estimate, which includes "other" costs (NBC labor, police, etc.), for the four phases of the CSO Phase III Facilities is $1.1 billion. A description of the facilities, estimated cost, start and completion dates for each of the four phases are as follows.

CSO Phase III Program
(In Millions)

Phase	Scope	Amount *	Start	Completion
Phase III A	Design and construction of a 11,700 foot long deep rock tunnel in Pawtucket, a tunnel pump station to convey flow to the Bucklin Point WWTF, drop shafts and consolidation conduits and improvements to the Bucklin Point WWTF. This project includes modifications to regulators and construction of GSI facilities. Design of the Phase III B facilities is also included in the cost of Phase III A.	$ 821.7	4/1/2013	2/28/2027
Phase III B	Phase III B includes construction of the Upper BVI Gate and Screening Structure, Interceptor Relief, and Consolidation Conduit. These facilities will convey flow to the tunnel to be built in Phase III A. In addition, GSI facilities will be constructed as part of Phase III B. Regulator Modifications and one sewer separation project will be included as part of Phase III B.	$ 28.5	12/1/2028	6/31/2031
Phase III C	Design and construction of a stub tunnel that will convey flow from CSO OF 220 to the Pawtucket tunnel constructed in Phase III A. GSI facilities will be constructed as part of Phase III C.	$ 164.7	5/1/2032	6/30/2037
Phase III D	Design and construction of an interceptor to store flow from OF 039 and OF 056 and release flow as capacity allows. GSI facilities will be constructed as part of Phase III D.	$ 83.5	4/1/2037	12/1/2041
	Total	$ 1,098.4		

***** Excludes costs incurred prior to FY 2020

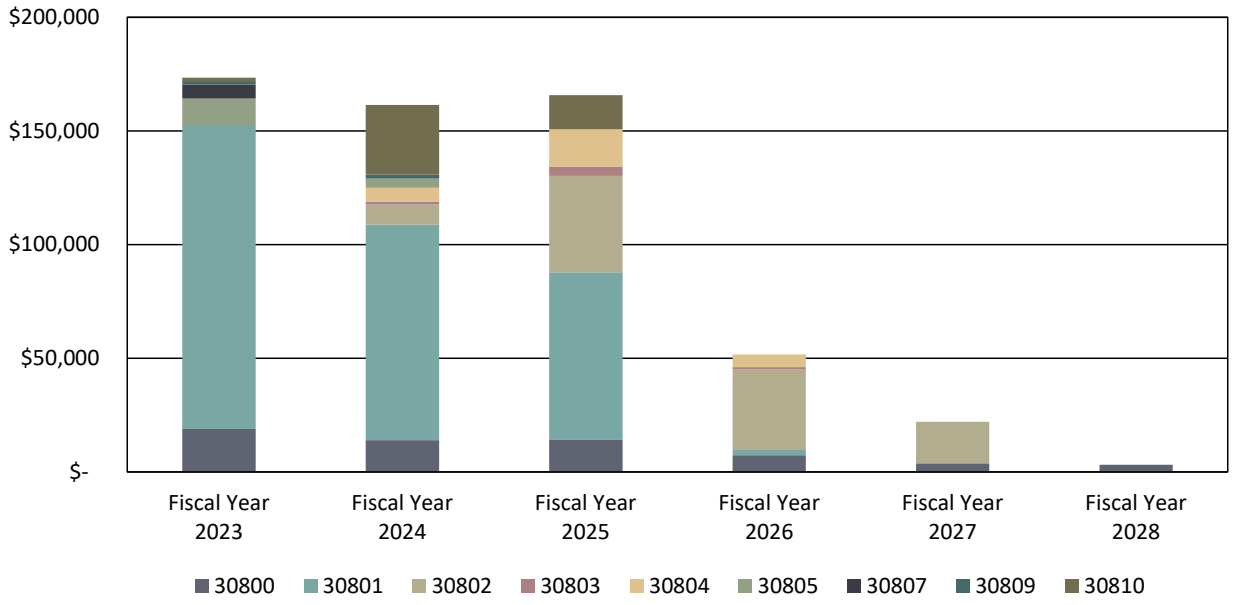
The CSO Phase III A Facilities (the "Program") originally consisted of thirteen separate construction projects; however, two projects were rolled into other projects reducing the number to eleven and three projects have been completed. The Program also includes the Design and Construction Program Management Project (30800). This year's CIP window includes $403.9 million in fiscal years 2024-2028 with an additional $173.3 million in FY 2023 for a total of $577.2 million over the six-year period.

CSO Phase III A Facilities (In Thousands)		
Project Number	**Major Project**	**FY 2024-2028 CIP**
30800	CSO Phase III A Facilities - Design & Construction Program Management	$ 42,058
30801	CSO Phase III A Facilities - Pawtucket Tunnel & Pump Station	170,931
30802	CSO Phase III A Facilities - Tunnel Pump Station Fit-out	104,994
30803	CSO Phase III A Facilities - OF 205	6,271
30804	CSO Phase III A Facilities - OF 210, 213, 214	28,225
30805	CSO Phase III A Facilities - OF 217	4,073
30807	CSO Phase III A Facilities - Regulator Modifications	25
30809	CSO Phase III A - GSI Projects	1,672
30810	CSO Phase III A Facilities - BPWWTF Clarifiers & Flow Splitters	45,639
	Total	**$ 403,888**

The following graph shows that the CSO Phase III A Facilities expense is projected to decrease from $173.3 million in FY 2023 to $161.4 million in FY 2024. The estimated cost then increases to $165.7 million in FY 2025 before decreasing in FY 2026 to $51.6 million, $22.0 million in FY 2027, and $3.1 million in FY 2028.

CSO Phase III A Facilities Estimated Cost by Fiscal Year

(In Thousands)



The largest CSO Phase III A projects are the Pawtucket Tunnel and Pump Station Project (30801) with an estimated cost of $488.6 million and the Tunnel Pump Station Fit-out Project (30802) at an estimated cost of $105.0 million, which collectively reflect 70% of the total program. Due to the technical complexity of the project, NBC is using a design-build approach. The contractor was selected by the NBC's Board of Commissioners at the September 2020 Board meeting. NBC completed negotiations with the vendor and the Notice to Proceed was issued on December 18, 2020. The estimated cost for this project has increased $8.0 million or 1% over last year's CIP based on the actual pricing received as part of the result of the competitive procurement process and reflects market conditions and risk. Design of all other construction projects as well as Program Management, and land acquisition is reflected separately in Project (30800).

Pawtucket Tunnel Pump Station Site

NBC has been able to utilize the EPA's WIFIA program to finance the CSO Phase III A Facilities. The WIFIA program provides long-term, low-cost credit assistance for up to 49% of eligible project's costs. NBC executed two loans through the WIFIA program. In August 2019, NBC closed on a $268.7 million WIFIA loan to finance the CSO Phase III A Facilities at an interest rate of 1.89%. The interest rate on this loan was reset to 1.42% on October 26, 2020. The second WIFIA loan of $190.6 million with an interest rate of 1.60% included financing for the increase in the CSO Phase III A costs.

Three of the eleven CSO Phase III A construction contracts, GSI Demonstration Project (30808), High Street Demo Project (30811), and Site Demolition Project (30813) are complete. The CSO Phase III A – GSI Projects Project (30809), Pawtucket Tunnel & Pump Station Project (30801), OF 217 Project (30805), and Regulator Modifications Project (30807) are under construction. The remaining projects are in the design phase. The following table shows the CSO Phase III A construction projects, their estimated cost, construction start and end dates, as well as the percent complete.

CSO Phase III A Facilities Costs, Schedule and Percent Complete

(In Millions)

Project Number	Project Name	Estimated Cost*	Construction Start Date	Construction End Date	% Complete
30800	CSO Phase III A Facilities - Design & Construction Program Management	107.9			
30801	CSO Phase III A Facilities - Pawtucket Tunnel & Pump Station	488.6	Dec-20	Dec-24	28%
30802	CSO Phase III A Facilities - Tunnel Pump Station Fit-out	105.0	Jan-24	Feb-27	0%
30803	CSO Phase III A Facilities - OF 205	6.3	Jan-24	Oct-25	0%
30804	CSO Phase III A Facilities - OF 210,213,214	28.2	Nov-23	Oct-25	0%
30805	CSO Phase III A Facilities - OF 217	18.9	Dec-21	Jan-23	3%
30806	Incorporated into 30802	-			
30807	CSO Phase III A Facilities - Regulator Modifications	7.6	Dec-21	Aug-22	0%
30808	CSO Phase III A Facilities - GSI Demonstration	1.7	Sep-19	Feb-21	100%
30809	CSO Phase III A Facilities - GSI Projects	9.2	Nov-19	Jun-24	55%
30810	CSO Phase III A Facilities - BPWWTF Clarifiers & Flow Splitters	47.0	Jan-23	May-25	0%
30811	CSO Phase III A Facilities - High Street Demo	0.2	Nov-18	Dec-19	100%
30812	Incorporated into 30809	-			
30813	CSO Phase III A Facilities - Site Demolition	1.1	May-20	Nov-20	100%
	Total	**$ 821.7**			

*Excludes costs incurred prior to FY 2020

Sewer System Improvements

Interceptor Maintenance Building

Included in the Sewer System functional area are projects related to the collection system. The CIP window includes five projects at a total estimated cost of $20.8 million.

The Interceptor Maintenance Building Project (12400) at a cost of $10.0 million is for the design and construction of a new Interceptor Maintenance building that will be needed if NBC is required by legislation to assume ownership of lateral sewers currently owned by local communities within its district. The Omega Pump Station Improvements Project (70900) is estimated to cost $6.7 million and involves the replacement of equipment at the end of its useful life, implementation of new screening and grit technology and improvements to the motor control center to enhance reliability. The NBC System-wide Regulator Modifications Project (30610) at a cost $3.1 million is to address hydraulic capacity limitations in NBC collection system and eliminate surcharges. The CIP also continues to support NBC's Easement Management program with the NBC Easement Restoration Project (30500) at a cost of $1.0 million. Sewer System Improvements are shown in the following table.

Sewer System Improvements
(In Thousands)

Project Number	Major Project	FY 2024-2028 CIP
12400	Interceptor Maintenance Building	$ 9,984
70900	Omega Pump Station Improvements	6,744
30610	NBC System-wide Regulator Modifications	3,077
30500	NBC Interceptor Easements Restoration, Various Locations	1,005
	Total	**$ 20,810**

Interceptor Cleaning, Restoration and Construction

This CIP includes several collection system infrastructure projects, which total $17.2 million. The major projects include increasing the capacity of the Louisquisset Pike Interceptor Project (30421) at a cost of $6.4 million. The CIP also includes annual programmed allocations of $500 thousand for Interceptor Inspection and Cleaning Project (30400M) and $1.5 million for Interceptor Restoration and Construction (Project 30400C) in years that do not have specific projects identified to accommodate new needs that may be identified as part of asset management and inspection. The allowances programmed in the CIP for Project (30400C) and Project (30400M) total $7.4 million. The CIP also includes $3.3 million for the Woonasquatucket CSO OF 046 Improvements Project (30315), which may be required to eliminate surcharging from the Woonasquatucket CSO Interceptor during extreme wet weather events.

Interceptor Cleaning, Restoration and Construction
(In Thousands)

Project Number	Major Project	FY 2024-2028 CIP
30421	Louisquisset Pike Interceptor Improvements	$ 6,418
30400C	Interceptor Restoration and Construction	4,920
30315	Woonasquatucket CSO OF 046 Improvements	3,314
30400M	Interceptor Inspection and Cleaning	2,500
	Total	**$ 17,152**

Completed and New Capital Projects

Completed Projects

NBC considers a project complete when the project has been deemed substantially complete and has only retainage and/or "punch list" items remaining. In FY 2022, NBC completed five capital projects at a cost of $7.5 million shown in the following table.

Completed Projects
(In Thousands)

Project Number	Project Name		Cost
90900	COB Facilities Improvements	$	5,721
30479	Siphon Inspection & Cleaning		826
1140100	River Model Development		444
1140500	NBC Energy Sustainability		439
1140300	Greenhouse Gas Study		39
	Total	**$**	**7,468**

Corporate Office Building

The largest projected completed last year was the COB Facilities Improvements Project (90900). This project included replacement of HVAC units, windows, and sections of the roof as well as office reconfiguration and improvements. The office space at the Water Quality Science building was also reconfigured to accommodate the reorganization of NBC's staff. The next largest project completed in FY 2022 was the Siphon Inspection and Cleaning Project (30479) which included cleaning and inspection services of prioritized inverted NBC siphons throughout the service area. The River Model Development Project (1140100), which involved development of the Regional Ocean Modeling System for the Providence and Seekonk Rivers and Narragansett Bay to track the circulation and transport of nutrients. The Energy Sustainability Project (1140500) involved the performance of feasibility studies and investigation of methods to maximize energy conservation, efficiencies, and the employment of sustainable renewable energy resources with the goal of achieving 100% renewable energy resources for NBC. Lastly, the Greenhouse Gas Study Project (1140300) is designed to quantify NBC's overall carbon footprint by measuring greenhouse gas emissions from wastewater collection and treatment operations.

New Projects

This year's CIP includes three new capital projects totaling $1.4 million. The new projects and their estimated costs are summarized in the following table. Please refer to the discussion of the capital projects by functional area of this document for information regarding the need for these projects along with their descriptions.

New Projects
(In Thousands)

Project Number	Project Name		Total Estimated Cost
20800	Cybersecurity Improvements	$	1,210
1140900	Water Quality Model Validation and Enhancement		163
30468	Improvements to Interceptors FY 2022		3
	Estimated Total	**$**	**1,376**

Impact of Capital Investments on Operating Budget

NBC recognizes the importance of planning for capital expenditures and is committed to minimizing ratepayer impact through an assessment of both operating costs and financing impacts. Debt service and rate impacts associated with financing the CIP are discussed in the Long-Term Financial section of the budget. The following pages include an expanded analysis and presentation of other operating impacts in the CIP. The project specific information is included in the following discussion and summarized on the individual project sheets. Certain capital improvements will directly impact the operating budget either through increased revenue, increased expense, or cost savings. NBC has identified these impacts on a project-by-project basis. The following table describes the impact categories and should be used to interpret the figures in the detailed operating impact tables in this section of the CIP. Please refer to the Long-Term Financial Plan section of NBC's Annual Budget for debt service and rate impacts associated with financing the CIP.

