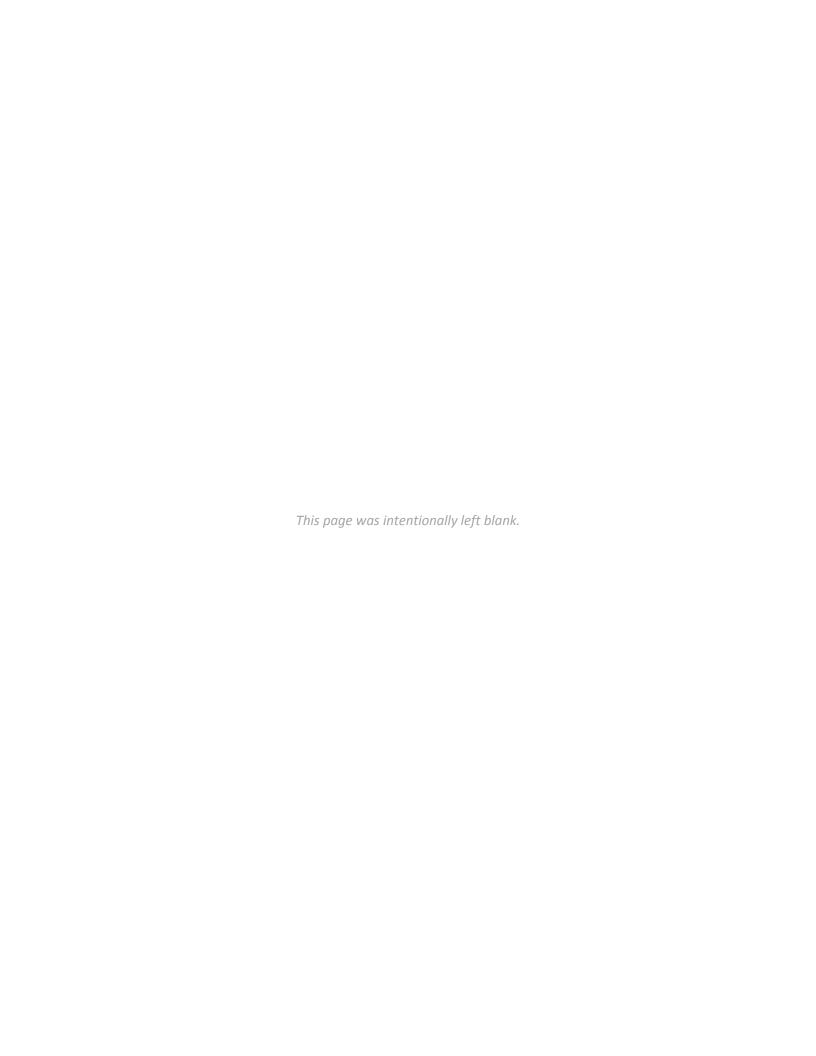
## **OPERATING CAPITAL PROGRAM**



## FISCAL YEAR 2019 - 2023

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## **Operating Capital Program**

#### **The Operating Capital Program**

This is the first year that the Narragansett Bay Commission (NBC) is presenting the Operating Capital Program (OCP) as a separate document for review and approval by NBC's Board of Commissioners. NBC funds operating capital from the Restricted Account – Operating Capital in the Project Fund. In prior years, operating capital was included as an operating budget expense item and the associated funding was shown as a transfer from operating capital revenue item. Historically, NBC has funded asset purchases from the Operation and Maintenance Fund and subsequently sought reimbursement from the Project Fund through the Trustee. Beginning in FY 2019, NBC will instruct the Trustee to directly pay for assets from the Restricted Account in the Project Fund. This is the same process that NBC uses for the payment of pay-as-you-go capital projects identified in the CIP.

NBC's OCP identifies programmed asset purchases for the current budget year and subsequent four 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, blowers, actuators, and bar racks. Additional 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 92 assets programmed for acquisition in FY 2019 at a total cost of approximately \$4.8 million. NBC has also programmed asset purchases in FY 2020 through FY 2023 of approximately \$10.4 million for a total of \$15.2 million over the five year period reflected in the Program. As is shown in the following table, the majority of the asset purchases, \$8.5 million or 56%, are for items required to support the wastewater treatment and collection functions in the Operations and Maintenance Division.

FY 2019 – 2023 Operating Capital Program

Division	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Total
Executive Affairs	\$ 1,450,000	\$ 475,000	\$ 200,000	\$ 440,000	\$ 200,000	\$ 2,765,000
Construction & Engineering	30,000	230,000	30,000	68,000	30,000	388,000
Administration & Finance	756,000	285,000	70,000	130,000	65,000	1,306,000
Operations & Maintenance	2,001,000	1,938,500	1,945,000	1,576,000	1,015,000	8,475,500
Environmental Science & Compliance	515,000	327,000	427,000	439,000	471,000	2,179,000
	\$ 4,752,000	\$ 3,255,500	\$ 2,672,000	\$2,653,000	\$1,781,000	\$ 15,113,500

#### **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. In order 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 This includes assets acquired as part of a capital assets. improvement project as well as assets purchased through the annual budget process. Detailed asset information is captured in the asset management system including an asset's location, cost, and useful life. 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 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. The asset maintenance history and useful life information assists with the determination of whether an asset should be repaired or replaced.



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 the implementation of new software applications, disaster recovery solutions, or network improvements. 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 four years to arrive at a five-year program.

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 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. The information is compiled and included for funding in the OCP for the budget year. 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 was authorized.



The OCP also reflects planned asset purchases for the subsequent four 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 section submits a five-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.

#### **Operating Capital Program Guidelines**

The development of the FY 2019 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 Calendar**

Development of the Operating Capital Program is as follows:

#### DECEMBER 2017

• Budget Forms Available

#### JANUARY 2018

- FY 2019 2023 Operating Capital Submittals due to Finance on January 10th
- Review Operating Capital Submittals for Asset Criteria and GL account code on January 19<sup>th</sup>

#### FEBRUARY 2018

• Operating Capital Budget Change Requests due to Finance on February 23rd

#### March 2018

- Incorporation of Operating Capital Submittals
- Operating Capital Narrative
- Addition of Enhancements to Operating Capital Program Document

#### **APRIL 2018**

- Final revisions and Operating Capital Program document preparation
- Finance Committee and Board Review and Approval of Operating Capital Program on April 10<sup>th</sup>

#### **Operating Capital Program Amendment Procedures**

During the fiscal year there may be a need to make changes to the operating capital budget to accommodate circumstances where the actual bids received for particular items are higher than budget amounts or where the installation of a new asset may require 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 Director of Administration and Finance may authorize changes in the operating capital budget as long as 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:

#### **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 is reviewed with the Director of Administration and Finance
- If approved, a new Asset Allocation number is assigned and operating capital funding is transferred.

#### **Emergencies:**

- 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. Form is reviewed with the Director of Administration and Finance.
  - <u>Capital Asset Criteria Met</u> funding is transferred in the operating capital budget and Asset Allocation number assigned.
  - <u>Capital Asset Criteria Not Met</u> purchase will be expensed in the operating budget.

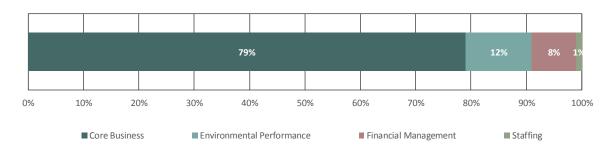
#### **Operating Capital Program by Strategic Objective**

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. NBC's Strategic Plan Goals are listed below.



Of the ninety-two FY 2019 budgeted capital assets, \$3.7 million or 79% are related to NBC's Core Business for infrastructure, applications and compliance. In addition, 12% relate to NBC's Environmental Performance Goal and represent sampling and laboratory analysis assets. The remaining assets are aligned with the Financial Management and Staffing goals. The following chart illustrates the percentage of budgeted assets by strategic goal.

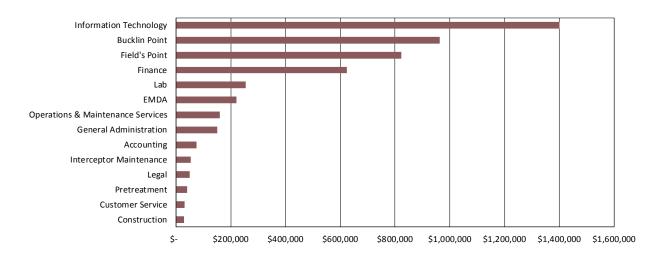
#### Percentage of Capital Assets by Strategic Goal



#### **Operating Capital Program by Cost Center**

The largest percentage of the FY 2019 operating capital is in the Information Technology (IT) section at \$1.4 million or 29%. This includes several hardware and software updates as well as the implementation of the new customer service application. The two wastewater treatment facility sections represent 37% of the programmed operating capital with \$964 thousand at Bucklin Point and \$823 thousand at Field's Point. NBC has prioritized the replacement of numerous pumps, vehicles, grinders, bar rack rebuilds and other equipment required to operate the facilities and maintain infrastructure. Finance represents 13% or \$625 thousand of the FY 2019 operating capital and the capital budget includes funding for a Wastewater System Cost Allocation and Recovery Study as well as the reconfiguration of the office space. The Laboratory and EMDA sections each represent 5% respectively for a total of \$475 thousand. Budgeted laboratory and sampling equipment includes

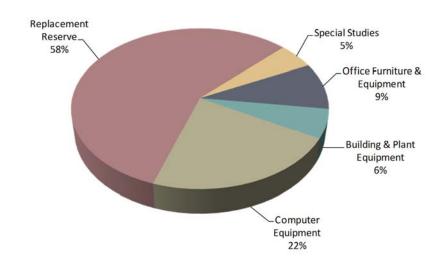
replacement of nutrient analyzers, water purification systems, plant samplers and monitoring sondes, probes and meters. The FY 2019 operating capital by cost center is reflected in the following chart.



FY 2019 Operating Capital by Cost Center

#### Fiscal Year 2019 Operating Capital Program by Type

The FY 2019 OCP identifies asset purchases totaling approximately \$4.8 million. The majority, or 58% of the assets are for Replacement Reserve items at \$2.8 million. Followed by the next largest category for Computer Equipment, representing approximately \$1.1 million or 22% of costs. Lastly, Office Furniture and Equipment, Building and Plant Equipment and Special Studies comprise 9%, 6% and 5% of the FY 2019 asset acquisitions.



FY 2019 Operating Capital by Type

NBC's strategic goal of maximizing technology and maintaining capability is exemplified with the programmed computer equipment purchases in FY 2019. The majority, or 47%, is related to the purchase and implementation of a new customer service application that will replace NBC's legacy system. The new system will employ technology to make NBC's business processes more efficient and enhance the customer experience

through expanded online capabilities. In addition, NBC has programmed an upgrade to Microsoft Office, the purchase of debt management software, and the installation of a redundant fiber connection.

Computer Equipment		Total	% of Total
Customer Service Application	\$	500,000	47%
Microsoft Office Upgrades		175,000	16%
Debt Management Application		110,000	10%
Computer Hardware and Software Upgrades		140,000	13%
Redundant Fiber Connection		55,000	5%
Other		100,000	9%
Total	\$:	1,080,000	100%

The following table shows NBC's FY 2019 programmed Replacement Reserve investments that ensures protection of assets and continuous operation. The majority of the Replacement Reserve items are comprised of pumps and vehicles at 17% and 13% respectively. Other significant items include computer hardware, sampling and analysis equipment, items needed to operate the treatment plants, and other items.

Replacement Reserve		Total	% of Total
Pumps	\$	446,000	17%
Vehicles		369,000	13%
Network Core Replacement		150,000	5%
Board Room Refresh		150,000	5%
Bar Rack Rebuilds		147,000	5%
Fixed Site Sondes		130,000	5%
SAN Switch		120,000	4%
Grinders		100,000	4%
BOD Skalar Analyzer		93,000	3%
Fresh Water Nutrient Analyzer		85,000	3%
Equipment 009 - Yard Sweeper		85,000	3%
Disaster Recovery Servers and Infrastructure		75,000	3%
Conveyor		75,000	3%
Annual PC Refresh Program		75,000	3%
Grit Tank Components		70,000	2%
Flow Meter		70,000	2%
HVAC Components		50,000	2%
Other		513,000	18%
Total	\$2	2,803,000	100%

With respect to the office furniture and equipment category, NBC has programmed \$331,000 for office reconfigurations and updates to ensure the space is conducive to departmental operational requirements.

Office Furniture & Equipment		Total	% of Total
Office Reconfiguration	\$	331,000	100%
Total	Ś	331.000	100%

NBC plans on purchasing new assets in the building and plant equipment category that will support operations and ensure core business goals are met. Dissolved oxygen sensors and probes to monitor wastewater as required by permit total \$90,000 and represent 32% of the total for this category. Pumps represent 24% and antennas and repeaters 10% of programmed investments to support treatment operations at both WWTFs.

