



Agenda

Alexandria Renew Enterprises Public Hearing
Saturday, May 20, 2022 @ 9:00 a.m.
1800 Limerick Street, Ed Semonian Boardroom
& Via Livestream on YouTube <http://board.alexrenew.org>

| No. | Item | Presenter | Action Required |
|-----|------|-----------|-----------------|
|-----|------|-----------|-----------------|

On Saturday, May 20, 2023, the Alexandria Renew Enterprises Board of Directors is holding a public hearing to receive comments on the FY2024 Proposed Operating and Capital Budget and the FY2024 and FY2025 Rate Recommendation at Alexandria Renew Enterprises (1800 Limerick Street, Ed Semonian Boardroom, Alexandria, VA 22314). Members of the Board and staff are participating in person. The meeting can be accessed by the public in the Ed Semonian Boardroom or through the live broadcast on YouTube: <http://board.alexrenew.org>

If you wish to speak during the public hearing, please email lorna.huff@alexrenew.com or call the Board Secretary at (703) 721-3500 ext. 2260 in advance so you can be added to the speakers list. A recording of the meeting will be posted on the alexrenew.com website after the meeting.

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|----|---|----------|
| 1. | Call to Order (9:00 a.m.) | Chairman |
| 2. | Review Process (9:05 a.m.) | Chairman |
| 3. | Purpose of Hearing (9:07 a.m.) | Chairman |
| 4. | Staff Presentation (9:10 a.m.) | Mr. Carl |
| 5. | Public Testimony and Comments on FY2024 Proposed Operating and Capital Budget and FY2024-FY2025 Rate Recommendation (Tab 1) (9:45 a.m.) | Chairman |
| 6. | Adjourn (12:00 p.m.) | Chairman |

Times shown in parentheses are approximate and serve as guidelines

If you need an interpreter, translator, materials in alternate formats or other accommodations to access this service, activity or program, please call (703) 721-3500 ext. 2260 at least three business days prior to the meeting.

The next Board of Directors meeting is scheduled for Tuesday, June 20, 2023 @ 6:00 p.m.

Members of the public may park in the parking lot across the street from Alexandria Renew at the corner of Limerick and Bartholomew Streets

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| <p>Chairman- John Hill • Vice Chairman- Jim Beall • Secretary-Treasurer-William Dickinson • Members- Adriana Caldarelli, Mark Jinks</p> |
|---|

**RESOLUTION OF INTENT
TO ADOPT AND CHANGE CERTAIN RATES, FEES, AND CHARGES**

BE IT RESOLVED, that the City of Alexandria, Virginia Sanitation Authority d/b/a Alexandria Renew Enterprises, hereby signifies its intent to change certain rates, fees, and charges to become effective **July 1, 2023** and hereby sets the date of **Saturday, May 20, at 9:00 a.m.**, at Alexandria Renew Enterprises' administration office, 1800 Limerick Street, Alexandria, Virginia 22314 for a public hearing to receive comment regarding same.

BE IT FURTHER RESOLVED, that the Chief Executive Officer is hereby directed to have published in a newspaper having general circulation in the City of Alexandria, for two consecutive weeks, notice of the proposed change in the schedule of rates, fees and charges and the day and time of the public hearing.

The proposed rates, fees and charges are:

| Description | Meter Size | Current Effective July 1, 2022 | Proposed Effective July 1, 2023 | Proposed Effective July 1, 2024 |
|--|------------|-----------------------------------|------------------------------------|------------------------------------|
| Individually Metered Residential Service – Wastewater Treatment Charge | All Meters | \$9.26* | \$9.76* | \$10.26* |
| Commercial Service – Wastewater Treatment Charge | | | | |

*Per 1,000 gallons

| Description | Meter Size | Current Effective July 1, 2022 | Proposed Effective July 1, 2023 | Proposed Effective July 1, 2024 |
|-------------------------------------|------------|-----------------------------------|------------------------------------|------------------------------------|
| Residential Base Charge | All Meters | \$13.14 | \$13.85 | \$14.57 |
| Commercial Base Charge | 5/8" | \$39.42 | \$41.55 | \$43.68 |
| | 3/4" | \$39.42 | \$41.55 | \$43.68 |
| | 1" | \$98.55 | \$103.87 | \$109.19 |
| | 1-1/2" | \$197.10 | \$207.74 | \$218.38 |
| | 2" | \$315.36 | \$332.39 | \$349.41 |
| | 3" | \$591.30 | \$623.23 | \$655.14 |
| | 4" | \$985.50 | \$1,038.72 | \$1,091.90 |
| | 6" | \$1,971.00 | \$2,077.43 | \$2,183.80 |
| | 8" | \$3,153.60 | \$3,323.89 | \$3,494.08 |
| Minimum Deposit Based on Meter Size | - | \$0.00 | \$0.00 | \$0.00 |
| Residential Customer Activation Fee | - | \$15.00 | \$15.00 | \$15.00 |

The new rates and charges shall be effective on July 1, 2023 and shall remain in effect thereafter until further revised. Any rates, fees, or charges not revised herein shall remain in effect until further revised.



Rates, Rules, and Regulations

Alexandria Renew Enterprises

Effective: July 1, 2023 (Proposed)

Revised and Approved:

June 18, 2013

July 23, 2013

Aug 19, 2014

Dec 16, 2014

Apr 21, 2015

Sep 20, 2016

May 21, 2019

July 1, 2019

June 15, 2021

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The Rates, Rules, and Regulations as herein set forth, and as they may hereafter be amended, shall govern the rendering of wastewater service as defined herein. Every customer with premises connected to the City of Alexandria sewer collection system shall be bound by these Rates, Rules, and Regulations.

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I. Rates, Fees, and Charges

SECTION 1 - RATES FOR SERVICE

SCHEDULE A – WASTEWATER

This schedule shall apply to all individually metered residential customers and commercial customers discharging sewage to and/or requiring wastewater treatment service by Alexandria Renew Enterprises (wastewater customers). Commercial wastewater customers include all commercial, industrial, government and other public agencies, master-metered residential, and all other accounts or customers not classified as individually metered residential customers.

The wastewater customer’s monthly bill for wastewater collection, treatment, and disposal services (sewer service) shall be based upon the sum of: i) the base charge and ii) the wastewater treatment charge calculated based on water meter readings at the customer premise. The base charge shall serve as the minimum monthly bill for sewer service for all customers receiving wastewater service from Alexandria Renew Enterprises.

Wastewater Treatment Charge - A charge per 1,000 gallons of water consumption will be billed monthly for wastewater customers at the rates shown below.

| Description | Meter Size | Current Effective July 1, 2022 | Proposed Effective July 1, 2023 | Proposed Effective July 1, 2024 |
|---|------------|--------------------------------|---------------------------------|---------------------------------|
| Individually Metered Residential Service – Wastewater Treatment Charge ¹ | All Meters | \$9.26 ² | \$9.76 ² | \$10.26 ² |
| Commercial Service – Wastewater Treatment Charge | | | | |

¹The Individually-metered Residential Wastewater Treatment Charges are based upon the lesser of: a) a customer’s actual monthly metered water use; or b) the customer’s determined monthly wastewater treatment billing cap as further defined in subsequent sections of the Rates, Rules, and Regulations.

²Per 1,000 gallons

Base Charge - a charge per account predicated on the size of the meter size serving the customer premise, will be billed to all wastewater customers at the rates shown below.

| Description | Meter Size | Current Effective July 1, 2022 | Proposed Effective July 1, 2023 | Proposed Effective July 1, 2024 |
|-------------------------------------|------------|--------------------------------|---------------------------------|---------------------------------|
| Residential Base Charge | All Meters | \$13.14 | \$13.85 | \$14.57 |
| Commercial Base Charge | 5/8" | \$39.42 | \$41.55 | \$43.68 |
| | 3/4" | \$39.42 | \$41.55 | \$43.68 |
| | 1" | \$98.55 | \$103.87 | \$109.19 |
| | 1-1/2" | \$197.10 | \$207.74 | \$218.38 |
| | 2" | \$315.36 | \$332.39 | \$349.41 |
| | 3" | \$591.30 | \$623.23 | \$655.14 |
| | 4" | \$985.50 | \$1,038.72 | \$1,091.90 |
| | 6" | \$1,971.00 | \$2,077.43 | \$2,183.80 |
| 8" | \$3,153.60 | \$3,323.89 | \$3,494.08 | |
| Minimum Deposit Based on Meter Size | - | \$0.00 | \$0.00 | \$0.00 |
| Residential Customer Activation Fee | - | \$15.00 | \$15.00 | \$15.00 |

Monthly Wastewater Treatment Billing Cap:

Individually metered residential (single family) customers may use water for outdoor uses such as to irrigate lawns, plants, and other landscaping during non-winter months. This flow does not typically enter the wastewater collection system; as such, Wastewater Treatment Charges for residential customers are based on water used during the winter period to obtain a more representative measure of indoor water use that better approximates the true quantity of wastewater entering the wastewater collection system from the individually metered residential (single family) customer's premise for treatment and disposal by Alexandria Renew Enterprises.

The individually metered residential (single-family) customer's monthly Wastewater Treatment Charges shall be based on water meter readings at the customer's premise. Individually-metered Residential Customers shall be billed the Wastewater Treatment Charges utilizing a monthly wastewater treatment billing cap that shall be determined annually. The wastewater treatment billing cap per customer shall be established based on the greater of: a) 4,000 gallons a month; or b) the customer's average monthly metered water consumption (gallons) recognized on bills rendered during the winter period which is defined as the months of December, January, and February. The monthly wastewater treatment billing cap is not effective for bills rendered during the winter period months. If no bills are rendered to the customer for water service during the winter period, then the monthly wastewater treatment billing cap shall be established at 4,000 gallons a month until a winter period average can be established.

The Wastewater Treatment Charges billed to Commercial customers will be determined based on the total metered water delivered to the premise and shall not be eligible for the monthly "wastewater treatment billing cap". To the extent a Commercial customer has a water-only meter serving the property such metered water consumption would not be charged the Wastewater Treatment Charge. An example of a water-only service would include a meter exclusively used by the customer to measure outdoor water irrigation.

Customers receiving wastewater service only and obtaining water from sources other than Virginia American Water shall install a water meter on their water supply which will be read as the basis for calculating wastewater treatment charges. A charge shall be added to each bill to offset the cost of reading the independent customer's water meter.

SCHEDULE B – REUSE (RECLAIMED) WATER

Customers which receive reclaimed water service from Alexandria Renew Enterprises will pay a charge of \$1.77 per 1,000 gallons of metered reclaimed water delivered to the customer premise. All reclaimed water to be delivered to a customer premise will be metered.

SECTION 2 – OTHER RATES, FEES AND CHARGES

SCHEDULE A – PRETREATMENT PERMIT FEE

In accordance with US EPA Regulations (40 CFR 403) and the Code of the City of Alexandria, Virginia, 1981, as amended, Alexandria Renew Enterprises maintains and regulates an industrial pretreatment program.

Industrial users are those customers meeting the definition in Section 5-6-102(mm) of the Code of the City of Alexandria, Virginia, 1981, as amended.

Non-significant industrial users are those industrial users meeting the definition in Section 5-6-102(mm)(3) & (4) of the Code of the City of Alexandria, Virginia, 1981, as amended.

The annual Pretreatment Permit Fee for permitted industrial users shall be:

Significant Industrial User - \$1,500 per year.

Non-significant Industrial User - \$500 per year.

Additionally, the permit application fee is \$100 with an additional \$100 charged in the event of a permit revision. A permit includes pretreatment requirements, discharge limits, and special conditions for significant industrial user or categorical sites. The fee covers Alexandria Renew Enterprise's costs in administering the permit and the permits are issued for up to five years. Lastly, Letters of Approval are issued for one time discharges of limited duration for a fee of \$100.

SCHEDULE B – DEDUCT METERS CHARGE

Alexandria Renew Enterprises commercial and industrial customers that have a portion of their wastewater flow that does not enter the wastewater collection system may apply for a deduct meter. The application for a deduct meter must be certified by an independently licensed plumber. Customers participating in the deduct meter program shall receive flow adjustments for the billing of the Wastewater Treatment Charges only through the proper operation of the approved deduct meter(s). Residential customers are not eligible for deduct meters.

When a deduct meter permit is issued by Alexandria Renew Enterprises to allow for a new connection and/or meter to be installed, a deduct meter permit fee shall be paid by the applicant. The permit fee is designed to defray the cost of the required deduct meter inspection at the time of meter installation and to establish the customer billing and service requirements at the time of installation.

The Deduct Meter Permit fee for users shall be \$500, paid in full at the time of application. This is a one-time application fee.

The charge for reading the Deduct Meter is \$50 per reading per account if all of the deduct meters billed to the account have the same premise address. If an account has different premise addresses associated with its Deduct Meters, there is a \$50 charge per reading at each specific premise address. This charge will be in addition to the payment of Base Charges for those Commercial customers that have been approved for and have installed a deduct meter.

The charge for inspecting the Deduct Meter by Alexandria Renew Enterprises shall be \$100 per inspection for each inspection performed after the installation of the Deduct Meter. An inspection of the Deduct Meter will be required every 2 years to verify the flow accuracy of the meter, condition, and other aspects associated with providing this service.

SCHEDULE C – NEW ACCOUNT ACTIVATION FEE

All Residential Customers opening a new account to i) establish wastewater service or ii) re-establish wastewater treatment service will be charged a \$15.00 new account activation fee.

SCHEDULE D – SERVICE TERMINATION FEES

All customers whose water service has been disconnected for non-payment for wastewater service or for violation of these Rules and Regulations will be assessed a non-negotiable service termination fee of \$45.00 added to the account. This charge, together with any arrears that may be due Alexandria Renew Enterprises, shall be paid before the utility service will be turned on. In addition, a service restoration fee of \$45.00 will be assessed and added to the account for a request to restore wastewater treatment service.

Customers will be charged a \$35.00 returned check fee per occurrence.

II. Rules and Regulations

Rule No. 1 – Definitions

Unless the context specifically indicates otherwise, the meaning of terms used in this publication of Rates, Rules, and Regulations shall be as follows:

- a. "Alexandria Renew Enterprises" shall mean the City of Alexandria, Virginia Sanitation Authority d/b/a Alexandria Renew Enterprises.
- b. "City of Alexandria" shall mean the City of Alexandria, Virginia.
- c. "City Sanitary Sewer Maintenance Fee" shall mean City of Alexandria's sanitary sewer maintenance fee calculated by multiplying the number of thousands of gallons of water consumption (based on water meter readings) by the rate established by the City of Alexandria from time to time and which rate is applied to all customers on a "per 1,000 gallons of billed water consumption" which will also serve as the same basis for billing the Wastewater Treatment Charges by Alexandria Renew Enterprises. Amounts collected from this fee will be remitted to the City of Alexandria to fund the operations and maintenance of the City's sanitary sewer system and are not for use or considered as revenue by Alexandria Renew Enterprises.
- d. "Customer" shall mean every property owner or tenant whose Premises are connected to the City of Alexandria wastewater collection system and shall be responsible for paying for the cost of receiving wastewater service. Normally, a customer is provided potable water by Virginia American Water. Each customer shall be served by a separate service connection.
 - i. "Residential Customer" shall mean every Customer whose Premises is a single-family dwelling connected to a water meter that serves only that dwelling.
 - ii. "Commercial Customer" shall mean every other Customer whose Premises is not a single-family dwelling individually connected to a water meter that serves only that dwelling. Commercial Customers include, but are not limited to, multi-family dwellings, whether the dwellings are leased or in a condominium form of ownership, other uses such as retail, office, government and other public agencies, and industrial, and all other accounts or customers not classified as (individually metered) residential customers.
- e. "Person" shall mean any individual, firm, company, association, society, corporation, or group.
- f. "Interceptor" shall mean a sewer conveyance line which is owned and controlled by Alexandria Renew Enterprises.
- g. "Public Sewer" shall mean a sewer conveyance line that is, owned and maintained by the City of Alexandria.
- h. "Sewer Service Connection" shall mean the fittings through which the building sewer is joined to the public sewer and constitutes the point of service for Alexandria Renew

Enterprises. A “Cross-Connection” is an actual or potential link between the potable water supply (water safe for human consumption) and a non-potable source (any other type of liquid, gas or substance not fit for consumption and that can affect water quality).

- i. A “Sewer Meter” is a device utilized to measure the quantity of sewer discharge into the Public Sewer from a premise.
- j. "Deduct Meter" shall mean the meter that is installed on the Commercial Customer property subsequent or downstream from the primary water meter that measures the amount of water that does not enter the wastewater collection system for such Customer. All water use by the Customer is assumed to be discharged to the wastewater collection system for treatment unless specifically identified through metering pursuant to a Deduct Meter. Water measured by the Deduct Meter is subtracted from the total water measured by the primary water meter to calculate the Wastewater Treatment Charges for the Customer.
- k. "Premises" shall mean:
 - i. Each residential dwelling structure.
 - ii. Each residential dwelling unit in a duplex, triplex, apartment building, or in any other building that is used for residential purposes.
 - iii. Each unit contained in a structure serving more than one tenant, lessee, or owner; and used for any purpose other than residential.
 - iv. Each structure or group of contiguous structures, that is owned, rented, or leased by one person and occupied by that person. The following shall also be considered one premise:
 - 1. Residence used as a rooming house
 - 2. Dwelling or building for transients
 - 3. Apartment building or residential condominium where the water utility bill is included in the rent or condominium fee.
- l. An “Extended Absence” is any absence greater than 60 days.
- m. "Water Company" shall mean Virginia American Water Company, its successors or assignees which provide potable water to customers within the City of Alexandria.

Rule No. 2 – General

- a. There shall be no free service rendered by Alexandria Renew Enterprises, and, if any local, state, or federal government, or any department, agency or instrumentality thereof, or any other public body shall desire service to be rendered by Alexandria Renew Enterprises, it shall apply for and receive such service pursuant to the rules and regulations herein contained and shall pay for the same at the established rates, fees, and other charges.
- b. The service pipes, building sewers, meters, piping and fixtures on the Customer's Premises shall be accessible to Alexandria Renew Enterprises for observation or inspection at reasonable hours.
- c. Employees or agents of Alexandria Renew Enterprises are expressly forbidden to demand or accept any compensation for any service rendered to its customers

except as covered by its Rates, Rules and Regulations.

- d. No employee or agent of Alexandria Renew Enterprises shall have the right or authority to bind it by any promise, agreement, or representation contrary to the letter or intent of these Rules and Regulations.
- e. Any complaint against the service or employees of Alexandria Renew Enterprises should be made in writing or electronically to Alexandria Renew Enterprises.

Rule No. 3 – Special Contracts

Alexandria Renew Enterprises may enter into contracts with any person, firm, or corporation, including municipalities, sanitary districts and other political subdivisions and public bodies, for the rendering of any wastewater service; provided, however, that the rates or charges to be paid thereunder shall not be less than an amount which is fair and equitable, taking into account the cost to Alexandria Renew Enterprises for providing such service.

Rule No. 4 – Extension of Public Sewers

Applicants for service to a premises not already having direct access to an adequate existing public sewer must make application to the City of Alexandria to extend and/or upgrade the public sewer system. In addition to City ordinance requirements, applicants must provide, free of charge to Alexandria Renew Enterprises, any easement necessary for installation, operation and maintenance of sanitary sewers or other facilities owned by Alexandria Renew Enterprises.

Connections to the public sewers shall be regulated and authorized by the City of Alexandria. No private connection shall be permitted to any Interceptor or other facility owned or operated by Alexandria Renew Enterprises unless expressly authorized in writing by Alexandria Renew Enterprises.

It is the responsibility of Virginia American Water to establish and maintain cross-connection control programs to detect, prevent, and eliminate cross-connections that may create an imminent and substantial danger to the public health.