Impact	Description	Refection in Tables
Savings	A reduction in operating costs resulting from facilities no longer in operation, reduced energy consumption, and/or the purchase of electricity	Shown as a reduction in Operating Costs
Increased Expense	An increase in operating costs resulting from new facilities becoming operational	Shown as an increase in Operating Costs
Increased Revenue	An increase in revenue through new user charges, incentives, and/or the sale of Renewable Energy Credits	Shown as an increase in Operating Revenue or Non-Operating Revenue

FY 2023-2028 Revenue and Expense Impacts

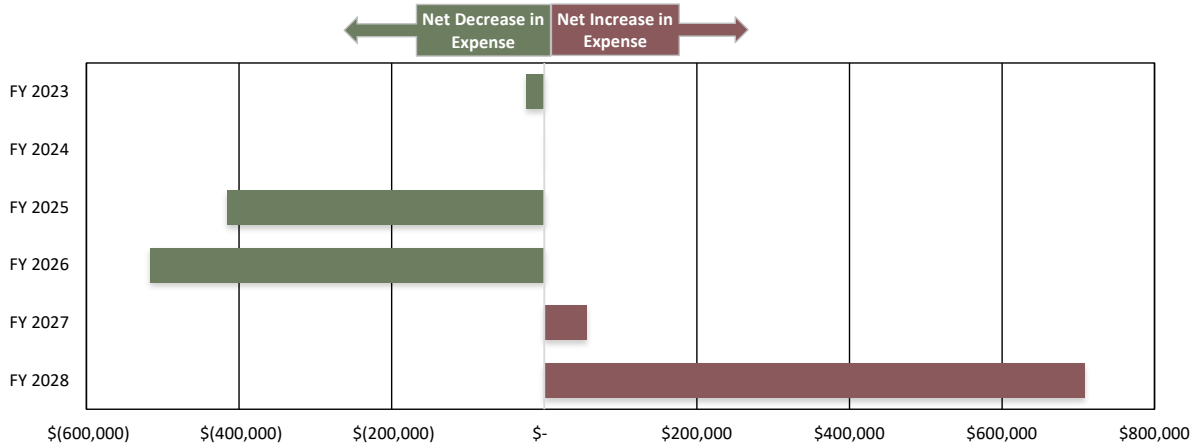
The following table summarizes the projected impact of new capital projects scheduled to become operational in FY 2023-2028. Projects that involve inspection, studies, cleaning, and rehabilitation generally do not have operating cost impacts and are excluded from this list.

Projected Annual Operating Budget Impacts

	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Projected Annual Operating Revenue Impact						
Increased Revenue						
NBC Solar Carport	$ 4,250	$ 5,101	$ 5,101	$ 5,101	$ 5,101	$ 5,101
Louisquisset Pike Interceptor Improvements	-	22,384	268,610	268,610	268,610	268,610
Net Increase (Decrease) in Revenue	**$ 4,250**	**$ 27,485**	**$ 273,711**	**$ 273,711**	**$ 273,711**	**$ 273,711**
Projected Annual Operating Expense Impact						
Reduced Expense						
FPWWTF Improvements	$ -	$ -	$ (25,000)	$ (75,000)	$ (75,000)	$ (75,000)
NBC Solar Carport	(27,103)	(32,524)	(32,524)	(32,524)	(32,524)	(32,524)
Lincoln Septage Station	-	-	-	(9,976)	(9,976)	(9,976)
BPWWTF UV Disinfection Improvements	-	-	(178,971)	(268,456)	(268,456)	(268,456)
BPWWTF Sludge Digestion Facility Improvements	-	-	-	(18,087)	(217,041)	(217,041)
Savings	**$ (27,103)**	**$ (32,524)**	**$ (236,495)**	**$ (404,043)**	**$ (602,997)**	**$ (602,997)**
Increased Expense						
Interceptor Maintenance Building	$ -	$ -	$ -	$ -	$ 9,996	$ 119,950
FPWWTF Maintenance & Storage Buildings	-	-	4,766	57,188	57,188	57,188
NBC Solar Carport	2,492	2,990	2,990	2,990	2,990	2,990
Louisquisset Pike Interceptor Improvements	-	833	10,000	10,000	10,000	10,000
CSO Phase III A Facilities	-		-	-	761,224	1,304,956
FPWWTF Electrical Improvements	-	-	1,943	3,330	3,330	3,330
BPWWTF UV Disinfection Improvements	-	-	17,839	26,759	26,759	26,759
BPWWTF Improvements	-	-	278	3,330	3,330	3,330
BPWWTF Operations & Maintenance Buildings	4,766	57,188	57,188	57,188	57,188	57,188
Increased Expense	**$ 7,257**	**$ 61,011**	**$ 95,003**	**$ 160,784**	**$ 932,004**	**$ 1,585,689**
Net (Decrease) Increase in Expense	**$ (19,846)**	**$ 28,487**	**$ (141,492)**	**$ (243,259)**	**$ 329,007**	**$ 982,692**
Net Impact on Operating Budget	**$ (24,096)**	**$ 1,002**	**$ (415,203)**	**$ (516,969)**	**$ 55,296**	**$ 708,981**

In FY 2028, the estimated impact as a result of these projects is increased annual revenue of $273,711, savings of $602,997 and increase in expense of $1,585,689. The overall projected impact on the operating budget in FY 2028 is a net increase in the operating budget funding requirement of $708,981. The following chart shows the projected impact of completed CIP projects on the annual operating budget. Projected increased revenue and reduced expense exceed increased expense each year until FY 2027 when the CSO Phase III A Facilities are scheduled to become operational. Projects with revenue, savings or expense impacts are discussed in the following section.

Net Impact on Operating Budget



NBC Solar Carport

The NBC Solar Carport Project (20600) involves the construction of a solar carport on the Field's Point campus. It is estimated the solar carport will produce approximately 218,282 kWh of electricity annually resulting in approximately $32,524 in electricity savings and revenue of $5,101 from the sale of Renewable Energy Credits. Annual maintenance costs are estimated to be $2,990. Completion of this project is scheduled for FY 2023.

NBC Solar Carport			
	Savings	Increased Expense	Increased Revenue
RECs Solar	-	-	5,101
Electricity	32,524	-	-
Maintenance	-	2,990	-
Total	**$ 32,524**	**$ 2,990**	**$ 5,101**

Louisquisset Pike Interceptor Replacement

The Louisquisset Pike Interceptor Replacement Project (30421) is scheduled to be completed in FY 2024. The project involves construction of a larger replacement interceptor in the northern section of the Town of Lincoln to accommodate additional flow. Preliminary estimates indicate that the flow will generate additional sewer user fee revenue of $268,610 annually. The estimated operating expense is $10,000 every five years for maintenance of the collection system estimated to begin in FY 2024. There are no start-up costs associated with the operation of this interceptor.

Louisquisset Pike Interceptor Improvements			
	Savings	Increased Expense	Increased Revenue
User Fees	$ -	$ -	$ 268,610
Maintenance	-	10,000	-
Total	**$ -**	**$ 10,000**	**$ 268,610**

BPWWTF UV Disinfection Improvements

The BPWWTF UV Disinfection Improvements Project (81000) involves replacement of the UV disinfection system with new and more efficient technology and the construction of a new building to contain the system. The new technology is estimated to use 1.7 million kWh less per year and require less maintenance, resulting in combined savings of $268,456 annually. The increased expense associated with the new building is $26,759 annually for utilities and maintenance costs. Completion of this project is scheduled for FY 2025.

BPWWTF UV Disinfection Improvements			
	Savings	Increased Expense	Increased Revenue
Electricity	$ 253,456	$ 5,066	$ -
Natural Gas	-	12,093	-
Maintenance	15,000	9,600	-
Total	**$ 268,456**	**$ 26,759**	**$ -**

Interceptor Maintenance Building

The Interceptor Maintenance Building Project (12400) is scheduled for completion in FY 2027. This project includes the construction of a new building that will be necessary if NBC is required by legislation to assume ownership of lateral sewers currently owned by local municipalities within the service area. The new building includes an administrative area, garage area and storage yard. The increased expense associated with the new building is approximately $119,950 annually for utilities and maintenance costs. All project startup costs, such as staff and equipment relocation, are included in the project cost.

Interceptor Maintenance Building			
	Savings	Increased Expense	Increased Revenue
Electricity	$ -	$ 25,692	$ -
Natural Gas	-	49,133	-
Water	-	13,088	-
Maintenance	-	32,036	-
Total	**$ -**	**$ 119,950**	**$ -**

FPWWTF Maintenance and Storage Buildings

The FPWWTF Maintenance and Storage Buildings Project (20500) involves the construction of both a new maintenance building and storage building at Field's Point. The maintenance building will enhance preventive and reactive maintenance capabilities, replacing the current structure built in 1900. The new storage building is needed primarily to replace the IM storage facility that is beyond its useful life. The new facilities are scheduled for completion in FY 2025 and are estimated to result in increased expense of $57,188 for utilities.

FPWWTF Maintenance & Storage Buildings			
	Savings	Increased Expense	Increased Revenue
Electricity	$ -	$ 18,351	$ -
Natural Gas	-	35,095	-
Water	-	3,742	-
Total	**$ -**	**$ 57,188**	**$ -**

BPWWTF Operations and Maintenance Buildings

The BPWWTF Operations and Maintenance Buildings Project (81700) involves the construction of both a new Operations Building and a Maintenance Building at Bucklin Point. The Operations Building contains additional office space, training and locker rooms, and a new SCADA Control Room. The Maintenance Building includes a workshop, electrical, welding and instrumentation rooms along with offices and storage space. This new building will improve the efficiency of the plant maintenance services and ensure reliable operation and performance of critical infrastructure systems. The increased expense associated with the new building is

approximately $57,188 annually for utilities and maintenance costs. All project startup costs, such as staff and equipment relocation are included in the project cost.

BPWWTF Operations & Maintenance Buildings			
	Savings	Increased Expense	Increased Revenue
Electricity	$ -	$ 18,351	$ -
Natural Gas	-	35,095	-
Water	-	3,742	-
Total	**$ -**	**$ 57,188**	**$ -**

BPWWTF Improvements

The BPWWTF Improvements Project (81600) involves miscellaneous improvements and upgrades to the Bucklin Point WWTF and will include the installation of a new redundant standby power generator. The increased expense is approximately $3,300 annually for maintenance of the new generator.

BPWWTF Improvements			
	Savings	Increased Expense	Increased Revenue
Maintenance	$ -	$ 3,330	$ -
Total	**$ -**	**$ 3,330**	**$ -**

FPWWTF Electrical Improvements

The FPWWTF Electrical Improvements Project (40101) involves the evaluation and installation of redundant standby power capabilities at the FPWWTF to maintain uninterrupted operation of the treatment process. The increased expense is approximately $3,300 annually for maintenance of the new generator.

FPWWTF Electrical Improvements			
	Savings	Increased Expense	Increased Revenue
Maintenance	$ -	$ 3,330	$ -
Total	**$ -**	**$ 3,330**	**$ -**

CSO Phase III A Facilities

CSO Phase III A operating impacts are estimated to commence in FY 2027. Increased expense of $1.3 million includes electricity to pump flow and provide dehumidification in the tunnel pump station, natural gas for heating, screening, and grit disposal, biosolids disposal, water, treatment chemicals, maintenance, and labor costs. The start-up costs are included in this project phase.

CSO Phase III A Facilities			
	Savings	Increased Expense	Increased Revenue
Electricity	$ -	$ 849,300	$ -
Natural Gas	-	61,820	-
Screening & Grit	-	114,600	-
Biosolids	-	220,145	-
Water	-	1,292	-
Chemicals	-	18,766	-
Maintenance	-	29,033	-
Personnel	-	10,000	-
Total	**$ -**	**$ 1,304,956**	**$ -**

BPWWTF Sludge Digestion Facility Improvements

The BPWWTF Sludge Digestion Facility Improvements Project (81800) addresses operational needs at the Bucklin Point sludge digestion facilities. The improvements include the design and implementation of concrete and piping system repairs required to address methane gas leakage concerns. This project is projected to reduce the amount of natural gas required to heat the digesters and run the cogeneration facilities, resulting in savings of $217,041 per year.

BPWWTF Sludge Digestion Facility Improvements						
		Savings		Increased Expense		Increased Revenue
Natural Gas	$	217,041	$	-	$	-
Total	**$**	**217,041**	**$**	**-**	**$**	**-**

FPWWTF Improvements

The FPWWTF Improvements Project (20300) involves miscellaneous improvements associated with aging infrastructure and equipment at the Field's Point facility. This project will include upgrades to equipment, with a focus on fixing leaks related to the disinfection and de-chlorination systems. This project is projected to reduce the amount of chemicals required, resulting in savings of $75,000 per year.

FPWWTF Improvements						
		Savings		Increased Expense		Increased Revenue
Other	$	75,000	$	-	$	-
Total	**$**	**75,000**	**$**	**-**	**$**	**-**

Lincoln Septage Station

The Lincoln Septage Station Improvements Project (71000) includes design and construction of a new septage receiving station equipped with a screening mechanism and sample collection capabilities in accordance with NBC's Standard Operating Procedures for monitoring septage. The new facilities will be fully automated resulting in savings of personnel costs.

Lincoln Septage Station Improvements						
		Savings		Increased Expense		Increased Revenue
Personnel		9,976		-		-
Total	**$**	**9,976**	**$**	**-**	**$**	**-**

Incentives and Reimbursements

It is anticipated that NBC will receive approximately $1.0 million in energy efficiency incentives related to the BPWWTF Biogas Reuse Project and the BPWWTF UV Disinfection Improvements Project, and a Grant from the Rhode Island Renewable Energy Fund for the Solar Carport. The funds will be deposited into the Grants and Projects Reimbursement Account in the Project Fund to be used for capital improvements. The potential incentives and reimbursements are outlined in the following table.