Building & Plant Equipment		Total	% of Total
Dissolved Oxygen Sensors and Probes	\$	90,000	32%
Pumps		70,000	24%
Antennas & Repeaters		30,000	10%
Other		98,000	34%
Total	Ś	288.000	100%

Lastly, NBC has programmed \$250,000 in the Special Studies category for a wastewater system cost allocation and recovery study. This study will examine NBC's cost of service and explore alternative rate designs as part of NBC's financial management goals. NBC plans to file for a rate adjustment in the fall, which will be based upon the results of the study.

Special Studies	Total	% of Total
WW System Cost Allocation and Recovery Study	\$ 250,000	100%
Total	\$ 250,000	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, subsequent to fiscal year end, a calculation is made to determine the amount that can 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 Operating Capital and Capital Improvement Program Restricted Accounts.

The following table shows that in FY 2019, NBC plans to fund the OCP with \$4.8 million from the Restricted Account – Operating Capital in the Project Fund. NBC has also programmed funding of \$5.0 million per year for FY 2020 through FY 2024 for the OCP from this same source.

Sources of Funds (Thousands)	F۱	Y 2019	F۱	Y 2020	F	7 2021	F'	Y 2022	F۱	/ 2023	F'	Y 2024	FY 2	Total 2020-2024
Restricted Account-Operating Capital	\$	4,752	\$	5,000	\$	5,000	\$	5,000	\$	5,000	\$	5,000	\$	25,000
Total	\$	4,752	\$	5,000	\$	5,000	\$	5,000	\$	5,000	\$	5,000	\$	25,000

The FY 2019 programmed asset purchases total approximately \$4.8 million. In FY 2020 through FY 2024, NBC has programmed the acquisition of the assets identified in the OCP as well as an additional placeholder amount so that total programmed uses are \$5.0 million per year in the five year window.

Uses of Funds (Thousands)	FY	2019	F	Y 2020	F	Y 2021	F	Y 2022	F	Y 2023	F	Y 2024	FY 2	Total 2020-2024
Operating Capital Program	\$	4,752	\$	3,256	\$	2,672	\$	2,653	\$	1,781	\$	-	\$	10,362
Operating Capital Placeholder		-		1,744		2,328		2,347		3,219		5,000		14,638
Total	Ś	4.752	Ś	5.000	Ś	25.000								

## **Operating Capital Summary by Fiscal Year**

Asset Type	Asset Title	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Total Cost
EXECUTIVE AF	FAIRS						
<b>Legal</b> Betterment	Office Reconfiguration	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000
betterment	Subtotal Legal	50,000	- -	- -	- -	-	50,000
Information Te	echnology						
New	Customer Service Application	500,000	_	25,000	-	25,000	550,000
Replacement	Board Room Refresh	150,000	-	,	-		150,000
Replacement	Network Core	150,000	-	-	-	-	150,000
New	Microsoft Office Upgrade	125,000	-	-	-	-	125,000
Replacement	SAN Switch	120,000	-	-	-	-	120,000
Replacement	Disaster Recovery Servers and Infrastructure	75,000	75,000	75,000	75,000	75,000	375,000
Replacement	Annual PC Refresh Program	75,000	-	-	-	-	75,000
New	Redundant Fiber Connection	55,000	-	-	-	-	55,000
New	Microsoft Exchange Upgrade	50,000	-	-	-	-	50,000
New	Software Licensing Updates	40,000	40,000	40,000	40,000	40,000	200,000
New	Computer Room Enhancements	25,000	25,000	25,000	25,000	25,000	125,000
New	Conference Room Upgrades	25,000	25,000	25,000	25,000	25,000	125,000
New	Antivirus Updates	10,000	10,000	10,000	10,000	10,000	50,000
New	Bi-Annual Security Assessment	-	75,000	-	75,000	-	150,000
New	LIMS Enhancements	-	50,000	-	50,000	-	100,000
Replacement	Edge Switch Upgrades Oracle ERP/Database Enhancements	-	50,000 40,000	-	50,000 40,000	-	100,000 80,000
New Replacement	Large Form Scanner/Printer	-	35,000	-	40,000	-	35,000
New	Hansen Upgrades	_	25,000	_	25,000	_	50,000
New	Project Tracking Software		25,000	_	25,000	_	50,000
1404	Subtotal Information Technology	1,400,000	475,000	200.000	440,000	200,000	2,715,000
	Castetal injermation recimelegy	1, 100,000		200,000	1.0,000	200,000	
	N & ENGINEERING						
Construction Replacement	Vehicle 427	30,000	_	_	_	_	30,000
Betterment	Office Reconfiguration	50,000	200,000	_	_	_	200,000
Replacement	Vehicle 400	_	30,000	_	_	_	30,000
Replacement	Vehicle 388	_	-	30,000	-	_	30,000
Replacement	Vehicle 357	-	_	-	30,000	_	30,000
Replacement	Vehicle 343	-	-	-	-	30,000	30,000
	Subtotal Construction Services	30,000	230,000	30,000	30,000	30,000	350,000
Engineering							
Replacement	GPS Rover	-	-	-	25,000	-	25,000
Replacement	Survey Equipment	-	-	-	13,000	-	13,000
	Subtotal Engineering	-	-	-	38,000	-	38,000
ADMINISTRAT	ION & FINANCE						
Finance							
New	WW System Cost Allocation & Recovery Study	250,000	-	-	-	-	250,000
New	Debt Management Application	110,000	-	-	-	-	110,000
Betterment	Office Reconfiguration	100,000	-	-	-	-	100,000
New	Cash Management Application	40,000		-	-	-	40,000
New	Capital Budget Software	-	75,000	-	-	-	75,000
Replacement	Time & Attendance System	-	80,000	-	-		80,000
	Subtotal Finance	500,000	155,000	-	-	-	655,000
Accounting							
Betterment	Office Reconfiguration	75,000	-	-	-	-	75,000
	Subtotal Accounting	75,000	-	-	-	-	75,000
Customer Serv	rice						
Replacement	Vehicle 385	25,000	-	-	-	-	25,000
Replacement			F 000	F 000	5,000	5,000	26,00
New	Office Reconfiguration	6,000	5,000	5,000	3,000	2,000	-,
-		6,000 -	25,000	5,000	-	-	
New	Office Reconfiguration	6,000 - -	-	25,000		-	25,000 25,000
New Replacement	Office Reconfiguration Vehicle 377	6,000 - - -	-	-	- 25,000	-	25,000 25,000 25,000
New Replacement Replacement	Office Reconfiguration Vehicle 377 Vehicle 372	6,000 - - - -	25,000	-	· -	-	25,000 25,000

Asset Type	Asset Title	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Total Cost
General Admir	istration						
Betterment	Office Reconfiguration	100,000	-	-	-	-	100,000
Replacement	HVAC Components	50,000	-	-	-	-	50,000
Betterment	Office Reconfiguration	-	50,000	-	50,000	-	100,000
New	Phone System Upgrades	-	25,000	=	25,000	-	50,000
Replacement	Security - Camera	-	25,000	-	25,000	-	50,000
Replacement	Color Copier	-	-	40,000	-	-	40,000
Replacement	Water Heater	-	-	-	-	20,000	20,000
Replacement	Copier Subtotal General Administration	150,000	100,000	40,000	100,000	15,000 35,000	15,000 425,000
	Subtotul General Administration	130,000	100,000	40,000	100,000	33,000	423,000
OPERATIONS A	AND MAINTENANCE						
Interceptor Ma	aintenance						
Replacement	Equipment 007	37,000	-	-	-	-	37,000
Replacement	Pole Camera	17,000	-	-	-	-	17,000
Replacement	Vehicle 455	-	70,000	-	-	-	70,000
Replacement	HVAC Components	-	35,000	-	-	-	35,000
Replacement	Vehicle 355	-	-	35,000	-	-	35,000
Replacement Replacement	Vehicle 387 Vehicle 367	-	-	35,000	-	-	35,000 25,000
Replacement	Vehicle 376	_	_	25,000	140,000	-	140,000
Replacement	Vehicle 398	_	_	_ _	5,000	_	5,000
Replacement	Vehicle 338	-	-		3,000	40,000	40,000
Replacement	Vehicle 347	-	-	-	_	38,000	38,000
Replacement	Vehicle 459	-	-	-	-	16,000	16,000
Replacement	Vehicle 354	-	-	-	-	15,000	15,000
	Subtotal Interceptor Maintenance	54,000	105,000	95,000	145,000	109,000	508,000
Operations & I							
New	Computer System Upgrade	84,000	20,000	_	_	_	104,000
Replacement	Vehicle 442	35,000	-	-	-	-	35,000
Replacement	Flow Meter	25,000	-	-	-	-	25,000
New	Software Licensing Updates	16,000	70,000	-	-	-	86,000
	Subtotal Interceptor Maintenance	160,000	90,000	-	-	-	250,000
Field's Point							
Replacement	Bar Rack	147,000	_	_	_	150,000	297,000
Replacement	Grinders	100,000	_	-	_	-	100,000
Replacement	Equipment 009	85,000	-	-	-	-	85,000
Replacement	Grit Tank Components	70,000	-	-	-	95,000	165,000
Replacement	Vehicle 447	45,000	-	-	-	-	45,000
Replacement	Flow Meter	45,000	-	-	-	-	45,000
Replacement	Vehicle 487	40,000	-	-	-	-	40,000
Replacement	Hydraulic Controls	40,000	-	-	-	-	40,000
Replacement	RAS & Dewatering Pump	35,000	-	-	-	-	35,000
New	Antennas & Repeaters	30,000	-	-	-	-	30,000
Replacement	Metering Pump	27,000	-	-	-	-	27,000
Replacement Replacement	Hypo Pump and Motor Equipment 0026	25,000 22,000	-	-	-	-	25,000 22,000
Replacement	Equipment 0028	22,000	_	-	_	_	22,000
Replacement	Screw Pump Motor	20,000	_	_	_	_	20,000
New	Nitrate Analyzer	17,000	-	-	-	-	17,000
New	Grit Aeration Blower	15,000	_	-	_	_	15,000
New	Underflow Valve Actuator	15,000	-	-	-	-	15,000
Replacement	Automatic Self Cleaning Strainer	13,000	-	-	-	-	13,000
Replacement	Compressor	10,000	-	-	-	-	10,000
Replacement	Bar Rack	-	147,000	-	-	-	147,000
Replacement	Butterfly Valve	-	90,000	-	-	-	90,000
Replacement	Grit Tank	-	85,000	-	-	-	85,000
Replacement	Tank Turntable Assembly	-	75,000	-	-	-	75,000
Replacement	Gravity Thickener Pump	-	50,000	-	-	-	50,000
Replacement	Vehicle 405	-	30,000	-	-	-	30,000
Replacement	Vehicle 495	-	30,000 37,500	-	-	-	30,000 27,500
Replacement	Return Sludge Pump	-	27,500 27,000	<del>-</del>	-	-	27,500 27,000
Replacement Replacement	Metering Pump Equipment 0040	-	22,000	-	-	-	27,000
Replacement	Equipment 0069	- -	22,000	-	-	_	22,000
Replacement	Equipment 0070	-	22,000	-	_	_	22,000
	•		,				,