Rule No. 5 – Quantity and Quality Determinations for Continuing Service Charge

- a. The quantity of sewage discharged into the public wastewater system shall be assumed to be equal to the quantity of water registered by the water meter or meters measuring the entire flow to the premises; less those flows that are separately metered by Alexandria Renew Enterprises through the installation of a Deduct Meter that serves only appliances and/or facilities that are not connected to the public sewer in any manner.
- b. Where discharge to the public sewer from a specific appliance or process is of significantly lesser volume than that registered by the meter, the quantity discharged may be measured as the basis for the quantity of sewer service. Alexandria Renew Enterprises reserves the right, at its sole discretion, to estimate the quantity of sewer service required by such specialized appliance or process.
- c. Alexandria Renew Enterprises reserves the right to determine the quantity and/or quality of sewage by any accurate method of measurement and/or analysis of discharge from the premises sewer. If the quantity is found to be in excess of the quantity measured by the customer's water meter or meters, the customer shall be back charged not less than six months on the basis of the greater flow and shall be required to install meter or meters in such a manner as may be specified by

Alexandria Renew Enterprises.

- d. If the quality of wastewater discharge does not comply with the requirements of Alexandria Renew Enterprises, immediate steps shall be taken by the customer to comply, and costs of necessary analysis and compliance shall be paid by the customer.

Rule No. 6 – Meters and Meter Installation

- a. All water meters except Deduct Meters are installed, owned, maintained, and read by Virginia American Water. All customer meters are read monthly by the Water Company and the billed water use measured in thousand gallons and meter size used to service the Customer as provided by the Water Company is provided to and relied upon by Alexandria Renew Enterprises for purposes of billing its Customers the monthly Wastewater base charges and wastewater treatment charges. Alexandria Renew Enterprises reserves the right to estimate the amount of wastewater flow if the water meter readings are considered inaccurate; Alexandria Renew Enterprises will correct billings to its Customers upon the receipt of subsequent corrected information as an adjustment in the subsequent bill for wastewater service or on some other basis as may be determined by Alexandria Renew Enterprises.
- b. Deduct Meters will be read monthly by Alexandria Renew Enterprises or its designee.
- c. The customer shall promptly notify Water Company and Alexandria Renew Enterprises of any calibration failure, defect in, or damage to the meter or its connection.

Rule No. 7 – Sewer Meters

- a. Alexandria Renew Enterprises may, at its sole discretion, enter into agreements with Commercial Customers to measure its sewer service through the use of a sewer meter or meters.
- b. The sewer meter shall be installed by the applicant, in a place readily accessible to Alexandria Renew Enterprises for reading. If access is deemed unsafe by Alexandria Renew Enterprises or its designee, Customer will be responsible for moving the sewer meter to an accessible location. Upon installation of the meter by the applicant, the sewer meter shall be contributed to and become the property of Alexandria Renew Enterprises.

Rule No. 8 – Deduct Meters

- a. Where Alexandria Renew Enterprises is to issue a permit for the use of a Deduct Meter, an application for Deduct Meter service shall be made by the property owner or their designated agent at the offices of Alexandria Renew Enterprises.
- b. All customers with Deduct Meters are responsible for maintaining the Deduct Meter and remote read device in a good working condition. Meter shall be calibrated annually by an appropriate licensed contractor and results submitted to Alexandria Renew Enterprises; if a Customer does not provide Alexandria Renew a copy of the deduct meter calibration results, Alexandria Renew Enterprises reserves the right to discontinue the recognition of the deduct meter water flows in the application of Wastewater Treatment Charges.

- c. Alexandria Renew Enterprises staff shall review the application fee from time to time and make a recommendation for any changes. All customers with Deduct Meters are responsible for the sub-meter and remote meter device and for readings to be performed.
- d. Should any meter and/or its appurtenances become damaged, including any damage that may result from allowing the meter to become frozen, it shall be the responsibility of the property owner to get the meter repaired. No Deduct Meter credit adjustment will be made for or during the period when the Deduct Meter is out of service for repair.

Rule No. 9 – Customer's Liability for Charges

- a. A Customer who has made an application for or received service at a Premises shall be held liable for all service furnished to such premises until such time as the Customer has properly notified the Water Company to discontinue the service for the account.

Rule No. 10 – Bills for Service

- a. Customers are responsible for furnishing their correct addresses and corresponding service information to the Water Company.
- b. Failure to receive bills will not be considered an excuse for nonpayment nor permit an extension of the date when the account will be considered delinquent.
- c. If bills are to be sent to an address other than the Premises served, the Water Company shall be notified by the Customer of any change of address.
- d. If requested in writing by the owner-customer, Alexandria Renew Enterprises will send bills to and receive payments from agents or tenant-customers. However, this accommodation will in no way relieve the owner-customers of the liability for all charges, in accordance with the Virginia Water and Waste Authorities Act (Chapter 51, Title 15.2, Section 5100 et seq., Code of Virginia, 1950 as amended.)
- e. Payments shall be made by mail to the lockbox provider selected by Alexandria Renew Enterprises or such other places or methods as may be designated by Alexandria Renew Enterprises.
- f. Alexandria Renew Enterprises reserves the right to correct any bills rendered in error.
- g. Each Customer, as defined in Rule No. 1, shall be billed separately for service.
- h. Bills will be rendered monthly.

Rule No. 11 – Terms of Payment

- a. Bills for sewer service shall be payable on or before stated due date.
- b. If a bill is not paid within twenty-one (21) days after the billing due date, and payable, and after notice has been properly provided by Alexandria Renew Enterprises to the Customer of record, water and wastewater service may be discontinued, and the wastewater deposit, if any, may be applied against such bill and any other arrears

due by the Customer.

- c. There may be a lien upon the real estate for the amount of any rates, fees, and other charges made by Alexandria Renew Enterprises to the owner or lessee or tenant of such real estate for the services rendered by Alexandria Renew Enterprises to such real estate from and after the time when such rates, fees, and other charges are due and payable and for the interest which may accrue thereon.
- d. There shall be a handling charge corresponding to bank fees for all returned checks which have been submitted to Alexandria Renew Enterprises for payment of any applicable charges.
- e. A late payment charge of ten percent of the unpaid balance on accounts not paid within 21 days of their billing date may be charged and collected by Alexandria Renew Enterprises.
- f. Alexandria Renew Enterprises may report the failure of a Customer to make payments within 95 days to appropriate credit reporting agencies in accordance with federal and state law.

Rule No. 12 – Abatement

There shall be no abatement of the service charges in whole or in part by reason of an extended absence of the customer, unless service has been discontinued at his request.

Rule No. 13 – Service Termination Fee

If any premise violates these Rules and Regulations and it has become necessary to discontinue water service, a non-negotiable service termination fee will be assessed and added to the account. In cases where service disconnection has occurred, this charge, together with any arrears that may be due Alexandria Renew Enterprises, shall be paid before the water will be turned on.

Rule No. 14– Discontinuance of Service

- a. As per Va. Code Section 15.2-5138, water service may be discontinued by Alexandria Renew Enterprises, through the Water Company after ten (10) days' notice for any of the following reasons:
 - i. Willful or indifferent waste of water due to any cause.
 - ii. Failure to protect and maintain the service pipe or plumbing fixtures including the water meter and its protective devices, and drainage system on the property of the customer in a condition satisfactory to Alexandria Renew Enterprises.
 - iii. Tampering by the Customer or others with the knowledge of the customer, with any meter, connection, service pipe, curb stop, seal, drainage system, piping or any other appliance of the Water Company or Alexandria Renew Enterprises controlling or regulating the Customer's water supply or sewage flow.
 - iv. Failure to provide Alexandria Renew Enterprises' and/or the Water Company's employees free and reasonable access to the premises served, or for

- obstructing the way of ingress to the meter or other appliances controlling or regulating the Customer's water supply or sewage flow.
- v. Nonpayment of any account for wastewater service, or for any fee or charge accruing under these Rates, Rules and Regulations.
 - vi. Violation of any rule or regulation of Alexandria Renew Enterprises.
 - vii. Failure to correct cross connection violations as identified by Alexandria Renew Enterprises, in accordance with Rule 4 herein.
 - viii. In case of death of the Customer, in whose name the account is opened, parties that continue service at a premise must contact the Water Company to change the account Customer name. Failure to change the named customer is a violation of Alexandria Renew Enterprises' "Rates, Rules, and Regulations".
- b. Service may be discontinued by one of the following methods:
 - i. Where water is supplied by the Water Company, supply will be cut off and the meter removed.
 - ii. Where water is furnished by the owner, or by other than the Water Company, Alexandria Renew Enterprises reserves the right to (a) remove the sewer meter used for measuring the flow to the wastewater facilities, (b) seal the building drain or sewer, or (c) remove the connection to the public sewer.
 - c. Discontinuing wastewater service or the supply of water to a premises for any reason shall not prevent Alexandria Renew Enterprises from pursuing any lawful remedy by action at law or otherwise, for the collection of monies from the Customer.
 - d. When service to a customer has been terminated for any of the above stated reasons, other than temporary vacancy of the premises, it will be renewed only after the conditions, circumstances, or practices which caused the service to be discontinued are corrected to the satisfaction of Alexandria Renew Enterprises and may require payment of all charges due and payable by the Customer in accordance with these Rates, Rules, and Regulations.

Rule No. 15 – Restoration of Service

- a. When it becomes necessary to discontinue service to any Customer because of a violation of these Rates, Rules, and Regulations or because of nonpayment of any bill, charges shall be made as follows:
 - i. If service was discontinued only by turn-off of water supplying the Premises, the Customer may pay a connection charge as presented in Section 2, Schedule D of these Rates, Rules, and Regulations for turning on the water plus any arrears that may be due to Alexandria Renew Enterprises for charges related to turn-off/turn-on and associated administrative costs.
 - ii. If service was discontinued by removal of the meter, or by sealing the building drain, or by removal of the connection to the public sewer, Customer shall pay as a charge the actual cost of restoring the service, including all labor,

materials, and overhead plus 100% of said actual costs including labor, materials and overhead. Said charge shall be estimated by Alexandria Renew Enterprises upon application for restoration of service and the Customer shall pay the amount of the estimate prior to restoration of service. Any adjustments in actual cost will be made upon completion of restoration of service.

- b. Restoration of service for nonpayment of wastewater service will only occur during regular business hours for Alexandria Renew Enterprises. Same-day water service restoration will not be provided. It is the Customer's responsibility to ensure payment has been received by Alexandria Renew Enterprises.
- c. If at the time of such discontinuance of service for nonpayment of bill the customer has not made a deposit, Alexandria Renew Enterprises may require a deposit, whether Customer is property owner or not, as a guarantee of payment of future bills. Deposit shall equal the amount of the estimated bill for two regular billing periods and, in no case, be less than the minimum deposit established codified by these Rates, Rules, and Regulations, before the water and the corresponding wastewater service will be turned on. The deposit will be refunded when service has been discontinued, after deducting any charges due on final settlement of the Customer's account.
- d. When a Customer has requested discontinuance of water service because of temporary vacancy, wastewater service is being furnished by Alexandria Renew Enterprises, and where all bills have been paid, Alexandria Renew Enterprises may charge a turn-on fee as presented in Section 2, Schedule D for the restoration of both water and wastewater service.

Rule No. 16 – Water Leaks and Adjustments

- a. In the event of a water leak, the Customer shall immediately notify the Water Company.

Alexandria Renew Enterprises is not responsible for maintaining the public water main and water service connection or individual Customer notifications.
- b. Alexandria Renew Enterprises may consider, on a case-by-case basis, whether to adjust wastewater bills based on documented water leaks. Among the factors to be considered will be whether the Water Company accepts responsibility for the leak or potential misread of the meter. If an adjustment is made, the maximum amount will be 50% of the bill and a one-time courtesy adjustment will be allowed per Customer account owner.
- c. If a leak is found not to be the responsibility of Alexandria Renew Enterprises, the Customer will be notified and shall have the leak repaired by a registered plumber at his expense.

Rule No. 17 – Refund policy

Customers that overpay an account in error shall not receive a refund of the over-payment unless the over payment is greater than two (2) times the average billing amount. Over-payments shall be credited to a Customer account and used to offset/pay the next bill due. In a situation where a refund is appropriate, Alexandria Renew Enterprises will apply credits to the same credit card accounts

rendering the payment. Customers making payments by check may apply for a check refund that may be made after a 30 day clearing period (no exceptions).

Rule No. 18 – Adjustment of Fixed Charges Based on Oversized Meters

Upon request of a Customer, the Chief Executive Officer (CEO) may apply the fixed charge for a smaller meter, if the CEO determines at his/her discretion that:

- a. The Customer's actual water usage over the multiple billing periods is significantly less than the typical consumption for the size of water meter installed; and
- b. The potential for significantly higher water usage in the future is unlikely based on one or more of the following factors:
 - i. Whether the meter combines fire flow and potable water uses;
 - ii. The size and use classification of the structure served limited water usage; and
 - iii. Other legally binding use restrictions limit water usage.

Alexandria Renew Enterprises further reserves the right to apply the fixed charge for the actual meter size if any of these factors change in the future.

III. Amendment and Interpretation

Alexandria Renew Enterprises reserves the right to revise and/or amend these Rates, Rules, and Regulations to interpret the meaning of all statements made herein.

IV. Effective Date

The Rates, Fees, and Other Charges; Rules and Regulations herein contained shall become effective as revised on July 1, 2023 and shall remain in effect thereafter until further revised.



FY 2024 Operating & Capital Budget

July 1, 2023 - June 30, 2024
Alexandria, VA

FY2024 Budget – Approved for Public Notice – April 18, 2023

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**Alexandria Renew Enterprises
Board of Directors**

John B. Hill, Chair
James Beall, Vice Chair
William Dickinson, Secretary-Treasurer
Adriana Caldarelli, Member
Mark Jinks, Member

Fairfax County Representative to the Board

Shahram Mohsenin, P.E.

Executive and Financial Staff

Justin Carl, P. E., Chief Executive Officer
Wendy Callahan, Chief Human Resources Officer
Allison Deines, Chief Water Quality Officer
Caitlin Feehan, Chief Administrative Officer
Felicia Glapion, Chief Engineering Officer
Dave Roberts, Chief Information Technology Officer
Lake Akinkugbe, Director of Finance

Chief Executive Officer's Message

To the AlexRenew Board of Directors and our Customers:

As Alexandria's resilient provider of healthy waterways, Alexandria Renew Enterprises (AlexRenew) plays an important role in ensuring that our community remains a thriving location for people to live, work, learn, and visit. Each year, AlexRenew fulfills its mission by investing in wastewater infrastructure, supporting local businesses, creating jobs, and improving public health.

The proposed budget and rate structure for AlexRenew's Fiscal Year 2024 (FY2024) will minimize increases to customers while maintaining operations and supporting the construction of the largest infrastructure project in the history of the city. The operating budget is projected to be \$33.0 million, representing an 8.5 percent year-over-year increase. This increase accounts for inflationary conditions that affect AlexRenew's ability to procure energy, chemicals, supplies, and necessary services. The adjustments will also allow the organization to invest in employees and comply with ongoing regulatory requirements.

The proposed capital budget for FY2024 totals \$212.5 million. This budget represents a 20.8 percent increase over FY2023 and reflects the peak spending associated with the RiverRenew program. Since the inception of RiverRenew, AlexRenew has received (or is in the process of securing) grants from the Commonwealth of Virginia totaling \$140 million. The grants are helping to reduce AlexRenew's debt capacity associated with the program, which assists in offsetting rate increases to customers.

At AlexRenew, we are committed to improving our local waterways and making our community a cleaner, healthier place for all. We appreciate your continued partnership and thank you for your support of our mission.

A handwritten signature in blue ink, appearing to read "Justin Carl".

Justin Carl, P. E.

AlexRenew General Manager and Chief Executive Officer

Section 1 Understanding the Budget

AlexRenew's budget is a financial instrument, crafted within a financial, legal, policy, regulatory, and capital investment framework to ensure financial sustainability, support public health, and provide a clean, healthy water environment for the community. The budget is developed in a manner that ensures AlexRenew has the financial resources to efficiently construct, operate, and maintain a water resource recovery facility, intercepting system, and pump stations that comply with state and federal law.

Current expenses and capital outlays are estimates based on experience and judgment related to cost trends in labor, materials, and services required to operate and maintain AlexRenew's facilities. AlexRenew has no discretion with respect to the level of service it must provide to meet its regulatory requirements, and no discretionary programs within its assigned scope of activity. The primary purpose of the budget is to ensure AlexRenew maintains its mandated level of service, satisfies the requirements of the Master Indenture of Trust (Indenture), and achieves the objectives of AlexRenew's Financial Policies.

AlexRenew has only two major sources of revenue to fund all expenditures: wastewater treatment charges paid by City of Alexandria customers, and the reimbursement of a portion of expenses paid by Fairfax County. Fairfax County makes payments to AlexRenew under an amended and restated Service Agreement dated October 1, 1998 (Fairfax County Service Agreement). In accordance with the Fairfax County Agreement, Fairfax County pays a percentage of operations and maintenance expenses based upon sewer flow volume. Fairfax County also contributes to the Improvement, Renewal, and Replacement Fund (IRR) and Capital Improvement Program (CIP), at predetermined levels, to allow for the upgrade and replacement of capital assets as they depreciate, and the acquisition of new assets associated with regulatory compliance.

1.1 How is AlexRenew's Budget Organized?

AlexRenew builds its budget from documents that provide legal or internal policy direction. These documents include the Indenture and related financing documents; the Fairfax County Service Agreement; a service agreement with the City of Alexandria; a service agreement between AlexRenew and Arlington County (Arlington County Service Agreement); and Financial Policies adopted by the AlexRenew Board of Directors.

The Indenture is a legal agreement that mandates how AlexRenew will collect and use its revenues for operations, maintenance, and capital expenses. The Indenture requires that wastewater treatment charges collected from City of Alexandria sewer system customers be deposited in a Revenue Fund. The Indenture is also requires operating expense payments that are made by Fairfax County to AlexRenew, for its reserved capacity in the sewer system, also be deposited in the Revenue Fund. The amount due to AlexRenew from Fairfax County is established in the Fairfax County Service Agreement.

The Fairfax County Service Agreement further directs the amount and timing for monies to be paid by the County to AlexRenew for improvements and repairs to the sewer system infrastructure and investments in major capital projects.

The Arlington County Service Agreement is similar to the Fairfax County Service Agreement. This legal document establishes the amount and timing for monies paid by AlexRenew to Arlington County for agreed upon capacity in the Arlington County sewer system that treats wastewater flows from the northwestern quadrant of the city.

AlexRenew's budget is also structured to comply with the Financial Policies adopted by the Board of Directors to maintain a combined 120 days of reserves in the Operating Fund and General Reserve sub-Fund, to ensure that revenues available to pay debt service are at least equal to 1.50 times the amount of debt service due in any fiscal year, and to fund at least 15% of the CIP from cash and reserves (PAYGO).

1.2 What is AlexRenew's Strategic Plan?

The AlexRenew Strategic Plan cascades from the AlexRenew 2040 Vision, shown on the following page. The 2040 Vision was originally developed in 2012 by AlexRenew's citizen-led Board and was most recently updated in 2018.

Section 2 AlexRenew’s 2040 Vision

AlexRenew’s 2040 Vision is to effectively partner with all watershed stakeholders to:

| | |
|---|--|
| Enable local citizens the opportunity to embrace the best use of water resources and establish a personal connection with local waterways. | Create a healthy environment and improve quality of life through the exceptional reclamation of used water resources. |
| Sustainably manage water as a single resource through the entire water cycle. | Maximize use of multiple financial options to continue fiscal stability . |

In support of AlexRenew’s 2040 Vision, the following strategic outcomes set organizational objective and budget.



Operational Excellence: Continually enhance water resource and recovery procedures to provide exceptional quality products.