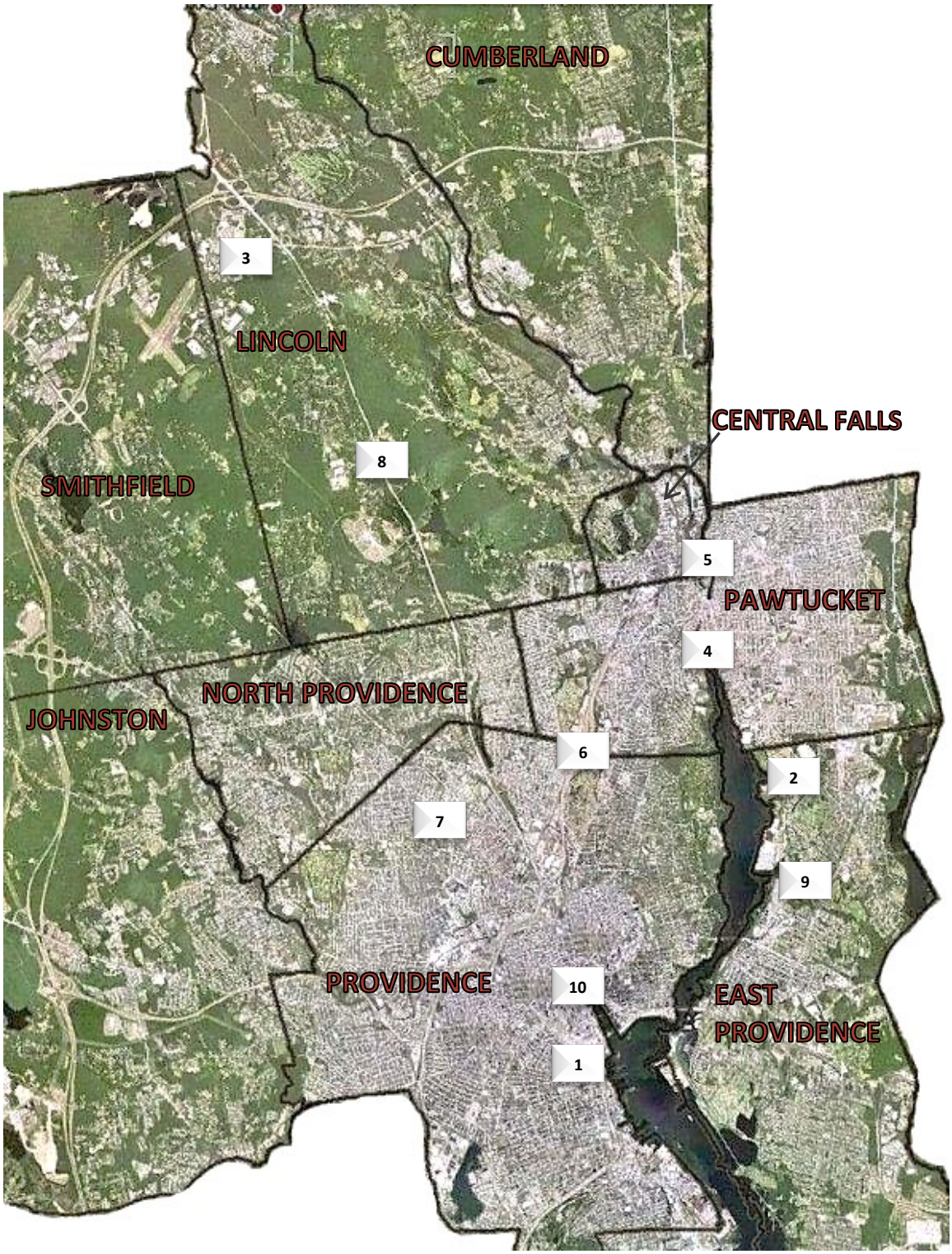
Capital Investment Incentives			
Contract	**Project**	**Source**	**Amount**
12000C	BPWWTF Biogas Reuse	National Grid (balance of incentive)	$ 109,460
12000C	BPWWTF Biogas Reuse	Regional Greenhouse Gas Initiative	200,000
20600C	NBC Solar Carport	RI Renewable Energy Fund (REF) Grant	206,600
81000C	BPWWTF UV Disinfection Improvements	National Grid Energy Efficiency Incentive Bonus	524,000
			$ 1,040,060

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 10 project locations as identified below. Some projects are System-wide and noted as SW.

Legend Key	Project Number	Project Name
Wastewater Treatment Facilities Improvements		
1	20000	WWTF Improvements
SW	20700	Long-Range Biosolids Disposal
1, 2	24000	NBC Facility Electrical Improvements
2	81800	BPWWTF Sludge Digestion Facility Improvements
Bucklin Point Resiliency		
2	81000	BPWWTF UV Disinfection Improvements
2	81600	BPWWTF Improvements
2	81700	BPWWTF Operations & Maintenance Buildings
Field's Point Resiliency		
1	20300	FPWWTF Improvements
1	20400	FPWWTF Ernest Street Pump Station Improvements
1	20500	FPWWTF Maintenance & Storage Buildings
1	20600	NBC Solar Carport
SW	20800	Cybersecurity Improvements
1	40101	FPWWTF Electrical Improvements
3	71000	Lincoln Septage Receiving Station Replacement
Infrastructure Management		
SW	1140600	RIPDES Compliance Improvements
SW	1140800	Pilot Restoration Initiative
SW	1140900	Water Quality Model Validation and Enhancement
SW	30700	NBC System-wide Facilities Planning
SW	40200	NBC System-wide Inflow Reduction
1	40300	Municipal Lateral Sewer Acquisition Impact
SW	40400	FPWWTF Plan Update
SW	40550	RIPDES Flow Monitoring System Implementation
CSO Phase III Facilities		
4	30800	CSO Phase III A Facilities - Design & Construction Program Management
4	30801	CSO Phase III A Facilities - Pawtucket Tunnel & Pump Station
4	30802	CSO Phase III A Facilities - Tunnel Pump Station Fit-out
4	30803	CSO Phase III A Facilities - OF 205
4	30804	CSO Phase III A Facilities - OF 210, 213, 214
4	30805	CSO Phase III A Facilities - OF 217
4	30807	CSO Phase III A Facilities - Regulator Modifications
4	30809	CSO Phase III A - GSI Projects
4	30810	CSO Phase III A Facilities - BPWWTF Clarifiers & Flow Splitters
5	30830	CSO Phase III B Facilities
6	30850	CSO Phase III C Facilities
7	30870	CSO Phase III D Facilities
Sewer System Improvements		
1	12400	Interceptor Maintenance Building
SW	30500	NBC Interceptor Easements Restoration, Various Locations
SW	30610	NBC System-wide Regulator Modifications
9	70900	Omega Pump Station Improvements
Interceptor Cleaning/Restoration and Construction		
SW	30480M	Completion of Baseline Siphon Inspections and Cleanings
10	30315	Woonasquatucket CSO OF 046 Improvements
8	30421	Louisquisset Pike Interceptor Improvements
SW	30468	Improvements to Interceptors FY 2022

Capital Improvement Program Project Locations



Capital Project Summary by Fiscal Year

(In Thousands)

Project Number	Project Name	Project Priority	Pre-Fiscal Year 2023	Fiscal Year 2023	Fiscal Years 2024-2028	Post-Fiscal Year 2028	Total Estimated Project Cost
Wastewater Treatment Facility Improvements							
20000	WWTF Improvements	B	$ -	$ -	$ 1,000	$ 500	$ 1,500
20200	2019 WWTF Improvements	A	4,794	98	-	-	4,892
20700	Long-Range Biosolids Disposal	A	255	223	10,004	-	10,482
24000	NBC Facility Electrical Improvements	B	24	448	3	-	475
81800	BPWWTF Sludge Digestion Facility Improvements	A	86	992	5,127	-	6,205
	Subtotal		5,159	1,761	16,134	500	23,554
Bucklin Point Resiliency Improvements							
81000	BPWWTF UV Disinfection Improvements	A	7,050	9,687	3,458	-	20,195
81600	BPWWTF Improvements	A	6,550	393	3,600	-	10,543
81700	BPWWTF Operations & Maintenance Buildings	A	15,033	18,830	5,649	-	39,512
	Subtotal		28,633	28,910	12,707	-	70,250
Field's Point Resiliency Improvements							
20300	FPWWTF Improvements	A	2,402	2,563	16,306	-	21,271
20400	FPWWTF Ernest Street Pump Station Improvements	A	1,698	2,758	32,764	-	37,220
20500	FPWWTF Maintenance & Storage Buildings	A	396	2,590	23,422	-	26,408
20600	NBC Solar Carport	A	1,051	8	-	-	1,059
20800	Cybersecurity Improvements	A	992	197	22	-	1,211
40101	FPWWTF Electrical Improvements	A	19	758	9,509	-	10,286
71000	Lincoln Septage Receiving Station Replacement	A	-	108	6,382	-	6,490
	Subtotal		6,558	8,982	88,405	-	97,455
Infrastructure Management							
1140600	RIPDES Compliance Improvements	C	633	303	235	-	1,171
1140800	Pilot Restoration Initiative	C	27	101	66	-	194
1140900	Water Quality Model Validation and Enhancement	C	-	60	103	-	163
30700	NBC System-wide Facilities Planning	D	-	28	726	-	754
40200	NBC System-wide Inflow Reduction	D	118	127	978	-	1,223
40300	Municipal Lateral Sewer Acquisition Impact	D	-	-	481	-	481
40400	FPWWTF Plan Update	A	221	115	67	-	403
40550	RIPDES Flow Monitoring System Implementation	A	-	1,252	397	-	1,649
	Subtotal		999	1,986	3,053	-	6,038
CSO Phase III Facilities							
30800	CSO Phase III A Facilities - Design & Construction Program Management	A	68,753	18,892	42,059	-	129,704
30801	CSO Phase III A Facilities - Pawtucket Tunnel & Pump Station	A	184,002	133,667	170,931	-	488,600
30802	CSO Phase III A Facilities - Tunnel Pump Station Fit-out	A	-	27	104,994	-	105,021
30803	CSO Phase III A Facilities - OF 205	A	-	-	6,270	-	6,270
30804	CSO Phase III A Facilities - OF 210, 213, 214	A	-	1	28,225	-	28,226
30805	CSO Phase III A Facilities - OF 217	A	3,121	11,657	4,073	-	18,851
30807	CSO Phase III A Facilities - Regulator Modifications	A	1,508	6,107	25	-	7,640
30809	CSO Phase III A - GSI Projects	A	5,892	1,600	1,672	-	9,164
30810	CSO Phase III A Facilities - BPWWTF Clarifiers & Flow Splitters	A	2	1,385	45,639	-	47,026
	CSO Phase III A Facilities Subtotal		263,278	173,336	403,888	-	840,502
30830	CSO Phase III B Facilities	A	-	-	-	28,484	28,484
30850	CSO Phase III C Facilities	A	-	-	-	164,660	164,660
30870	CSO Phase III D Facilities	A	-	-	-	83,500	83,500
	CSO Phase III B, C & D Facilities Subtotal		-	-	-	276,644	276,644
	Subtotal		263,278	173,336	403,888	276,644	1,117,146
Sewer System Improvements							
12400	Interceptor Maintenance Building	C	-	3	9,984	-	9,987
30500	NBC Interceptor Easements Restoration, Various Locations	B	170	254	1,005	-	1,429
30610	NBC System-wide Regulator Modifications	A	119	533	3,077	-	3,729
70900	Omega Pump Station Improvements	B	20	631	6,744	-	7,395
	Subtotal		309	1,421	20,810	-	22,540
Interceptor Cleaning & Restoration							
30400M	Interceptor Inspection and Cleaning	B	602	-	2,500	500	3,602
30480M	Completion of Baseline Siphon Inspections and Cleanings	A	254	508	-	-	762
	Subtotal		856	508	2,500	500	4,364
Interceptor Restoration & Construction							
30400C	Interceptor Restoration and Construction	B	-	-	4,920	1,500	6,420
30315	Woonasquatucket CSO OF 046 Improvements	B	144	280	3,314	-	3,738
30421	Louisquisset Pike Interceptor Improvements	D	2	43	6,418	-	6,463
30468	Improvements to Interceptors FY 2022	B	52	2,550	-	-	2,602
	Subtotal		198	2,873	14,652	1,500	19,223
	Total		**$ 305,990**	**$ 219,777**	**$ 562,149**	**$ 279,144**	**$ 1,360,570**

Priority	Description
A	Mandated, emergency, critical need or under construction.
B	Required to maintain system reliability and ongoing operation of facilities.
C	Project scope and requirements are dependent on futures system needs or regulatory requirements.
D	Project not critical but achieves efficiencies and/or reduces carbon footprint.