Asset Type	Asset Title	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Total Cost
Replacement	Nitrate Probe	-	16,000	-	_	-	16,000
Replacement	Equipment 004	-	14,000	-	-	-	14,000
Replacement	Wasting Pump	-	13,000	-	-	-	13,000
Replacement	Screw Pump Motor	-	12,000	-	-	-	12,000
Replacement	Analyzer	-	12,000	-	-	-	12,000
Replacement	Variable Frequency Drive	-	12,000	-	-	-	12,000
Replacement	Variable Frequency Drive	-	8,000	-	-	-	8,000
Replacement	TSS Meter	-	8,000	-	-	-	8,000
Replacement	pH Probe	-	8,000	-	-	-	8,000
New	Variable Frequency Drive	-	8,000	-	-	-	8,000
Replacement	LEL Gas Monitor Panel	-	7,000	-	-	-	7,000
Replacement	Vehicle 384	-	7,000	150,000	-	-	7,000
Replacement	Bar Rack	-	-	150,000	-	-	150,000
Rehabilitation Replacement	Grit Tank Vehicle 386	-	-	90,000 85,000	-	-	90,000 85,000
Replacement	Wet Weather Tank Components	_	-	75,000	-	-	75,000
Replacement	Pump Motors	_	<u>-</u>	50,000	_	50,000	100,000
Replacement	Vehicle 446	_	_	45,000	_	50,000	45,000
Replacement	Vehicle 446	_	_ _	40,000	_	_	40,000
Replacement	Sodium Bisulfite Tank	_	_	35,000	_	_	35,000
Replacement	Vehicle 375	_	_	35,000	_	_	35,000
Replacement	Vehicle 379	_	_	35,000	_	_	35,000
Replacement	Uninterrupted Power Supply	_	_	30,000	_	_	30,000
Replacement	Return Sludge Pump	-	_	30,000	-	-	30,000
Replacement	Flexim Flow Meters	-	_	25,000	_	-	25,000
Replacement	Equipment 0024	_	_	25,000	_	-	25,000
Replacement	Variable Frequency Drive	-	-	24,000	-	-	24,000
Replacement	Metering Pump	-	-	20,000	-	-	20,000
Replacement	Sludge Pump	-	-	19,000	-	-	19,000
Rehabilitation	Crane Rake and Components	-	-	18,000	-	-	18,000
Replacement	Wasting Pump	-	-	15,000	-	-	15,000
Rehabilitation	Hypo Storage Tank	-	-	12,000	-	-	12,000
Replacement	Variable Frequency Drive	-	-	12,000	-	-	12,000
Replacement	Ammonia Meter	-	-	10,000	-	-	10,000
Replacement	Equipment 0025	-	-	10,000	-	-	10,000
New	Variable Frequency Drive	-	-	7,000	-	-	7,000
Replacement	Hydroflow Screen	-	-	-	200,000	-	200,000
Replacement	Bar Rack	-	-	-	150,000	-	150,000
Rehabilitation	Grit Tank	-	-	-	90,000	-	90,000
Replacement	Process Control Unit	-	-	-	90,000	-	90,000
Replacement	Wet Weather Tank Components	-	-	-	80,000	-	80,000
Rehabilitation	Tunnel S1 Crane Recoating	-	-	-	50,000	-	50,000
Replacement	Sodium Bisulfite Tank	-	-	-	35,000	-	35,000
Replacement	Vehicle 366 Vehicle 486	-	-	-	35,000	-	35,000 35,000
Replacement Replacement	Grit Pump and Motor	_	_	-	35,000 30,000	_	30,000
Replacement	Flow Meters	_	_	_	25,000	-	25,000
Replacement	Sludge Pump	_	_	_	22,000	_	22,000
Replacement	Ammonia Probe	_	_	_	20,000	_	20,000
Replacement	Dewatering Pump and Motor	_	_	_	19,000	_	19,000
Rehabilitation	Crane Drive, Trolley Units and Drum Hoist	_	_	_	18,000	_	18,000
Replacement	Variable Frequency Drive	-	_	-	14,000	-	14,000
Replacement	Dewatering Pump	-	_	-	12,000	-	12,000
Replacement	Sewage Pump and Motor	-	_	-	-	210,000	210,000
Replacement	Tank Turntable Assembly	-	-	-	-	80,000	80,000
Replacement	Vehicle 485	-	-	-	-	75,000	75,000
Replacement	Vehicle 464	-	-	-	-	40,000	40,000
Replacement	Vehicle 360	-	-	-	-	35,000	35,000
Replacement	Sludge Pump	-	-	-	-	24,000	24,000
Replacement	Sludge Pump with Motor	-	-	-	-	20,000	20,000
Replacement	Copy Machine	-	-	-	-	8,500	8,500
Replacement	Copy Machine	-	-	-	-	8,500	8,500
Replacement	Tank Level Indicators		-	-	-	7,000	7,000
	Subtotal Field's Point	823,000	752,500	897,000	925,000	803,000	4,200,500

Asset Type	Asset Title	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Total Cost
Bucklin Point							
New	DO Sensors and Probes	90,000	-	-	-	-	90,000
Replacement	Conveyor	75,000	-	-	-	-	75,000
Replacement	Effluent Pumps	60,000	-	60,000	-	-	120,000
Replacement	Screw Pump Motor & Upper Bearing	60,000	-	-	-	-	60,000
Replacement	Flow Serve Pump	60,000	-	-	-	-	60,000
Replacement	Vehicle 418	45,000	-	-	-	-	45,000
Replacement	Vehicle 424	45,000	-	-	-	-	45,000
Replacement	Grit Pump	44,000	-	-	-	-	44,000
New	Thickener Wasting Pump	40,000	-	-	-	-	40,000
Replacement	Air Handling Unit	40,000 40,000	-	-	-	-	40,000
Replacement	Vehicle 378 Dewatering Building Roof	40,000	-	-	-	-	40,000 40,000
Replacement Replacement	Primary Sludge Pump	35,000	_	_	_	_	35,000
Replacement	Primary Scum Pump	35,000	_	_	_	_	35,000
New	Transfer Pump	30,000	_	_	_	_	30,000
Replacement	Dewatering Pump	25,000	-	_	-	_	25,000
Replacement	Equipment 0027	22,000	-	_	-	-	22,000
Replacement	Equipment 0046	22,000	-	_	-	-	22,000
Replacement	Equipment 0047	22,000	-	-	-	-	22,000
New	EIM Actuators & Gear Operators	20,000	-	-	-	-	20,000
Replacement	Hoist	15,000	-	-	-	-	15,000
New	Retrieval System	15,000	-	-	-	-	15,000
New	Diesel Mower	12,000	12,000	14,000	-	-	38,000
Replacement	60" Mower	10,000	-	-	-	-	10,000
Replacement	Hot Water Recycling Pump	10,000	-	-	-	-	10,000
Replacement	Hot Water Recycling Pump	10,000	-	-	-	-	10,000
Replacement	Equipment 0100A	10,000	-	-	-	-	10,000
New	Leaf Vac Trailer w/ Cyclone	8,000	-	-	-	-	8,000
New	Tripod Confined Space	8,000	-	-	-	-	8,000
Replacement	Truck Mounted Sander	8,000	-	-	-	-	8,000
Replacement Rehabilitation	Plow	8,000	200,000	-	-	-	8,000 200,000
New	Primary Digester Screw Pump Motor & Upper Bearing Assembly	-	60,000	_	_	_	60,000
Rehabilitation	Tank Screw Rebuild	-	60,000	_	_	_	60,000
Replacement	Vehicle 382	_	60,000	_	_	_	60,000
Replacement	Air Handling Unit	-	40,000	_	_	_	40,000
Replacement	Pumps	-	40,000	_	-	_	40,000
Replacement	Vehicle 444	_	40,000	_	-	-	40,000
Replacement	Grinders	-	35,000	35,000	-	40,000	110,000
Replacement	Dewatering Pump	-	35,000	-	-	-	35,000
Replacement	Collector Tank	-	32,000	32,000	35,000	35,000	134,000
New	Seal Water System	-	30,000	-	-	-	30,000
Replacement	DeWatering Pump	-	30,000	-	-	-	30,000
Replacement	Air Handling Unit	-	30,000	-	-	-	30,000
Replacement	Flushing Water Pumps	-	26,000	-	26,000	-	52,000
Replacement	UV Hydraulic Power System	-	25,000	25,000	-	-	50,000
Replacement	Grit Pump	-	25,000	-	-	-	25,000
Replacement	Hoist	-	25,000	-	-	-	25,000
Replacement	Equipment 0060	-	25,000	-	-	-	25,000
Replacement	Equipment 0039	-	22,000	-	-	-	22,000
Replacement Replacement	Equipment 0057 Turbo Blower Harmonic Filter	_	22,000 20,000	_	_	-	22,000 20,000
Replacement	UPS Unit / Battery Replacement Generator	_	20,000	_	_	_	20,000
Replacement	Sump Pumps	_	15,000	_	_	_	15,000
Replacement	Centrifugal Blower Cartridge	-	15,000	_	_	_	15,000
Replacement	Sludge Flow Meter	-	15,000	_	-	_	15,000
Replacement	Bubbler System/ Flow Meter	_	12,000	_	-	-	12,000
Replacement	Flow Meter, Bubbler, Gas Detection	-	12,000	-	-	-	12,000
Replacement	Plow	-	8,000	-	-	-	8,000
Rehabilitation	Primary Digester	-	-	200,000	-	-	200,000
Replacement	Sodium Hypo Tank	-	-	120,000	-	-	120,000
Replacement	Bar Rack	-	-	85,000	-	-	85,000
Rehabilitation	Tank Screw Rebuild	-	-	60,000	-	-	60,000
Replacement	Screening and Conveyor System	-	-	50,000	-	-	50,000
Replacement	Grit Collector Tank	-	-	40,000	-	-	40,000
Replacement	Vehicle 390	-	-	40,000	-	-	40,000

Asset Type	Asset Title		FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Total Cost
Replacement	Vehicle 479		_	-	40,000	_	_	40,000
Replacement	Grit and Screening Equipment		_	_	25,000	_	_	25,000
Replacement	Equipment 0061		_	_	25,000	-	-	25,000
Replacement	Equipment 0061		-	_	25,000	-	-	25,000
New	Scum Pump		-	-	20,000	-	-	20,000
Replacement	Equipment 406A		-	-	12,000	-	-	12,000
Replacement	Centrate Pump		-	-	10,000	-	-	10,000
Replacement	Equipment 0063		-	-	9,000	-	-	9,000
Replacement	Equipment 0064		-	-	9,000	-	-	9,000
Replacement	Equipment 0065		-	-	9,000	-	-	9,000
Replacement	Plow		-	-	8,000	-	-	8,000
Rehabilitation	Primary Digester		-	-	-	200,000	-	200,000
Replacement	Bar Rack		-	-	-	85,000	-	85,000
Replacement	Vehicle 356		-	-	-	40,000	-	40,000
Replacement	Hypo Pump		-	-	-	25,000	-	25,000
Replacement	Equipment 0066A		-	-	-	25,000	-	25,000
Replacement	Equipment 0067A		-	-	-	25,000 14,000	-	25,000 14,000
Replacement Replacement	EV368 Loader EV368 Mower		_	_	-	12,000	_	12,000
Replacement	EV368 Backhoe		_	_	_	10,000	_	10,000
Replacement	Copier		_	_	_	9,000	_	9,000
Replacement	UTV Probe		_	_	_	-	20,000	20,000
Replacement	Plow		_	_	_	-	8,000	8,000
		Subtotal Bucklin Point	964,000	991,000	953,000	506,000	103,000	3,517,000
		-						
ENVIRONMEN <sup>®</sup>	TAL SCIENCE & COMPLIANCE							
Pretreatment								
Replacement	Vehicle 423		30,000	-	-	-	-	30,000
Replacement	Window Blinds		10,000	-	-	-	-	10,000
Replacement	Vehicle 386		-	-	30,000	-	-	30,000
Replacement	Vehicle 371		-	-	-	-	30,000	30,000
		Subtotal Pretreatment _	40,000	-	30,000	-	30,000	100,000
Laboratory								
Replacement	BOD Skalar Analyzer		93,000	-	-	-	-	93,000
Replacement	Fresh Water Nutrient Analyzer		85,000	-	-	-	-	85,000
Replacement	TOC Analzer		37,000	-	-	-	-	37,000
Replacement	Water Purification Systems		28,000	-	-	-	-	28,000
Replacement	Microscope Camera System		12,000	-	-	-	-	12,000
Replacement	Automated Titration System		-	96,000	-	-	-	96,000
Replacement	Microbiology Microscope		-	50,000	-	-	-	50,000
Replacement	Autoclave Analytical Balances		-	49,000 23,000	-	-	-	49,000 23,000
Replacement Replacement	ICP-Trace		_	23,000	85,000	_	_	85,000 85,000
Replacement	Water Purification Systems		_	_	50,000	_	_	50,000
Replacement	Autoclave		_	_	49,000	_	_	49,000
Replacement	Mercury Analyzer		_	-	45,000	-	_	45,000
Replacement	Microbiology Incubators		-	-	25,000	-	-	25,000
Replacement	ICP-MS		-	-	-	160,000	-	160,000
Replacement	Salt Water Nutrient Analyzer		-	-	-	85,000	-	85,000
Replacement	Water Purification Systems		-	-	-	50,000	-	50,000
Replacement	Cyanide Analyzer		-	-	-	-	85,000	85,000
Replacement	ICP-IND		-	-	-	-	80,000	80,000
Replacement	GC-MS		-	-	-	-	80,000	80,000
Replacement	Oil and Grease Analyzer	<u>-</u>	-	-	-	-	52,000	52,000
		Subtotal Laboratory	255,000	218,000	254,000	295,000	297,000	1,319,000
EMDA								
Replacement	Fixed Site Sondes		130,000	50,000	50,000	50,000	50,000	330,000
Replacement	Vehicle 432		34,000	-	-	-	-	34,000
Replacement	Fixed Site Probes & Meter		30,000	32,000	32,000	32,000	32,000	158,000
Replacement	Refrigerated Plant Samplers		26,000	27,000	27,000	28,000	28,000	136,000
Replacement	Vehicle 369		-	-	34,000	-	-	34,000
Replacement	Vehicle 365		-	-	-	34,000	-	34,000
Replacement	Vehicle 432	<u></u>	-	-	-	-	34,000	34,000
		Subtotal EMDA	220,000	109,000	143,000	144,000	144,000	760,000

\$4,752,000 \$3,255,500 \$2,672,000 \$2,653,000 \$1,781,000 \$15,113,500

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## **FY 2019 Operating Capital**