Public Engagement and Trust: Engage our community to help them become informed consumers and supporters of clean water.



Watershed Stewardship: Facilitate collaboration to collectively manage and improve water resources.



Adaptive Culture: Establish an organization-wide commitment to exceptional outcomes through an enthusiasm for learning, adapting, and solving problems to achieve clean water.



Effective Financial Stewardship: Manage our financial resources to create an efficient and resilient organization that contributes to the health of the local economy.

Section 3 Budget Timeline

AlexRenew utilizes a fiscal year cycle ending June 30. The FY 2024 budget will encompass the 12-month period from July 1, 2023 – June 30, 2024. AlexRenew typically develops the budget during the prior fiscal year before it undergoes review by the Board of Directors and the public. The FY2024 budget cycle also includes the adoption of new rates and charges for FY2024 and FY2025.

Table 3.1. Schedule for FY2024 budget and rate adjustment

| Item | Feb | Mar | Apr | May | Jun | Jul |
|--------------------------------------|--|---|--|---|---|--|
| Board Meeting | Feb 21. Rate History and Principles Presentation | Mar 21. FY2024 Preliminary Budget and Rate Proposal | Apr 18. Adopt Draft Budget and Approve Resolution for Public Hearing | | Jun 20. Approve FY2024 Budget and Rate Proposal | |
| Finance & Audit Committee | | Mar 27. Review Preliminary Budget and Rate Proposal | | | | |
| Public Notice | | | Apr 20 or 27. Alexandria Gazette | May 4. Alexandria Gazette (if 1 st posting Apr 27) | | |
| Draft Budget and Rate Hearing | | | | Sat., May 20 9am – 12pm | | |
| Rate Adjustment | | | | | | Jul 1. Implement Rate Adjustment |

Section 4 Consolidated Enterprise Budget Statement

AlexRenew begins its annual budget presentation by preparing a Consolidated Enterprise Budget Statement (Statement) that combines all the estimated sources and uses of funds for the upcoming fiscal year. This statement is organized in accordance with the terms mandated in Article VII of the Indenture. The primary purpose for this Statement is to demonstrate that the overall FY2024 operating and capital budgets are in “structural” balance – which means all of the revenues and expenses are consistent with the historical financial performance, all balances that remain in the prescribed funds and accounts meet stated requirements, and if total revenues exceed total expenses, any potential excess funds are deposited in the General Fund to serve as reserves.

The chart below serves as a glossary that can be used to better understand the purpose, order of priority, and funding method for each of the Funds and Accounts established in the Indenture.

Table 4.1. Flow of Funds in the Master Indenture of Trust

| Master Indenture of Trust – Flow of Funds | |
|--|---|
| Revenue Fund | Revenues ¹ are initially deposited to the Revenue Fund and then transferred to other funds in the following order of priority. |
| Operating Fund | Revenues are then deposited to the Operating Fund to pay operating expenses. At the end of each month, AlexRenew must ensure that 1/6 th (or 60 days) of annual budgeted operating expenses are deposited into the Operating Fund. |
| Bond Fund | Revenues are then deposited to the Bond Fund in order to pay debt service payments. |
| Debt Service Reserve Fund | Any required transfers to the debt service reserve account must be made. |
| Joint IRR ² Fund | Revenues then deposited to the Joint IRR Fund to meet required Joint IRR transfers per Fairfax Agreement |
| General IRR ² Fund | Revenues then deposited to the General IRR Fund to meet required Alex-only specific IRR needs |
| General Fund | Any remaining revenues deposited within the General Fund |

¹Revenues means all revenues, receipts, and other income derived or received by AlexRenew from owning and operating its system. This primarily includes AlexRenew Wastewater Treatment Charges and Fairfax County operating expense charges.

²Improvement, Renewal, and Replacement

The schedule below (Table 4.2) summarizes the funding sources and budgeted expenses associated with AlexRenew’s FY2024 budget, which totals \$262.8 million, a 18.7% increase compared to the prior year.

Table 4.2. Condensed Summary of Funding Sources and Budgeted Expenses

| Funding Sources and Budgeted Expenses | Adopted FY2023 | Proposed FY2024 | ANNUAL VAR % |
|---|-----------------------|-----------------------|--------------|
| OPERATING REVENUES | | | |
| AlexRenew Wastewater Treatment Charges | \$ 50,922,485 | \$ 53,672,299 | 5.4% |
| Fairfax County Operating Expense Charge | 11,694,706 | 12,796,021 | 9.4% |
| | \$ 62,617,191 | \$ 66,468,320 | 6.2% |
| IR&R AND CAPITAL CONTRIBUTIONS | | | |
| Fairfax County IRR Contribution | \$ 3,477,819 | \$ 3,723,671 | 7.1% |
| Fairfax County Capital Contribution | 30,699,887 | 32,696,130 | 6.5% |
| | \$ 34,177,706 | \$ 36,419,800 | 6.6% |
| DEBT PROCEEDS AND OTHER SOURCES | | | |
| Parity Debt Proceeds | \$ 118,814,132 | \$ 153,652,896 | 29.3% |
| Interest Income | 115,000 | 115,000 | 0.0% |
| Use of Fund Balances | 5,695,285 | 6,155,291 | 8.1% |
| | \$ 124,624,417 | \$ 159,923,187 | 28.3% |
| TOTAL FUNDING SOURCES | \$ 221,419,313 | \$ 262,811,307 | 18.7% |
| OPERATING AND MAINTENANCE (O&M) EXPENSES | | | |
| O&M Expenses (Alex-Only) | \$ 18,748,282 | \$ 20,227,572 | 7.9% |
| O&M Expenses (Joint) | 11,694,706 | 12,796,021 | 9.4% |
| | \$ 30,442,988 | \$ 33,023,593 | 8.5% |
| NON-OPERATING EXPENSES | | | |
| Parity Debt Service | 14,739,509 | 16,448,494 | 11.6% |
| Joint IRR | 10,327,855 | 10,652,748 | 3.1% |
| Alex-only IRR | 689,475 | 166,000 | -75.9% |
| Fund Balance Additions | 337,972 | 876,587 | 159.4% |
| | \$ 26,094,810 | \$ 28,143,829 | 7.9% |
| CAPITAL OUTLAY | | | |
| RiverRenew | \$ 123,600,000 | \$ 162,278,264 | 31.3% |
| General CIP (Alex-only) | 3,481,290 | 8,183,100 | 135.1% |
| General CIP (Joint) | 37,800,225 | 31,182,521 | -17.5% |
| | \$ 164,881,515 | \$ 201,643,885 | 22.3% |
| TOTAL EXPENSES AND CAPITAL OUTLAY | \$ 221,419,313 | \$ 262,811,307 | 18.7% |

The FY2024 revenue projection is based on the rates and charges AlexRenew anticipates will be in effect for FY2024 as further detailed in this document.

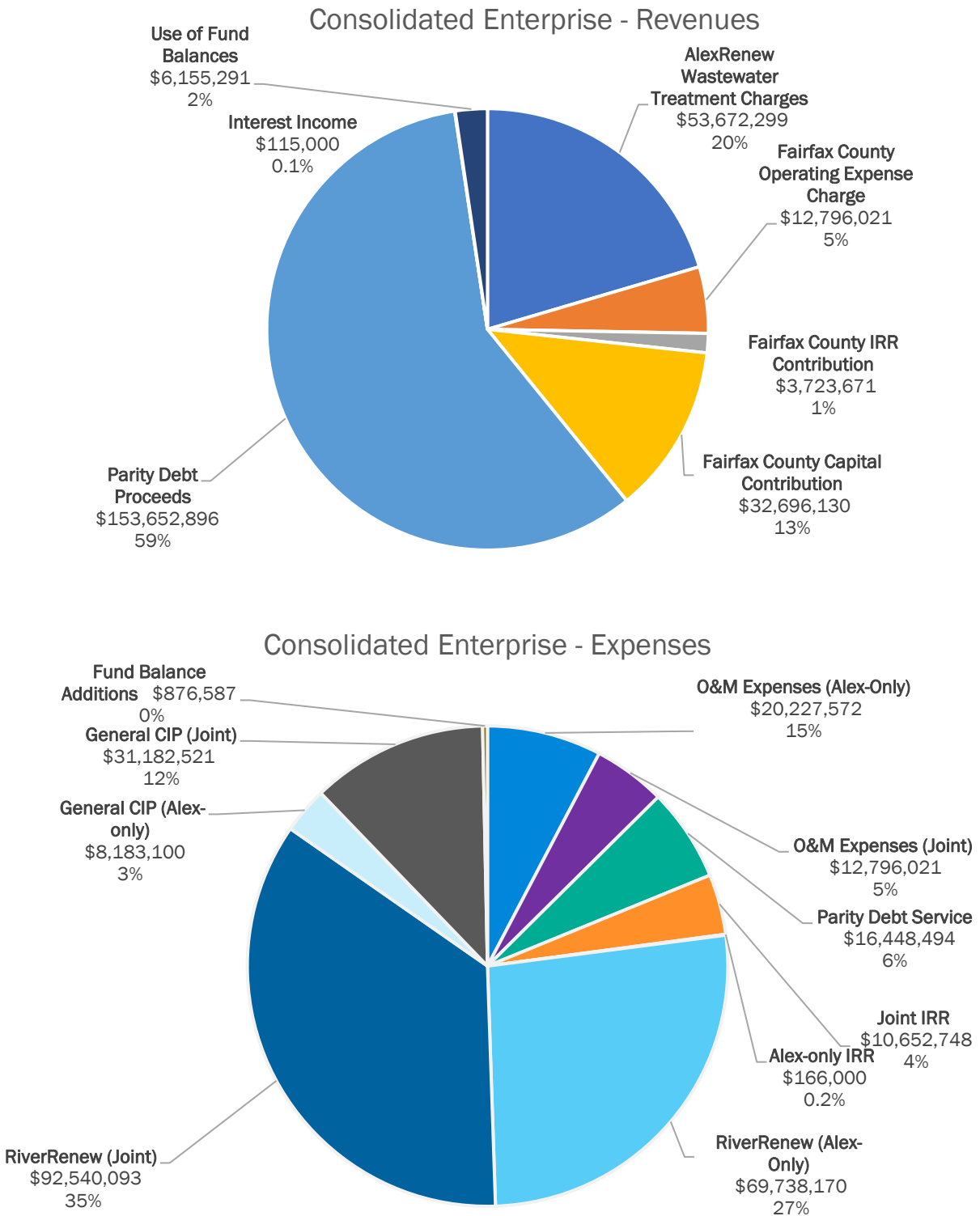
At approximately 76.7%, capital outlay represents the largest share of the budget. Together with the Parity Debt Service Fund at 6.3%, these combined expenses comprise 83.0% of the FY2024 budget.

The FY2024 operating budget reflects an increase of 8.5%. As global and regional markets continue to recover from the COVID pandemic, many core expense areas are experiencing significant cost increase pressures, including energy, chemicals, construction, labor, and transportation. As such, the budget accounts for current market conditions while maintaining efficiency across the business and conservatively planning for future needs.

The FY2024 capital budget reflects continued momentum in the capital program with \$201.6 million in planned spending across the RiverRenew and other capital projects. Funding for improvement, renewal, and replacement projects increased year-over-year reflecting an effort to ensure timely upgrades of AlexRenew’s infrastructure to maintain efficient operations. The budget funds the capital program with cash and reserves, along with \$153.7 million in debt proceeds for RiverRenew construction.

The charts below further depict the funding sources and budgeted expenses for FY2024, again highlighting the significant activity related to debt financing and capital project construction associated with RiverRenew.

Figure 4.1. Consolidated Enterprise Revenues & Expenses for FY2024



Section 5 Determining Rates, Charges, and Revenues

For more than eighteen years, AlexRenew has employed rate modeling to analyze, evaluate, and implement an annual and long-term fee structure to support the financial obligations of the enterprise. AlexRenew has engaged an independent, third-party consultant to develop and monitor a rate model designed specifically for AlexRenew. This model is used to manage revenue performance in the current year and to forecast revenue requirements, based on anticipated operating and capital costs, each year over a 10-year time horizon.

In addition to rate modeling, the AlexRenew Board of Directors (AlexRenew Board) has adopted a strong Financial Policy (see Appendix A) to guide the approach to setting rates and maintaining a sustainable financial position. These policies target key financial metrics, represent best practices, and ensure AlexRenew maintains cost-efficient operations while delivering superior public services for AlexRenew's customers and community.

5.1 The Rate Modeling Process

Annually, upon completion and acceptance of AlexRenew's audited financial statements, and more frequently as necessary, rate consultants review and update the AlexRenew rate model. This process, and the model, is heavily data-driven and uses historical and projected data comprised of billing statistics, historical financial data, the current budget, and capital plan forecasts. The rate consultants perform comprehensive due diligence exercises to validate all information provided by AlexRenew and obtained from other relevant sources. Once validation is complete, the rate consultants review their findings with AlexRenew leadership to discuss observed historical trends, how they compare to prior forecasts, what the current projections are, and whether the consultants should adjust for known conditions, such as a contingency.

The resultant revenues, and assumptions of additional debt and capital funding, are evaluated relative to AlexRenew's annual cash flow requirements and likely financial position at year-end. This iterative process allows AlexRenew and its rate consultants to examine how subtle changes to rates or assumptions today have the potential to materially influence financial position across the forecast. It also allows for sensitivity analysis and the ability to examine AlexRenew's financial profile under various hypothetical scenarios, which is instructive to management and provides a stronger basis for recommending the timing and magnitude of potential rate adjustments.

As a single, dominant revenue source that accounts for over 80% of operating revenues, the Wastewater Treatment Charges are critical to the funding of current operations and long-term financial viability. As a result, it is imperative to combine a thorough understanding of the rate modeling process, strict adherence to the terms of the Indenture, faithfulness to AlexRenew's Financial Policies, and the needs of the community when establishing rates and charges.

5.2 Revenue Growth Assumptions

AlexRenew has historically modeled growth in Wastewater Treatment Charges of approximately 0.50% - 2.00% and Fairfax County Operating Expense Charges of approximately 1.00% - 3.00% when determining rates and revenues over the forecast period.

5.3 Expenditure Growth Assumptions

AlexRenew has historically used CPI to evaluate costs over the forecast period and has commonly assumed an inflation range of 2.0% to 3.5%.

5.4 Revenue Forecast Assumptions

Starting in FY2020, AlexRenew began implementing a multi-year phased rate increase initiative, primarily to fund capital expenditures including the RiverRenew program. The revenue assumptions included in this budget includes annual rate increases that are proposed for FY2024 and FY2025, as further described on the following page.

5.5 Rates and Charges

The following schedule details the monthly rates and charges for all individually metered residential customers and commercial customers discharging sewage to and/or requiring wastewater treatment service from AlexRenew. Commercial wastewater customers include all commercial, industrial, government, and other public agencies, master-metered residential, and all other accounts or customers not otherwise classified as individually metered residential customers.

A wastewater customer’s monthly bill for wastewater interception, treatment, and discharge services is based on the sum of their: (1) base charge and (2) wastewater treatment charge, as determined by water meter readings conducted by Virginia American Water, at the customer premise. The base charge serves as the minimum monthly bill for sewer service for all customers served by AlexRenew.

The AlexRenew Board approved rate adjustments in 2019 and 2021, each for two-year periods to fund the RiverRenew program. New rates went into effect on July 1, 2019 for FY2020, July 1, 2020 for FY2021, July 1, 2021 for FY2022, and on July 1, 2022 for FY2023. AlexRenew is proposing rate a 5.4% for FY2024 and 5.1% for FY2025. These proposed rates are projected to increase the average bill by approximately \$2.71/month and \$2.72, respectively in each year (based on 4,000 gallons monthly usage). These rate adjustments will allow AlexRenew to maintain its fiscal profile while funding the budget and capital program herein. The chart below details the current FY2023 rate structure and the proposed rate structures for FY2024 and FY2025.

Table 5.5.1. Proposed FY2024 and FY2025 Rate Adjustments to Base Charges
Charge per account based on meter size at the customer premise.

| Description | Meter Size | Current (Effective July 1, 2022) Monthly | Proposed (Effective July 1, 2023) Monthly | Proposed (Effective July 1, 2024) Monthly |
|-------------------------------------|------------|--|---|---|
| Residential Base Charge | All Meters | \$13.14 | \$13.85 | \$14.57 |
| Commercial Base Charge | 5/8" | \$39.42 | \$41.55 | \$43.68 |
| | 3/4" | \$39.42 | \$41.55 | \$43.68 |
| | 1" | \$98.55 | \$103.87 | \$109.19 |
| | 1-1/2" | \$197.10 | \$207.74 | \$218.38 |
| | 2" | \$315.36 | \$332.39 | \$349.41 |
| | 3" | \$591.30 | \$623.23 | \$655.14 |
| | 4" | \$985.50 | \$1,038.72 | \$1,091.90 |
| | 6" | \$1,971.00 | \$2,077.43 | \$2,183.80 |
| | 8" | \$3,153.60 | \$3,323.89 | \$3,494.08 |
| Residential Customer Activation Fee | | \$15.00 | \$15.00 | \$15.00 |

Table 5.5.2. Proposed FY2024 and FY2025 Rate Adjustments to Wastewater Treatment Charges
Charge per account based on water consumption as measured by VAW from meter at customer premise.

| Description | Meter Size | Current (Effective July 1, 2022) Monthly | Proposed (Effective July 1, 2023) Monthly | Proposed (Effective July 1, 2024) Monthly |
|--|------------|--|---|---|
| Individual Meter Residential Wastewater Treatment Charge | All Meters | \$9.26 | \$9.76 | \$10.26 |
| Commercial Wastewater Treatment Charge | All Meters | \$9.26 | \$9.76 | \$10.26 |

Section 6 Revenue Fund Statement

AlexRenew’s Indenture establishes nine (9) funds into which monies may be deposited to manage operating and maintenance, non-operating, and capital obligations. The collection and deposit of monies typically occurs monthly at specified times and in specified amounts, and in a prescribed order of priority.

AlexRenew is required to collect and deposit Revenues, as defined in the Indenture, in the Revenue Fund and make monthly transfers to each of its actively managed funds. Deposits to the Revenue Fund do not include Fairfax County Improvement, Renewal, and Replacement (IRR) payments or Capital Contributions. These dollars are deposited by Fairfax County directly into the Joint Use Facilities Account of the IRR Fund or the Project or General Funds for capital outlay reimbursements, as appropriate.

The schedule below presents adopted and estimated Revenues expected to be received by AlexRenew for the period FY2024 – FY2028, respectively. In addition, planned Revenue transfers to various operating and non-operating funds are provided to highlight the use or purpose of the funds.