20000

WWTF Improvements

Project Manager: David Bowen, P.E.
Contractor(s): N/A

Location: Field's Point & Bucklin Point WWTF's
Project Priority: B

Total Project Duration/Cost

Project Phase	Start Date	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-18	Ongoing	Ongoing	$1,500
Total Project	**March-18**	**Ongoing**	**Ongoing**	**$1,500**

Photo: Aeration Tank Pumps

This project is a placeholder for facility improvements at NBC's WWTF's to comply with current and future regulatory requirements and ensure uninterrupted wastewater treatment processing, 24 hours per day and 365 days per year. NBC programs $500 thousand annually for improvements to ensure resources are available in years that do not have specific projects identified. As new projects are identified, they will be given a unique project number.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ -	$ -	$ -	$ -	$ -	$ 500	$ 500	$ 500	$ 1,500

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ 42	$ 42	$ 42	$ 126
A/E Professional	-	-	-	-	-	203	203	203	609
Construction	-	-	-	-	-	170	170	170	510
Contingency	-	-	-	-	-	20	20	20	60
Other	-	-	-	-	-	65	65	65	195
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 500**	**$ 500**	**$ 500**	**$ 1,500**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

20200

FY 2019 WWTF Improvements

Project Manager: Rich Bernier, P.E.
Contractor(s): Wright Pierce

Location: Field's Point (Providence, RI)
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	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-20	June-23	39 Months	$4,892
Total Project	**April-20**	**June-23**	**39 Months**	**$4,892**

Photo: Aeration Tank Pumps

This project involves improvements and upgrades to the Field's Point WWTF, Ernest Street Pump Station and the Tunnel Pump Station including the rehabilitation of various isolation gates and actuators, air handling units, biological removal system switchgear, Fire Alarm System and others. Other improvements include modifications to the aeration tanks, screw lift pumping station/ blower building and other locations. This project also addresses enhancements to the CSO tunnel odor control facility at the tunnel pump station adjacient to the WWTF.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ 4,794	**$ 98**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 4,892**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 252	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 252
A/E Professional	245	8	-	-	-	-	-	-	253
Construction	4,292	90	-	-	-	-	-	-	4,382
Contingency	-	-	-	-	-	-	-	-	-
Other	5	-	-	-	-	-	-	-	5
Total	**$ 4,794**	**$ 98**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 4,892**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

20700

Long-Range Biosolids Disposal

Project Manager: David Bowen, P.E.
Contractor(s): TBD

Location: Field's Point and Bucklin Point WWTFs
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	July-21	February-25	43 Months	$10,482
Construction	N/A	N/A	N/A	N/A
Total Project	**July-21**	**February-25**	**43 Months**	**$10,482**

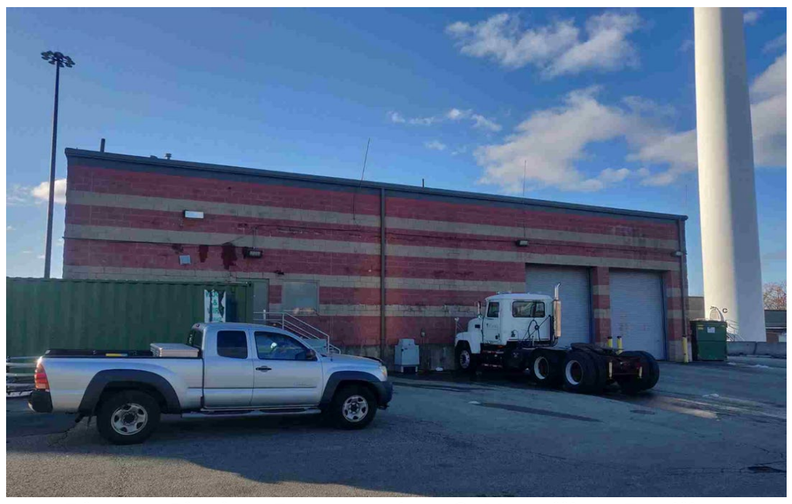


Photo: Sludge Dewatering & Handling Facility

This project involves the evaluation, planning and development of a reliable long-term sludge management strategy for sludge generated at NBC's Fields Point and Bucklin Point WWTFs. The study will explore the requirements and relative benefits of various appropriate industry standard residual solids disposal and management practices to address NBC's needs. The study will evaluate the relative benefits of continuing with similar disposal practices on a long-term basis for both WWTFs, as well as more capital-intensive options such as constructing new sludge processing facilities.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ 255	**$ 223**	**$ 5,560**	**$ 4,444**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 10,482**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 113	$ 68	$ 5	$ -	$ -	$ -	$ -	$ -	$ 186
Land	2	-	-	-	-	-	-	-	2
A/E Professional	125	75	5,555	4,444	-	-	-	-	10,199
Other	15	80	-	-	-	-	-	-	95
Total	**$ 255**	**$ 223**	**$ 5,560**	**$ 4,444**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 10,482**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

24000

NBC Facility Electrical Improvements

Project Manager: David Bowen, P.E.
Contractor(s): N/A

Location: NBC Service Area
Project Priority: B

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	November-21	July-23	21 Months	$475
Design	N/A	N/A	N/A	N/A
Construction	N/A	N/A	N/A	N/A
Total Project	**November-21**	**July-23**	**21 Months**	**$475**

Photo: Field's Point Electrical Facility

This project involves the evaluation of NBC's existing electrical equipment and facilities. Upon completion of the evaluation, improvements will be performed as necessary to ensure reliable and continuous operation of facilities throughout the NBC's service area.

CIP Window Summary

Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
$ 24	**$ 448**	**$ 3**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 475**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 24	$ 83	$ 3	$ -	$ -	$ -	$ -	$ -	$ 110
A/E Professional	-	261	-	-	-	-	-	-	261
Other	-	104	-	-	-	-	-	-	104
Total	**$ 24**	**$ 448**	**$ 3**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 475**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

81800

BPWWTF Sludge Digestion Facility Improvements

Project Manager: David Bowen, P.E.
Contractor(s): TBD

Location: Bucklin Point WWTF
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	November-21	December-24	38 Months	$1,455
Construction	December-22	June-26	43 Months	4,750
Total Project	**November-21**	**June-26**	**56 Months**	**$6,205**

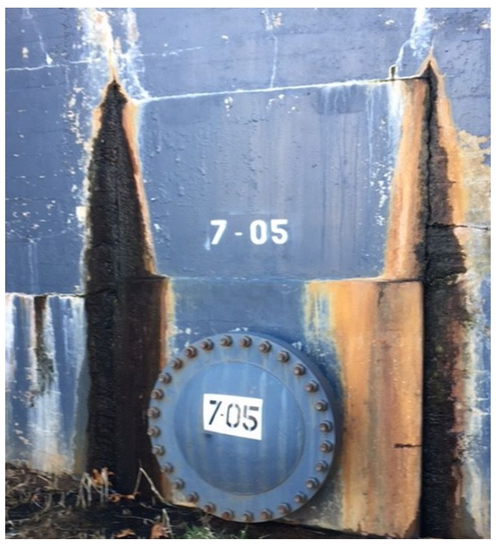


Photo: Secondary Digester

In order to mitigate and best manage known aging infrastructure concerns, NBC must address various operational needs at the Bucklin Point WWTF's Sludge Digestion Complex.

This project involves miscellaneous improvements and upgrades to the treatment plant's digester complex including; inspection and evaluation of primary and secondary digesters, piping systems and other process-related appurtenances, concrete and piping system repairs to address known problematic leakage concerns, and other related facility infrastructure improvement needs.

CIP Window Summary

Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
$ 86	**$ 992**	**$ 1,946**	**$ 1,676**	**$ 1,505**	**$ -**	**$ -**	**$ -**	**$ 6,205**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 56	$ 52	$ 78	$ 39	$ -	$ -	$ -	$ -	$ 225
Land	-	-	-	-	-	-	-	-	-
A/E Professional	30	260	135	118	-	-	-	-	543
Other	-	592	60	35	-	-	-	-	687
Total	**$ 86**	**$ 904**	**$ 273**	**$ 192**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 1,455**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ 81	$ 182	$ 182	$ 180	$ -	$ -	$ -	$ 625
A/E Professional	-	7	91	91	74	-	-	-	263
Construction	-	-	987	859	859	-	-	-	2,705
Contingency	-	-	346	300	340	-	-	-	986
Other	-	-	67	52	52	-	-	-	171
Total	**$ -**	**$ 88**	**$ 1,673**	**$ 1,484**	**$ 1,505**	**$ -**	**$ -**	**$ -**	**$ 4,750**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	(18,087)	(217,041)	(217,041)
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ (18,087)**	**$ (217,041)**	**$ (217,041)**

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81000

BPWWTF UV Disinfection Improvements

Project Manager: David Bowen, P.E.
Contractor(s): TBD

Location: Bucklin Point WWTF (East Providence, RI)
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	April-17	February-22	59 Months	$1,724
Construction	March-22	November-24	33 Months	18,471
Total Project	**April-17**	**November-24**	**92 Months**	**$20,195**

Photo: Bucklin Point UV Disinfection System

This project involves the evaluation of the current Ultraviolet (UV) Disinfection system at the Bucklin Point WWTF and implementation of a system replacement/ upgrade along with the design and construction of a new building to contain the system. The current UV equipment is nearing the end of its useful life, and the medium pressure, high intensity lamps are expensive and less efficient than newer technologies.

CIP Window Summary

Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
$ 7,050	**$ 9,687**	**$ 3,375**	**$ 83**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 20,195**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 225	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 225
Land	-	-	-	-	-	-	-	-	-
A/E Professional	1,398	-	-	-	-	-	-	-	1,398
Other	101	-	-	-	-	-	-	-	101
Total	**$ 1,724**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 1,724**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 136	$ 126	$ 182	$ 83	$ -	$ -	$ -	$ -	$ 527
A/E Professional	345	260	73	-	-	-	-	-	678
Construction	4,750	7,850	500	-	-	-	-	-	13,100
Contingency	95	1,416	2,620	-	-	-	-	-	4,131
Other	-	35	-	-	-	-	-	-	35
Total	**$ 5,326**	**$ 9,687**	**$ 3,375**	**$ 83**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 18,471**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	(178,971)	(268,456)	(268,456)	(268,456)
Increased Expense	-	-	17,840	26,759	26,759	26,759
Net Impact on Operating Budget	**$ -**	**$ -**	**$ (161,131)**	**$ (241,697)**	**$ (241,697)**	**$ (241,697)**

81600
BPWWTF Improvements

Project Manager: David Bowen, P.E. Location: BPWWTF
Contractor(s): Biszko Building Systems, Inc. Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	June-19	April-23	46 Months	$715
Construction	October-19	June-25	67 Months	9,828
Total Project	**June-19**	**June-25**	**72 Months**	**$10,543**

Photo: 2,000 kWh Generator Installation

This project involves miscellaneous improvements and upgrades to the Bucklin Point WWTF including the repair or replacement of boilers, hydronic piping systems, and isolation gates. Other improvements include modifications to HVAC systems, inspection and repairs to sludge digester tanks and related system appurtenances, miscellaneous concrete repairs, installation of a redundant standby power system, electrical manhole dewatering sump pump systems and other miscellaneous infrastructure needs.

CIP Window Summary

Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
$ 6,550	**$ 393**	**$ 1,180**	**$ 2,420**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 10,543**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 101	$ 57	$ -	$ -	$ -	$ -	$ -	$ -	$ 158
Land	-	-	-	-	-	-	-	-	-
A/E Professional	221	253	-	-	-	-	-	-	474
Other	72	11	-	-	-	-	-	-	83
Total	**$ 394**	**$ 321**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 715**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 79	$ 34	$ 155	$ 180	$ -	$ -	$ -	$ -	$ 448
A/E Professional	-	4	124	72	-	-	-	-	200
Construction	6,063	34	835	1,362	-	-	-	-	8,294
Contingency	-	-	-	799	-	-	-	-	799
Other	14	-	66	7	-	-	-	-	87
Total	**$ 6,156**	**$ 72**	**$ 1,180**	**$ 2,420**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 9,828**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	278	3,330	3,330	3,330
Net Impact on Operating Budget	**$ -**	**$ -**	**$ 278**	**$ 3,330**	**$ 3,330**	**$ 3,330**

81700

BPWWTF Operations & Maintenance Building

Project Manager: Rich Bernier, P.E.
Contractor(s): Daniel O'Connell's Sons

Location: Bucklin Point WWTF
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	May-19	July-21	26 Months	$482
Construction	November-20	July-24	43 Months	39,030
Total Project	**May-19**	**July-24**	**62 Months**	**$39,512**

Photo: Operations & Maintenance Building

This project involves the design and construction of a new Operations Building and a Maintenance/Storage Building at the Bucklin Point campus.

The Operations Building will contain additional office space, training and locker rooms, and the WWTF's SCADA Control Room which is necessary to maintain system reliability and efficient operations.

The Maintenance/Storage Building(s) will improve the efficiency of plant maintenance services necessary to ensure the reliable operation and performance of critical infrastructure systems and address various storage needs at the BPWWTF.

CIP Window Summary

Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
$ 15,033	**$ 18,830**	**$ 5,474**	**$ 175**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 39,512**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 186	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 186
Land	-	-	-	-	-	-	-	-	-
A/E Professional	295	-	-	-	-	-	-	-	295
Other	1	-	-	-	-	-	-	-	1
Total	**$ 482**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 482**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 514	$ 600	$ 80	$ 5	$ -	$ -	$ -	$ -	$ 1,199
A/E Professional	146	145	9	-	-	-	-	-	300
Construction	13,821	18,058	1,870	170	-	-	-	-	33,919
Contingency	-	-	3,515	-	-	-	-	-	3,515
Other	70	27	-	-	-	-	-	-	97
Total	**$ 14,551**	**$ 18,830**	**$ 5,474**	**$ 175**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 39,030**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	4,766	57,188	57,188	57,188	57,188
Net Impact on Operating Budget	**$ -**	**$ 4,766**	**$ 57,188**	**$ 57,188**	**$ 57,188**	**$ 57,188**

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20300

FPWWTF Improvements

Project Manager: David Bowen, P.E.
Contractor(s): TBD

Location: Field's Point WWTF
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	December-21	November-23	23 Months	$1,523
Construction	October-21	March-25	42 Months	19,748
Total Project	**October-21**	**March-25**	**42 Months**	**$21,271**

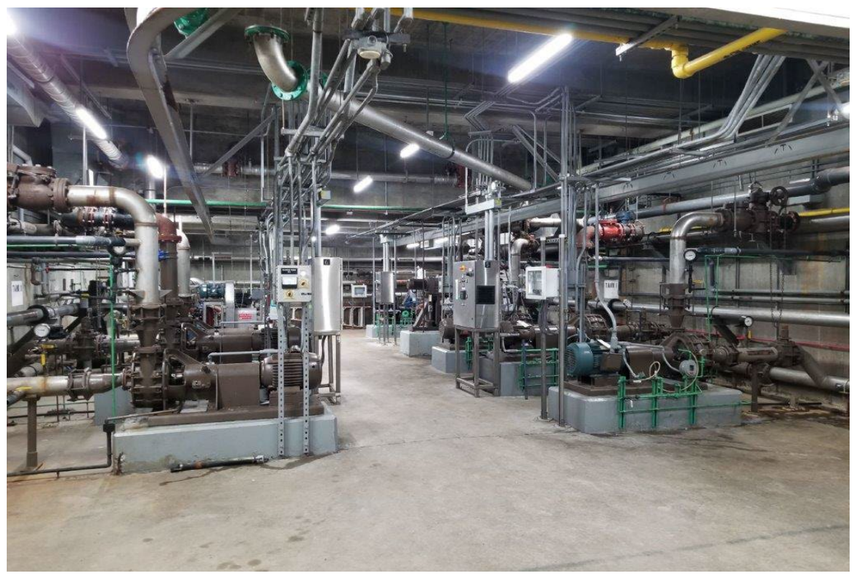

Photo: Primary Pump Station

Improvements to the FPWWTF include replacement of the Pepcon unit at the Gravity Thickener Building; evaluation and design of miscellaneous improvements to the WWTF's Disinfection and Dechlorination systems; a new transformer and replacement of the automatic strainer system. Other improvements include the design and construction of three dedicated individual VFD's to allow simultaneous operation of RAS Pump Nos. 7, 8, 9; OSHA safety required handrail installation at the Blower/Screw Lift Building and the Primary Pump Station; replacement of the HVAC unit at the Gravity Thickener Pump Station; modifications to the paved area south of the O&M Building which should have a stormwater collection system installed and may require regrading of the pavement; modifications to modular precast retaining wall systems at the Field's Point campus requiring remediation.