Budget Account	Allocation	Asset Type	Asset Title	Asset Description	Approved Budget
XECUTIVE A	AFFAIRS		_		
Legal	40.004.004		2000	N 65 10	
16580	19-024-001	Betterment	Office Reconfiguration	New office space for 3rd floor  Subtotal Legal	\$ 50,00 50,00
	n Technology				
16584 16600	19-033-001		Customer Service Application Board Room Refresh	Implementation of new 3rd party billing system application	500,00 150,00
16600		Replacement Replacement	Network Core Replacement	Audio & visual technologies in the Board room  Network routing core for all of NBC's network traffic	150,00
16584	19-033-003	•	Microsoft Office Upgrade	Upgrade to latest version of Microsoft Office	125,00
16600		Replacement	SAN Switch Replacement	Storage Area Network switches	120,00
16600		Replacement	Disaster Recovery Servers and Infrastructure	Restores technology infrastructure and operations	75,00
16600	19-033-007	Replacement	Annual PC Refresh Program	Laptops, desktops and monitors	75,00
16584	19-033-008	New	Redundant Fiber Connection	Install redundant physical paths for the internet connection	55,00
16584	19-033-009	New	Microsoft Exchange Upgrade	Upgrade to the latest version of Exchange email	50,00
16584	19-033-010	New	Software Licensing Updates	Purchase new software for network applications	40,00
16584	19-033-011		Computer Room Enhancements	Computer room hardware	25,00
16584	19-033-012		Conference Room Upgrades	Upgrade audio & visual technology in the conference rooms	25,00
16584	19-033-013	New	Antivirus Updates	Antivirus software upgrades	10,00
				Subtotal Information Technology	1,400,00
				Subtotal Executive Affairs	1,450,00
	ION & ENGINE	ERING	_		
Construction 16600		Replacement	Vehicle 427	2007 Ford Escape used to conduct NBC business	30,00
10000	19-022-001	Replacement	Venicle 427	Subtotal Construction Services	30,00
				Subtotal Construction & Engineering	30,00
					20,0
	ATION & FINAI	NCE	_		
Finance 16620	19-031-001	New	WW System Cost Allocation & Recovery Study	Develop rate structure of sewer user charges	250,00
16584	19-031-002		Debt Management Application	Treasury management software	110,00
16580		Betterment	Office Reconfiguration	Reconfigure and update the office space on the 2nd floor	100,00
16584	19-031-004	New	Cash Management Application	Cash management software	40,00
				Subtotal Finance	500,00
Accounting	S				
16580	19-032-001	Betterment	Office Reconfiguration	Reconfigure and update the Accounting Dept. on the 2nd floor	75,00
				Subtotal Accounting	75,00
Customer S	Service				
16600		Replacement	Vehicle 385	2009 Ford Ranger used to conduct NBC business	
16580	19-034-002	New	Office Reconfiguration	Additional office equipment for new Customer Service system	25,00
				Subtotal Customer Service	6,00
General Ac	Iministration			Subtotal Customer Service	6,00
General Ac		Betterment	Office Reconfiguration	Subtotal Customer Service  Remodel office areas	6,00 31,00
	19-080-001	Betterment Replacement	Office Reconfiguration HVAC Components		6,00 31,00 100,00
16580	19-080-001			Remodel office areas	6,00 31,00 100,00 50,00
16580	19-080-001			Remodel office areas Heating, ventilation and air conditioning roof components	6,00 31,00 100,00 50,00
16580 16600	19-080-001 19-080-002	Replacement		Remodel office areas Heating, ventilation and air conditioning roof components Subtotal General Administration	6,00 31,00 100,00 50,00
16580 16600 DPERATION:	19-080-001 19-080-002	Replacement  ENANCE		Remodel office areas Heating, ventilation and air conditioning roof components Subtotal General Administration	6,00 31,00 100,00 50,00
16580 16600 DPERATION:	19-080-001 19-080-002 S AND MAINTE	Replacement  ENANCE		Remodel office areas Heating, ventilation and air conditioning roof components Subtotal General Administration	25,00 6,00 31,00 100,00 50,00 150,00 756,00
16580 16600 DPERATIONS	19-080-001 19-080-002 S AND MAINTE r Maintenance 19-043-001	Replacement  ENANCE	HVAC Components	Remodel office areas Heating, ventilation and air conditioning roof components Subtotal General Administration  Subtotal Administration & Finance	6,00 31,00 100,00 50,00 150,00 <b>756,00</b>
16580 16600 PERATION: Intercepto 16600	19-080-001 19-080-002 S AND MAINTE r Maintenance 19-043-001	Replacement  ENANCE  Replacement	HVAC Components  Equipment 007	Remodel office areas Heating, ventilation and air conditioning roof components Subtotal General Administration  Subtotal Administration & Finance  Skid Steer Loade	5,00 100,00 50,00 150,00 756,00 37,00 17,00
16580 16600 PERATION: Intercepto 16600 16600	19-080-001 19-080-002 S AND MAINTE r Maintenance 19-043-001	Replacement  ENANCE  Replacement Replacement	HVAC Components  Equipment 007	Remodel office areas Heating, ventilation and air conditioning roof components Subtotal General Administration  Subtotal Administration & Finance  Skid Steer Loade High resolution camera	5,00 100,00 50,00 150,00 756,00 37,00 17,00
16580 16600 DPERATION: Intercepto 16600 16600	19-080-001 19-080-002 5 AND MAINTE r Maintenance 19-043-001 19-043-002	Replacement  Replacement Replacement Replacement	HVAC Components  Equipment 007	Remodel office areas Heating, ventilation and air conditioning roof components Subtotal General Administration  Subtotal Administration & Finance  Skid Steer Loade High resolution camera	6,00 31,00 100,00 50,00 150,00 756,00 37,00 54,00
DPERATION: Intercepto 16600 Operations	19-080-001 19-080-002 5 AND MAINTE r Maintenance 19-043-001 19-043-002 6 & Maintenance 19-044-001	Replacement  Replacement Replacement Replacement	HVAC Components  Equipment 007 Pole Camera	Remodel office areas Heating, ventilation and air conditioning roof components Subtotal General Administration  Subtotal Administration & Finance  Skid Steer Loade High resolution camera  Subtotal Interceptor Maintenance	6,00 31,00 100,00 50,00 150,00 <b>756,00</b>
DPERATIONS Intercepto 16600 Operations 16584	19-080-001 19-080-002 5 AND MAINTE Maintenance 19-043-001 19-043-002 6 & Maintenan 19-044-001 19-044-002	Replacement Replacement Replacement Coe Services New	HVAC Components  Equipment 007 Pole Camera  Computer System Upgrade	Remodel office areas Heating, ventilation and air conditioning roof components Subtotal General Administration  Subtotal Administration & Finance  Skid Steer Loade High resolution camera Subtotal Interceptor Maintenance  Upgrade to the Scada Computer System	6,00 31,00 100,00 50,00 150,00 756,00 37,00 17,00 54,00
16580 16600 DPERATION: Intercepto 16600 16600 Operations 16584 16600	19-080-001 19-080-002 5 AND MAINTE Maintenance 19-043-001 19-043-002 6 & Maintenan 19-044-001 19-044-002	Replacement Replacement Replacement Replacement New Replacement Replacement Replacement	Equipment 007 Pole Camera  Computer System Upgrade Vehicle 442	Remodel office areas Heating, ventilation and air conditioning roof components Subtotal General Administration  Subtotal Administration & Finance  Skid Steer Loade High resolution camera Subtotal Interceptor Maintenance  Upgrade to the Scada Computer System 2006 F150 pickup used to conduct NBC business	50,00 100,00 50,00 150,00 756,00 37,00 54,00 84,00 35,00

Budget					Approved
Account	Allocation	Asset Type	Asset Title	Asset Description	Budget
Field's Poir	nt				
16600		Replacement	Bar Rack	Rebuild influent screening bar rack	147,000
16600		Replacement	Grinders	Grinders that macerate larger items in sewer influent	100,000
16600		Replacement	Equipment 009	Yard sweeper	85,000
16600		Replacement	Grit Tank Components	Grit tank components which remove inorganic material	70,000
16600		Replacement	Vehicle 447	2006 pickup used to conduct NBC business	45,000
16600		Replacement	Flow Meter	Flow meter equipment	45,000
16600	19-046-007	Replacement	Vehicle 487	2004 E250 van used to conduct NBC business	40,000
16600	19-046-008	Replacement	Hydraulic Controls	Influent and effluent gate controls	40,000
16600	19-046-009	Replacement	RAS & Dewatering Pump	Final clarifier pump #4	35,000
16520	19-046-010	New	Antennas & Repeaters	Antennas and repeaters for site communications	30,000
16600	19-046-011	Replacement	Metering Pump	Sodium bisulfite metering pump #2	27,000
16600	19-046-012	Replacement	Hypo Pump and Motor	Hypochlorite pump and motor	25,000
16600	19-046-013	Replacement	Equipment 026	EZ Go Utility Terrain Vehicle	22,000
16600	19-046-014	Replacement	Equipment 028	EZ Go Utility Terrain Vehicle	22,000
16600	19-046-015	Replacement	Screw Pump Motor	Blower building screw lift pump motor #1	20,000
16520	19-046-016	New	Nitrate Analyzer	Analyze levels of nitrates in sewage	17,000
16520	19-046-017	New	Grit Aeration Blower	Aeration grit blower	15,000
16520	19-046-018	New	Underflow Valve Actuator	Valve actuator on final tank #4	15,000
16600	19-046-019	Replacement	Automatic Self Cleaning Strainer	Self cleaning strainer	13,000
16600	19-046-020	Replacement	Compressor	Compressor at Tunnel Pump Station	10,000
				Subtotal Field's Point	823,000
Bucklin Po	int				
16520	19-047-001	New	DO Sensors and Probes	Monitoring sensors and probes	90,000
16600		Replacement	Conveyor	Grit and screenings transport conveyor	75,000
16600		Replacement	Effluent Pumps	Pumps 1 & 2 at the Dry Weather Effluent Pump Station	60,000
16600		Replacement	Screw Pump Motor & Upper Bearing	Screw pump #4 motor and upper bearing assemblies	60,000
16600		Replacement	Flow Serve Pump	Vertical dry pit pedestal chopper pump at Omega Pump Station	60,000
16600		Replacement	Vehicle 418	2006 Chevrolet box van used to conduct NBC business	45,000
16600		Replacement	Vehicle 424	2005 Chevrolet Equinox used to conduct NBC business	45,000
16600		Replacement	Grit Pump	Grit pumps 2 & 4 at Screening and Grit Building	44,000
16520	19-047-009	New	Thickener Wasting Pump	Sludge thickener wasting pump	40,000
16600	19-047-010	Replacement	Air Handling Unit	Saylesville Pump Station exhaust fan	40,000
16600	19-047-011	Replacement	Vehicle 378	2010 Ford F250 Pickup used to conduct NBC business	40,000
16600	19-047-012	Replacement	Dewatering Building Roof	Roof on dewatering building	40,000
16600	19-047-013	Replacement	Primary Sludge Pump	Sludge pump #3 at Dry Weather Primary Sludge Pump Station	35,000
16600	19-047-014	Replacement	Primary Scum Pump	Scum pump #2 at Dry Weather Primary Sludge Pump Station	35,000
16520	19-047-015	New	Transfer Pump	Transfer pump used in solids handling	30,000
16600	19-047-016	Replacement	Dewatering Pump	De-water pump #3 at Wet Weather De-Watering Pump Station	25,000
16600	19-047-017	Replacement	Equipment 0027	EZ Go Utility Terrain Vehicle	22,000
16600	19-047-018	Replacement	Equipment 0046	EZ Go Utility Terrain Vehicle	22,000
16600		Replacement	Equipment 0047	EZ Go Utility Terrain Vehicle	22,000
16520	19-047-020		EIM Actuators & Gear Operators	Blower building EIM actuators and gear operators	20,000
16520	19-047-021		Hoist Retrieval System	Confined space hoist retrieval system	15,000
16600		Replacement	Hoist	2 ton heavy equipment hoist	15,000
16600		Replacement	Diesel Mower	Mower used for grounds keeping	12,000
16600		Replacement	60" Mower	Husqvarna mower used for grounds keeping	10,000
16600		Replacement	Hot Water Recycling Pump	Heat Exchange Building hot water recycling pump 1	10,000
16600		Replacement	Hot Water Recycling Pump	Heat Exchange Building hot water recycling pump 6	10,000
16600		Replacement	Equipment 0100A	Truck mounted salt/sander	10,000
16520	19-047-028		Leaf Vac Trailer w/ Cyclone	Grounds keeping leaf vacuum system	8,000
16520	19-047-029		Tripod Confined Space	Confined space tripod unit	8,000
16600		Replacement	Equipment 0101A	Truck mounted salt/sander	8,000
16600	19-047-031	Replacement	Equipment Vehicle 382	Plow assembly	8,000
				Subtotal Bucklin Point	964,000
				Subtotal Operations & Maintenance	2,001,000