Table 6.1. Revenue Fund Summary

| Revenues and Transfers to Revenue Fund | Adopted FY2023 | Proposed FY2024 | VAR % | Estimated FY2025 | Estimated FY2026 | Estimated FY2027 | Estimated FY2028 |
|---|----------------------|----------------------|-------------|----------------------|----------------------|----------------------|----------------------|
| REVENUES | | | | | | | |
| AlexRenew Wastewater Treatment Charges | \$ 50,922,485 | \$ 53,672,299 | 5.4% | \$ 56,420,321 | \$ 59,224,411 | \$ 62,138,252 | \$ 64,779,128 |
| Fairfax County Operating Expense Charge | 11,694,706 | 12,796,021 | 9.4% | 13,180,088 | 13,575,680 | 13,825,488 | 14,079,640 |
| Total Revenues | \$ 62,617,191 | \$ 66,468,320 | 6.2% | \$ 69,600,409 | \$ 72,800,091 | \$ 75,963,740 | \$ 78,858,768 |
| TRANSFERS | | | | | | | |
| Transfer to Operating Fund ¹ | \$ 30,770,960 | \$ 33,890,180 | 10.1% | \$ 34,906,886 | \$ 35,954,092 | \$ 36,673,174 | \$ 37,406,638 |
| Transfer to Parity Debt Service Fund | 14,649,508 | 16,358,494 | 11.7% | 19,036,687 | 21,257,774 | 21,725,453 | 22,133,401 |
| Transfer to IRR Fund - Joint Use Facilities Accou | 2,410,801 | 2,581,224 | 7.1% | 2,704,353 | 3,545,302 | 4,288,525 | 3,044,086 |
| Transfer to IRR Fund - General Account | 689,475 | 166,000 | -75.9% | 349,000 | 166,000 | 166,000 | 166,000 |
| Transfer to General Fund | 14,096,447 | 13,472,422 | -4.4% | 12,603,483 | 11,876,923 | 13,110,587 | 16,108,643 |
| Total Uses | \$ 62,617,191 | \$ 66,468,321 | 6.2% | \$ 69,600,408 | \$ 72,800,091 | \$ 75,963,740 | \$ 78,858,768 |

¹ Includes entire Fairfax County Operating Expense Charge

Section 7 Fairfax County Contributions

The following table demonstrates the method by which Fairfax County annual payments and contributions are determined based on the capacity rights Fairfax County currently receives under the Fairfax County Service Agreement. The County currently makes equal monthly Operating Expense Charge installments into the Revenue Fund, equal monthly contributions into the Joint Use Facilities Account of the IRR Fund, and variable monthly capital contributions (formulaic reimbursements based actual capital expenditures) into the Project Fund.

Table 7.1. Fairfax County Contributions Summary

| Fairfax County Contributions | Adopted FY2023 | Proposed FY2024 | VAR % | Estimated FY2025 | Estimated FY2026 | Estimated FY2027 | Estimated FY2028 |
|--|----------------------|----------------------|-------------|----------------------|----------------------|----------------------|----------------------|
| Operating Expense Charge: | | | | | | | |
| Total Estimated Operating Expenses | \$ 30,442,988 | \$ 33,023,593 | 8.5% | \$ 34,014,301 | \$ 35,034,730 | \$ 35,735,424 | \$ 36,450,133 |
| Less Estimated "Alexandria Only" Expenses | (4,414,233) | (4,546,660) | 3.0% | (4,683,060) | (4,823,552) | (4,968,258) | (5,117,306) |
| Net Estimated Joint Operating Expenses | \$ 26,028,755 | \$ 28,476,933 | 9.4% | \$ 29,331,241 | \$ 30,211,178 | \$ 30,767,166 | \$ 31,332,827 |
| Estimated Fairfax County Net Flow | 45.0% | 45.0% | | 45.0% | 45.0% | 45.0% | 45.0% |
| Estimated Fairfax County Operating Expense Charge | 11,712,940 | 12,814,620 | 9.4% | 13,199,058 | 13,595,030 | 13,845,225 | 14,099,772 |
| Less Alexandria Only Flow Charge | (18,234) | (18,599) | 2.0% | (18,971) | (19,350) | (19,737) | (20,132) |
| Estimated Fairfax County Operating Expense Charge | \$ 11,694,706 | \$ 12,796,021 | 9.4% | \$ 13,180,088 | \$ 13,575,680 | \$ 13,825,488 | \$ 14,079,640 |
| IRR Fund - Joint Account Contribution: | | | | | | | |
| Estimated Joint Use Plant Investment | \$ 841,231,254 | \$ 900,699,169 | 7.1% | \$ 943,664,099 | \$ 1,004,641,248 | \$ 1,036,838,184 | \$ 1,062,211,441 |
| Estimated Joint Use IRR Funding Percentage | 0.7% | 0.7% | 0.0% | 0.7% | 0.7% | 0.7% | 0.7% |
| Additional Transfers | \$ - | \$ - | | \$ - | \$ 1,627,263 | \$ 3,217,280 | \$ - |
| Estimated Joint Use IRR Investment | \$ 5,888,619 | \$ 6,304,894 | 7.1% | \$ 6,605,649 | \$ 8,659,752 | \$ 10,475,147 | \$ 7,435,480 |
| Investment Allocation at 60% | \$ 5,476,416 | \$ 5,863,552 | 7.1% | \$ 6,143,253 | \$ 8,053,569 | \$ 9,741,887 | \$ 6,914,996 |
| Investment Allocation at 49% | 353,317 | 378,294 | 7.1% | 396,339 | 519,585 | 628,509 | 446,129 |
| Investment Allocation at 32% | 58,886 | 63,049 | 7.1% | 66,056 | 86,598 | 104,751 | 74,355 |
| Total IRR - Joint Account Investment | \$ 5,888,619 | \$ 6,304,894 | 7.1% | \$ 6,605,649 | \$ 8,659,752 | \$ 10,475,147 | \$ 7,435,480 |
| Fairfax County Allocation at 60% | \$ 3,285,850 | \$ 3,518,131 | 7.1% | \$ 3,685,952 | \$ 4,832,142 | \$ 5,845,132 | \$ 4,148,998 |
| Fairfax County Allocation at 49% | 173,125 | 185,364 | 7.1% | 194,206 | 254,597 | 307,969 | 218,603 |
| Fairfax County Allocation at 32% | 18,844 | 20,176 | 7.1% | 21,138 | 27,711 | 33,520 | 23,794 |
| Total Fairfax County IRR - Joint Account Contribution | 3,477,819 | 3,723,671 | 7.1% | 3,901,296 | 5,114,449 | 6,186,622 | 4,391,395 |
| AlexRenew Joint IRR Contribution | 2,410,801 | 2,581,224 | 7.1% | 2,704,353 | 3,545,302 | 4,288,525 | 3,044,086 |
| Capital Project Contribution - Joint Use Facilities: | | | | | | | |
| Estimated Joint Capital Improvements at 60%/40% | \$ 37,150,225 | \$ 29,182,521 | -21.4% | \$ 39,793,680 | \$ 57,393,080 | \$ 64,526,615 | 56,985,519 |
| Fairfax County Allocation at 60% | 22,290,135 | 17,509,513 | -21.4% | 23,876,208 | 34,435,848 | 38,715,969 | 34,191,311 |
| Estimated Joint Capital Improvements at 49%/51% | 650,000 | 2,000,000 | 207.7% | 2,500,000 | 1,200,000 | 300,000 | 300,000 |
| Fairfax County Allocation at 49% | 318,500 | 980,000 | 207.7% | 1,225,000 | 588,000 | 147,000 | 147,000 |
| Estimated Joint Capital Improvements RiverRenew | 57,800,000 | 92,540,093 | 60.1% | 64,083,402 | 8,379,997 | - | - |
| Fairfax County Allocation ¹ | 8,091,252 | 14,206,617 | 75.6% | 9,988,276 | 745,429 | - | - |
| Estimated Joint Capital Improvements at 32%/68% | - | - | 0.0% | - | 300,000 | - | - |
| Fairfax County Allocation at 32% | - | - | 0.0% | - | 96,000 | - | - |
| Total Fairfax County Capital Contribution | 30,699,887 | 32,696,130 | 6.5% | 35,089,484 | 35,865,276 | 38,715,969 | 34,191,311 |
| Total Fairfax County Contributions | \$ 45,872,411 | \$ 49,215,821 | 7.3% | \$ 52,170,867 | \$ 54,555,406 | \$ 58,728,078 | \$ 52,662,346 |

Section 8 Operating Fund Statement

Table 8.1. Operating Fund Summary

| Operating Expenses Categories | Adopted FY2023 | Proposed FY2024 | VAR % | Estimated FY2025 | Estimated FY2026 | Estimated FY2027 | Estimated FY2028 |
|---|----------------------|----------------------|--------------|----------------------|----------------------|----------------------|----------------------|
| REVENUES | | | | | | | |
| Transfer from Revenue Fund | \$ 30,770,960 | \$ 33,890,180 | 10.1% | \$ 34,906,886 | \$ 35,954,092 | \$ 36,673,174 | \$ 37,406,638 |
| Interest Income | 10,000 | 10,000 | 0.0% | 10,000 | 10,000 | 10,000 | 10,000 |
| Total | \$ 30,780,960 | \$ 33,900,180 | 10.1% | \$ 34,916,886 | \$ 35,964,092 | \$ 36,683,174 | \$ 37,416,638 |
| EXPENSES | | | | | | | |
| Personnel | \$ 13,859,176 | \$ 16,094,350 | 16.1% | \$ 16,577,181 | \$ 17,074,496 | \$ 17,415,986 | \$ 17,764,306 |
| Utilities | 3,577,585 | 4,238,000 | 18.5% | 4,365,140 | 4,496,094 | 4,586,016 | 4,677,736 |
| Chemicals | 2,524,150 | 3,347,500 | 32.6% | 3,447,925 | 3,551,363 | 3,622,390 | 3,694,838 |
| Operation Maintenance | 1,138,198 | 1,145,250 | 0.6% | 1,179,607 | 1,214,996 | 1,239,296 | 1,264,081 |
| Arlington Sewage Disposal | 1,359,893 | 1,528,443 | 12.4% | 1,574,296 | 1,621,525 | 1,653,956 | 1,687,035 |
| Sludge Disposal | 1,117,930 | 1,298,000 | 16.1% | 1,336,940 | 1,377,048 | 1,404,589 | 1,432,681 |
| General, Admin, Cust. Service and Other | 6,866,056 | 5,372,050 | -21.8% | 5,533,212 | 5,699,208 | 5,813,192 | 5,929,456 |
| Total | \$ 30,442,988 | \$ 33,023,593 | 8.5% | \$ 34,014,301 | \$ 35,034,730 | \$ 35,735,424 | \$ 36,450,133 |
| Excess (Deficiency) ¹ | \$ 337,972 | \$ 876,587 | | \$ 902,585 | \$ 929,362 | \$ 947,750 | \$ 966,505 |
| FUND BALANCE - Beginning | \$ 4,666,354 | \$ 5,004,326 | | \$ 5,880,913 | \$ 6,783,498 | \$ 7,712,860 | \$ 8,660,610 |
| FUND BALANCE - Ending ¹ | \$ 5,004,326 | \$ 5,880,913 | | \$ 6,783,498 | \$ 7,712,860 | \$ 8,660,610 | \$ 9,627,115 |

¹ Operating Reserve Requirement of 60 days cash

Section 9 Personnel

AlexRenew continues to invest in its workforce to attract, retain, and continuously develop top tier water sector professionals. \$16.1 million (48.7%) of AlexRenew’s budgeted operating expenditures are utilized for personnel expenses, consisting of salaries and benefits. Salaries are provided for full and part time employees, while fringe benefits for qualifying employees include healthcare, retirement, social security, short and long-term disability, personal protective gear, and other competitive benefits. Paid time off is provided at a rate based on years of service.

Table 9.1. Personnel Budget Summary

| Personnel Budget | | Operating Budget | |
|------------------------|--------------|------------------------|--------------|
| Salaries | \$12,174,000 | Personnel Budget | \$16,094,350 |
| Benefits | \$3,920,350 | Non-Personnel Budget | \$16,929,243 |
| Total Personnel Budget | \$16,094,350 | Total Operating Budget | \$33,023,593 |

Other personnel and compensation highlights from the FY2024 Budget include:

- In keeping with AlexRenew’s Board-enacted compensation philosophy, AlexRenew completed a compensation study in March 2022 to benchmark positions and determine the competitive posture of AlexRenew’s compensation packages. AlexRenew has 14 general salary grades. The results of the compensation study led to adjustments in salary bands and positions, which have been incorporated into the FY2024 budget. Employees are eligible for performance-based merit pay increases ranging from 2.0 to 5.0% of salary.
- In September 2022, AlexRenew received the employee medical insurance renewal rates from United Healthcare. Based on multiple factors, our renewal rate was zero percent. AlexRenew will continue to offer only one medical plan option, High Deductible with a Health Savings Account. AlexRenew pays 85% for employee-only premiums and 84% of dependent coverage.
- AlexRenew continues to offer a benefits program that balances quality and affordability and includes broad offerings such as the Employee Assistance Program, short and long term disability, family care & tutoring services through Care@Work, legal and identity theft support, and a robust Employee Wellness Incentive Program that encourages participation in wellness program activities, events, and challenges.
- A total of 1,000 hours of professional development training are planned for AlexRenew employees during FY2024, reflecting investment in the of AlexRenew team members.

9.1 Retirement Benefit

Budgeted funds for staff retirement are the contributions AlexRenew pays into the Virginia Retirement System (VRS). VRS administers pension plans and other benefits for Virginia’s covered public sector employees and updates the employer contribution every other even calendar year. AlexRenew’s contribution to VRS increased from 6.44% to 8.19% in July 2022 through June 2024.

Full-time, regular employees hired since January 1, 2014 have been placed into the VRS Hybrid plan unless they are already participating in VRS from previous employment. The VRS Hybrid plan does not offer disability benefits as part of its core provisions. VRS has offered the VLDP (Virginia Local Disability Plan) for jurisdictions who do not elect to opt out. AlexRenew has opted out of the VLDP Plan and provides a comparable disability plan.

AlexRenew currently has 18 employees in the VRS Plan 1 retirement plan, which allowed enrollment before July 1, 2010. AlexRenew has 6 employees in the VRS 2 retirement plan, which was available between July 1, 2010 and December 31, 2013. 77 employees are enrolled in the VRS Hybrid plan, which started on January 1, 2014 and is still in effect.

9.2 Other Post-Employment Benefits (OPEB)

OPEB funding supports retiree healthcare benefits. The FY2024 budget provides for approximately \$150,000 in OPEB funding. AlexRenew currently has 5 retirees enrolled in the retiree medical benefit.

9.3 Workforce by Full Time Equivalent (FTE)

As shown below by Department, the FY2024 budget includes an increase in headcount compared to the FY2023 Approved Budget.

Table 9.3.1. Headcount Summary

| Department | FY2023 Approved | FY2024 Proposed | FTE Impact |
|---|-----------------|-----------------|------------|
| Executive | 3.0 | 3.0 | 0.0 |
| Human Resources | 6.0 | 6.0 | 0.0 |
| Information Systems | 10.0 | 10.0 | 0.0 |
| Administration | 16.0 | 16.0 | 0.0 |
| Communications | 6.0 | 6.0 | 0.0 |
| Finance | 5.0 | 5.0 | 0.0 |
| Purchasing | 4.0 | 4.0 | 0.0 |
| Water Quality | 47.5 | 48.5 | 1.0 |
| Laboratory | 7.5 | 7.5 | 0.0 |
| Operations | 34.0 | 35.0 | 1.0 |
| Process Sustainability Regulatory & Policy Pretreatment | 5.0 | 5.0 | 0.0 |
| Engineering | 40.0 | 41.0 | 1.0 |
| Engineering | 5.0 | 6.0 | 1.0 |
| Maintenance | 34.0 | 34.0 | 0.0 |
| Total | 122.5 | 124.5 | 2.0 |

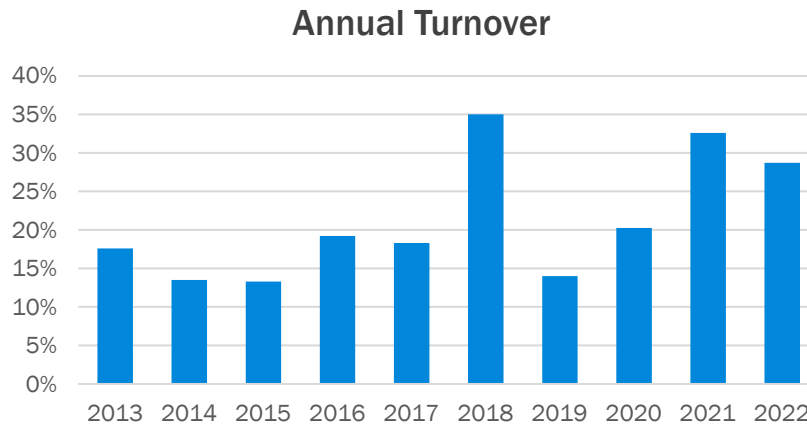
9.4 Equity in the Workplace

AlexRenew is committed to fostering, promoting, and preserving a culture of diversity and inclusion throughout the workplace. To support this commitment, our current diversity and inclusion initiatives extend to our practices and policies on recruitment and selection; compensation and benefits; professional development and training; and the ongoing development of a work environment built on the premise of gender and diversity equity.

9.5 Workforce Impacts

AlexRenew saw continued workforce impacts due to pandemic related stresses as employees made life decisions affecting their tenure at AlexRenew. AlexRenew continues to utilize the apprentice program for succession development for its trades.

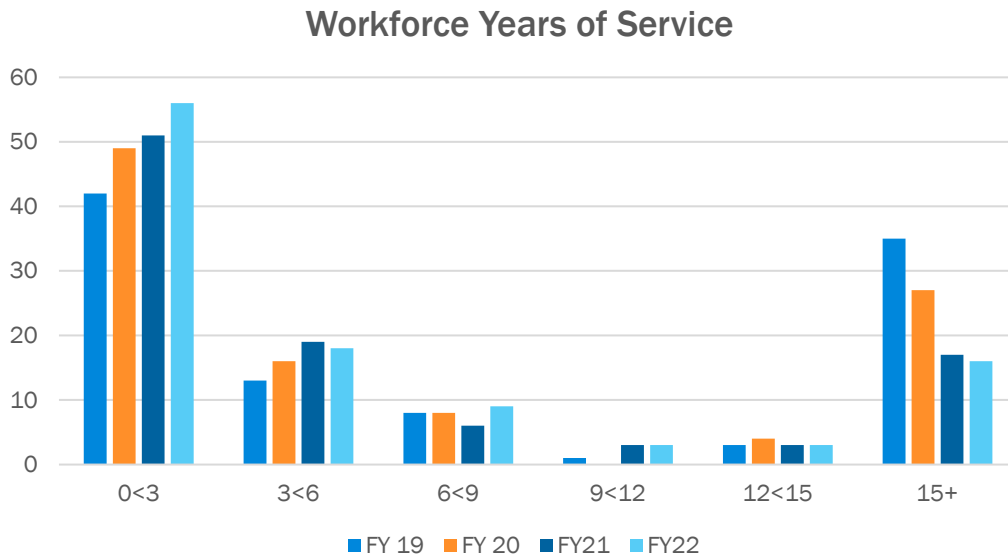
Figure 9.5.1. Annual Turnover



9.6 Years of Service

Eighty percent (80%) of the current workforce has been employed with AlexRenew for ten years or less while twenty-percent (20%) have worked for AlexRenew for more than 10 years. The average years of service is currently six and a half (6.5) years.

Figure 9.6.1. Workforce Years of Service Overview



Section 10 Parity Debt Service Fund Statement

The Parity Debt Service Fund includes the amounts due in FY2024 to pay principal and interest on outstanding and projected AlexRenew debt. To date, AlexRenew has borrowed from the Virginia Clean Water Revolving Loan Fund (CWRLF) and Virginia Pooled Financing Program (VPFP) through the Virginia Resources Authority (VRA) as well as through the federal Water Infrastructure Financing and Innovation Act (WIFIA) loan program. Within the context of the Indenture, capital funding in this manner is deemed parity debt.