CIP Window Summary

Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
$ 2,402	**$ 2,563**	**$ 7,590**	**$ 8,715**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 21,271**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 54	$ 74	$ 32	$ -	$ -	$ -	$ -	$ -	$ 160
Land	-	-	-	-	-	-	-	-	-
A/E Professional	185	870	243	-	-	-	-	-	1,298
Other	-	50	15	-	-	-	-	-	65
Total	**$ 239**	**$ 994**	**$ 290**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 1,523**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 138	$ 148	$ 325	$ 147	$ -	$ -	$ -	$ -	$ 758
A/E Professional	81	113	370	175	-	-	-	-	739
Construction	1,925	1,064	6,500	2,133	-	-	-	-	11,622
Contingency	-	229	35	6,260	-	-	-	-	6,524
Other	19	15	70	-	-	-	-	-	104
Total	**$ 2,163**	**$ 1,569**	**$ 7,300**	**$ 8,715**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 19,748**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	(25,000)	(75,000)	(75,000)	(75,000)
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ (25,000)**	**$ (75,000)**	**$ (75,000)**	**$ (75,000)**

20400

FPWWTF Ernest Street Pump Station Improvements

Project Manager: David Bowen, P.E.
Contractor(s): TBD

Location: Field's Point WWTF
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	July-21	April-25	45 Months	$4,865
Construction	August-22	December-25	40 Months	32,355
Total Project	**July-21**	**December-25**	**53 Months**	**$37,220**

Photo: Ernest Street Pump Station

This project involves improvements and upgrades to the historic 200 MGD Ernest Street Pump Station facility. Evaluation, design and planned construction activities are associated with the station's critical, aging infrastructure systems including: large-diameter valves, gates and actuators; flow meters; centrifugal wastewater pumps; variable frequency drive (VFD) units; instrumentation and control (I&C) systems; influent screening systems; motor control centers (MCCs), IQ-1000 motor protectors and electrical power systems; 1,750 kVA Standby Power Generator system.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ 1,698	**$ 2,758**	**$ 9,712**	**$ 12,067**	**$ 10,985**	**$ -**	**$ -**	**$ -**	**$ 37,220**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 121	$ 87	$ 78	$ 58	$ -	$ -	$ -	$ -	$ 344
Land	-	-	-	-	-	-	-	-	-
A/E Professional	1,537	1,110	785	589	-	-	-	-	4,021
Other	40	17	70	373	-	-	-	-	500
Total	**$ 1,698**	**$ 1,214**	**$ 933**	**$ 1,020**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 4,865**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ 122	$ 300	$ 195	$ 75	$ -	$ -	$ -	$ 692
A/E Professional	-	125	516	444	138	-	-	-	1,223
Construction	-	1,270	7,901	6,722	2,122	-	-	-	18,015
Contingency	-	-	-	3,686	8,650	-	-	-	12,336
Other	-	27	62	-	-	-	-	-	89
Total	**$ -**	**$ 1,544**	**$ 8,779**	**$ 11,047**	**$ 10,985**	**$ -**	**$ -**	**$ -**	**$ 32,355**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

20500

FPWWTF Maintenance & Storage Buildings

Project Manager: David Bowen, P.E.
Contractor(s): TBD

Location: Field's Point WWTF
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	December-21	June-23	19 Months	$2,962
Construction	July-22	June-25	36 Months	23,446
Total Project	**December-21**	**June-25**	**43 Months**	**$26,408**

Photo: Existing FPWWTF Maintenance Building

This project involves the planning, design and construction of a new Maintenance Building, an IM Storage Building and related support facilities at the Field's Point campus which is in-line with NBC's long-range planning goals to address known resiliency and aging infrastructure concerns.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ 396	**$ 2,590**	**$ 5,514**	**$ 17,908**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 26,408**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 56	$ 134	$ 6	$ -	$ -	$ -	$ -	$ -	$ 196
Land	-	750	-	-	-	-	-	-	750
A/E Professional	250	1,370	-	-	-	-	-	-	1,620
Other	90	306	-	-	-	-	-	-	396
Total	**$ 396**	**$ 2,560**	**$ 6**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 2,962**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ 30	$ 226	$ 254	$ -	$ -	$ -	$ -	$ 510
A/E Professional	-	-	480	398	-	-	-	-	878
Construction	-	-	4,650	8,850	-	-	-	-	13,500
Contingency	-	-	-	8,356	-	-	-	-	8,356
Other	-	-	152	50	-	-	-	-	202
Total	**$ -**	**$ 30**	**$ 5,508**	**$ 17,908**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 23,446**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	4,766	57,188	57,188	57,188
Net Impact on Operating Budget	**$ -**	**$ -**	**$ 4,766**	**$ 57,188**	**$ 57,188**	**$ 57,188**

20600

NBC Solar Carport

Project Manager: Jim Kelly
Contractor(s): Various

Location: WQSB
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	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	January-20	June-22	30 Months	$1,059
Total Project	**January-20**	**June-22**	**30 Months**	**$1,059**

Photo: Solar Carport

This project will evaluate, design, and build a solar carport in the Water Quality Science Building parking lot. Constructing the carport would serve as an additional renewable energy source to help NBC achieve its goal of 100% renewable energy resources for the NBC. It would also protect vehicles and staff from ice shed from the wind turbines. This project may be eligible for up to $200,000 in grant funding through the Rhode Island Renewable Energy Fund (REF) Commercial-Scale Program.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ 1,051	**$ 8**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 1,059**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 50	$ 8	$ -	$ -	$ -	$ -	$ -	$ -	$ 58
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	1,000	-	-	-	-	-	-	-	1,000
Contingency	-	-	-	-	-	-	-	-	-
Other	1	-	-	-	-	-	-	-	1
Total	**$ 1,051**	**$ 8**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 1,059**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ 5,101	$ 5,101	$ 5,101	$ 5,101	$ 5,101	$ 5,101
Reduced Expense	(32,524)	(32,524)	(32,524)	(32,524)	(32,524)	(32,524)
Increased Expense	2,990	2,990	2,990	2,990	2,990	2,990
Net Impact on Operating Budget	**$ (34,635)**	**$ (34,635)**	**$ (34,635)**	**$ (34,635)**	**$ (34,635)**	**$ (34,635)**

20800

Cybersecurity Improvements

Project Manager: Brendon McLean
Contractor(s): Various

Location: COB
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	August-20	July-24	47 Months	$1,211
Total Project	**August-20**	**July-24**	**47 Months**	**$1,211**

Photo: Protecting NBC from cyber threats

This project includes the purchase and implementation of cybersecurity improvements in key areas of the Information Technology (IT) infrastructure to mitigate cybersecurity risks that may adversely impact NBC's ability to continuously operate and maintain its facilities.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ 992	**$ 197**	**$ 22**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 1,211**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 7	$ 31	$ 22	$ -	$ -	$ -	$ -	$ -	$ 60
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	985	166	-	-	-	-	-	-	1,151
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ 992**	**$ 197**	**$ 22**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 1,211**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

40101

FPWWTF Facility Electrical Improvements

Project Manager: David Bowen, P.E.
Contractor(s): Various

Location: Providence, RI
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	May-22	December-23	19 Months	$900
Construction	January-23	December-24	24 Months	9,386
Total Project	**May-22**	**December-24**	**31 Months**	**$10,286**

Photo: Field's Point Screw & Blower Generator

This project involves the evaluation and installation of standby power capabilities for critical facilities at the FPWWTF in order to maintain uninterrupted operation of treatment processes.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ 19	**$ 758**	**$ 4,232**	**$ 5,277**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 10,286**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 14	$ 73	$ 38	$ -	$ -	$ -	$ -	$ -	$ 125
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	450	180	-	-	-	-	-	630
Other	5	45	95	-	-	-	-	-	145
Total	**$ 19**	**$ 568**	**$ 313**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 900**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ 33	$ 138	$ 79	$ -	$ -	$ -	$ -	$ 250
A/E Professional	-	32	328	61	-	-	-	-	421
Construction	-	125	3,400	1,725	-	-	-	-	5,250
Contingency	-	-	-	3,412	-	-	-	-	3,412
Other	-	-	53	-	-	-	-	-	53
Total	**$ -**	**$ 190**	**$ 3,919**	**$ 5,277**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 9,386**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	1,943	3,330	3,330	3,330
Net Impact on Operating Budget	**$ -**	**$ -**	**$ 1,943**	**$ 3,330**	**$ 3,330**	**$ 3,330**

71000

Lincoln Septage Receiving Station Replacement

Project Manager: David Bowen, P.E.
Contractor(s): TBD

Location: Lincoln, RI
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	November-22	July-24	21 Months	$725
Construction	May-24	July-26	26 Months	5,765
Total Project	**November-22**	**July-26**	**45 Months**	**$6,490**

Photo: Lincoln Septage Receiving Station

The existing Lincoln Septage Receiving Station has reached the end of its useful life and needs to be replaced. This project includes design and construction of a new septage receiving station equipped with a screening mechanism and sample collection capabilities in accordance with NBC's Standard Operating Procedures for monitoring septage.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ -	**$ 108**	**$ 611**	**$ 1,186**	**$ 4,504**	**$ 81**	**$ -**	**$ -**	**$ 6,490**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ 43	$ 75	$ 6	$ -	$ -	$ -	$ -	$ 124
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	25	425	-	-	-	-	-	450
Other	-	40	111	-	-	-	-	-	151
Total	**$ -**	**$ 108**	**$ 611**	**$ 6**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 725**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ 147	$ 180	$ 30	$ -	$ -	$ 357
A/E Professional	-	-	-	123	120	1	-	-	244
Construction	-	-	-	875	2,825	50	-	-	3,750
Contingency	-	-	-	-	1,349	-	-	-	1,349
Other	-	-	-	35	30	-	-	-	65
Total	**$ -**	**$ -**	**$ -**	**$ 1,180**	**$ 4,504**	**$ 81**	**$ -**	**$ -**	**$ 5,765**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	(9,976)	(9,976)
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ (9,976)**	**$ (9,976)**

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1140600

RIPDES Compliance Improvements

Project Manager: David Bowen, P.E.
Contractor(s): TBD

Location: NBC District
Project Priority: C

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	March-18	December-23	70 Months	$1,171
Construction	N/A	N/A	N/A	N/A
Total Project	**March-18**	**December-23**	**70 Months**	**$1,171**

Photo: Aerial of the FPWWTF and the Providence River

This project includes improvements to the wastewater treatment and collections system that may be required to comply with new permit limits and mandates. Specific improvements shall be identified through a metals translator study, a technically based Local Limits Evaluation study, a site specific study, an upper bay dissolved oxygen evaluation, and the development of a climate resiliency plan.

CIP Window Summary

Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
$ 633	**$ 303**	**$ 235**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 1,171**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 454	$ 142	$ 121	$ -	$ -	$ -	$ -	$ -	$ 717
Land	-	-	-	-	-	-	-	-	-
A/E Professional	157	104	-	-	-	-	-	-	261
Other	22	57	114	-	-	-	-	-	193
Total	**$ 633**	**$ 303**	**$ 235**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 1,171**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

1140800

Pilot Restoration Initiative

Project Manager: Tom Uva
Contractor(s): TBD

Location: Providence and/or Seekonk River Estuary
Project Priority: C

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	October-21	December-26	63 Months	$194
Construction	N/A	N/A	N/A	N/A
Total Project	**October-21**	**December-26**	**63 Months**	**$194**

Photo: Artificial Reef being submerged in Providence River

This project will demonstrate the success of NBC facility upgrades and major capital expenditures as it relates to improving water quality in the Providence and/or Seekonk River estuaries.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ 27	**$ 101**	**$ 6**	**$ 6**	**$ 54**	**$ -**	**$ -**	**$ -**	**$ 194**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 7	$ 6	$ -	$ -	$ -	$ -	$ -	$ -	$ 13
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	70	-	-	50	-	-	-	120
Other	20	25	6	6	4	-	-	-	61
Total	**$ 27**	**$ 101**	**$ 6**	**$ 6**	**$ 54**	**$ -**	**$ -**	**$ -**	**$ 194**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

1140900

Water Quality Model Validation and Enhancement

Project Manager: Tom Uva
Contractor(s): TBD

Location: NBC Receiving Waters
Project Priority: C

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	July-22	June-26	48 Months	$163
Construction	N/A	N/A	N/A	N/A
Total Project	**July-22**	**June-26**	**48 Months**	**$163**