Budget Account	Allocation	Asset Type	Asset Title	Asset Description	Approved Budget
ENVIRONME	NTAL SCIENCE	& COMPLIANCE		·	
Pretreatme	ent		_		
16600	19-052-001	Replacement	Vehicle 423	2007 Ford Escape used to conduct NBC business	30,000
16600	19-052-002	Replacement	Window Blinds	Pretreatment Building window blinds	10,000
		·		Subtotal Laboratory	40,000
Laboratory					
16600	19-053-001	Replacement	BOD Skalar Analyzer	Biochemical oxygen demand analyzer system	93,000
16600	19-053-002	Replacement	Fresh Water Nutrient Analyzer	Nitrogen testing analyzer	
16600	19-053-003	Replacement	TOC Analyzer	Total organic carbon testing analyzer	
16600	19-053-004	Replacement	Water Purification Systems	Water purification systems	28,000
16600	19-053-005	Replacement	Microscope Camera System	Wastewater and sea water analysis camera system	12,000
				Subtotal Laboratory	255,000
EMDA					
16600	19-055-001	Replacement	Fixed Site Sondes	Buoy stations sondes and equipment	130,000
16600	19-055-002	Replacement	Vehicle 432	2008 Ford E-150 van used to conduct NBC business	34,000
16600	19-055-003	Replacement	Fixed Site Probes & Meter	Nutrient sampling probes, meters and associated equipment	30,000
16600	19-055-004	Replacement	Refrigerated Autosamplers	Refrigerated autosamplers	26,000
				Subtotal EMDA	220,000
				Subtotal Environmental Science & Compliance	515,000

Total Operating Capital FY 2018 \$ 4,752,000

Asset Allocation No. Asset Title Asset Location  Need identified:	19-024-001 Office Reconfiguration COB  Asset Management	<b>▼</b> Inspection	Cost Center: Amount:			\$	Legal 50,000
Reconfigure and update of work conducted.	office space in the legal department on tl	he 3rd floor to allow for a	- dditional staff a	and make it n	nore conduci	ve to	o the
Budget Account	16580 Office Furniture & Equipment						
Туре:	BETTERMENT						
Asset Allocation No. Asset Title Asset Location	19-033-001 Customer Service Application COB	d useful life: 20 Years	Cost Center: Amount:	Useful life: _	20 Years		nology 500,000
Need identified:	☐ Asset Management	□Inspection	Other	Need Based			
Implement a new 3rd par	rty billing system application.						
Budget Account	16584 Computer Equipment						
Type:	NEW Original estimate	ducatulitar N/A		المماريا انام	10 Voors		

Asset Allocation No. Asset Title Asset Location	19-033-002 Board Room Refresh COB			Cost Center: Amount:		Information Technology \$ 150,000
Need identified:	Asset Managemer	nt 🗆 Ins	pection	✓ Other	Need Based	
Refresh audio & visual te	chnologies in the Board roc	om.				
Budget Account	16600 Replacement Rese	rve				
Туре:	REPLACEMENT					
Original date in service:	Orig	ginal estimated useful	life: 10 Years	-	Useful life:	10 Years
	10 022 002					
Asset Allocation No. Asset Title Asset Location	19-033-003 Network Core Replace	ment		Cost Center: Amount:		Information Technology \$ 150,000
Need identified:	Asset Managemer	nt 🗆 Ins	pection	☐ Other		
Replace current network	routing cores, used to do the	he core routing of net	work traffic, that	are beyond th	eir lifecycle.	
Budget Account	16600 Replacement Rese	rve				
Type: Original date in service:	REPLACEMENT 2009 Orig	ginal estimated useful	life: 10 Years		Useful life:	10 Years

Asset Allocation No.	19-033-004							
Asset Title	Microsoft Office U	pgrade		Cost Center		Information		
Asset Location	СОВ			Amount			\$	125,000
Need identified:	☐ Asset Manage	ement	□ Inspection	Other	Need Based			
Upgrade to latest version	of Microsoft Office ap	plication.						
Budget Account	16584 Computer Equ	ipment						
Type:	NEW							
Original date in service:	N/A	Original estimated	d useful life: N/A		Useful life:	5 Years		
Asset Allocation No.	19-033-005							
Asset Title	SAN Switch Replace	rement		Cost Center		Information	ı Tec	hnology
Asset Location	СОВ			Amount		mormation		120,000
Need identified:	Asset Manage	ement	□Inspection	☐ Other				
Replace end of life Storag	ge Area Network switch	nes.						
Budget Account	16600 Replacement	Reserve						
Type:	REPLACEMENT							
Original date in service:	2012	Original estimated	d useful life: 5 Years	5	Useful life:	5 Years		

Asset Allocation No.	19-033-006								
Asset Title	<b>Disaster Recovery</b>	Site Servers and	Infrastructu	ıre	Cost Center:		Information		
Asset Location	СОВ				Amount:			\$	75,000
Need identified:	☐ Asset Manage	ement	□Inspecti	on	Other	Need Based			
Disaster recovery infrastr disaster or service interru Budget Account			ycle. This will	ensure the	site is able to	handle the no	etwork load	shoul	d a
Type:	REPLACEMENT								
Original date in service:	2013	Original estimated	d useful life: _	5 Years		Useful life:	5 Years		
	40.000.007								
Asset Allocation No.	19-033-007	Duaguan			Cost Center:		If +!		
Asset Title Asset Location	Annual PC Refresh Various	Program			Amount:		Information	\$	75,000
Need identified:	✓ Asset Manage	ement	□Inspecti	on	☐ Other				
Replace various laptops,	desktops and monitors  16600 Replacement I		lifecycle.						
Type:	REPLACEMENT								
Original date in service:	2014	Original estimated	d useful life: _	5 Years	_	Useful life:	5 Years		

Asset Allocation No.	19-033-008			
Asset Title	Redundant Fiber Connec	tion	Cost Center:	Information Technology
Asset Location	СОВ		Amount:	\$ 55,000
Need identified:	Asset Management	☐ Inspection	Other Need Based	l
Install redundant physica	paths for the internet connec	ction to ensure no single point of	f failure to internet connections	between facilities.
Budget Account	16584 Computer Equipment			
Туре:	NEW			
Original date in service:	N/A Origina	al estimated useful life: N/A	Useful life:	10 Years
Asset Allocation No.	19-033-009			
Asset Title Asset Location	Microsoft Exchange Upgr	rade	Cost Center:	Information Technology
Asset Location		_	Amount:	\$ 50,000
Need identified:	Asset Management	☐ Inspection	Other Need Based	<u> </u>
Upgrade to the latest ver	sion of Exchange email to keep	o current with latest software ve	rsions.	
Budget Account	16584 Computer Equipment			
Туре:	NEW			
Original date in service:	N/A Origina	al estimated useful life: N/A	Useful life:	5 Years

Asset Allocation No.	19-033-010						
Asset Title	Software Licensing Updates		Cost Center:		Information		nology
Asset Location	СОВ		Amount:			\$	40,000
		_					
Need identified:	☐ Asset Management	☐ Inspection	Other	Need Based			
Purchase new software for	or various network applications.						
Budget Account	16584 Computer Equipment						
Type:	NEW						
Original date in service:	N/A Original estin	nated useful life: N/A	<u> </u>	Useful life:	5 Years		
Asset Allocation No.	19-033-011						_
Asset Title	Computer Room Enhancement	ts	Cost Center:		Information	Tech	nology
Asset Location	СОВ		Amount:			\$	25,000
Need identified:	Asset Management	□ Inspection	✓ Other	Need Based			
Computer room hardwar	e to ensure efficient operations.						
Budget Account	16584 Computer Equipment						
Туре:	NEW						
Original date in service:	N/A Original estin	nated useful life: N/A	_	Useful life:	5 Years		

Asset Allocation No.	19-033-012			
Asset Title	Conference Room Upgrade	s	Cost Center:	Information Technology
Asset Location	СОВ		Amount:	\$ 25,000
Need identified:	☐ Asset Management	$\square$ Inspection	Other Need	Based
Upgrade conference roor	ns audio & visual technology.			
Budget Account	16584 Computer Equipment			
Type:	NEW			
Original date in service:	N/A Original e	estimated useful life: N/A	Useful	life: 5 Years
Asset Allocation No.	19-033-013			
Asset Title Asset Location	Antivirus Updates COB		Cost Center: Amount:	Information Technology \$ 10,000
	_		=	
Need identified:	☐ Asset Management	Inspection	Other Need I	Based
Antivirus software upgrad	des to correlate with implementa	tion of new technologies.		
Budget Account	16584 Computer Equipment			
Туре:	NEW			
Original date in service:	N/A Original 6	estimated useful life: N/A	Useful	life: 5 Years

Asset Allocation No.	19-022-001								
Asset Title	Vehicle 427				Cost Center		Constru	ction	Services
Asset Location	Bucklin Point				Amount			\$	30,000
			_						
Need identified:	☐ Asset Manage	ement	✓ Inspection	on	Other				
Replace 2007 Ford Escap	e used to conduct NBC	business.							
Budget Account	16600 Replacement	Reserve							
Type:	REPLACEMENT								
Original date in service:	2007	Original estimate	d useful life:	10 Years	_	Useful life:	10 Years	_	
Asset Allocation No.	19-031-001								
Asset Title	WW System Cost	Allocation & Rec	overy Study		Cost Center				Finance
Asset Location	COB	Anocation & Rec	overy study		Amount			\$	250,000
Need identified:	☐ Asset Manage	ement	□Inspectio	on	✓ Other	Need Based			
Develop a rate structure			ough a system	of sewer u	ser charges.				
Budget Account	16620 Special Studie	S							
Туре:	NEW								
Original date in service:	N/A	Original estimated	d useful life:	N/A	_	Useful life:	5 Years	_	

Asset Allocation No.	19-031-002								
Asset Title	Debt Management	t Application			Cost Center:				Finance
Asset Location	СОВ				Amount:			\$	110,000
					- au				
Need identified:	☐ Asset Manage	ement	☐ Inspect	ion	Other	Need Based			
Implement a debt manag	gement software applic	ation to assist with	debt manage	ement.					
Budget Account	16584 Computer Equ	ipment							
Туре:	NEW								
Original date in service:	N/A	Original estimated	d useful life:	N/A		Useful life:	3 Years		
	<del></del>	J	_	·	_	-		•	
Asset Allocation No. Asset Title	19-031-003 Office Reconfigura	tion			Cost Center:				counting
Asset Location	СОВ				Amount:			\$	100,000
Need identified:	Asset Manage	ement	✓ Inspect	ion	☐ Other				
Reconfigure and update	the Finance/Accounting	g department on th	ne 2nd floor to	o make it mo	ore conducive	to the work c	onducted.		
Budget Account	16580 Office Furnitur	re & Equipment							
Type:	BETTERMENT								
Original date in service:	2002	Original estimate	d useful life:	15 Years		Useful life:	15 Years		

Asset Allocation No.	19-031-004								
Asset Title	Cash Managemen	t Application			Cost Center				Finance
Asset Location	СОВ				Amount			\$	40,000
Need identified:	☐ Asset Manag	ement	□Inspectio	n	✓ Other	Need Based			
Implement a cash manag	gement software applic	cation for daily cash	n management.						
Budget Account	16584 Computer Equ	uipment							
Type:	NEW								
Original date in service:	N/A	Original estimate	d useful life:	N/A	-	Useful life:	3 Years	-	
Asset Allocation No.	19-032-001								
Asset Title	Office Reconfigura	ation			Cost Center			۸۵	counting
Asset Location	COB				Amount			\$	75,000
Need identified:	Asset Manag	ement	✓ Inspectio	n	☐ Other				
Reconfigure and update	the Accounting depart	ment on the 2nd flo	oor to make it n	nore condi	ucive to the w	ork conducted	l.		
Budget Account	16580 Office Furnitu	ıre & Equipment							
Туре:	BETTERMENT								
Original date in service:	2001	Original estimate	d useful life:	15 Years	_	Useful life:	15 Years	_	

Asset Allocation No.	19-034-001			
Asset Title	Vehicle 385		Cost Center:	Customer Service
Asset Location	СОВ		Amount:	\$ 25,000
Need identified:	☐ Asset Management	✓ Inspection	Other	
Replace 2009 Ford Range	er used to conduct NBC business.			
Budget Account	16600 Replacement Reserve			
Type:	REPLACEMENT			
Original date in service:	Original e	stimated useful life: 9 Years	Useful life:	9 Years
Asset Allocation No.	19-034-002			
Asset Title Asset Location	Office Reconfiguration COB		Cost Center: Amount:	Customer Service \$ 6,000
A social designation			7.111041111	φ 0,000
Need identified:	Asset Management	☐ Inspection	Other As Needed	with New CS System
Update the Customer Se	rvice department on the 1st floor	to make it conducive to the wor	rk conducted with the new b	oilling system application.
Budget Account	16580 Office Furniture & Equip	ment		
Type:	NEW			
Original date in service:	N/A Original e	stimated useful life: N/A	Useful life:	5 Years