Table 10.1. Parity Debt Service Fund Summary

| Parity Debt Service Fund | Adopted FY2023 | Proposed FY2024 | Estimated FY2025 | Estimated FY2026 | Estimated FY2027 | Estimated FY2028 |
|--------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| REVENUES | | | | | | |
| Beginning Balance | \$ 0 | \$ 0 | \$ (0) | \$ (0) | \$ 0 | \$ (0) |
| Transfer from Revenue Fund | 14,649,508 | 16,358,494 | 19,036,687 | 21,257,774 | 21,725,453 | 22,133,401 |
| Interest Income | 90,000 | 90,000 | 90,000 | 90,000 | 90,000 | 90,000 |
| Total Revenue | 14,739,508 | 16,448,494 | 19,126,687 | 21,347,774 | 21,815,453 | 22,223,401 |
| EXPENDITURES | | | | | | |
| VRA BOND SERIES 00B INTEREST | \$ 77,464 | \$ - | \$ - | \$ - | \$ - | \$ - |
| VRA BOND SERIES 00B PRINCIPAL | 4,024,113 | - | - | - | - | - |
| VRA BOND SERIES 04 INTEREST | 31,609 | 17,646 | 3,543 | - | - | - |
| VRA BOND SERIES 04 PRINCIPAL | 1,392,803 | 1,406,766 | 708,669 | - | - | - |
| VRA BOND SERIES 06 INTEREST | 39,187 | 30,038 | 20,798 | 12,979 | 5,589 | - |
| VRA BOND SERIES 06 PRINCIPAL | 912,620 | 921,769 | 830,185 | 737,180 | 744,570 | - |
| VRA BOND SERIES 09 INTEREST | 175,299 | 152,554 | 129,186 | 105,178 | 80,512 | 55,171 |
| VRA BOND SERIES 09 PRINCIPAL | 830,578 | 853,324 | 876,692 | 900,700 | 925,366 | 950,707 |
| VRA BOND SERIES 11 INTEREST | 120,332 | 110,856 | 101,157 | 91,277 | 81,063 | 70,659 |
| VRA BOND SERIES 11 PRINCIPAL | 400,877 | 410,353 | 420,053 | 429,982 | 440,146 | 450,550 |
| VRA BOND SERIES 14A INTEREST | 112,361 | 104,513 | 96,566 | 88,520 | 80,373 | 72,123 |
| VRA BOND SERIES 14A PRINCIPAL | 625,910 | 633,758 | 641,705 | 649,751 | 657,899 | 666,148 |
| VRA BOND SERIES 14B INTEREST | 20,857 | 19,333 | 17,792 | 16,231 | 14,652 | 13,054 |
| VRA BOND SERIES 14B PRINCIPAL | 126,567 | 128,117 | 128,859 | 130,410 | 132,771 | 134,369 |
| VRA BOND SERIES 14C INTEREST | 841,625 | 827,019 | 811,772 | 795,756 | 775,714 | 742,148 |
| VRA BOND SERIES 14C PRINCIPAL | 280,000 | 290,000 | 305,000 | 320,000 | 490,000 | 900,000 |
| VRA BOND SERIES 17A INTEREST | 892,772 | 862,534 | 830,759 | 797,319 | 762,084.00 | 730,334 |
| VRA BOND SERIES 17A PRINCIPAL | 575,000 | 605,000 | 635,000 | 670,000 | 705,000.00 | 735,000 |
| VRA BOND SERIES 19 INTEREST | 114,070 | 112,970 | 111,870 | 110,220 | 107,470 | 106,370 |
| VRA BOND SERIES 19 PRINCIPAL | 100,000 | 100,000 | 100,000 | 300,000 | 100,000 | 100,000 |
| VRA BOND SERIES 21 INTEREST | 3,045,463 | 3,597,117 | 8,867,258 | 2,293,042 | 2,204,806 | 2,115,375 |
| VRA BOND SERIES 21 PRINCIPAL | - | 5,264,825 | 2,442,336 | 6,514,011 | 6,602,247 | 6,691,678 |
| WIFIA BOND SERIES 21 INTEREST | - | - | 1,047,488 | 6,284,926 | 6,281,155 | 6,263,348 |
| WIFIA BOND SERIES 21 PRINCIPAL | - | - | - | 100,291 | 624,035 | 1,426,366 |
| TOTAL EXPENSES | \$ 14,739,509 | \$ 16,448,494 | \$ 19,126,687 | \$ 21,347,774 | \$ 21,815,453 | \$ 22,223,401 |
| Total Interest | 5,471,040 | 5,834,582 | 12,038,188 | 10,595,449 | 10,393,419 | 10,168,583 |
| Total Principal | 9,268,468 | 10,613,912 | 7,088,499 | 10,752,325 | 11,422,034 | 12,054,819 |

Section 11 IRR Fund Statement - Joint Use Facilities Account

The Improvement, Renewal, & Replacement (IRR) Fund – Joint Use Facilities Account funds the project costs associated with the upgrade of infrastructure and equipment for the portions of the facility used jointly by the City and Fairfax County.

As noted in the accompanying schedule, contributions to the Joint Use Facilities Account are made annually by both AlexRenew and Fairfax County in a combined amount equal to 0.7% of AlexRenew’s estimated joint capital asset value for FY2024. Fairfax County’s portion of the total contribution is also based on the allocation percentages detailed on page 13 and affirmed in the Agreement.

Planned spending in the IRR program is expected to increase in the upcoming FY2024 to provide funding for improvements in broad, treatment-process-based categories (e.g., preliminary/primary, secondary, solids, tertiary) and plantwide upgrades to safety, security, and IT.

Table 11.1. IRR Fund – Joint Use Facilities Account Summary

| IRR Fund - Joint Use Facilities Account | Adopted FY2023 | Proposed FY2024 | VAR % | Estimated FY2025 | Estimated FY2026 | Estimated FY2027 | Estimated FY2028 |
|---|-----------------------|-----------------------|-------------|-----------------------|---------------------|----------------------|---------------------|
| REVENUES | | | | | | | |
| Revenue Fund Transfer | \$ 2,410,801 | \$ 2,581,224 | 7.1% | \$ 2,704,353 | \$ 3,545,302 | \$ 4,288,525 | \$ 3,044,086 |
| Fairfax County Contribution | 3,477,819 | 3,723,671 | 7.1% | 3,901,296 | 5,114,449 | 6,186,622 | 4,391,395 |
| Total Revenues | \$ 5,888,619 | \$ 6,304,894 | 7.1% | \$ 6,605,649 | \$ 8,659,752 | \$ 10,475,147 | \$ 7,435,480 |
| EXPENSES | | | | | | | |
| Campus Wide Projects | \$ 1,178,756 | \$ 2,400,000 | 103.6% | \$ 2,400,000 | \$ 3,000,000 | \$ 5,531,699 | \$ 734,516 |
| Collection System Projects | 15,000 | \$ 15,000 | 0.0% | \$ 15,000 | \$ 15,000 | \$ 15,000 | \$ 15,000 |
| Information Technology Projects | 3,300,000 | \$ 300,000 | -90.9% | \$ 300,000 | \$ 300,000 | \$ 300,000 | \$ 300,000 |
| Compliance Laboratory | 45,500 | \$ 50,000 | 9.9% | \$ 10,000 | \$ 10,000 | \$ 10,000 | \$ 10,000 |
| Preliminary / Primary Infrastructure | 80,800 | \$ 85,648 | 6.0% | \$ 86,504 | \$ 87,370 | \$ 34,948 | \$ 35,297 |
| Secondary Infrastructure | 1,737,099 | \$ 2,000,000 | 15.1% | \$ 1,000,000 | \$ 1,500,000 | \$ 1,500,000 | \$ 1,500,000 |
| Solids Infrastructure | 1,000,000 | \$ 1,000,000 | 0.0% | \$ 1,000,000 | \$ 1,000,000 | \$ 1,000,000 | \$ 1,000,000 |
| Tertiary Infrastructure | 2,240,700 | \$ 2,252,100 | 0.5% | \$ 1,763,900 | \$ 1,776,000 | \$ 683,500 | \$ 696,400 |
| Warehouse and Inventory Upgrades | 150,000 | \$ - | -100.0% | \$ - | \$ - | \$ - | \$ - |
| West Campus Projects | - | \$ 1,000,000 | 100.0% | \$ 750,000 | \$ 750,000 | \$ 750,000 | \$ 750,000 |
| UV System Rehabilitation | 225,000 | \$ - | 0.0% | \$ - | \$ - | \$ 500,000 | \$ 1,000,000 |
| Safety and Security | 355,000 | \$ 1,050,000 | 195.8% | \$ 1,030,000 | \$ 1,030,000 | \$ 50,000 | \$ 50,000 |
| Building Exteriors | - | \$ 500,000 | 100.0% | \$ 100,000 | \$ 100,000 | \$ 100,000 | \$ 100,000 |
| Joint IRR Expenses | \$ 10,327,856 | \$ 10,652,748 | 0.0% | \$ 8,455,404 | \$ 9,568,370 | \$ 10,475,147 | \$ 6,191,213 |
| Excess (Deficiency) | \$ (4,439,237) | \$ (4,347,854) | | \$ (1,849,755) | \$ (908,618) | \$ - | \$ 1,244,267 |
| FUND BALANCE - Beginning | \$ 11,545,464 | \$ 7,106,227 | | \$ 2,758,373 | \$ 908,618 | \$ - | \$ - |
| FUND BALANCE - Ending | \$ 7,106,227 | \$ 2,758,373 | | \$ 908,618 | \$ - | \$ - | \$ 1,244,267 |

Section 12 IRR Fund Statement - General Account

The Improvement, Renewal & Replacement (IRR) Fund – General Account funds the project costs associated with the upgrade of infrastructure and equipment for the portions of the facility used for the benefit of the City only.

Contributions to the General Account are made annually for projects AlexRenew determines are necessary to maintain the safe and effective operation for collection system and Alex-only campus needs.

Table 12.1. IRR Fund – General Account Summary

| IRR Fund - General Account | Adopted FY2023 | Proposed FY2024 | VAR % | Estimated FY2025 | Estimated FY2026 | Estimated FY2027 | Estimated FY2028 |
|---|-------------------|--------------------|---------------|---------------------|---------------------|---------------------|---------------------|
| Revenues | | | | | | | |
| Revenue Fund Transfer | \$ 689,475 | \$ 166,000 | | \$ 166,000 | \$ 166,000 | \$ 166,000 | \$ 166,000 |
| Total Revenue | \$ 689,475 | \$ 166,000 | -75.9% | \$ 166,000 | \$ 166,000 | \$ 166,000 | \$ 166,000 |
| Expenses | | | | | | | |
| Billing and Customer Information System | \$ 523,475 | \$ 0 | -100.0% | \$ 0 | \$ 0 | \$ 0 | \$ 0 |
| Campus Wide Projects | 22,000 | \$22,000 | 0.0% | \$22,000 | \$22,000 | \$22,000 | \$22,000 |
| Collection System Projects | 144,000 | \$144,000 | 0.0% | \$144,000 | \$144,000 | \$144,000 | \$144,000 |
| Total Expenses | \$ 689,475 | \$ 166,000 | -75.9% | \$ 166,000 | \$ 166,000 | \$ 166,000 | \$ 166,000 |
| | | | | | | | |

Section 13 General Fund Statement

The General Fund is the repository of funds remaining after deposits to all other Funds are made and may be used for any lawful purpose of AlexRenew. AlexRenew uses the General Fund to finance City-only capital improvements, contribute PAYGO (cash) funding to the Joint capital program, manage unanticipated expenditures, and maintain sufficient reserves to promote ongoing financial strength.

The General Fund balance is projected to increase to \$3.4 million through FY2024, with a projected balance of over \$34.8 million.

Table 13.1. General Fund Summary

| General Fund | Adopted FY2023 | Proposed FY2024 | VAR % | Estimated FY2025 | Estimated FY2026 | Estimated FY2027 | Estimated FY2028 |
|---|-----------------------|----------------------|---------------|----------------------|----------------------|-----------------------|------------------------|
| REVENUES | | | | | | | |
| Revenue Fund Transfer | \$ 14,096,447 | \$ 13,472,422 | -4% | \$ 12,786,483 | \$ 11,876,923 | \$ 13,110,587 | \$ 16,108,643 |
| Interest Income | 15,000 | 15,000 | 0% | 15,000 | 15,000 | 15,000 | 15,000 |
| Total Revenues | \$ 14,111,447 | \$ 13,487,422 | -4.4% | \$ 12,801,483 | \$ 11,891,923 | \$ 13,125,587 | \$ 16,123,643 |
| EXPENSES | | | | | | | |
| Alex-only General Capital Expenses | \$ 3,481,290 | \$ 8,183,100 | 135.1% | \$ 10,236,790 | \$ 8,862,700 | \$ 21,182,600 | \$ 29,262,600 |
| Transfer to Joint CIP Project Fund | 11,886,206 | 1,887,098 | -84.1% | 1,725,000 | 0 | 0 | 0 |
| Total Expenses | \$ 15,367,496 | \$ 10,070,198 | -34.5% | \$ 11,961,790 | \$ 8,862,700 | \$ 21,182,600 | \$ 29,262,600 |
| Fund Balance Increase (Decrease) | \$ (1,256,049) | \$ 3,417,225 | | \$ 839,693 | \$ 3,029,223 | \$ (8,057,013) | \$ (13,138,957) |
| Fund Balance - Beginning | \$ 42,250,354 | \$ 36,964,336 | | \$ 40,381,560 | \$ 40,381,560 | \$ 41,221,253 | \$ 43,410,783 |
| Fund Balance - Ending | \$ 40,994,305 | \$ 40,381,560 | | \$ 41,221,253 | \$ 43,410,783 | \$ 33,164,241 | \$ 30,271,826 |
| General Reserve sub-Fund ¹ | \$ (5,004,327) | \$ (5,591,392) | | \$ (5,759,134) | \$ (5,759,134) | \$ (5,874,316) | \$ (5,991,803) |
| Available Balance | \$ 35,989,978 | \$ 34,790,168 | -3.3% | \$ 35,462,120 | \$ 37,651,649 | \$ 27,289,924 | \$ 24,280,023 |

¹ Additional Operating Reserve Requirement of 60 days cash per Board-approved Financial Policies

Section 14 Capital Improvement Program

AlexRenew manages its capital projects for both Joint Use and City only infrastructure and equipment through its Capital Improvement Program (CIP). The CIP is summarized in the 10-year plan and is a key element in planning for and managing to future regulatory compliance through large-scale capital investments.

The 10-year plan is an important tool used to formulate future project financing plans, maximize federal and state grant opportunities, proactively plan for the replacement or reconstruction of essential assets nearing the end of their service life, and schedule and coordinate the execution of multiple projects to minimize operational impact. The FY2024 – FY2033 CIP includes project cost assumptions for all capital projects, including the RiverRenew program, as well as the Improvement, Renewal, and Replacement program.

While the CIP provides a long-term roadmap for planned capital expenditures, AlexRenew retains the ability to defer projects if needed, and may elect to defer certain new capital projects, depending on revenue performance throughout the fiscal year.

14.1 Definition of Capital Projects

A capital project involves expenditures to construct or acquire assets of a relatively permanent nature such as property, plant, and equipment with a useful life that exceeds approximately two years.

14.2 CIP Funding

Potential funding sources for CIP projects include loans from the Virginia Department of Environmental Quality (VA DEQ), Clean Water Revolving Loan Fund (CWRLF), Virginia Pooled Financing Program (VPFP), Commonwealth of Virginia Grant programs, Water Infrastructure Finance and Innovation Act (WIFIA) loans, revenue bond issues, bank loans and lines of credit, grants, and AlexRenew cash and reserves, also called pay-as-you-go (PAYGO) funds. To comply with its Board-adopted Financial Policies, AlexRenew funds at least 15% of the annual CIP with PAYGO funds.

14.3 Alex-Only CIP

Capital projects that are the responsibility of AlexRenew only are funded from General Fund resources and/or using various financing instruments. Costs associated with the Alex-only CIP are detailed below.

14.4 Joint-Use CIP

Capital projects for which AlexRenew and Fairfax County share joint responsibility are funded pay-as-you-go from General Fund resources and/or using various financing instruments. Costs associated with the Joint Use Facilities CIP are detailed below.

14.5 Capital Budget Overview

AlexRenew is proposing a FY2024 capital budget of \$212.5 million and a total 10-year capital budget of \$842.5 million. Based on current project spending projections, the capital spend in FY2024 is expected to be higher than the year prior primarily due the RiverRenew Program.

In addition to RiverRenew, highlights of the FY2024 CIP include:

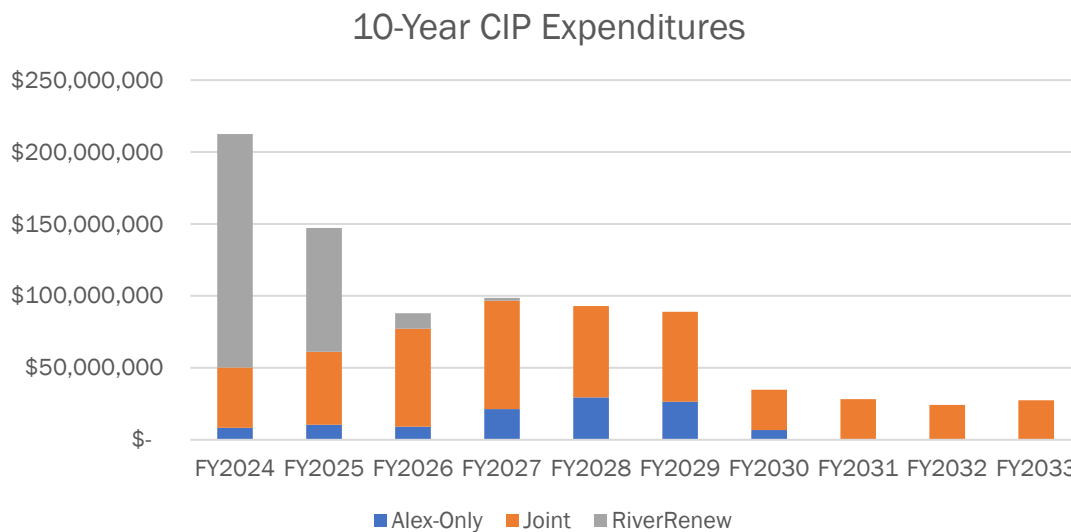
- Funding for City-only projects such as planning and design of the Commonwealth Interceptor Upgrade project
- Continued funding for ongoing Joint CIP projects such as Preliminary/Primary System Upgrades, Information Technology projects, and Solids Master Planning work
- Funding for CIP projects that grew out of IRR work related to the Preliminary Settling Tanks and Secondary Settling Tanks

Highlights of the 10-year plan include:

- Continued funding for the RiverRenew Tunnel Project through 2025
- Continued funding for Preliminary/Primary System Upgrades through 2029
- Continued funding for the Tertiary Upgrade project
- Increased investments for IT systems and infrastructure and care of existing digital assets
- Funding for future Solids Management projects to come from master planning initiative through 2033
- Funding for the Commonwealth Interceptor Upgrade project
- Funding for future rehabilitation projects on Holmes Run Trunk Sewer and Potomac Interceptor
- Continued capital contributions to Arlington County
- Contingency based on overall capital spend

The graph below illustrates the planned capital spending over the 10-year period including the significant increase in capital spend for RiverRenew through 2025.