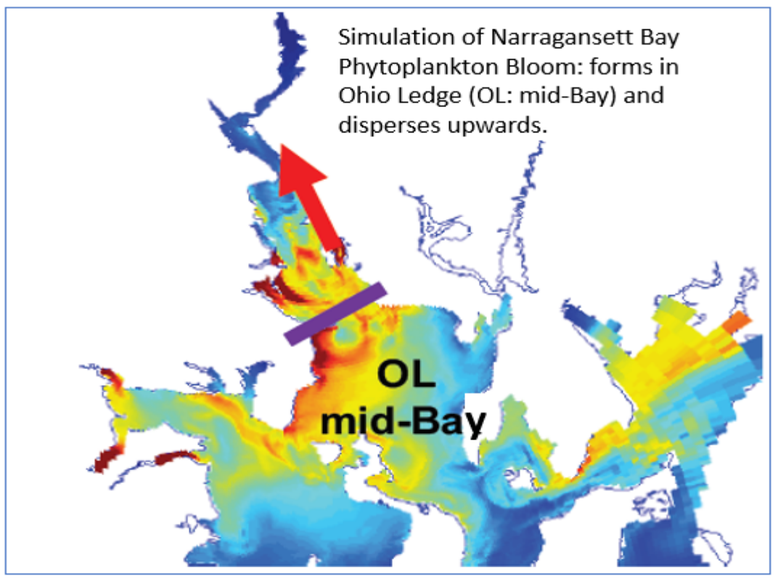


Photo: Artificial Reef being submerged in Providence River

The Regional Ocean Modeling System (ROMS) for the Providence and Seekonk Rivers and Narragansett Bay tracks water circulation and pollutant transport and determines how changing nitrogen loads and environmental factors affect the biology and quality of the NBC's receiving waters. This project is to validate the accuracy and assess performance of the model to ensure NBC regulatory requirements are science-based. Assessment of model performance and external recommendations by an outside contractor will guide continued model enhancements to ultimately ensure NBC will be equipped with the tools necessary to critically review proposed regulatory requirements and prevent unecessary capital expenditures.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ -	**$ 60**	**$ 32**	**$ 33**	**$ 38**	**$ -**	**$ -**	**$ -**	**$ 163**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ 5	$ 2	$ 3	$ 8	$ -	$ -	$ -	$ 18
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	30	30	30	30	-	-	-	120
Other	-	25	-	-	-	-	-	-	25
Total	**$ -**	**$ 60**	**$ 32**	**$ 33**	**$ 38**	**$ -**	**$ -**	**$ -**	**$ 163**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

30700

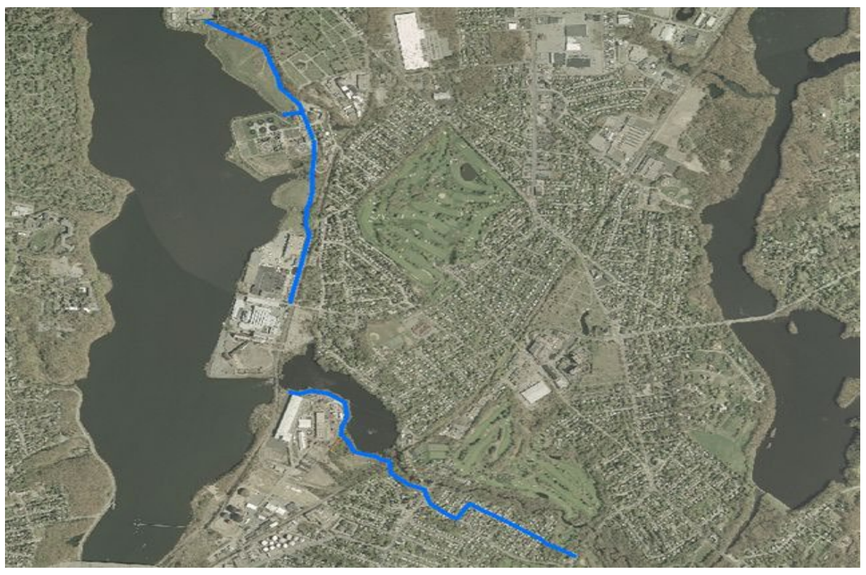
NBC System-wide Facilities Planning

Project Manager: David Bowen, P.E.
Contractor(s): N/A

Location: NBC Service Area
Project Priority: D

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	January-23	January-25	24 Months	$754
Construction	N/A	N/A	N/A	N/A
Total Project	**January-23**	**January-25**	**24 Months**	**$754**



This project consists of planning activities that will determine if there is adequate system capacity for the next twenty years and determine if there is any excess infiltration/inflow in NBC's interceptors. As the evaluations begin for specific cities and towns, each will be given a unique project number.

Photo: Proposed area for the East Providence Capacity Analysis

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ -	**$ 28**	**$ 549**	**$ 177**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 754**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ 28	$ 84	$ 45	$ -	$ -	$ -	$ -	$ 157
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	205	90	-	-	-	-	295
Other	-	-	260	42	-	-	-	-	302
Total	**$ -**	**$ 28**	**$ 549**	**$ 177**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 754**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

40200

NBC System-wide Inflow Reduction

Project Manager: David Bowen, P.E.
Contractor(s): N/A

Location: NBC Service Area
Project Priority: D

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	October-22	August-25	34 Months	$581
Construction	March-24	November-25	20 Months	642
Total Project	**October-22**	**November-25**	**37 Months**	**$1,223**

Photo: Downspouts at NBC's Corporate Office Building

This project involves the development and implementation of an inflow reduction program to remove stormwater from sanitary sewers in the NBC's service area. This project is imperative to prevent surcharging of sewers that could cause illegal sanitary sewer overflows during wet weather events.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ 118	**$ 127**	**$ 233**	**$ 452**	**$ 293**	**$ -**	**$ -**	**$ -**	**$ 1,223**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ 5	$ 70	$ 68	$ 13	$ -	$ -	$ -	$ 156
Land	-	-	-	-	-	-	-	-	-
A/E Professional	118	99	95	10	-	-	-	-	322
Other	-	23	22	58	-	-	-	-	103
Total	**$ 118**	**$ 127**	**$ 187**	**$ 136**	**$ 13**	**$ -**	**$ -**	**$ -**	**$ 581**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ 38	$ 77	$ 31	$ -	$ -	$ -	$ 146
A/E Professional	-	-	8	52	30	-	-	-	90
Construction	-	-	-	162	88	-	-	-	250
Contingency	-	-	-	-	101	-	-	-	101
Other	-	-	-	25	30	-	-	-	55
Total	**$ -**	**$ -**	**$ 46**	**$ 316**	**$ 280**	**$ -**	**$ -**	**$ -**	**$ 642**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

40300

Municipal Lateral Sewer Acquisition Impact

Project Manager: David Bowen, P.E.
Contractor(s): N/A

Location: NBC Service Area
Project Priority: D

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	June-24	May-26	24 Months	$481
Design	N/A	N/A	N/A	N/A
Construction	N/A	N/A	N/A	N/A
Total Project	**June-24**	**May-26**	**24 Months**	**$481**

Photo: Municipal Sewer Manhole Cover

This project involves evaluating the impact of NBC assuming ownership of lateral sewers that are currently owned by municipalities within NBC's service area. If legislation is passed by the General Assembly mandating NBC to take over ownership and maintenance of local sewers within NBC's service area, this project will be required.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ -	**$ -**	**$ 2**	**$ 326**	**$ 153**	**$ -**	**$ -**	**$ -**	**$ 481**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ 2	$ 121	$ 38	$ -	$ -	$ -	$ 161
A/E Professional	-	-	-	165	110	-	-	-	275
Other	-	-	-	40	5	-	-	-	45
Total	**$ -**	**$ -**	**$ 2**	**$ 326**	**$ 153**	**$ -**	**$ -**	**$ -**	**$ 481**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

40400

FPWWTF Plan Update

Project Manager: David Bowen, P.E.
Contractor(s): CH2M Hill

Location: Providence, RI
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	January-17	November-23	83 Months	$403
Design	N/A	N/A	N/A	N/A
Construction	N/A	N/A	N/A	N/A
Total Project	**January-17**	**November-23**	**83 Months**	**$403**

Photo: Aeration Tanks at Field's Point WWTF

This project involves the update of the FPWWTF Plan and determining the maximum nitrogen and biochemical oxygen demand loads that can be accepted at the facilities while meeting RIPDES permit limits as well as resources required to review and ensure compliance with the RIPDES permit recently issued by RIDEM.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ 221	**$ 115**	**$ 67**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 403**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 193	$ 100	$ 57	$ -	$ -	$ -	$ -	$ -	$ 350
A/E Professional	23	10	8	-	-	-	-	-	41
Other	5	5	2	-	-	-	-	-	12
Total	**$ 221**	**$ 115**	**$ 67**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 403**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

40550

RIPDES Flow Monitoring System Implementation

Project Manager: Michael Caruolo, P.E.
Contractor(s): ADS Environmental Services

Location: NBC Service Area
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	July-22	November-23	16 Months	$1,649
Total Project	**July-22**	**November-23**	**16 Months**	**$1,649**

Photo: Flow Monitor

This project involves the replacement of existing flow monitoring equipment located throughout NBC's collection system to include purchasing, installing and maintaining all equipment in order to accurately monitor flow conditions and measurements in accordance with the RIPDES permit. In addition, for an initial one year period, all flow data shall be monitored and reported to the NBC.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ -	**$ 1,252**	**$ 397**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 1,649**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ 120	$ 20	$ -	$ -	$ -	$ -	$ -	$ 140
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	1,132	377	-	-	-	-	-	1,509
Contingency	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ 1,252**	**$ 397**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 1,649**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

30800

CSO Phase III A Facilities - Design & Construction Program Management

Project Manager: Kathryn Kelly, P.E. Location: Pawtucket, RI
Contractor(s): Stantec Consulting Services Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	April-13	December-23	128 Months	$74,566
Construction	January-21	February-28	85 Months	55,138
Total Project	**April-13**	**February-28**	**179 Months**	**$129,704**

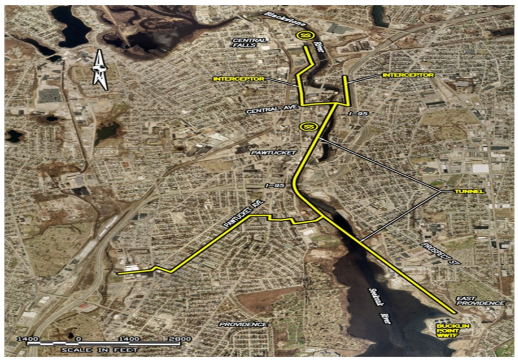


Photo: Proposed alignment for the Pawtucket CSO Tunnel

The purpose Phase III A is to design and construct a deep rock tunnel in Pawtucket approximately 11,200 feet in length along the Seekonk and Blackstone Rivers, a pump station to convey flow to the Bucklin Point WWTF in East Providence, drop shafts and consolidation conduits, and improvements to the Bucklin Point WWTF. In addition, GSI facilities will be constructed to reduce stormwater inflow to the combined system by promoting infiltration of stormwater to the groundwater table.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ 68,753	**$ 18,892**	**$ 13,929**	**$ 14,004**	**$ 7,310**	**$ 3,700**	**$ 3,116**	**$ -**	**$ 129,704**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 4,235	$ 522	$ 86	$ -	$ -	$ -	$ -	$ -	$ 4,843
Land	8,363	1,136	-	-	-	-	-	-	9,499
A/E Professional	49,502	5,926	1,541	14	-	-	-	-	56,983
Other	551	118	71	2,500	-	-	-	-	3,240
Total	**$ 62,651**	**$ 7,702**	**$ 1,699**	**$ 2,514**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 74,566**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	5,982	10,950	11,990	11,250	7,150	3,700	3,116	-	54,138
Construction	-	-	-	-	-	-	-	-	-
Contingency	-	-	-	-	-	-	-	-	-
Other	120	240	240	240	160	-	-	-	1,000
Total	**$ 6,102**	**$ 11,190**	**$ 12,230**	**$ 11,490**	**$ 7,310**	**$ 3,700**	**$ 3,116**	**$ -**	**$ 55,138**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

30801

CSO Phase III A Facilities - Pawtucket Tunnel & Pump Station

Project Manager: Rich Bernier, P.E.
Contractor(s): CBNA Barletta

Location: Pawtucket
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	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-20	December-24	49 Months	$488,600
Total Project	**December-20**	**December-24**	**49 Months**	**$488,600**

Photo: Pawtucket Tunnel Site

This project includes the construction of a deep rock storage tunnel, launch and drop shafts, and adits. After construction of the tunnel, tunnel pump station, and associated near surface facilities, CSO flow which currently discharges to the Seekonk and Blackstone Rivers shall be diverted to the tunnel during storms smaller than or equal to a three-month design storm. The diverted CSO flow will be stored in the tunnel and will be pumped to the plant for full treatment when capacity becomes available.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ 184,002	**$ 133,667**	**$ 94,897**	**$ 73,762**	**$ 2,272**	**$ -**	**$ -**	**$ -**	**$ 488,600**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 1,568	$ 1,810	$ 1,890	$ 1,701	$ 23	$ -	$ -	$ -	$ 6,992
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	182,362	131,797	92,947	40,755	2,249	-	-	-	450,110
Contingency	-	-	-	31,253	-	-	-	-	31,253
Other	72	60	60	53	-	-	-	-	245
Total	**$ 184,002**	**$ 133,667**	**$ 94,897**	**$ 73,762**	**$ 2,272**	**$ -**	**$ -**	**$ -**	**$ 488,600**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	761,224	1,304,956
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ 761,224**	**$ 1,304,956**

30802

CSO Phase III A Facilities - Tunnel Pump Station Fit-out

Project Manager: Kathryn Kelly, P.E.
Contractor(s): TBD

Location: Pawtucket
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	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	January-24	February-27	38 Months	$105,021
Total Project	**January-24**	**February-27**	**38 Months**	**$105,021**

Photo: Ernest Street Tunnel Pump Station

This project includes construction of the CSO Tunnel Pump Station (TPS). The TPS shall be constructed on a site in Pawtucket near the Bucklin Point Wastewater Treatment Facility.