Asset Allocation No.	19-080-001							
Asset Title	Office Reconfigura	ition		Cost Center		General		nistration
Asset Location	СОВ			Amount	:		\$	100,000
Need identified:	☐ Asset Manage	ement	Inspection	☐ Other				
Remodel COB office area	s to make it more conc	ducive to the work	conducted.					
Budget Account	16580 Office Furnitu	re & Equipment						
Type:	BETTERMENT							
Original date in service:	2001	Original estimate	d useful life: 15 Yea	ars	Useful life:	15 Years	_	
Asset Allocation No.	19-080-002							
Asset Title	HVAC Component	s		Cost Center	:	General	Admi	nistration
Asset Location	СОВ			Amount			\$	50,000
Need identified:	Asset Manage	ement	Inspection	☐ Other				
Replace heating, ventilat	ion, and air conditionir	ng roof component	S.					
Budget Account	16600 Replacement	Reserve						
Type:	REPLACEMENT							
Original date in service:	2013	Original estimate	d useful life: 5 Yea	irs	Useful life:	5 Years	_	

Asset Allocation No.	19-043-001							
Asset Title	Equipment 007			Cost Center:		Interceptor I		
Asset Location	IM Building			Amount:			\$	37,000
Need identified:	☐ Asset Manage	ement	✓ Inspection	☐ Other				
Replace skid steer loader	used to clean Screenin	g facilities and aid	in small construction pro	jects.				
Budget Account	16600 Replacement F	Reserve						
Type:	REPLACEMENT							
Original date in service:	2006	Original estimated	d useful life: 10 Years	_	Useful life:	10 Years		
Asset Allocation No.	19-043-002							
Asset Title Asset Location	Pole Camera IM Building			Cost Center: Amount:		Interceptor I	Maint \$	17,000
Need identified:	☐ Asset Manage	ement	✓ Inspection	☐ Other				
Replace compact high res	solution camera and as	sembly used to insp	pect manholes and burie	d pipes.				
Budget Account	16600 Replacement F	Reserve						
Type:	REPLACEMENT							
Original date in service:	2008	Original estimated	d useful life: 8 Years	_	Useful life:	8 Years		

Asset Allocation No.	19-044-001							
Asset Title Asset Location	Computer System Field's Point	) Upgrade		Cost Center: Amount:		s & Mainte	nance \$	Services 84,000
Need identified:	Asset Manag	ement	□Inspection	☐ Other				
Upgrades to the Scada Co	omputer System							
Budget Account	16584 Computer Eq	uipment						
Type:	NEW							
Original date in service:	N/A	Original estimate	ed useful life: N/A		Useful life:	10 Years	_	
	10.044.003					_		_
Asset Allocation No. Asset Title	19-044-002 Vehicle 442			Cost Center:	Operation	s & Mainte	nance	Services
Asset Location	Field's Point			Amount:	•		\$	35,000
Need identified:	Asset Manag	ement	Inspection	☐ Other				
Replace 2006 F150 Plant	Controls Systems pick	up used to conduct	: NBC business.					
Budget Account	16600 Replacement	Reserve						
Туре:	REPLACEMENT							
Original date in service:	2006	Original estimate	ed useful life: 10 Year	rs	Useful life:	10 Years		

Asset Allocation No.	19-044-003								
Asset Title	Flow Meter			C	Cost Center:	Operation	s & Mainter		
Asset Location	Rathbone Street, Provi	idence			Amount:			\$	25,000
Need identified:	Asset Manager	ment	✓ Inspection		Other				
Replace flow measureme	ent equipment with new	er/safer technolo <sub>l</sub>	gy.						
Budget Account	16600 Replacement R	eserve							
Туре:	REPLACEMENT								
Original date in service:	2015	Original estimated	d useful life: 5 Y	ears		Useful life:	10 Years	-	
Asset Allocation No.	19-044-004								
Asset Title Asset Location	Software Licensing Field's Point & Bucklin			(	Cost Center: Amount:	Operations	& Maintena		Services 16,000
Need identified:	✓ Asset Manager		✓ Inspection		Other			\$	10,000
Upgrade Supervisory Cor									
Budget Account	16584 Computer Equi	pment							
Type:	NEW								
Original date in service:	N/A	Original estimated	d useful life: N	I/A		Useful life:	5 Years	_	

Asset Allocation No.	19-046-001							
Asset Title	Bar Rack			Cost Center	:		Fiel	ld's Point
Asset Location	Ernest Street Pump S	tation		Amount			\$	147,000
Need identified:	Asset Manage	ement	$\square$ Inspection	☐ Other				
Replace components and	l extend the life of influ	uent screening Bar	Rack.					
Budget Account	16600 Replacement	Reserve						
Type:	REPLACEMENT							
Original date in service:	1989	Original estimate	ed useful life: 4 Years	_	Useful life:	4 Years	_	
Asset Allocation No.	19-046-002							
Asset Title	Grinders			Cost Center			Fiel	ld's Point
Asset Location	Field's Point			Amount			\$	100,000
Need identified:	☐ Asset Manage	ement	Inspection	☐ Other				
Replace grinders that ma	cerate large debris in s	ewer influent.						
Budget Account	16600 Replacement	Reserve						
Type:	REPLACEMENT							
Original date in service:	2004	Original estimate	ed useful life: 15 Years		Useful life:	15 Years	_	

Asset Allocation No.	19-046-003								
Asset Title	Equipment 009				Cost Center				d's Point
Asset Location	Field's Point				Amount			\$	85,000
Need identified:	Asset Manage	ement	✓ Inspect	ion	Other				
Replace yard sweeper us	ed to clean plant grour	nds.							
Budget Account	16600 Replacement	Reserve							
Type:	REPLACEMENT								
Original date in service:	2003	Original estimated	d useful life:	10 Years	_	Useful life:	10 Years	_	
Asset Allocation No.	19-046-004								
Asset Title	Grit Tank Compon	ents			Cost Center	:		Field	d's Point
Asset Location	Field's Point				Amount	:		\$	70,000
Need identified:	Asset Manage	ement	✓ Inspect	ion	☐ Other				
Replace grit tank compor	nents which remove in	organic material an	d prevent pu	mp wear an	d tear.				
Budget Account	16600 Replacement	Reserve							
Type:	REPLACEMENT								
Original date in service:	2003	Original estimate	d useful life:	10 Years		Useful life:	4 Years		

Asset Allocation No.	19-046-005							
Asset Title	Vehicle 447			Cost Center				l's Point
Asset Location	Field's Point			Amount			\$	45,000
Need identified:	✓ Asset Manage	ement	Inspection	Other				
Replace 2006 pickup used	d to conduct NBC busin	iess.						
Budget Account	16600 Replacement	Reserve						
Type:	REPLACEMENT							
Original date in service:	2006	Original estimated	d useful life: 10 Years	_	Useful life:	10 Years	_	
Asset Allocation No.	19-046-006							
Asset Title	Flow Meters			Cost Center	:		Field	d's Point
Asset Location	Field's Point			Amount			\$	45,000
Need identified:	Asset Manage	ement	Inspection	☐ Other				
Replace 3-Dual Channel f	low meters with new to	echnology.						
Budget Account	16600 Replacement	Reserve						
Туре:	REPLACEMENT							
Original date in service:	1997	Original estimated	d useful life: 15 Years	_	Useful life:	10 Years	_	

Asset Allocation No.	19-046-007					
Asset Title	Vehicle 487		Cost Center:			l's Point
Asset Location	Field's Point		Amount:		\$	40,000
			_			
Need identified:	Asset Managemer	nt Inspection	Other			
Replace 2004 E250 van u	sed to conduct NBC busines	S.				
Budget Account	16600 Replacement Reser	ve				
Туре:	REPLACEMENT					
Original date in service:	2004 Orig	ginal estimated useful life: 10 Years	ι	Jseful life: 10 Years		
Asset Allocation No.	19-046-008					
Asset Title	Hydraulic Controls		Cost Center:		Field	l's Point
Asset Location	Ernest Street Pump Station	າ	Amount:		\$	40,000
Need identified:	Asset Managemer	nt ☑ Inspection	☐ Other			
		at Ernest Street Pump Station.				
Budget Account	16600 Replacement Reser	ve				
Type:	REPLACEMENT					
Original date in service:	1989 Orig	ginal estimated useful life: 20 Years		Jseful life: 20 Years	_	

Asset Allocation No.	19-046-009						
Asset Title	RAS & Dewatering	Pump		Cost Center	r:		d's Point
Asset Location	Field's Point			Amoun	t:	\$	35,000
	_		_				
Need identified:	Asset Manage	ement	Inspection	☐ Other			
Replace return activated	sludge and dewatering	; final clarifiers pun	np # 4 used in secondary	/ treatment at	the sludge pump station		
Budget Account	16600 Replacement	Reserve					
Type:	REPLACEMENT						
Original date in service:	1987	Original estimated	d useful life: 15 Years		Useful life: 15 Years		
							_
Asset Allocation No.	19-046-010						
Asset Title	Antennas & Repea	iters		Cost Center	r:	Field	d's Point
Asset Location	Field's Point			Amoun	t:	\$	30,000
Need identified:	☐ Asset Manage	ement	☐ Inspection	Other	Need Based		
Install new antennas and	repeaters to allow for	better site commu	nications and increase s	afety at the ca	mpus.		
Budget Account	16520 Building & Pla	nt Equipment					
Type:	NEW						
Original date in service:	N/A	Original estimated	d useful life: N/A	_	Useful life: 10 Years	_	

Asset Allocation No.	19-046-011							
Asset Title	Metering Pump			Cost Cente				d's Point
Asset Location	Field's Point			Amour	it:		\$	27,000
Need identified:	Asset Manage	ement	✓ Inspection	☐ Other				
Replace metering pump	#2 that pumps sodium	bisulfite into the co	ontact tank to de-ch	nlorinate effluent.				
Budget Account	16600 Replacement	Reserve						
Туре:	REPLACEMENT							
Original date in service:	1999	Original estimate	d useful life: 15 Y	'ears	Useful life:	15 Years	_	
Asset Allocation No.	19-046-012							
Asset Title	Hypo Pump and M	lotor		Cost Cente	r:		Field	d's Point
Asset Location	Field's Point			Amour	t:		\$	25,000
Need identified:	Asset Manage	ement	✓ Inspection	☐ Other				
Replace Hypo pump # 1 a	and motor that pumps	sodium hypochlori	te into contact tank	c to treat effluent.				
Budget Account	16600 Replacement	Reserve						
Type:	REPLACEMENT							
Original date in service:	1998	Original estimate	d useful life:15 Y	'ears	Useful life:	15 Years	_	

Asset Allocation No.	19-046-013							
Asset Title	Equipment 026			Cost Center				d's Point
Asset Location	Field's Point			Amount			\$	22,000
Need identified:	Asset Manage	ement	✓ Inspection	Other				
Replace EZ Go utility terr	ain vehicle used to con	duct NBC business						
Budget Account	16600 Replacement	Reserve						
Type:	REPLACEMENT							
Original date in service:	2009	Original estimate	d useful life: 7 Years	_	Useful life:	10 Years	-	
Asset Allocation No.	19-046-014							
Asset Title Asset Location	Equipment 028 Field's Point			Cost Center Amount			Field \$	d's Point 22,000
			W				•	,
Need identified:	✓ Asset Manage		✓ Inspection	☐ Other				
Replace EZ Go utility terr	ain venicle used to con	duct NBC business	•					
Budget Account	16600 Replacement	Reserve						
Туре:	REPLACEMENT							
Original date in service:	2009	Original estimate	d useful life: 7 Years	_	Useful life:	10 Years	_	

Asset Allocation No.	19-046-015								
Asset Title	Screw Pump Moto	or			Cost Center:				d's Point
Asset Location	Field's Point				Amount			\$	20,000
	<b>—</b>								
Need identified:	Asset Manag	ement	✓ Inspectio	n	Other				
Replace screw lift pump	#1 motor that has bad	bearings and shaft	located in the b	olower bui	lding.				
Budget Account	16600 Replacement	Reserve							
Туре:	REPLACEMENT								
Original date in service:	2010	Original estimate	ed useful life:	15 Years	_	Useful life:	15 Years	_	
Asset Allocation No.	19-046-016								
Asset Title	Nitrate Analyzer				Cost Center:			Field	d's Point
Asset Location	Field's Point				Amount			\$	17,000
			_						
Need identified:	☐ Asset Manag	ement	☐ Inspectio	n	Other	Permit Requ	iirement		
Purchase nitrate analyze	r for use at tunnel pun	np station to report	t levels of nitrate	es in sewa	ge as required	by RIPDES pe	ermits.		
Budget Account	16520 Building & Pla	ant Equipment							
		4. 1							
Туре:	NEW								
Original date in service:	N/A	Original estimate	ed useful life:	N/A		Useful life:	10 Years		