Figure 14.5.1. Draft Proposed CIP Expenditures – 10-year Forecast



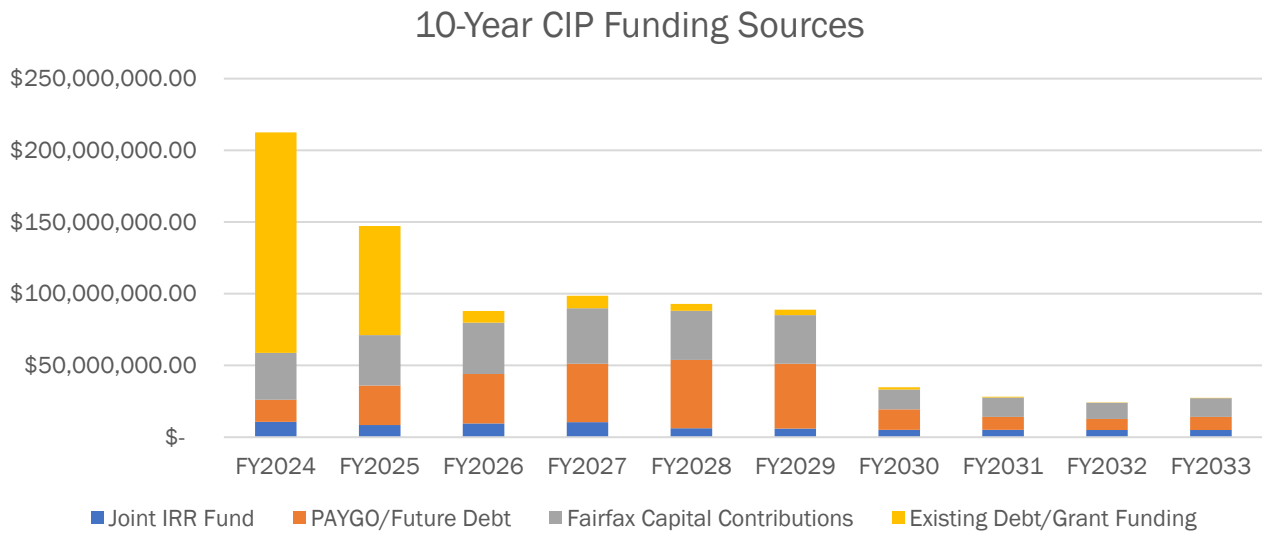
The specific funding sources for the CIP include PAYGO (cash contributions from AlexRenew’s operations and reserves), capital contributions from Fairfax County (which are determined according to negotiated percentages for the relevant project), and debt or grant funding. Per AlexRenew’s Financial Policies, at least 15% of the CIP is funded from PAYGO each fiscal year.

Expected debt and grant funding sources include proceeds from four existing AlexRenew loans – its Series 2017 and Series 2021 Bonds issued through the CWRLF and the Series 2021 WIFIA loan. Additional details on the loans can be found under the detailed Parity Debt Service Fund statement.

The graph on the following page illustrates the planned capital funding sources over the 10-year period including the continued significant debt financing to be utilized to fund the high level of ongoing RiverRenew construction.

The CIP and related funding strategies comply with all relevant AlexRenew financial policies including the required 15% PAYGO funding requirement and sufficient projected net revenues to produce coverage of debt service requirements in excess of the 1.5x policy minimum.

Figure 14.5.2. Draft Proposed CIP Expenditures – 10-year Forecast



The pages to follow provide additional detail on the specific funding levels for each project over each of the next ten fiscal years, as well as a project sheet for each major project detailing the project’s description, justification, benefits, milestones, useful life, and impact to the community.

Table 14.5.1. FY2024 10-year Capital Improvement Program – Summary of Estimated Expenditures and Funding Sources

| Summary of Estimated Expenditures | Adopted FY2023 | Proposed FY2024 | Estimated FY2025 | Estimated FY2026 | Estimated FY2027 | Estimated FY2028 | Estimated FY2029 | Estimated FY2030 | Estimated FY2031 | Estimated FY2032 | Estimated FY2033 | 10-year Total |
|--|-------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------------|
| IRR Program | | | | | | | | | | | | |
| Alex-only IRR | \$ 0.69 | \$ 0.17 | \$ 0.17 | \$ 0.17 | \$ 0.17 | \$ 0.17 | \$ 0.17 | \$ 0.17 | \$ 0.17 | \$ 0.17 | \$ 0.17 | \$ 1.66 |
| Joint IRR | \$ 10.33 | \$ 10.65 | \$ 8.46 | \$ 9.57 | \$ 10.48 | \$ 6.19 | \$ 5.95 | \$ 5.10 | \$ 5.12 | \$ 5.00 | \$ 5.04 | \$ 71.55 |
| IRR Program Subtotal | \$ 6.76 | \$ 10.82 | \$ 8.62 | \$ 9.73 | \$ 10.64 | \$ 6.36 | \$ 6.12 | \$ 5.26 | \$ 5.28 | \$ 5.17 | \$ 5.21 | \$ 73.21 |
| General CIP | | | | | | | | | | | | |
| Alex-only Capital Improvement Projects | \$ 3.48 | \$ 8.18 | \$ 10.24 | \$ 8.86 | \$ 21.18 | \$ 29.26 | \$ 26.26 | \$ 6.59 | \$ 0.38 | \$ 0.38 | \$ 0.38 | \$ 111.71 |
| Joint Capital Improvement Projects | \$ 37.80 | \$ 31.18 | \$ 42.29 | \$ 58.59 | \$ 64.83 | \$ 57.29 | \$ 56.53 | \$ 22.93 | \$ 22.51 | \$ 18.62 | \$ 21.79 | \$ 396.56 |
| General CIP Subtotal | | \$ 39.37 | \$ 52.53 | \$ 67.46 | \$ 86.01 | \$ 86.55 | \$ 82.79 | \$ 29.52 | \$ 22.89 | \$ 19.00 | \$ 22.17 | \$ 508.27 |
| RiverRenew Program | | | | | | | | | | | | |
| RiverRenew Program | \$ 123.60 | \$ 162.28 | \$ 86.00 | \$ 10.74 | \$ 1.95 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 260.98 |
| RiverRenew Subtotal | \$ 123.60 | \$ 162.28 | \$ 86.00 | \$ 10.74 | \$ 1.95 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 260.98 |
| Total CIP Expenditures | \$ 130.36 | \$ 212.46 | \$ 147.16 | \$ 87.93 | \$ 98.60 | \$ 92.91 | \$ 88.91 | \$ 34.79 | \$ 28.17 | \$ 24.17 | \$ 27.38 | \$ 842.46 |

Table 14.5.2. FY2024 10-year Capital Improvement Program – Detailed Expenditures

| Projects | Project Total | Prior Years | Proposed FY2024 | Estimated FY2025 | Estimated FY2026 | Estimated FY2027 | Estimated FY2028 | Estimated FY2029 | Estimated FY2030 | Estimated FY2031 | Estimated FY2032 | Estimated FY2033 | 10-year Total |
|--|------------------|----------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| IRR Program | | | | | | | | | | | | | |
| Alex-only IRR | | | | | | | | | | | | | |
| IRR: Campus Wide Projects | \$ 0.24 | \$ 0.02 | \$ 0.02 | \$ 0.02 | \$ 0.02 | \$ 0.02 | \$ 0.02 | \$ 0.02 | \$ 0.02 | \$ 0.02 | \$ 0.02 | \$ 0.02 | \$ 0.22 |
| IRR: Collection System Projects | \$ 1.58 | \$ 0.14 | \$ 0.14 | \$ 0.14 | \$ 0.14 | \$ 0.14 | \$ 0.14 | \$ 0.14 | \$ 0.14 | \$ 0.14 | \$ 0.14 | \$ 0.14 | \$ 1.44 |
| Alex-only IRR Subtotal | \$ 1.82 | \$ 0.16 | \$ 0.17 | \$ 0.17 | \$ 0.17 | \$ 0.17 | \$ 0.17 | \$ 0.17 | \$ 0.17 | \$ 0.17 | \$ 0.17 | \$ 0.17 | \$ 1.66 |
| Joint IRR | | | | | | | | | | | | | |
| IRR: Campus-Wide Projects | \$ 18.98 | \$ 1.18 | \$ 2.40 | \$ 2.40 | \$ 3.00 | \$ 5.53 | \$ 0.73 | \$ 0.74 | \$ 0.74 | \$ 0.74 | \$ 0.75 | \$ 0.77 | \$ 17.80 |
| IRR: West Campus Projects | \$ 7.75 | \$ - | \$ 1.00 | \$ 0.75 | \$ 0.75 | \$ 0.75 | \$ 0.75 | \$ 0.75 | \$ 0.75 | \$ 0.75 | \$ 0.75 | \$ 0.75 | \$ 7.75 |
| IRR: Preliminary/Primary Infrastructure | \$ 0.59 | \$ 0.08 | \$ 0.09 | \$ 0.09 | \$ 0.09 | \$ 0.03 | \$ 0.04 | \$ 0.04 | \$ 0.04 | \$ 0.04 | \$ 0.04 | \$ 0.04 | \$ 0.51 |
| IRR: Secondary Infrastructure | \$ 16.74 | \$ 1.74 | \$ 2.00 | \$ 1.00 | \$ 1.50 | \$ 1.50 | \$ 1.50 | \$ 1.50 | \$ 1.50 | \$ 1.50 | \$ 1.50 | \$ 1.50 | \$ 15.00 |
| IRR: Tertiary Infrastructure | \$ 12.08 | \$ 2.24 | \$ 2.25 | \$ 1.76 | \$ 1.78 | \$ 0.68 | \$ 0.70 | \$ 0.45 | \$ 0.60 | \$ 0.61 | \$ 0.50 | \$ 0.51 | \$ 9.84 |
| IRR: Solids Infrastructure | \$ 11.00 | \$ 1.00 | \$ 1.00 | \$ 1.00 | \$ 1.00 | \$ 1.00 | \$ 1.00 | \$ 1.00 | \$ 1.00 | \$ 1.00 | \$ 1.00 | \$ 1.00 | \$ 10.00 |
| IRR: Odor Control System | \$ 2.50 | \$ - | \$ - | \$ - | \$ - | \$ 0.50 | \$ 1.00 | \$ 1.00 | \$ - | \$ - | \$ - | \$ - | \$ 2.50 |
| IRR: WRRF Safety and Security | \$ 3.46 | \$ - | \$ 1.05 | \$ 1.03 | \$ 1.03 | \$ 0.05 | \$ 0.05 | \$ 0.05 | \$ 0.05 | \$ 0.05 | \$ 0.05 | \$ 0.05 | \$ 3.46 |
| IRR: Collection System Projects | \$ 0.17 | \$ 0.02 | \$ 0.02 | \$ 0.02 | \$ 0.02 | \$ 0.02 | \$ 0.02 | \$ 0.02 | \$ 0.02 | \$ 0.02 | \$ 0.02 | \$ 0.02 | \$ 0.15 |
| IRR: Building Exteriors | \$ 1.40 | \$ - | \$ 0.50 | \$ 0.10 | \$ 0.10 | \$ 0.10 | \$ 0.10 | \$ 0.10 | \$ 0.10 | \$ 0.10 | \$ 0.10 | \$ 0.10 | \$ 1.40 |
| IRR: Compliance Laboratory | \$ 0.19 | \$ 0.05 | \$ 0.05 | \$ 0.01 | \$ 0.01 | \$ 0.01 | \$ 0.01 | \$ 0.01 | \$ 0.01 | \$ 0.01 | \$ 0.01 | \$ 0.01 | \$ 0.14 |
| IRR: Information Technology Projects | \$ 3.30 | \$ 0.30 | \$ 0.30 | \$ 0.30 | \$ 0.30 | \$ 0.30 | \$ 0.30 | \$ 0.30 | \$ 0.30 | \$ 0.30 | \$ 0.30 | \$ 0.30 | \$ 3.00 |
| Joint IRR Subtotal | \$ 78.15 | \$ 6.60 | \$ 10.65 | \$ 8.46 | \$ 9.57 | \$ 10.48 | \$ 6.19 | \$ 5.95 | \$ 5.10 | \$ 5.12 | \$ 5.00 | \$ 5.04 | \$ 71.55 |
| IRR Program Total | \$ 79.97 | \$ 6.76 | \$ 10.82 | \$ 8.62 | \$ 9.73 | \$ 10.64 | \$ 6.36 | \$ 6.12 | \$ 5.26 | \$ 5.28 | \$ 5.17 | \$ 5.21 | \$ 73.21 |
| General CIP | | | | | | | | | | | | | |
| Alex-only Capital Improvement Projects | | | | | | | | | | | | | |
| Billing and Customer Information System | \$ 2.34 | \$ 1.00 | \$ 0.84 | \$ 0.50 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 1.34 |
| Commonwealth Interceptor Upgrade Project | \$ 72.50 | \$ 2.90 | \$ 3.20 | \$ 3.90 | \$ 2.50 | \$ 12.00 | \$ 20.00 | \$ 22.00 | \$ 6.00 | \$ - | \$ - | \$ - | \$ 69.60 |
| Potomac Interceptor Rehabilitation | \$ 14.09 | \$ - | \$ - | \$ 0.43 | \$ 1.00 | \$ 3.46 | \$ 5.80 | \$ 3.40 | \$ - | \$ - | \$ - | \$ - | \$ 14.09 |
| Potomac Yard Trunk Sewer Condition Assessment | \$ 0.40 | \$ - | \$ - | \$ - | \$ - | \$ 0.40 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 0.40 |
| Four Mile Run Pump Station Modifications | \$ 0.76 | \$ 0.16 | \$ 0.60 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 0.60 |
| Innovation District Pumping Station Start-up Support | \$ 0.55 | \$ 0.30 | \$ 0.25 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 0.25 |
| Pump Stations/Service Chambers Condition Assessment | \$ 0.15 | \$ - | \$ - | \$ 0.15 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 0.15 |
| COA 4 MGD WRRF Expansion Facility Plan | \$ 2.00 | \$ - | \$ - | \$ - | \$ - | \$ 1.00 | \$ 1.00 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 2.00 |
| NMF Wet Well Study and Preliminary Design | \$ 0.30 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 0.10 | \$ 0.20 | \$ - | \$ - | \$ - | \$ 0.30 |
| Arlington County Capital Contributions | \$ 20.45 | \$ 1.61 | \$ 2.54 | \$ 4.93 | \$ 5.00 | \$ 3.67 | \$ 1.62 | \$ 0.25 | \$ 0.21 | \$ 0.21 | \$ 0.21 | \$ 0.21 | \$ 18.83 |
| Capital Financing Fees | \$ 2.05 | \$ 0.25 | \$ 0.25 | \$ 0.25 | \$ 0.25 | \$ 0.15 | \$ 0.15 | \$ 0.15 | \$ 0.15 | \$ 0.15 | \$ 0.15 | \$ 0.15 | \$ 1.80 |
| Contingency on Alex-Only Funding | \$ 2.35 | \$ - | \$ 0.51 | \$ 0.07 | \$ 0.12 | \$ 0.50 | \$ 0.70 | \$ 0.37 | \$ 0.04 | \$ 0.02 | \$ 0.02 | \$ 0.02 | \$ 2.35 |
| Alex-only Capital Improvement Projects Subtotal | \$ 117.93 | \$ 6.22 | \$ 8.18 | \$ 10.24 | \$ 8.86 | \$ 21.18 | \$ 29.26 | \$ 26.26 | \$ 6.59 | \$ 0.38 | \$ 0.38 | \$ 0.38 | \$ 111.71 |

Table 14.5.2. FY24 10-year Capital Improvement Program – Detailed Expenditures (continued)

| Projects | Project Total | Prior Years | Proposed FY2024 | Estimated FY2025 | Estimated FY2026 | Estimated FY2027 | Estimated FY2028 | Estimated FY2029 | Estimated FY2030 | Estimated FY2031 | Estimated FY2032 | Estimated FY2033 | 10-year Total |
|--|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Joint Capital Improvement Projects | | | | | | | | | | | | | |
| Holmes Run Trunk Sewer Rehabilitation | \$ 12.30 | \$ - | \$ - | \$ 0.50 | \$ 0.90 | \$ 0.90 | \$ 4.80 | \$ 5.20 | \$ - | \$ - | \$ - | \$ - | \$ 12.30 |
| WRRF HVAC System Upgrade | \$ 1.10 | \$ - | \$ - | \$ - | \$ - | \$ 0.05 | \$ 0.05 | \$ 0.50 | \$ 0.50 | \$ - | \$ - | \$ - | \$ 1.10 |
| Campus-wide Electrical Upgrade Sub-Program | \$ 14.99 | \$ - | \$ - | \$ - | \$ 0.78 | \$ 3.33 | \$ 3.28 | \$ 4.30 | \$ 2.65 | \$ 0.65 | \$ - | \$ - | \$ 14.99 |
| Centrate Pretreatment Facility Improvements | \$ 19.90 | \$ - | \$ 0.50 | \$ 5.20 | \$ 7.00 | \$ 6.00 | \$ 0.20 | \$ 0.20 | \$ 0.20 | \$ 0.20 | \$ 0.20 | \$ 0.20 | \$ 19.90 |
| Centrifuge Upgrade Project | \$ 15.11 | \$ - | \$ 0.50 | \$ 2.92 | \$ - | \$ 2.92 | \$ - | \$ 2.92 | \$ - | \$ 2.92 | \$ - | \$ 2.92 | \$ 15.11 |
| Tertiary Upgrades | \$ 37.22 | \$ 0.22 | \$ 1.00 | \$ 3.00 | \$ 11.00 | \$ 10.80 | \$ 8.20 | \$ 3.00 | \$ - | \$ - | \$ - | \$ - | \$ 37.00 |
| Plant Effluent Water (W3) System Improvements | \$ 4.14 | \$ 0.40 | \$ 1.03 | \$ 0.91 | \$ 1.74 | \$ - | \$ 0.03 | \$ - | \$ - | \$ - | \$ 0.04 | \$ - | \$ 3.74 |
| HMI Upgrade | \$ 4.26 | \$ 1.60 | \$ 1.88 | \$ 0.78 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 2.66 |
| Information Technology Projects | \$ 30.40 | \$ 9.50 | \$ 7.00 | \$ 2.40 | \$ 2.45 | \$ 2.15 | \$ 1.15 | \$ 1.15 | \$ 1.15 | \$ 1.15 | \$ 1.15 | \$ 1.15 | \$ 20.90 |
| Main Campus Galleries Improvements | \$ 1.30 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 0.50 | \$ 0.50 | \$ 0.30 | \$ - | \$ - | \$ - | \$ 1.30 |
| Preliminary/Primary System Upgrades | \$ 81.65 | \$ 1.25 | \$ 3.00 | \$ 7.00 | \$ 17.60 | \$ 17.60 | \$ 17.60 | \$ 17.60 | \$ - | \$ - | \$ - | \$ - | \$ 80.40 |
| Primary Settling Tank Rehabilitation | \$ 5.38 | \$ 3.38 | \$ 2.00 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 2.00 |
| Reclaimed Water System Upgrade | \$ 2.11 | \$ - | \$ 0.16 | \$ 0.95 | \$ 1.00 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 2.11 |
| Solids Process Upgrades | \$ 115.11 | \$ 1.11 | \$ 4.00 | \$ 5.00 | \$ 5.00 | \$ 10.00 | \$ 15.00 | \$ 15.00 | \$ 15.00 | \$ 15.00 | \$ 15.00 | \$ 15.00 | \$ 114.00 |
| Plantwide Sump/Drain System Updates | \$ 4.20 | \$ - | \$ 0.20 | \$ 0.50 | \$ 0.50 | \$ 3.00 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 4.20 |
| Plantwide Chemical System Updates | \$ 1.50 | \$ - | \$ 0.50 | \$ 0.50 | \$ 0.50 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 1.50 |
| Power Distribution Monitors | \$ 0.42 | \$ - | \$ 0.15 | \$ 0.03 | \$ 0.03 | \$ 0.03 | \$ 0.03 | \$ 0.03 | \$ 0.03 | \$ 0.03 | \$ 0.03 | \$ 0.03 | \$ 0.42 |
| Warehouse and Inventory Upgrade | \$ 5.00 | \$ - | \$ 1.50 | \$ 2.00 | \$ 1.50 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 5.00 |
| Secondary Settling Tanks Refurbishment | \$ 4.00 | \$ - | \$ 2.00 | \$ 2.00 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 4.00 |
| Security Services During Construction | \$ 3.00 | \$ 1.35 | \$ 0.55 | \$ 0.55 | \$ 0.55 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 1.65 |
| South Carlyle Partnership | \$ 1.10 | \$ - | \$ - | \$ - | \$ 0.20 | \$ 0.30 | \$ 0.30 | \$ 0.30 | \$ - | \$ - | \$ - | \$ - | \$ 1.10 |
| Environmental Center 5th Floor Build-out | \$ 4.00 | \$ - | \$ 1.00 | \$ 2.00 | \$ 1.00 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 4.00 |
| Environmental Center Lobby Upgrades | \$ 0.50 | \$ - | \$ - | \$ 0.50 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 0.50 |
| Regulatory Analyses | \$ 1.03 | \$ - | \$ 0.18 | \$ 0.40 | \$ 0.10 | \$ 0.05 | \$ 0.05 | \$ 0.05 | \$ 0.05 | \$ 0.05 | \$ 0.05 | \$ 0.05 | \$ 1.03 |
| Resiliency Initiatives | \$ 2.25 | \$ - | \$ 0.24 | \$ 0.49 | \$ 0.15 | \$ 0.45 | \$ 0.33 | \$ 0.10 | \$ 0.50 | \$ - | \$ - | \$ - | \$ 2.25 |
| Stormwater System Upgrades | \$ 0.85 | \$ - | \$ - | \$ 0.05 | \$ 0.40 | \$ 0.40 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 0.85 |
| Contingency on Joint Funding | \$ 42.56 | \$ - | \$ 3.80 | \$ 4.61 | \$ 6.20 | \$ 6.85 | \$ 5.77 | \$ 5.68 | \$ 2.55 | \$ 2.51 | \$ 2.15 | \$ 2.44 | \$ 42.56 |
| Joint Capital Improvement Projects Subtotal | \$ 415.37 | \$ 18.82 | \$ 31.18 | \$ 42.29 | \$ 58.59 | \$ 64.83 | \$ 57.29 | \$ 56.53 | \$ 22.93 | \$ 22.51 | \$ 18.62 | \$ 21.79 | \$ 396.56 |
| General CIP Total | \$ 533.31 | \$ 25.04 | \$ 39.37 | \$ 52.53 | \$ 67.46 | \$ 86.01 | \$ 86.55 | \$ 82.79 | \$ 29.52 | \$ 22.89 | \$ 19.00 | \$ 22.17 | \$ 508.27 |
| RiverRenew Tunnel Project | | | | | | | | | | | | | |
| RiverRenew Tunnel Project - Alex Only | \$ 235.19 | \$ 143.12 | \$ 69.74 | \$ 21.92 | \$ 0.41 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 92.07 |
| RiverRenew Tunnel Project - Joint | \$ 383.50 | \$ 214.60 | \$ 92.54 | \$ 64.08 | \$ 10.33 | \$ 1.95 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 168.90 |
| RiverRenew Tunnel Project Total | \$ 618.69 | \$ 357.71 | \$ 162.28 | \$ 86.00 | \$ 10.74 | \$ 1.95 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 260.98 |
| ALEXRENEW CIP Total | \$ 1,231.97 | \$ 389.51 | \$ 212.46 | \$ 147.16 | \$ 87.93 | \$ 98.60 | \$ 92.91 | \$ 88.91 | \$ 34.79 | \$ 28.17 | \$ 24.17 | \$ 27.38 | \$ 842.46 |