This project also includes the construction of a consolidation conduit to direct flow to the tunnel via Drop Shaft 218 from CSO outfall 218. Wet weather flow will be diverted from OF-218 to new consolidation conduit that will ultimately direct flow to Drop Shaft 218.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ -	**$ 27**	**$ 8,756**	**$ 42,405**	**$ 35,484**	**$ 18,349**	**$ -**	**$ -**	**$ 105,021**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ 27	$ 560	$ 685	$ 610	$ 311	$ -	$ -	$ 2,193
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	6,846	40,220	33,374	5,135	-	-	85,575
Contingency	-	-	-	-	-	12,005	-	-	12,005
Other	-	-	1,350	1,500	1,500	898	-	-	5,248
Total	**$ -**	**$ 27**	**$ 8,756**	**$ 42,405**	**$ 35,484**	**$ 18,349**	**$ -**	**$ -**	**$ 105,021**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

30803

CSO Phase III A Facilities - OF 205

Project Manager: Kathryn Kelly, P.E.
Contractor(s): TBD

Location: Pawtucket
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	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	January-24	October-25	21 Months	$6,270
Total Project	**January-24**	**October-25**	**21 Months**	**$6,270**

Photo: Outfall 205 Location

This project involves constructing near-surface facilities to direct flow from the existing CSO 205 outfall pipe to a drop shaft for the CSO storage tunnel. Flow will be diverted from the CSO 205 outfall pipe via a diversion structure. This flow will pass through a consolidation conduit and gate and screening structure which will screen the flow for large objects. From the gate and screening structure, the flow will pass into the drop shaft and then be directed to the tunnel through an adit. The drop shaft and adit will be constructed as part of another project.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ -	**$ -**	**$ 1,140**	**$ 4,146**	**$ 984**	**$ -**	**$ -**	**$ -**	**$ 6,270**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ 38	$ 74	$ 20	$ -	$ -	$ -	$ 132
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	1,015	3,898	427	-	-	-	5,340
Contingency	-	-	-	-	500	-	-	-	500
Other	-	-	87	174	37	-	-	-	298
Total	**$ -**	**$ -**	**$ 1,140**	**$ 4,146**	**$ 984**	**$ -**	**$ -**	**$ -**	**$ 6,270**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

30804

CSO Phase III A Facilities - OF 210, 213, 214

Project Manager: Kathryn Kelly, P.E.
Contractor(s): TBD

Location: Pawtucket
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	November-23	October-25	23 Months	$28,226
Total Project	**November-23**	**October-25**	**23 Months**	**$28,226**

Photo: Outfall Locations

This project includes the construction of consolidation conduits to direct flow to the tunnel via Drop Shaft 213 from CSO outfalls 210, 211, 213, and 214. Wet weather flow will be diverted from the OF-210, OF-211, and OF-213 to a new 48-inch consolidation conduit that will direct flow to Drop Shaft 213. Wet weather flow will be directed from OF-214 through a new 48-inch consolidation conduit to a new 60-inch consolidation conduit.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ -	**$ 1**	**$ 6,207**	**$ 16,377**	**$ 5,641**	**$ -**	**$ -**	**$ -**	**$ 28,226**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ 1	$ 211	$ 317	$ 105	$ -	$ -	$ -	$ 634
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	5,608	15,477	1,346	-	-	-	22,431
Contingency	-	-	-	-	3,995	-	-	-	3,995
Other	-	-	388	583	195	-	-	-	1,166
Total	**$ -**	**$ 1**	**$ 6,207**	**$ 16,377**	**$ 5,641**	**$ -**	**$ -**	**$ -**	**$ 28,226**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

30805

CSO Phase III A Facilities - OF 217

Project Manager: Rich Bernier, P.E.
Contractor(s): DiGregorio, Inc

Location: Pawtucket
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	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-21	January-23	12 Months	$18,851
Total Project	**December-21**	**January-23**	**12 Months**	**$18,851**

Photo: Outfall 217

This project includes the construction of a consolidation conduit to direct flow to the tunnel via Drop Shaft 213 from CSO outfalls 217. Wet weather flow will be diverted from OF-217 to a new 48-inch consolidation conduit that will ultimately direct flow to Drop Shaft 213.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ 3,121	**$ 11,657**	**$ 4,073**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 18,851**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 271	$ 304	$ 5	$ -	$ -	$ -	$ -	$ -	$ 580
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	2,500	10,980	2,068	-	-	-	-	-	15,548
Contingency	-	-	2,000	-	-	-	-	-	2,000
Other	350	373	-	-	-	-	-	-	723
Total	**$ 3,121**	**$ 11,657**	**$ 4,073**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 18,851**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

30807

CSO Phase III A Facilities - Regulator Modifications

Project Manager: Rich Bernier, P.E.
Contractor(s): John Rocchio Corp.

Location: Pawtucket
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	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-21	August-22	8 Months	$7,640
Total Project	**December-21**	**August-22**	**8 Months**	**$7,640**

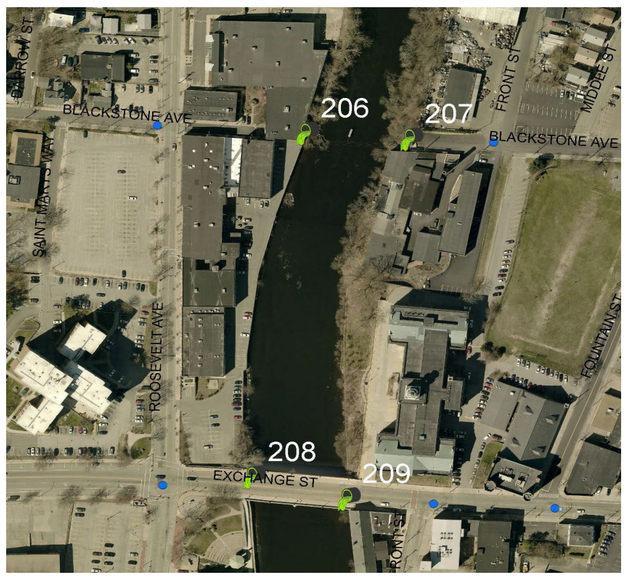


Photo: Outfall Locations

This project includes modifications at regulators for CSOs 203, 204, 207, 208, 209, 212, 215, and 216. Modifications are required in order to direct flow to the tunnel through consolidation conduits constructed in other Phase III projects.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ 1,508	**$ 6,107**	**$ 25**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 7,640**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 261	$ 211	$ 5	$ -	$ -	$ -	$ -	$ -	$ 477
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	1,147	2,853	20	-	-	-	-	-	4,020
Contingency	-	3,000	-	-	-	-	-	-	3,000
Other	100	43	-	-	-	-	-	-	143
Total	**$ 1,508**	**$ 6,107**	**$ 25**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 7,640**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

30809

CSO Phase III A - GSI Projects

Project Manager: Rich Bernier, P.E.
Contractor(s): J. H. Lynch & Sons

Location: Central Falls
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	November-19	June-24	55 Months	$9,164
Total Project	**November-19**	**June-24**	**55 Months**	**$9,164**

Photo: Example of Green Stormwater Infrastructure

This project entails the construction of green stormwater infrastructure in the City of Central Falls. GSI will be constructed in the CSO 101 and 103 sewersheds and will include tree box filters, bio-retention basins, infiltration chambers, and other facilities to promote infiltration of stormwater runoff to the groundwater table.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ 5,892	**$ 1,600**	**$ 1,672**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 9,164**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 259	$ 80	$ 79	$ -	$ -	$ -	$ -	$ -	$ 418
A/E Professional	1	-	-	-	-	-	-	-	1
Construction	5,625	960	1,040	-	-	-	-	-	7,625
Contingency	-	500	500	-	-	-	-	-	1,000
Other	7	60	53	-	-	-	-	-	120
Total	**$ 5,892**	**$ 1,600**	**$ 1,672**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 9,164**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

30810

CSO Phase III A Facilities - BPWWTF Clarifiers and Flow Splitters

Project Manager: Kathryn Kelly, P.E.
Contractor(s): TBD

Location: East Providence
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	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	January-23	May-25	28 Months	$47,026
Total Project	**January-23**	**May-25**	**28 Months**	**$47,026**

Photo: Existing Clarifiers at Bucklin Point

This project entails the construction of two new final clarifiers, modifications to the flow splitting operation, construction of a new RAS pump station for the new final clarifiers, and improvements to the RAS piping system and influent pump station.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ 2	**$ 1,385**	**$ 30,668**	**$ 14,971**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 47,026**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 2	$ 38	$ 851	$ 275	$ -	$ -	$ -	$ -	$ 1,166
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	1,274	28,353	9,173	-	-	-	-	38,800
Contingency	-	-	-	5,000	-	-	-	-	5,000
Other	-	73	1,464	523	-	-	-	-	2,060
Total	**$ 2**	**$ 1,385**	**$ 30,668**	**$ 14,971**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 47,026**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

30830

CSO Phase III B Facilities

Project Manager: Kathryn Kelly, P.E.
Contractor(s): N/A

Location: Central Falls, RI
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	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-28	June-31	30 Months	$28,484
Total Project	**December-28**	**June-31**	**30 Months**	**$28,484**

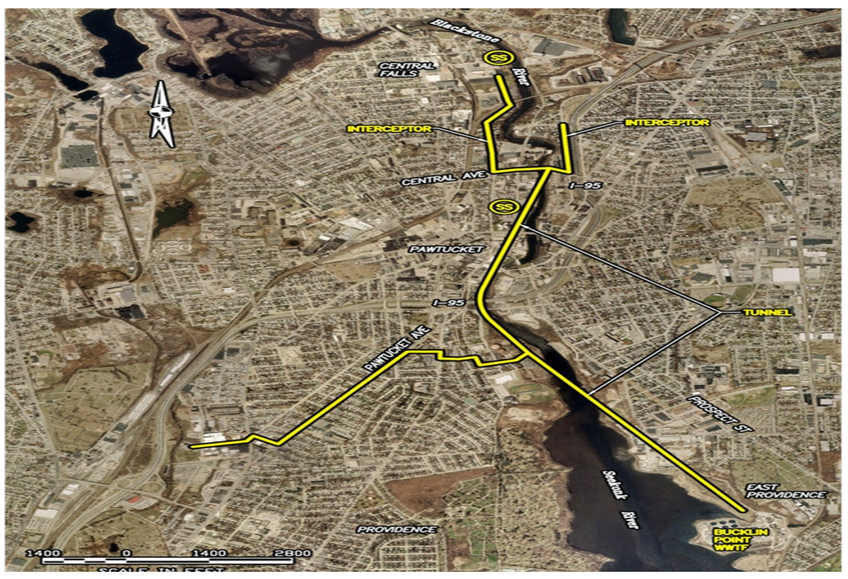


Photo: Proposed CSO Phase III B Facilities

Phase III B includes construction of upper BVI gate and screening structure, interceptor relief, and consolidation conduit. These interceptors will convey flow to the tunnel to be built in Phase III A. In addition, GSI facilities will be constructed to reduce storm inflow to the combined sewer system, and one sewer separation project will be included as part of Phase III B.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 28,484	$ 28,484

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 615	$ 615
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	26,433	26,433
Contingency	-	-	-	-	-	-	-	1,356	1,356
Other	-	-	-	-	-	-	-	80	80
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 28,484**	**$ 28,484**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

30850

CSO Phase III C Facilities

Project Manager: Kathryn Kelly, P.E.
Contractor(s): N/A

Location: Pawtucket, RI
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	May-32	June-34	26 Months	$23,120
Construction	April-34	June-37	39 Months	141,540
Total Project	**May-32**	**June-37**	**62 Months**	**$164,660**

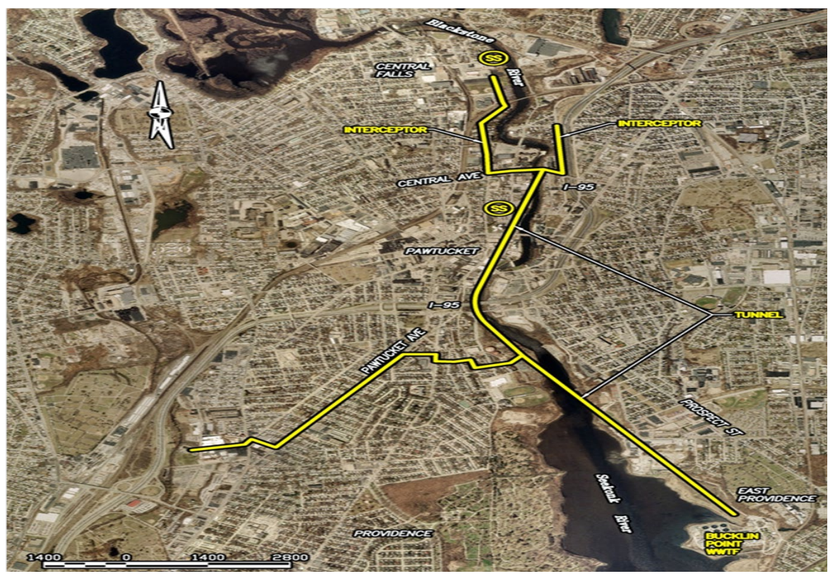


Photo: Proposed CSO Phase III C Facilities

Phase III C is to design and construct a stub tunnel that will convey flow from CSO 220 to the tunnel to be constructed in Phase III A. In addition, GSI facilities will be constructed to reduce storm water inflow to the combined sewers.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 164,660	$ 164,660

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 968	$ 968
Land	-	-	-	-	-	-	-	2,500	2,500
A/E Professional	-	-	-	-	-	-	-	14,440	14,440
Other	-	-	-	-	-	-	-	5,212	5,212
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 23,120**	**$ 23,120**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,160	$ 2,160
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	135,040	135,040
Contingency	-	-	-	-	-	-	-	3,360	3,360
Other	-	-	-	-	-	-	-	980	980
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 141,540**	**$ 141,540**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

30870

CSO Phase III D Facilities

Project Manager: Kathryn Kelly, P.E.
Contractor(s): N/A

Location: Providence, RI
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	April-37	September-39	29 Months	$13,180
Construction	August-39	December-41	28 Months	70,320
Total Project	**April-37**	**December-41**	**57 Months**	**$83,500**