Asset Allocation No.	19-046-017			
Asset Title	<b>Grit Aeration Blower</b>		Cost Center:	Field's Point
Asset Location	Field's Point		Amount:	\$ 15,000
Need identified:	Asset Management	Inspection	Other	
Purchase grit aeration blo	ower to assist in the settling of the g	rit in the tanks in the Grit Bui	ilding.	
Budget Account	16520 Building & Plant Equipmen	t		
Type:	NEW			
Original date in service:	N/A Original est	imated useful life:N/A	Useful life:	15 Years
Asset Allocation No.	19-046-018			
Asset Title	Underflow Valve Actuator		Cost Center:	Field's Point
Asset Location	Field's Point		Amount:	\$ 15,000
Need identified:	Asset Management	Inspection	☐ Other	
Purchase underflow valve	e actuator required to control flow t	o final tank 4 at the return sl	udge pump station 2.	
Budget Account	16520 Building & Plant Equipmen	t		
Type:	NEW			
Original date in service:	N/A Original est	imated useful life: N/A	Useful life:	10 Years

Asset Allocation No.	19-046-019								
Asset Title	Automatic Self Cle	aning Strainer			Cost Center:				's Point
Asset Location	Field's Point				Amount			\$	13,000
Need identified:	Asset Manage	ement	□Inspecti	ion	Other				
Replace screen cleaning s building.	strainer with automatio	c self cleaning strai	ner to improvo	e efficiency	and require le	ss maintenan	ce in the Sci	reen 8	c Caustic
Budget Account	16600 Replacement	Reserve							
Type:	REPLACEMENT								
Original date in service:	2011	Original estimate	d useful life: _	10 Years	<u>-</u>	Useful life:	15 Years	-	
Asset Allocation No.	19-046-020								
Asset Title	Compressor				Cost Center:	:		Field	's Point
Asset Location	Field's Point				Amount			\$	10,000
Need identified:	Asset Manage	ement	✓ Inspecti	ion	☐ Other				
Replace the compressor	used to open and close	valves at the tunn	el pump statio	on.					
Budget Account	16600 Replacement	Reserve							
Type:	REPLACEMENT								
Original date in service:	2007	Original estimate	d useful life: _	10 Years	_	Useful life:	10 Years	_	

Asset Allocation No.	19-047-001								
Asset Title	DO Sensors and Pr	robes			Cost Center			Buckl	lin Point
Asset Location	Bucklin Point				Amount			\$	90,000
Need identified:	☐ Asset Manage	ement	□Inspectio	on	Other	Need Based			
Purchase sensors and pro	obes required for moni	toring wastewater	as required by	RIPDES pe	rmit.				
Budget Account	16520 Building & Pla	int Equipment							
Type:	NEW								
Original date in service:	N/A	Original estimate	d useful life:	N/A	-	Useful life:	8 Years	_	
								_	
Asset Allocation No.	19-047-002								
Asset Title	Conveyor				Cost Center			Buck	lin Point
Asset Location	Bucklin Point				Amount			\$	75,000
Need identified:	Asset Manage	ement	✓ Inspection	on	☐ Other				
Replace grit cross convey	or that transport the g	rit and screenings	as part of the p	oreliminary	treatment pro	ocess in the Sci	reening an	d Grit	building.
Budget Account	16600 Replacement	Reserve							
Type:	REPLACEMENT								
Original date in service:	2004	Original estimate	d useful life:	15 Years	_	Useful life:	15 Years	_	

Asset Allocation No.	19-047-003								
Asset Title	Effluent Pumps				Cost Center:				lin Point
Asset Location	Bucklin Point				Amount:			\$	60,000
Need identified:	Asset Manage	ement	✓ Inspection	n	Other				
Replace effluent pumps 1	1 & 2 that transport eff	uent through the o	disinfection prod	cess at the	Dry Weather	Effluent Pum	p Station.		
Budget Account	16600 Replacement	Reserve							
Туре:	REPLACEMENT								
Original date in service:	2003	Original estimate	d useful life:1	15 Years	<u>-</u>	Useful life:	15 Years	_	
	10.047.004								
Asset Allocation No. Asset Title	19-047-004 Screw Pump Moto	r & Unner Beari	na		Cost Center:			Ruck	lin Point
Asset Location	Influent Pump Station		iig		Amount:			\$	60,000
Need identified:	Asset Manage	ement	✓ Inspection	n	☐ Other				
Replace screw pump mot	tor and upper bearing a	assemblies that opo	erate screw pun	np # 4 at t	he Influent Pui	mp Station.			
Budget Account	16600 Replacement	Reserve							
Туре:	REPLACEMENT								
Original date in service:	2004	Original estimate	d useful life:1	15 Years	_	Useful life:	15 Years	_	

Asset Allocation No.	19-047-005						
Asset Title	Flow Serve Pump			Cost Center	:		lin Point
Asset Location	Bucklin Point			Amount	:	\$	60,000
	_		_				
Need identified:	Asset Manage	ement	Inspection	☐ Other			
Replace vertical dry pit p	edestal chopper pump	used to pump sew	age at the Omega pum	p station.			
Budget Account	16600 Replacement	Reserve					
Type:	REPLACEMENT						
Original date in service:	2004	Original estimate	d useful life: 15 Years	5	Useful life: 15 Year	S	
	10.047.006						
Asset Allocation No. Asset Title	19-047-006 Vehicle 418			Coot Contou		Duals	lin Daint
Asset Title Asset Location	Bucklin Point			Cost Center Amount		\$	lin Point 45,000
Need identified:	✓ Asset Manage	ement	✓ Inspection	☐ Other		*	
Replace 2006 Chevrolet b	oox van used to conduc						
		NEJCI VE					
Туре:	REPLACEMENT						
Original date in service:	2007	Original estimate	d useful life: 10 Years	<u> </u>	Useful life: 10 Year	<u>S</u>	

Asset Allocation No.	19-047-007								
Asset Title	Vehicle 424				Cost Center:				lin Point
Asset Location	Bucklin Point				Amount			\$	45,000
	□ A+ D A		<b>☑</b> 1						
Need identified:	Asset Manag	ement	✓ Inspect	ion	Other				
Replace 2005 Chevrolet I	Equinox used to condu	ict NBC business.							
Budget Account	16600 Replacement	Reserve							
Dauget riccount	10000 Replacement	. Neserve							
Type:	REPLACEMENT								
Original date in service:	2005	Original estimate	d useful life	10 Years		Useful life:	10 Years		
original date in service.		Original estimate	_	10 10013	=	Oscial inc.	10 (6013	_	
Asset Allocation No.	19-047-008								
Asset Title	Grit Pump				Cost Center:				lin Point
Asset Location	Bucklin Point				Amount			\$	44,000
	Asset Manag	om ont	✓ Inspect	ion	Cath an				
Need identified:	Asset Manag	ement	rnspect	ion	☐ Other				
Replace grit pumps 2 & 4	that remove grit in th	e influent wastewa	ter at the Scre	ening and (	Grit building.				
Budget Account	16600 Replacement	Reserve							
Type:	REPLACEMENT								
Original date in service:	2005	Original estimate	d useful life:	15 Years		Useful life:	15 Years		

Asset Allocation No.	19-047-009			
Asset Title	Thickener Wasting Pun	mp	Cost Center:	Bucklin Point
Asset Location	Bucklin Point		Amount:	\$ 40,000
	_	_		
Need identified:	Asset Managemen	nt Inspection	Other	
Purchase thickener wasti	ng pump required to thicker	n sludge prior to transfer to digester	pump.	
Budget Account	16520 Building & Plant Eq	uipment		
Type:	NEW			
Original date in service:	N/A Orig	ginal estimated useful life: N/A	Useful li	fe: 15 Years
J	<u> </u>			
Asset Allocation No.	19-047-010			
Asset Title	Air Handling Unit		Cost Center:	Bucklin Point
Asset Location	Bucklin Point		Amount:	\$ 40,000
	_	_		
Need identified:	Asset Managemen	t Inspection	☐ Other	
Replace Saylesville pump	station air handling unit exl	haust fan.		
Budget Account	16600 Replacement Reser	rve		
Type:	REPLACEMENT			
Original date in service:	1995 Orig	ginal estimated useful life: 20 Years	S Useful li	fe: 20 Years

Asset Allocation No.	19-047-011							
Asset Title	Vehicle 378			Cost Center:				in Point
Asset Location	Bucklin Point			Amount:			\$	40,000
	Asset Managem	nent Inspec	tion					
Need identified:	Asset Managem	ient is inspect	uon	Other				
Replace 2010 Ford F250	Pickup used to conduct N	BC business.						
Budget Account	16600 Replacement Re	serve						
Type:	REPLACEMENT							
Original date in service:	2009 C	Original estimated useful life:	10 Years		Useful life:	10 Years		
C. B. a. acte in service.		ga. estatea asera:e.	10	_	oserar mer	10	_	
Asset Allocation No.	19-047-012							
Asset Title	Dewatering Building	Roof		Cost Center:				in Point
Asset Location	Bucklin Point			Amount:			\$	40,000
Need identified:	☐ Asset Managem	nent 🗹 Inspec	tion	☐ Other				
		mage to electrical equipment						
neplace roof at dewater	ing building to prevent dai	mage to electrical equipment	••					
Budget Account	16600 Replacement Re	serve						
Tuner	DEDI ACEMENT							
Type:	REPLACEMENT							
Original date in service:	1950 C	Original estimated useful life:	20 Years		Useful life:	20 Years		

Asset Allocation No.	19-047-013							
Asset Title	Primary Sludge Pu	mp		Cost Center				lin Point
Asset Location	Bucklin Point			Amount	:		\$	35,000
Need identified:	Asset Manage	ment	✓ Inspection	☐ Other				
Replace primary sludge p	oump 3 that moves slud	ge to digesters at th	e Dry Weather Prima	ary Sludge Pump	Station.			
Budget Account	16600 Replacement F	Reserve						
Туре:	REPLACEMENT							
Original date in service:	2004	Original estimated	useful life: 15 Year	rs	Useful life:	15 Years	_	
Asset Allocation No.	19-047-014							
Asset Title	Primary Scum Pum	מו		Cost Center	:		Buck	lin Point
Asset Location	Bucklin Point			Amount			\$	35,000
Need identified:	Asset Manage	ment	✓ Inspection	☐ Other				
Replace primary scum pu	imp 2 that moves scum	to digesters at Dry '	Weather Primary Slu	dge Pump Station	n.			
Budget Account	16600 Replacement F	Reserve						
Type:	REPLACEMENT							
Original date in service:	2005	Original estimated	useful life:15 Year	rs	Useful life:	15 Years	_	

Asset Allocation No.	19-047-015								
Asset Title	Transfer Pump				Cost Center				lin Point
Asset Location	Bucklin Point				Amount	:		\$	30,000
Need identified:	Asset Manage	ement	□Inspectio	n	☐ Other				
Purchase transfer pump	used in treatment of so	olids handling at the	e Sidestream Bı	uilding.					
Budget Account	16520 Building & Pla	nt Equipment							
Type:	NEW								
Original date in service:	N/A	Original estimate	d useful life:	N/A	-	Useful life:	15 Years	_	
Asset Allocation No.	19-047-016								
Asset Title Asset Location	<b>Dewatering Pump</b> Bucklin Point				Cost Center Amount			Buck \$	lin Point 25,000
Need identified:	Asset Manage	ement	✓ Inspection	n	☐ Other				
Replace dewatering pum	p 3 used to remove liqu	uids from wet wea	ther tanks at th	e Wet We	ather De-Wat	ering Pump St	ation.		
Budget Account	16600 Replacement	Reserve							
Туре:	REPLACEMENT								
Original date in service:	2003	Original estimate	d useful life:	15 Years	_	Useful life:	15 Years	_	

Asset Allocation No.	19-047-017						
Asset Title	Equipment 0027			Cost Center:		Buckl	lin Point
Asset Location	Bucklin Point			Amount:		\$	22,000
Need identified:	Asset Managen	nent	✓ Inspection	Other			
Replace EZ Go with sturd	ier utility terrain vehicle.						
Budget Account	16600 Replacement Re	eserve					
Type:	REPLACEMENT						
Original date in service:	2009	Original estimated	I useful life: 8 Years		Useful life: 10 Years		
				=		_	
Asset Allocation No.	19-047-018						
Asset Title	Equipment 0046			Cost Center:			lin Point
Asset Location	Bucklin Point			Amount:		\$	22,000
Need identified:	Asset Managen	nent	✓ Inspection	Other			
Replace EZ Go unit with s	turdier utility terrain veh	nicle.					
Budget Account	16600 Replacement Re	eserve					
Type:	REPLACEMENT						