| IRR: Campus Wide Projects (Alex Only) | | | | | | | | | | | | |
|---|--------------|------------------|----------|----------|----------|---|----------|----------|-----------------------|----------|----------|--------------------|
| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Various | | Various | | | | Improvement, Rehab., & Replacement (IRR) <input checked="" type="radio"/> Alex Only <input type="radio"/> Joint Use | | | Various | | | N/A |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$22,000 | \$22,000 | \$22,000 | \$22,000 | \$22,000 | \$22,000 | \$22,000 | \$22,000 | \$22,000 | \$22,000 | \$22,000 | \$220,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$22,000 | \$22,000 | \$22,000 | \$22,000 | \$22,000 | \$22,000 | \$22,000 | \$22,000 | \$22,000 | \$22,000 | \$22,000 | \$220,000 |
| Fairfax | - | - | - | - | - | - | - | - | - | - | - | - |
| Project Description and Justification | | | | | | | | | | | | |
| Purpose: To improve, renew and/or replace Alexandria-only infrastructure, equipment, and systems. Background: This subprogram covers Alexandria-only projects campus wide. Project Components: TBD. May include the Environmental Center lobby including displays, aquarium, customer service area, and any information technology (IT) projects designated as Alexandria-only. Procurement Method: TBD, varies as appropriate | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Improved reliability and operation of the EC and WRRF | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> Replacement/repair of Alex-only infrastructure, equipment, and systems. | | | | | | <ul style="list-style-type: none"> Reduce future O&M costs and renew existing assets | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> None | | | | | | <ul style="list-style-type: none"> None | | | | | | |

| IRR: Collection System Projects (Alex-Only) | | | | | | | | | | | | |
|--|--------------|------------------|-----------|-----------|-----------|---|-----------|-----------|-----------------------|-----------|-----------|--------------------|
| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Operations & Maintenance | | Various | | | | Improvement, Rehab., & Replacement (IRR) <input checked="" type="radio"/> Alex Only <input type="radio"/> Joint Use | | | 20-50 years | | | N/A |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | Undetermined |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$144,000 | \$144,000 | \$144,000 | \$144,000 | \$144,000 | \$144,000 | \$144,000 | \$144,000 | \$144,000 | \$144,000 | \$144,000 | \$1,440,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$144,000 | \$144,000 | \$144,000 | \$144,000 | \$144,000 | \$144,000 | \$144,000 | \$144,000 | \$144,000 | \$144,000 | \$144,000 | \$1,440,000 |
| Fairfax | - | - | - | - | - | - | - | - | - | - | - | - |
| Project Description and Justification | | | | | | | | | | | | |
| Purpose: To improve, rehabilitate, and/or replace Alexandria-only collection system assets such as interceptors and trunk sewers. Background: This subprogram covers all improvement, rehabilitation and replacement projects associated with the pump stations, service chambers, and outfalls that are for City only use. Project Components: TBD Procurement Method: TBD | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Full redundancy and reliability of all assets | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> N/A | | | | | | <ul style="list-style-type: none"> Coordination with O&M for all scheduled work | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> N/A | | | | | | <ul style="list-style-type: none"> None | | | | | | |

| IRR Campus-Wide Projects (Joint Use) | | | | | | | | | | | | |
|---|---|----------------------|-------------|-------------|-------------|---|-----------|-----------|--|-----------|-----------|--------------------|
| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Various | | Main and West Campus | | | | Improvement, Rehab., & Replacement (IRR) <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | 4 years for Odor Media; 6 years for Cranes; 10 years for Vehicles; 10 years for NMF media; 15 years for odor scrubber and piping | | | N/A |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$1,178,756 | \$2,400,000 | \$2,400,000 | \$3,000,000 | \$5,530,000 | \$734,516 | \$737,361 | \$740,235 | \$743,137 | \$746,068 | \$768,450 | \$17,799,767 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$471,502 | \$960,000 | \$960,000 | \$1,200,000 | \$2,212,000 | \$293,806 | \$294,944 | \$296,094 | \$297,255 | \$298,427 | \$307,380 | \$7,119,907 |
| Fairfax | \$707,254 | \$1,440,000 | \$1,440,000 | \$1,800,000 | \$3,318,000 | \$440,710 | \$442,417 | \$444,141 | \$445,882 | \$447,641 | \$461,070 | \$10,679,860 |
| Project Description and Justification | | | | | | | | | | | | |
| Purpose: | To improve, renew, and/or replace non-process infrastructure, equipment, and systems across campus. | | | | | | | | | | | |
| Background: | Non-process infrastructure, equipment, and systems (e.g., HVAC systems, vehicles etc.) are needed to support AlexRenew's mission. This subprogram covers all IRR projects associated with non-process infrastructure, equipment, and systems across campus. | | | | | | | | | | | |
| Project Components: | TBD. May include: vehicles, HVAC systems, reclaimed water system, sump drain system, electrical equipment etc. | | | | | | | | | | | |
| Procurement Method: | TBD | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Improve reliability and efficiency of non-process infrastructure, equipment, and systems campus wide. | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> Replace vehicles Repair irrigation system | | | | | | <ul style="list-style-type: none"> Maintain reliability of non-process systems | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> None. | | | | | | <ul style="list-style-type: none"> Budget modifications | | | | | | |

IRR: West Campus Projects

| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
|--|--------------|----------------------|-----------|-----------|-----------|---|-----------|-----------|-----------------------|-----------|-----------|---------------------------|
| Operations & Maintenance | | Environmental Center | | | | Improvement, Rehab., & Replacement (IRR) | | | Various | | | N/A |
| | | | | | | ○ Alex Only | | | | | | Grant/Debt Funded? |
| | | | | | | ● Joint Use | | No | | | | |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$0 | \$1,000,000 | \$750,000 | \$750,000 | \$750,000 | \$750,000 | \$750,000 | \$750,000 | \$750,000 | \$750,000 | \$750,000 | \$7,750,000 |
| Project Description and Justification | | | | | | | | | | | | |
| <p>Purpose: To maintain the full functionality of the Environmental Center (EC).</p> <p>Background: This subprogram covers all improvement, rehabilitation, and replacement projects associated with non-process facilities work at the EC.</p> <p>Project Components: TBD. May include fountain, landscaping, bio-wall, lighting, garage, doors, roads, sidewalks etc.</p> <p>Procurement Method: TBD, varies as appropriate.</p> | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> • Maintain reliability and efficiency of EC infrastructure and equipment. | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> • Fountain maintenance | | | | | | <ul style="list-style-type: none"> • Maintain operability of the EC. | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> • None | | | | | | <ul style="list-style-type: none"> • New IRR category | | | | | | |

| IRR: Preliminary/Primary Infrastructure | | | | | | | | | | | | |
|---|--------------|------------------|----------|----------|----------|--|----------|----------|-----------------------|----------|----------|--------------------|
| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Operations & Maintenance | | WRRF | | | | Improvement, Rehab., & Replacement (IRR) <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | Varies | | | N/A |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$80,000 | \$85,648 | \$86,504 | \$87,370 | \$34,948 | \$35,297 | \$36,000 | \$36,007 | \$36,367 | \$36,731 | \$37,098 | \$511,970 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$32,000 | \$34,259 | \$34,602 | \$34,948 | \$13,979 | \$14,119 | \$14,400 | \$14,403 | \$14,547 | \$14,692 | \$14,839 | \$204,788 |
| Fairfax | \$48,000 | \$51,389 | \$51,902 | \$52,422 | \$20,969 | \$21,178 | \$21,600 | \$21,604 | \$21,820 | \$22,038 | \$22,259 | \$307,182 |
| Project Description and Justification | | | | | | | | | | | | |
| Purpose: To improve, renew and/or replace components of the preliminary and primary treatment systems. Background: AlexRenew's preliminary and primary systems are the first stages of treatment at the WRRF. This subprogram covers all IRR projects associated with the preliminary and primary systems. Project Components: TBD. May include, but is not limited to pumps, motors, screens, grit handling, settling tanks, and instrumentation. Procurement Method: TBD | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Maintain reliability and performance of the preliminary/primary systems. | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> Replacement or repair of process instruments. | | | | | | <ul style="list-style-type: none"> Maintains equipment availability and reliability Facilitates ease of operation Facilitates permit compliance | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> None. | | | | | | <ul style="list-style-type: none"> None. | | | | | | |

| IRR: Secondary Infrastructure | | | | | | | | | | | | |
|--|---|------------------|-------------|-------------|-------------|--|-------------|-------------|-----------------------|-------------|-------------|--------------------|
| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Operations & Maintenance | | BRBs, NMF, SSTs | | | | Improvement, Rehab., & Replacement (IRR) <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | 20 years | | | \$16,737,099 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$1,737,099 | \$2,000,000 | \$1,000,000 | \$1,500,000 | \$1,500,000 | \$1,500,000 | \$1,500,000 | \$1,500,000 | \$1,500,000 | \$1,500,000 | \$1,500,000 | \$15,000,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$694,840 | \$800,000 | \$400,000 | \$600,000 | \$600,000 | \$600,000 | \$600,000 | \$600,000 | \$600,000 | \$600,000 | \$600,000 | \$6,000,000 |
| Fairfax | \$1,042,259 | \$1,200,000 | \$600,000 | \$900,000 | \$900,000 | \$900,000 | \$900,000 | \$900,000 | \$900,000 | \$900,000 | \$900,000 | \$9,000,000 |
| Project Description and Justification | | | | | | | | | | | | |
| Purpose: | To improve, renew and/or replace components of the secondary treatment system to ensure efficient and effective treatment. | | | | | | | | | | | |
| Background: | AlexRenew's secondary treatment infrastructure is comprised of several processes such as biological reactor basins (BRBs), a nutrient management facility (NMF), and secondary settling tanks (SSTs). This subprogram covers all IRR projects associated with the WRRF's secondary treatment systems. | | | | | | | | | | | |
| Project Components: | TBD. May include: BRB AUMA actuators, NMF actuators, BRB mixers, VFDs, motors, pumps, and/or instrumentation. | | | | | | | | | | | |
| Procurement Method: | TBD | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Maintain reliability and performance of the preliminary/primary systems. | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> Replace BRB mixers and instruments | | | | | | <ul style="list-style-type: none"> Maintains equipment availability and reliability Facilitates ease of operation Facilitates permit compliance | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> Risk Review of Processes and Assets, Risk Review Assessment (BOA WA2-2019-3, Task 4) | | | | | | <ul style="list-style-type: none"> Funding modifications | | | | | | |

| IRR: Tertiary Infrastructure | | | | | | | | | | | | |
|--|--------------|-------------|------------------|-------------|-----------|--|-----------|-----------|--|-----------|-----------|--------------------|
| Managing Department | | | Project Location | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Operations & Maintenance | | | WRRF | | | Improvement, Rehab., & Replacement (IRR) <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | 6 years for UV system parts Yearly for probes 10 years for >100 Hp motors 10 years for Inter. PS pumps 10 years for VFD replacements | | | \$12,087,080 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$2,245,700 | \$2,252,100 | \$1,763,900 | \$1,776,000 | \$683,500 | \$696,400 | \$453,700 | \$597,400 | \$611,500 | \$496,000 | \$510,880 | \$9,841,380 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$898,280 | \$900,840 | \$705,560 | \$710,400 | \$273,400 | \$278,560 | \$181,480 | \$238,960 | \$244,600 | \$198,400 | \$204,352 | \$3,936,552 |
| Fairfax | \$1,347,420 | \$1,351,260 | \$1,058,340 | \$1,065,600 | \$410,100 | \$417,840 | \$272,220 | \$358,440 | \$366,900 | \$297,600 | \$306,528 | \$5,904,828 |
| Project Description and Justification | | | | | | | | | | | | |
| Purpose: To improve, renew and/or replace components of the WRRF's tertiary treatment process. Background: AlexRenew's tertiary treatment infrastructure is comprised of several processes such as filters, tertiary setting tanks, and UV disinfection. This subprogram covers all improvement, rehabilitation and replacement projects associated with the tertiary treatment facilities. Project Components: TBD. May include: instruments, probes, motors, pumps, VFDs. Procurement Method: TBD | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Maintain reliability and performance of the tertiary systems. | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> Evaluate and replace equipment of concern. | | | | | | <ul style="list-style-type: none"> Maintains equipment availability and reliability Facilitates ease of operation Facilitates permit compliance | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> Risk Review of Processes and Assets, Risk Review Assessment (BOA WA2- 2019-3, Task 4) | | | | | | <ul style="list-style-type: none"> Budget modifications | | | | | | |

| IRR: Solids Infrastructure | | | | | | | | | | | | |
|--|--------------|-------------|------------------|-------------|-------------|--|-------------|-------------|---|-------------|-------------|--------------------|
| Managing Department | | | Project Location | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Operations & Maintenance | | | WRRF | | | Improvement, Rehab., & Replacement (IRR) <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | Yearly for probes 2 years for screen presses 12 years for heat exchanger actuators 10 years for >100 hp motors | | | N/A |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$10,000,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$400,000 | \$400,000 | \$400,000 | \$400,000 | \$400,000 | \$400,000 | \$400,000 | \$400,000 | \$400,000 | \$400,000 | \$400,000 | \$4,000,000 |
| Fairfax | \$600,000 | \$600,000 | \$600,000 | \$600,000 | \$600,000 | \$600,000 | \$600,000 | \$600,000 | \$600,000 | \$600,000 | \$600,000 | \$6,000,000 |
| Project Description and Justification | | | | | | | | | | | | |
| Purpose: To improve, renew and/or replace components of the solids treatment process. Background: AlexRenew's solids treatment infrastructure is comprised of several processes such as mechanical thickening and dewatering, gravity thickening, digestion etc. This subprogram covers all improvement, rehabilitation and replacement projects associated with the solids processing. Project Components: TBD. May include: actuators, motors, screen presses, pumps, probes and instrumentation. Procurement Method: TBD | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Maintain reliability and performance of the solids systems. | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> Digester repair and cleaning. Flare repairs. | | | | | | <ul style="list-style-type: none"> Maintains equipment availability and reliability Facilitates ease of operation Facilitates permit compliance | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> Risk Review of Processes and Assets, Risk Review Assessment (BOA WA2 2019-3, Task 4) | | | | | | <ul style="list-style-type: none"> None. | | | | | | |

| IRR: Odor Control System | | | | | | | | | | | | |
|--|--|------------------|---------|---------|-----------|---|-------------|---------|-----------------------|---------|---------|--------------------|
| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Engineering | | WRRF | | | | WRRF Improvements <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | TBD | | | \$2,500,000 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$0 | \$0 | \$0 | \$0 | \$500,000 | \$1,000,000 | \$1,000,000 | \$0 | \$0 | \$0 | \$0 | \$2,500,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$0 | \$0 | \$0 | \$0 | \$200,000 | \$400,000 | \$400,000 | \$0 | \$0 | \$0 | \$0 | \$1,000,000 |
| Fairfax | \$0 | \$0 | \$0 | \$0 | \$300,000 | \$600,000 | \$600,000 | \$0 | \$0 | \$0 | \$0 | \$1,500,000 |
| Project Description and Justification | | | | | | | | | | | | |
| Purpose: | To improve, renew and/or replace the existing WRRF odor control system/system components. | | | | | | | | | | | |
| Background: | AlexRenew maintains an odor control system to collect and treat process generated odors. This subprogram covers IRR work related to the odor control system. The current system is aging. A study is planned for FY2025 to assess the odor control system and identify improvements to ensure continued system performance. Recommended improvements are expected to be implemented in FY28-29 and will consider RiverRenew needs. | | | | | | | | | | | |
| Project Components: | TBD. Study will analyze entire odor control system (confirm air loads/ventilation rates) and may include updating the dispersion modeling and recommendations to re-balance the entire system. | | | | | | | | | | | |
| Procurement Method: | TBD | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Maintains odor control system performance. | | | | | | Public Engagement and Trust | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> N/A | | | | | | <ul style="list-style-type: none"> Maintenance of established odor levels/environment. | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> N/A | | | | | | <ul style="list-style-type: none"> Study start moved to FY27 | | | | | | |

| IRR: Safety and Security (Joint Use) | | | | | | | | | | | | | |
|--|--------------|-------------|------------------|-------------|----------|--|--|----------|----------|-----------------------|----------|--------------|--------------------|
| Managing Department | | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Human Resources | | | Various | | | | WRRF Improvements <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | N/A | | | \$3,460,000 |
| | | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total | |
| Total | \$0 | \$1,050,000 | \$1,030,000 | \$1,030,000 | \$50,000 | \$50,000 | \$50,000 | \$50,000 | \$50,000 | \$50,000 | \$50,000 | \$3,460,000 | |
| Financing | | | | | | | | | | | | | |
| AlexRenew | \$0 | \$420,000 | \$412,000 | \$412,000 | \$20,000 | \$20,000 | \$20,000 | \$20,000 | \$20,000 | \$20,000 | \$20,000 | \$1,384,000 | |
| Fairfax | \$0 | \$630,000 | \$618,000 | \$618,000 | \$30,000 | \$30,000 | \$30,000 | \$30,000 | \$30,000 | \$30,000 | \$30,000 | \$2,076,000 | |
| Project Description and Justification | | | | | | | | | | | | | |
| Purpose: To continuously improve the overall safety and security of AlexRenew Employees, Vendors, Contractors, and visitors at the Plant. Background: The AlexRenew safety committee conducts monthly inspections around the campus and provides recommendations to enhance safety and security. This subprogram covers the implementation of measures essential to the overall safety and security of staff and visitors. Project Components: TBD: May include engineering studies, fire panels, cameras. Procurement Method: Varies as needed | | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | | |
| <ul style="list-style-type: none"> Enhanced safety and well-being of staff Fewer reportable injuries at worksite Lower workers compensation Site security to prevent theft, unauthorized access etc. | | | | | | Operational Excellence | | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | | |
| <ul style="list-style-type: none"> Fire Protection Assessment & Upgrade Implement safety recommendations | | | | | | <ul style="list-style-type: none"> A safe and secure campus and staff | | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | | |
| <ul style="list-style-type: none"> N/A | | | | | | <ul style="list-style-type: none"> N/A | | | | | | | |

| IRR: Collection System Projects | | | | | | | | | | | | |
|--|--------------|------------------|----------|----------|----------|---|----------|----------|-----------------------|----------|----------|--------------------|
| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Operations & Maintenance | | Various | | | | Improvement, Rehab., & Replacement (IRR) <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | 20-50 years | | | N/A |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$15,000 | \$15,000 | \$15,000 | \$15,000 | \$15,000 | \$15,000 | \$15,000 | \$15,000 | \$15,000 | \$15,000 | \$15,000 | \$150,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$6,000 | \$6,000 | \$6,000 | \$6,000 | \$6,000 | \$6,000 | \$6,000 | \$6,000 | \$6,000 | \$6,000 | \$6,000 | \$60,000 |
| Fairfax | \$9,000 | \$9,000 | \$9,000 | \$9,000 | \$9,000 | \$9,000 | \$9,000 | \$9,000 | \$9,000 | \$9,000 | \$9,000 | \$90,000 |
| Project Description and Justification | | | | | | | | | | | | |
| Purpose: To improve, repair, and/or replace elements of the joint use collection system such as interceptors and trunk sewers. Background: This subprogram covers all improvement, rehabilitation and replacement projects associated with the interceptors and trunk sewers. Project Components: TBD Procurement Method: TBD | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Full redundancy and reliability of all assets | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> N/A | | | | | | <ul style="list-style-type: none"> Coordination with O&M for all scheduled work | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> N/A | | | | | | <ul style="list-style-type: none"> None | | | | | | |