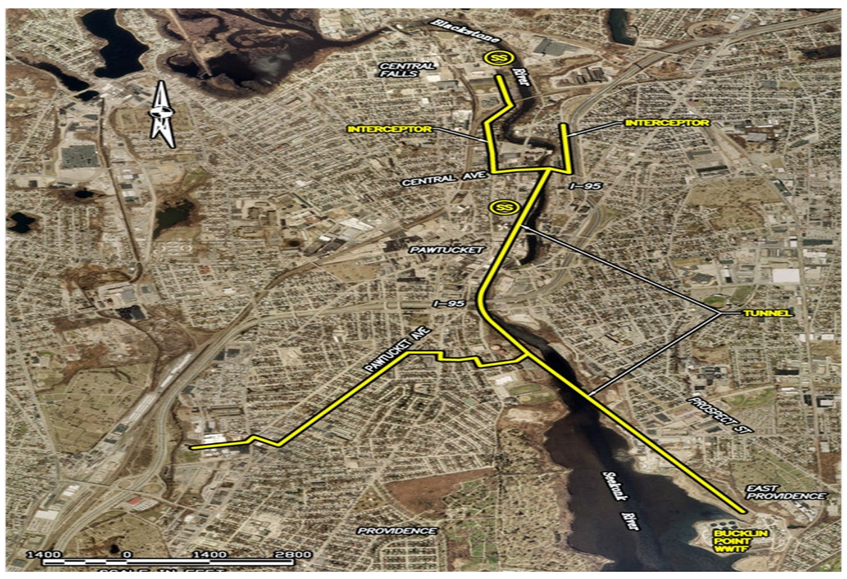


Photo: Proposed CSO Phase III D Facilities

Phase III D is to design and construct an interceptor that will store flow during a storm and later release the flow into the system as capacity allows. In addition, GSI facilities will be constructed to reduce storm water inflow to the combined sewer system. Storm sewers will be constructed to separate stormwater flow from the combined sewer.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 83,500	$ 83,500

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,110	$ 1,110
Land	-	-	-	-	-	-	-	1,000	1,000
A/E Professional	-	-	-	-	-	-	-	8,000	8,000
Other	-	-	-	-	-	-	-	3,070	3,070
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 13,180**	**$ 13,180**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,010	$ 1,010
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	67,760	67,760
Contingency	-	-	-	-	-	-	-	1,320	1,320
Other	-	-	-	-	-	-	-	230	230
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 70,320**	**$ 70,320**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

12400

Interceptor Maintenance Building

Project Manager: David Bowen, P.E.
Contractor(s): N/A

Location: Field's Point (Providence, RI)
Project Priority: C

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	June-23	June-25	24 Months	$875
Construction	June-25	June-27	24 Months	9,112
Total Project	**June-23**	**June-27**	**48 Months**	**$9,987**

Photo: Interceptor Maintenance Building

This project involves the design and construction of a new building that would be needed if NBC is required by legislation to assume ownership of lateral sewers currently owned by local communities within its district. The building will include an administrative area as well as a garage and storage yard.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ -	**$ 3**	**$ 326**	**$ 554**	**$ 3,282**	**$ 5,822**	**$ -**	**$ -**	**$ 9,987**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ 3	$ 51	$ 41	$ -	$ -	$ -	$ -	$ 95
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	255	495	-	-	-	-	750
Other	-	-	20	10	-	-	-	-	30
Total	**$ -**	**$ 3**	**$ 326**	**$ 546**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 875**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ 8	$ 151	$ 180	$ -	$ -	$ 339
A/E Professional	-	-	-	-	266	147	-	-	413
Construction	-	-	-	-	2,800	4,700	-	-	7,500
Contingency	-	-	-	-	-	750	-	-	750
Other	-	-	-	-	65	45	-	-	110
Total	**$ -**	**$ -**	**$ -**	**$ 8**	**$ 3,282**	**$ 5,822**	**$ -**	**$ -**	**$ 9,112**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	9,996	119,950
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ 9,996**	**$ 119,950**

30500

NBC Interceptor Easements Restoration, Various Locations

Project Manager: David Bowen, P.E.
Contractor(s): N/A

Location: NBC Service Area
Project Priority: B

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	September-22	January-24	16 Months	$465
Construction	November-23	July-25	20 Months	964
Total Project	**September-22**	**July-25**	**34 Months**	**$1,429**

Photo: Easement Clearing

This project involves verification of easement locations and clearing the easements in overland areas to ensure sufficient access and enable NBC to maintain the integrity of the collection system.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ 170	**$ 254**	**$ 272**	**$ 729**	**$ 4**	**$ -**	**$ -**	**$ -**	**$ 1,429**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ 54	$ 41	$ -	$ -	$ -	$ -	$ -	$ 95
Land	25	25	-	-	-	-	-	-	50
A/E Professional	135	165	-	-	-	-	-	-	300
Other	10	10	-	-	-	-	-	-	20
Total	**$ 170**	**$ 254**	**$ 41**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 465**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ 18	$ 55	$ 4	$ -	$ -	$ -	$ 77
A/E Professional	-	-	3	49	-	-	-	-	52
Construction	-	-	200	450	-	-	-	-	650
Contingency	-	-	-	140	-	-	-	-	140
Other	-	-	10	35	-	-	-	-	45
Total	**$ -**	**$ -**	**$ 231**	**$ 729**	**$ 4**	**$ -**	**$ -**	**$ -**	**$ 964**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

30610

NBC System-wide Regulator Modifications

Project Manager: David Bowen, P.E.
Contractor(s): TBD

Location: Fields Point WWTF
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	December-21	December-22	13 Months	$603
Construction	January-23	January-25	24 Months	3,126
Total Project	**December-21**	**January-25**	**37 Months**	**$3,729**

Photo: OF 056 Regulator on Vandewater Street

This project involves the design and construction of various regulator structure modifications to address known hydraulic capacity limitations within the NBC collection system. Regulator structure and gravity piping system modifications are needed to eliminate surcharging at Pitman Street, Silver Spring, Vandewater and other miscellaneous locations throughout the century old combined sewer system.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ 119	**$ 533**	**$ 1,712**	**$ 1,365**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 3,729**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 74	$ 71	$ -	$ -	$ -	$ -	$ -	$ -	$ 145
Land	-	100	-	-	-	-	-	-	100
A/E Professional	45	205	-	-	-	-	-	-	250
Other	-	108	-	-	-	-	-	-	108
Total	**$ 119**	**$ 484**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 603**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ 44	$ 218	$ 82	$ -	$ -	$ -	$ -	$ 344
A/E Professional	-	5	103	23	-	-	-	-	131
Construction	-	-	1,350	650	-	-	-	-	2,000
Contingency	-	-	-	600	-	-	-	-	600
Other	-	-	41	10	-	-	-	-	51
Total	**$ -**	**$ 49**	**$ 1,712**	**$ 1,365**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 3,126**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

70900

Omega Pump Station Improvements

Project Manager: David Bowen, P.E.
Contractor(s): TBD

Location: Omega Pump Station, East Providence, RI
Project Priority: B

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	November-18	July-23	56 Months	$677
Construction	June-23	August-25	27 Months	6,718
Total Project	**November-18**	**August-25**	**81 Months**	**$7,395**

Photo: Omega Pump Station

This project involves the evaluation, design and replacement of pumps, piping and valves at the Omega Pump Station, which were originally built in the 1950's and are nearing the end of their useful life. New screening and grit technology will shred and reduce the size of coarse solid materials of the wastewater and facilitate transport to the wastewater treatment facility. Additionally, the new technology will provide for the upgrade of the pump station to improve reliability of the motor control center and streamline operations.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ 20	**$ 631**	**$ 943**	**$ 3,955**	**$ 1,846**	**$ -**	**$ -**	**$ -**	**$ 7,395**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 20	$ 67	$ 6	$ -	$ -	$ -	$ -	$ -	$ 93
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	430	20	-	-	-	-	-	450
Other	-	134	-	-	-	-	-	-	134
Total	**$ 20**	**$ 631**	**$ 26**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 677**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ 101	$ 180	$ 25	$ -	$ -	$ -	$ 306
A/E Professional	-	-	116	109	21	-	-	-	246
Construction	-	-	675	3,600	225	-	-	-	4,500
Contingency	-	-	-	36	1,575	-	-	-	1,611
Other	-	-	25	30	-	-	-	-	55
Total	**$ -**	**$ -**	**$ 917**	**$ 3,955**	**$ 1,846**	**$ -**	**$ -**	**$ -**	**$ 6,718**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

304 M Summary

Interceptor Inspection and Cleaning

Project Manager: Mike Caruolo, P.E.
Contractor(s): Various

Location: NBC Service Area
Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	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	N/A	N/A	N/A	$4,364
Total Project	**January-00**	**January-00**	**0 Months**	**$4,364**

Photo: Interceptor Grit Removal

The 304 M project includes the inspection and cleaning of interceptors in order to maintain NBC's infrastructure and collection system. The inspections determine pipe condition and identify infrastructure issues. NBC allocates $500 thousand annually for inspections and cleaning in years that do not have specific projects identified to ensure resources are available. As new inspection and cleaning projects are identified, they will be given a unique project number.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ 856	$ 508	$ 500	$ 500	$ 500	$ 500	$ 500	$ 500	$ 4,364

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 86	$ 28	$ 39	$ 39	$ 39	$ 39	$ 39	$ 39	$ 348
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	612	400	375	375	375	375	375	375	3,262
Contingency	102	60	60	60	60	60	60	60	522
Other	56	20	26	26	26	26	26	26	232
Total	**$ 856**	**$ 508**	**$ 500**	**$ 500**	**$ 500**	**$ 500**	**$ 500**	**$ 500**	**$ 4,364**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

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30400C

Interceptor Restoration and Construction

Project Manager: Rich Bernier, P.E.
Contractor(s): Various

Location: NBC Service Area
Project Priority: B

Total Project Duration/Cost

Project Phase	Start Date	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	N/A	N/A	N/A	$6,420
Total Project	**January-00**	**January-00**	**0 Months**	**$6,420**

Photo: Proposed portion of Lincoln Interceptor Replacement

Project 30400C consists of funding programmed for potential restoration and construction to correct issues such as structural damage, aging or inaccessible infrastructure, odor control and emergency situations. NBC allocates $1.5 million annually for interceptor restoration and construction, in years that do not have specific projects identified to ensure resources are available. As new projects are identified, they will be given a unique project number.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ -	$ -	$ -	$ 421	$ 1,500	$ 1,500	$ 1,500	$ 1,500	$ 6,420

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ 68	$ 230	$ 230	$ 230	$ 230	$ 986
A/E Professional	-	-	-	48	578	578	578	578	2,360
Construction	-	-	-	254	558	558	558	558	2,486
Contingency	-	-	-	43	95	95	95	95	424
Other	-	-	-	8	39	39	39	39	164
Total	**$ -**	**$ -**	**$ -**	**$ 421**	**$ 1,500**	**$ 1,500**	**$ 1,500**	**$ 1,500**	**$ 6,420**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

30315

Woonasquatucket CSO OF 046 Improvements

Project Manager: Kathryn Kelly, P.E.
Contractor(s): TBD

Location: Providence
Project Priority: B

Total Project Duration/Cost

Project Phase	Start Date	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-23	October-24	17 Months	$3,738
Total Project	**June-23**	**October-24**	**17 Months**	**$3,738**

Photo: Proposed portion of Lincoln Interceptor Replacement

This project includes construction of facilities to eliminate surcharging from the Woonasquatucket CSO Interceptor during extreme wet weather events.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ 144	**$ 280**	**$ 2,236**	**$ 1,078**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 3,738**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 23	$ 51	$ 53	$ 22	$ -	$ -	$ -	$ -	$ 149
A/E Professional	105	229	225	113	-	-	-	-	672
Construction	15	-	1,640	820	-	-	-	-	2,475
Contingency	-	-	248	124	-	-	-	-	372
Other	1	-	70	-	-	-	-	-	71
Total	**$ 144**	**$ 280**	**$ 2,236**	**$ 1,078**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 3,738**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

30421

Louisquisset Pike Interceptor Improvements

Project Manager: David Bowen, P.E.
Contractor(s): N/A

Location: Lincoln, RI
Project Priority: D

Total Project Duration/Cost

Project Phase	Start Date	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	January-23	June-24	17 Months	$6,463
Total Project	**January-23**	**June-24**	**17 Months**	**$6,463**

Photo: Louisquisset Pike in Lincoln

This project involves the construction of a larger diameter interceptor in the northern section of the Town of Lincoln. The larger capacity pipe will accommodate the additional flow resulting from expected development.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ 2	**$ 43**	**$ 6,418**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 6,463**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 2	$ 20	$ 121	$ -	$ -	$ -	$ -	$ -	$ 143
A/E Professional	-	23	297	-	-	-	-	-	320
Construction	-	-	4,000	-	-	-	-	-	4,000
Contingency	-	-	1,400	-	-	-	-	-	1,400
Other	-	-	600	-	-	-	-	-	600
Total	**$ 2**	**$ 43**	**$ 6,418**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 6,463**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ 22,384	$ 268,610	$ 268,610	$ 268,610	$ 268,610	$ 268,610
Reduced Expense	-	-	-	-	-	-
Increased Expense	833	10,000	10,000	10,000	10,000	10,000
Net Impact on Operating Budget	**$ (21,551)**	**$ (258,610)**	**$ (258,610)**	**$ (258,610)**	**$ (258,610)**	**$ (258,610)**

30468C

Improvements to Interceptors FY 2022

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

Location: North Providence/Johnston
Project Priority: B

Total Project Duration/Cost

Project Phase	Start Date	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	January-22	December-22	10 Months	$2,602
Total Project	**January-22**	**December-22**	**10 Months**	**$2,602**

Photo: Construction on the Moshassuck Valley Interceptor

Rehabilitation work to various sewer pipes and manholes in Providence, North Providence and Johnston.

CIP Window Summary	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
	$ 52	**$ 2,550**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 2,602**

Projected Expenditures - Planning

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Design

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Projected Expenditures - Construction

Cost Category	Pre FY 23	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Post FY 28	Total
Administrative	$ 52	$ 250	$ -	$ -	$ -	$ -	$ -	$ -	$ 302
A/E Professional	-	-	-	-	-	-	-	-	-
Construction	-	2,000	-	-	-	-	-	-	2,000
Contingency	-	300	-	-	-	-	-	-	300
Other	-	-	-	-	-	-	-	-	-
Total	**$ 52**	**$ 2,550**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 2,602**

Note: Cash Flow Basis in Thousands

Operating Budget Impacts

	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Reduced Expense	-	-	-	-	-	-
Increased Expense	-	-	-	-	-	-
Net Impact on Operating Budget	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**