Original estimated useful life: 8 Years

Original date in service: 2010

Useful life: 10 Years

Asset Allocation No.	19-047-019								
Asset Title	Equipment 0047				Cost Center				in Point
Asset Location	Bucklin Point				Amount			\$	22,000
Need identified:	Asset Manage	ement	✓ Inspectio	n	Other				
Replace EZ Go unit with s	sturdier utility terrain v	ehicle.							
Budget Account	16600 Replacement	Reserve							
J									
Туре:	REPLACEMENT								
Original date in service:	2010	Original estimated	d useful life:	8 Years	_	Useful life:	10 Years	_	
	10.047.030								
Asset Allocation No. Asset Title	19-047-020 EIM Actuators & G	ear Operators			Cost Center			Buckl	in Point
Asset Location	Bucklin Point	са орегатога			Amount			\$	20,000
Need identified:	Asset Manage	ement	□ Inspectio	n	☐ Other				
Purchase EIM actuators a	and gear operators use	d to control valves	in the blower b	uilding.					
Budget Account	16520 Building & Pla	nt Equipment							
Type:	NEW								
Original date in service:	N/A	Original estimated	d useful life:	N/A	_	Useful life:	10 Years		

Asset Allocation No.	19-047-021			
Asset Title	Hoist Retrieval System		Cost Center:	Bucklin Point
Asset Location	Bucklin Point		Amount:	\$ 15,000
Need identified:	Asset Management	Inspection	☐ Other	
Purchase confined space	hoist retrieval system designe	d for manhole and confined space	e entry/retrieval and fall arr	est applications.
Budget Account	16520 Building & Plant Equip	pment		
Туре:	NEW			
Original date in service:	N/A Origin	al estimated useful life: N/A	Useful life	e: 10 Years
Asset Allocation No.	19-047-022			
Asset Location	Hoist Bucklin Point		Cost Center:	Bucklin Point \$ 15,000
Asset Location	BUCKIIII POIIIL		Amount:	\$ 15,000
Need identified:	Asset Management	Inspection	Other	
Replace 2 ton hoist for li	fting heavy equipment through	nout NBC facilities.		
Budget Account	16600 Replacement Reserve	2		
Туре:	REPLACEMENT			
Original date in service:	1999 Origin	al estimated useful life: 20 Vears	د المحاسا انام	20 Vears

Asset Allocation No.	19-047-023								
Asset Title	Diesel Mower				Cost Center:				in Point
Asset Location	Bucklin Point				Amount:			\$	12,000
Need identified:	Asset Manage	ement	Inspection		☐ Other				
Replace diesel Gravely m	ower used for grounds	keeping.							
Budget Account	16600 Replacement	Reserve							
Type:	REPLACEMENT								
Original date in service:	2009	Original estimate	d useful life: 10	) Years		Useful life:	10 Years	_	
Asset Allocation No.	19-047-024								
Asset Title	60" Mower				Cost Center:			Buckl <sup>a</sup>	in Point
Asset Location	Bucklin Point				Amount:			\$	10,000
Need identified:	Asset Manage	ement	✓ Inspection		☐ Other				
Replace 60" Husqvarna n									
Budget Account	16600 Replacement	Reserve							
Type:	REPLACEMENT								
Original date in service:	2013	Original estimate	d useful life: 6	Years		Useful life:	6 Years		

Asset Allocation No.	19-047-025								
Asset Title	Hot Water Recycli	ng Pump			Cost Center				in Point
Asset Location	Bucklin Point				Amount			\$	10,000
Need identified:	Asset Manage	ement	✓ Inspection	ion	Other				
Replace hot water recycli	ng pump 1 used in hea	at exchange proces	s at the Heat I	Exchange Bu	uilding.				
Budget Account	16600 Replacement	Reserve							
Type:	REPLACEMENT								
Original date in service:	2005	Original estimate	d useful life: _	15 Years	-	Useful life:	15 Years	_	
Asset Allocation No. Asset Title	19-047-026 Hot Water Recycli	na Dumn			Cost Center			Duckl	in Point
Asset Location	Bucklin Point	iig ruiiip			Amount			\$	10,000
Need identified:	✓ Asset Manage	ement	✓ Inspection	ion	☐ Other				
Replace hot water recycli	ng pump 6 used in hea	at exchange proces	s at the Heat I	Exchange Bu	uilding.				
Budget Account	16600 Replacement	Reserve							
Туре:	REPLACEMENT								
Original date in service:	2005	Original estimate	d useful life: _	15 Years	_	Useful life:	15 Years	_	

Asset Allocation No.	19-047-027					
Asset Title	Equipment 0100A		Cost Center			lin Point
Asset Location	Bucklin Point		Amount	:	\$	10,000
Need identified:	Asset Managemer	nt Inspection	☐ Other			
Replace E0100A truck mo	ounted salt/sander used to t	treat roads at NBC facilities.				
Budget Account	16600 Replacement Rese	rve				
Type:	REPLACEMENT					
Original date in service:		ginal estimated useful life: 10	Vears	Useful life: 10 Years		
Original date in service.	2008	ginai estimateu userurine. 10	Tears	Oserurine. 10 rears		
Asset Allocation No.	19-047-028					
Asset Title Asset Location	Leaf Vacuum Trailer w Bucklin Point	/ Cyclone	Cost Center Amount		Buck \$	lin Point 8,000
Asset Location	Buckiiii Foiiit		Amount	•	Ų	8,000
Need identified:	Asset Managemer	nt Inspection	☐ Other			
Purchase leaf vacuum tra	niler system w/Cyclone to as	ssist grounds keeping.				
Budget Account	16520 Building & Plant Ed	nuinment				
		үшүшеш				
Type:	NEW					
Original date in service:	N/A Orio	ginal estimated useful life:	N/A	Useful life: 10 Years	:	

Asset Allocation No.	19-047-029								
Asset Title	Tripod Confined S	pace			Cost Center:				n Point
Asset Location	Bucklin Point				Amount:			\$	8,000
N. 1.1	Asset Manage	ement	✓ Inspect	ion	☐ Other				
Need identified:									
Purchase tripod unit to a	id maintenance and in	strumentation sta	ff while condu	cting work in	n confined spa	ces.			
Budget Account	16520 Building & Pla	nt Equipment							
Type:	NEW								
Original date in service:	N/A	Original estimate	ed useful life: _	N/A	_	Useful life:	8 Years	_	
Asset Allocation No.	19-047-030								
Asset Title	Equipment 0101A				Cost Center:			Buckli	n Point
Asset Location	Bucklin Point				Amount:			\$	8,000
Need identified:	Asset Manage	ement	Inspect	ion	☐ Other				
Replace truck mounted s	salt/sander used to trea	at roads at NBC fac	cilities.						
·									
Dudget Assessed	10000 Davidson	Dagamus							
Budget Account	16600 Replacement	keserve							
Type:	REPLACEMENT								
Original date in service:	2008	Original estimate	ed useful life:	10 Years		Useful life:	10 Years		

Asset Allocation No.	19-047-031								
Asset Title	Equipment Vehicle	e 382			Cost Center				n Point
Asset Location	Bucklin Point				Amount			\$	8,000
Need identified:	Asset Manage	ement	✓ Inspect	ion	Other				
Replace plow equipment	assembly.								
Budget Account	16600 Replacement	Reserve							
Type:	REPLACEMENT								
Original date in service:	2009	Original estimated	d useful life:	8 Years	_	Useful life:	10 Years	_	
Asset Allocation No.	19-052-001								
Asset Legation	Vehicle 423				Cost Center				atment
Asset Location	Pretreatment				Amount			\$	30,000
Need identified:	Asset Manage	ement	□Inspect	ion	☐ Other				
Replace 2007 Ford Escape	e used to conduct insp	ections of industria	l and comme	rcial users a	nd emergency	response.			
Budget Account	16600 Replacement	Reserve							
Туре:	REPLACEMENT								
Original date in service:	2009	Original estimated	d useful life:	12 Years		Useful life:	12 Years		

Asset Allocation No.	19-052-002								
Asset Title	Window Blinds				Cost Center	:			eatment
Asset Location	Pretreatment				Amount			\$	10,000
	_		_						
Need identified:	Asset Managen	nent	✓ Inspection	on	Other				
Replace current window	blinds that are at the Pre	etreatment buildir	ng.						
Budget Account	16600 Replacement Re	eserve							
Type:	REPLACEMENT								
Original date in service:	1990	Original estimated	d useful life:	N/A	_	Useful life:	20 Years	_	
								_	
Asset Allocation No.	19-053-001								
Asset Title	<b>BOD Skalar Analyze</b>	r			Cost Center	•		Lat	oratory
Asset Location	Water Quality Science I	Building			Amount	:		\$	93,000
Need identified:	Asset Managen	nent	□Inspectio	on	☐ Other				
Replace BOD Skalar analy	yzer system that does no	t have the capacit	ty to analyze a	ll samples	required by no	ew RIPDES per	mit.		
Budget Account	16600 Replacement Re	eserve							
Type:	REPLACEMENT								
Original date in service:	2014	Original estimated	l useful life:	5 Years	_	Useful life:	5 Years	_	

Asset Allocation No.	19-053-002								
Asset Title	Fresh Water Nutri				Cost Center				oratory
Asset Location	Water Quality Science	e Building			Amount	:		\$	85,000
Need identified:	Asset Manage	ement	□Inspecti	on	☐ Other				
Replace fresh water nutr	ient analyzer system fo	or nitrogen testing	required by RI	DES permits	5.				
Budget Account	16600 Replacement	Reserve							
Type:	REPLACEMENT								
Original date in service:	2013	Original estimate	d useful life: _	5 Years	_	Useful life:	5 Years	_	
Asset Allocation No. Asset Title	19-053-003 TOC Analyzer				Cost Center			Lak	oratory
Asset Location	Water Quality Science	e Building			Amount			\$	37,000
	_		_						
Need identified:	Asset Manage		□Inspecti		☐ Other				
Replace TOC analyzer sys	stem for total organic c	arbon testing as re	quired by EPA	and RI Dep	artment of He	ealth.			
Budget Account	16600 Replacement	Reserve							
Туре:	REPLACEMENT								
Original date in service:	2010	Original estimate	d useful life:	5 Years	_	Useful life:	5 Years		

Asset Allocation No.	19-053-004					
Asset Title	Water Purification Systems	Cost Center:		Laboratory		
Asset Location	Water Quality Science Building		Amount:		\$ 2	28,000
		_				
Need identified:	Asset Management	☐ Inspection	Other			
Replace water purificatio	n systems that are over due for replacem	ent.				
Budget Account	16600 Replacement Reserve					
Type:	REPLACEMENT					
Original date in service:	2010 Original estimated	d useful life: 7 Years	į	Jseful life: 7 Years		
Asset Allocation No.	19-053-005					_
Asset Title	Microscope Camera System		Cost Center:			ratory
Asset Location	Water Quality Science Building		Amount:		\$ 1	12,000
Need identified:	Asset Management	Inspection	☐ Other			
Replace out of date came operations.	era system not compatible with Windows	10 used to analyze waste	water and sea v	vater to help with faciliti	es	
Budget Account	16600 Replacement Reserve					
Туре:	REPLACEMENT					
Original date in service:	2010 Original estimated	d useful life: 7 Years		Jseful life: 5 Years		

Asset Allocation No.	19-055-001						
Asset Title	<b>Fixed Site Sondes</b>			Cost Center:			EMDA
Asset Location	Water Quality Science	e Building		Amount:		\$	130,000
Need identified:	Asset Manage	ement	☐ Inspection	☐ Other			
Replace antiquated fixed	site sondes and associ	ated equipment us	ed for fixed site and buoy	/ stations in up	per bay.		
Budget Account	16600 Replacement	Reserve					
Type:	REPLACEMENT						
Original date in service:	2008	Original estimated	d useful life: 10 Years	_	Useful life: 10 Years	_	
Asset Allocation No.	19-055-002						
Asset Title	Vehicle 432			Cost Center:			EMDA
Asset Location	Field's Point			Amount:		\$	34,000
Need identified:	Asset Manage	ement	□Inspection	☐ Other			
Replace 2008 Ford E-150	van used to collect sar	nples within the NE	3C service area.				
Budget Account	16600 Replacement	Reserve					
Type:	REPLACEMENT						
Original date in service:	2008	Original estimated	d useful life: 10 Years	_	Useful life: 10 Years	_	

Asset Allocation No.	19-055-003				
Asset Title	Fixed Site Probes & Meter		Cost Center:		EMDA
Asset Location	Water Quality Science Building		Amount:	\$	30,000
		_			
Need identified:	Asset Management	☐ Inspection	Other		
Replace fixed site probes sampling collections.	, meters and associated equipment	t used for deployment in the up	per bay and to provide river	data during nutr	ients
Budget Account	16600 Replacement Reserve				
Type:	REPLACEMENT				
Original date in service:	Original es	timated useful life: 10 Years	Useful life:	10 Years	
Asset Allocation No.	19-055-004				
Asset Title	Refrigerated Auto Samplers		Cost Center:		EMDA
Asset Location	FPWWTF & BPWWTF		Amount:	\$	26,000
Need identified:	Asset Management	☐ Inspection	☐ Other		
Replace refrigerated auto	o samplers installed at the treatme	nt plants to satisfy all RIPDES sai	mpling requirements.		
Budget Account	16600 Replacement Reserve				
Туре:	REPLACEMENT				
Original date in service:	2008 Original es	timated useful life: 10 Years	Useful life:	10 Years	