IRR: Building Exteriors

| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
|---|--------------|------------------|-----------|-----------|-----------|---|-----------|-----------|-----------------------|-----------|-----------|--------------------|
| Operations & Maintenance | | WRRF | | | | Improvement, Rehab., & Replacement (IRR) | | | Various | | | N/A |
| | | | | | | <input type="radio"/> Alex Only | | | | | | Grant/Debt Funded? |
| | | | | | | <input checked="" type="radio"/> Joint Use | | No | | | | |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$0 | \$500,000 | \$100,000 | \$100,000 | \$100,000 | \$100,000 | \$100,000 | \$100,000 | \$100,000 | \$100,000 | \$100,000 | \$1,400,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$0 | \$200,000 | \$40,000 | \$40,000 | \$40,000 | \$40,000 | \$40,000 | \$40,000 | \$40,000 | \$40,000 | \$40,000 | \$560,000 |
| Fairfax | \$0 | \$300,000 | \$60,000 | \$60,000 | \$60,000 | \$60,000 | \$60,000 | \$60,000 | \$60,000 | \$60,000 | \$60,000 | \$840,000 |
| Project Description and Justification | | | | | | | | | | | | |
| <p>Purpose: To maintain the full functionality and safety of campus exteriors.</p> <p>Background: This subprogram covers all improvement, rehabilitation, and replacement projects associated with building exteriors and exterior features that are associated with non-process facilities.</p> <p>Project Components: May include: brick facades, walls, roads, roll up gates, campus lighting, sidewalks, and exterior doors.</p> <p>Procurement Method: TBD</p> | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Increased reliability and safety of exterior assets | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> Repair or replace aged doors | | | | | | <ul style="list-style-type: none"> Reduce future maintenance costs and renew existing assets | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> None | | | | | | <ul style="list-style-type: none"> New IRR Category | | | | | | |

| IRR: Compliance Laboratory | | | | | | | | | | | | |
|---|---|------------------|----------|----------|----------|---|----------|----------|-----------------------|----------|----------|--------------------|
| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Laboratory | | G2-Laboratory | | | | Improvement, Rehab., & Replacement (IRR) <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | 5 -10 years | | | \$185,500 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$45,500 | \$50,000 | \$10,000 | \$10,000 | \$10,000 | \$10,000 | \$10,000 | \$10,000 | \$10,000 | \$10,000 | \$10,000 | \$140,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$18,200 | \$20,000 | \$4,000 | \$4,000 | \$4,000 | \$4,000 | \$4,000 | \$4,000 | \$4,000 | \$4,000 | \$4,000 | \$56,000 |
| Fairfax | \$27,300 | \$30,000 | \$6,000 | \$6,000 | \$6,000 | \$6,000 | \$6,000 | \$6,000 | \$6,000 | \$6,000 | \$6,000 | \$84,000 |
| Project Description and Justification | | | | | | | | | | | | |
| Purpose: | To improve, renew and/or replace compliance laboratory equipment and/or systems. | | | | | | | | | | | |
| Background: | AlexRenew's on-site laboratory collects and/or analyzes process samples to facilitate and document compliance with the existing WRRF permits. This subprogram covers IRR projects associated with the laboratory systems and equipment. | | | | | | | | | | | |
| Project Components: | TBD. May include: pH meter, DO meter, balance, detectors for auto analyzer instruments, ion chromatography (IC), automatic titrator, steam scrubber dishwasher, flask scrubber dishwasher, refrigerator, digital camera (for microscope), and uninterruptible power supply (UPS). | | | | | | | | | | | |
| Procurement Method: | TBD, various. | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| • Improves/maintains laboratory performance and efficiency. | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| • Replacement of Dishwasher and Refrigerator | | | | | | • Facilitates WRRF permit compliance. | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| • Planned equipment replacement. | | | | | | • Equipment replacement milestone moved from FY23 to FY24. | | | | | | |

| IRR: Information Technology Projects | | | | | | | | | | | | |
|---|---|------------------|-----------|-----------|-----------|---|-----------|-----------|-----------------------|-----------|-----------|--------------------|
| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Information Technology | | Various | | | | Improvement, Rehab., & Replacement (IRR) <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | 5 years | | | \$3,300,000 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$300,000 | \$300,000 | \$300,000 | \$300,000 | \$300,000 | \$300,000 | \$300,000 | \$300,000 | \$300,000 | \$300,000 | \$300,000 | \$3,000,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$120,000 | \$120,000 | \$120,000 | \$120,000 | \$120,000 | \$120,000 | \$120,000 | \$120,000 | \$120,000 | \$120,000 | \$120,000 | \$1,200,000 |
| Fairfax | \$180,000 | \$180,000 | \$180,000 | \$180,000 | \$180,000 | \$180,000 | \$180,000 | \$180,000 | \$180,000 | \$180,000 | \$180,000 | \$1,800,000 |
| Project Description and Justification | | | | | | | | | | | | |
| Purpose: | To fund ongoing lifecycle replacement and expansion of information technology assets | | | | | | | | | | | |
| Background: | AlexRenew's campus and facilities rely on IT infrastructure, which includes hardware and software, to facilitate their daily operations. IT assets require continuous renewal as the technology continues evolve. | | | | | | | | | | | |
| Project Components: | Various, includes PLC hardware and programming | | | | | | | | | | | |
| Procurement Method: | TBD | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Maintain plant control system reliability | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> Replace 1-2 aging/obsolete PLCs | | | | | | <ul style="list-style-type: none"> Will require process outages for each PLC upgrade | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> N/A | | | | | | <ul style="list-style-type: none"> N/A | | | | | | |

| Billing and Customer Information System | | | | | | | | | | | | |
|---|--|-----------|------------------|---------|---------|--|---------|---------|-----------------------|---------|---------|--------------------|
| Managing Department | | | Project Location | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Finance | | | Various | | | Campus-wide <input checked="" type="radio"/> Alex Only <input type="radio"/> Joint Use | | | 5 years | | | \$2,340,000 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$1,000,000 | \$840,000 | \$500,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,340,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$1,000,000 | \$840,000 | \$500,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,340,000 |
| Fairfax | - | - | - | - | - | - | - | - | - | - | - | - |
| Project Description and Justification | | | | | | | | | | | | |
| Purpose: | To implement a new billing and customer information system. | | | | | | | | | | | |
| Background: | AlexRenew is transitioning its billing and customer information system to replace the current the third party providing these services who is exiting the business and will no longer provide services after January 2024, upon contract expiration. | | | | | | | | | | | |
| Project Components: | This project includes a new Billing and Customer Information System, creating updated business processes for billing needs such as managing meter reads and payment plans, enabling a new contact center solution, and designing in quality control measures for accurate billing. | | | | | | | | | | | |
| Procurement Method: | The contract was procured via competitive procurement in FY2023. | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Secure, accurate billing Technology-forward, convenient payment options Enhanced customer communication | | | | | | Public Engagement and Trust | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> Complete transition to new system | | | | | | <ul style="list-style-type: none"> Customers will be transitioned to a new billing/system | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> Recommendations based on Phase 1 Billing Transition Support Services Report dated November 29, 2021 | | | | | | <ul style="list-style-type: none"> None. | | | | | | |

Commonwealth Interceptor Upgrade Project

| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
|--|--------------|---------------------|-------------|-------------|--------------|--|--------------|-------------|-----------------------|---------|---------|---------------------------|
| Communications and External Programs | | Commonwealth Avenue | | | | Interceptor/Trunk Sewers Rehab. <input checked="" type="radio"/> Alex Only <input type="radio"/> Joint Use | | | 50 years | | | \$72,500,000 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | Undetermined |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$2,900,000 | \$3,200,000 | \$3,900,000 | \$2,500,000 | \$12,000,000 | \$20,000,000 | \$22,000,000 | \$6,000,000 | \$0 | \$0 | \$0 | \$69,600,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$2,900,000 | \$3,200,000 | \$3,900,000 | \$2,500,000 | \$12,000,000 | \$20,000,000 | \$22,000,000 | \$6,000,000 | \$0 | \$0 | \$0 | \$69,600,000 |
| Fairfax | - | - | - | - | - | - | - | - | - | - | - | - |
| Project Description and Justification | | | | | | | | | | | | |
| <p>Purpose: Ensure that the Commonwealth Interceptor is adequately sized to convey sanitary sewer flows during rain events, as well as to reduce, to the degree possible, excess inflow and infiltration originating from the City's sanitary sewer collection system which feeds the Commonwealth Interceptor.</p> <p>Background: The Commonwealth Interceptor is a separate sanitary interceptor that has sufficient capacity to convey sanitary sewer flows to AlexRenew. However, during periods of intense rain, the Commonwealth's Separate Sanitary Sewer Area is overwhelmed by excess infiltration and inflow.</p> <p>Project Components: Collaborative alternatives analysis and modeling with the City, civic engagement, planning, design and implementation of selected alternative(s) between Braddock Road and Duke St.</p> <p>Procurement Method: Design-Bid-Build</p> | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Reduces AlexRenew risk of permit noncompliance Protects AlexRenew infrastructure Helps address basement backups along the Commonwealth corridor | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> Undertake preliminary engineering including preparing an alternatives analysis to study potential approaches to reducing infiltration and inflow into the Commonwealth Interceptor. | | | | | | <ul style="list-style-type: none"> Temporary impacts during construction to community and operations of the interceptor. Potential impact of reducing infiltration and inflow originating from residential properties (downspouts, laterals, etc). | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> None | | | | | | <ul style="list-style-type: none"> New project for FY24 | | | | | | |

| Potomac Interceptor Rehabilitation | | | | | | | | | | | | |
|---|--------------|---------|---|-------------|-------------|--|-------------|---------|-----------------------|---------|---------|--------------------|
| Managing Department | | | Project Location | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Engineering | | | East Alexandria (Jones Point Park) | | | Interceptor/Trunk Sewers Rehab. <input checked="" type="radio"/> Alex Only <input type="radio"/> Joint Use | | | 20-30 years | | | \$14,093,900 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | Undetermined |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$0 | \$0 | \$432,900 | \$1,001,000 | \$3,460,000 | \$5,800,000 | \$3,400,000 | \$0 | \$0 | \$0 | \$0 | \$14,093,900 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$0 | \$0 | \$432,900 | \$1,001,000 | \$3,460,000 | \$5,800,000 | \$3,400,000 | \$0 | \$0 | \$0 | \$0 | \$14,093,900 |
| Fairfax | - | - | - | - | - | - | - | - | - | - | - | - |
| Project Description and Justification | | | | | | | | | | | | |
| <p>Purpose: To inspect, replace and/or rehabilitate the Potomac Interceptor (PI).</p> <p>Background: Parts of the PI were CCTV inspected in 2015/2016. Several defects were found including pipe settlement in the area of Jones Point Park. Work includes phased lining of the entire length, which is exhibiting exposed aggregate, and in some areas CCTV to reconfirm the needed repairs.</p> <p>Project Components: CCTV, planning, design, and construction for issues identified in 2017 Report.</p> <ul style="list-style-type: none"> • Replace the 1,450 linear feet of 42-inch pipe within Jones Point Park (Permits required from National Park Service) • Rehabilitate all 26 manholes of Potomac Interceptor • Clean and/or re-inspect the PI (City Permit required) segments. <p>Procurement Method: To be determined</p> | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> • Improve reliability and longevity of the PI. | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| None | | | | | | <ul style="list-style-type: none"> • Temporary impacts during construction to community and operations. | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> • 2017 Greeley and Hansen Report, "Potomac Interceptor Condition Assessment Summary and Recommendations" | | | | | | <ul style="list-style-type: none"> • Project cost and schedule updated | | | | | | |

Potomac Yard Trunk Sewer Condition Assessment

| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
|--|--------------|------------------|---------|---------|-----------|---|---------|---------|-----------------------|---------|---------|---------------------------|
| Engineering | | East Alexandria | | | | Interceptor/Trunk Sewers Rehab. <input checked="" type="radio"/> Alex Only <input type="radio"/> Joint Use | | | 20-30 years | | | \$400,000 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | Undetermined |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$0 | \$0 | \$0 | \$0 | \$400,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$400,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$0 | \$0 | \$0 | \$0 | \$400,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$400,000 |
| Fairfax | - | - | - | - | - | - | - | - | - | - | - | - |
| Project Description and Justification | | | | | | | | | | | | |
| Purpose: To inspect and rehabilitate portions of the Potomac Yard Trunk Sewer (PYTS) Background: The PYTS was constructed in 2002 and needs to be periodically cleaned, inspected, and rehabilitated. Project Components: Condition assessment of the PYTS (including cleaning and inspection) and the implementation of any rehabilitation recommendations. Procurement Method: To be determined | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Maximized asset life | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> N/A | | | | | | <ul style="list-style-type: none"> Temporary impacts during construction to community, including traffic, parking impacts. | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> None | | | | | | <ul style="list-style-type: none"> New project in FY24 | | | | | | |

| Four Mile Run Pump Station Modifications | | | | | | | | | | | | |
|---|--------------|-----------|------------------|---------|---------|--|---------|---------|-----------------------|---------|---------|--------------------|
| Managing Department | | | Project Location | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Communications and External Programs | | | Four Mile Run PS | | | Service Chambers & Pump Stations Upgrades <input checked="" type="radio"/> Alex Only <input type="radio"/> Joint Use | | | 20-30 years | | | \$760,000 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$160,000 | \$600,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$600,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$160,000 | \$600,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$600,000 |
| Fairfax | - | - | - | - | - | - | - | - | - | - | - | - |
| Project Description and Justification | | | | | | | | | | | | |
| <p>Purpose: To modify the existing pump station to address sanitary sewer overflows.</p> <p>Background: The Four Mile Run Pumping Station continues to experience excess infiltration and inflow from the upstream sewer shed, leading to sanitary sewer overflows. Station modifications are needed to automate the "pump over" which sends flows in excess of 9.4MGD to the Potomac Yard Trunk Sewer. Station modification is expected to start in FY23 and conclude in FY24.</p> <p>Project Components: Piping and valve modifications, SCADA programming.</p> <p>Procurement Method: Design-Bid-Build</p> | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Reduce manual operation of pump over. | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> Complete construction | | | | | | <ul style="list-style-type: none"> Temporary impacts during construction | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> None | | | | | | <ul style="list-style-type: none"> None | | | | | | |

| Innovation District Pumping Station Start-up Support | | | | | | | | | | | | |
|---|---|------------------|---------|---------|---------|--|---------|---------|-----------------------|---------|---------|--------------------|
| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Communications and External Programs | | 3801 Potomac Ave | | | | Service Chambers & Pump Stations Upgrades <input checked="" type="radio"/> Alex Only <input type="radio"/> Joint Use | | | 20 years | | | \$550,000 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$300,000 | \$250,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$250,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$300,000 | \$250,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$250,000 |
| Fairfax | - | - | - | - | - | - | - | - | - | - | - | - |
| Project Description and Justification | | | | | | | | | | | | |
| Purpose: | To participate in the commissioning of the Innovation District Pumping Station (IDPS). | | | | | | | | | | | |
| Background: | The Innovation District Pumping Station is being built to serve new developments in the City brought on by the arrival of the Virginia Tech (VT) Campus. AlexRenew has been collaborating with the City and the Developer on the pump station's design, sewer impacts and the related infrastructure improvements. The pump station is anticipated to be completed in FY2024. | | | | | | | | | | | |
| Project Components: | Provide technical support during start-up and commissioning | | | | | | | | | | | |
| Procurement Method: | Part of existing consultant contract | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Ensures that new IDPS is constructed, commissioned, and transitioned in accordance with the design specifications and AlexRenew's requirements. | | | | | | Watershed Stewardship | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> To participate in/provide services related to start-up the new facility. | | | | | | <ul style="list-style-type: none"> Supports the City's partnership with Virginia Tech | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> N/A | | | | | | <ul style="list-style-type: none"> None | | | | | | |

Service Chamber and Pump Station Condition Assessment

| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
|--|--------------|-------------------|-----------|---------|---------|---|---------|---------|-----------------------|---------|---------|--------------------|
| Communications and External Programs | | Various Locations | | | | Service Chambers & Pump Stations Upgrades | | | 20 years | | | \$150,000 |
| | | | | | | <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | Undetermined |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$0 | \$0 | \$150,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$150,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$0 | \$0 | \$60,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$60,000 |
| Fairfax | \$0 | \$0 | \$90,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$90,000 |
| Project Description and Justification | | | | | | | | | | | | |
| <p>Purpose: To perform a condition assessment of and implement any identified rehabilitation/replacement projects associated with service chamber or pump station components.</p> <p>Background: AlexRenew owns and operates 4 pump stations and 2 service chambers. A comprehensive review of the infrastructure is needed to assess these assets. The assets need improvements as they age to ensure they can continue to provide the required level of service.</p> <p>Project Components: Condition assessment. Costs for rehab/ replacement excluded</p> <p>Procurement Method: TBD</p> | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Maximizes asset performance and life. | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> None | | | | | | <ul style="list-style-type: none"> None | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> Greeley and Hansen August 2017 Pump Station and Service Chamber Condition Assessment Summary and Recommendations Report | | | | | | <ul style="list-style-type: none"> New project | | | | | | |

City of Alexandria 4 MGD WRRF Expansion Facility Plan

| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
|--|--------------|------------------|---------|---------|-------------|---|---------|---------|-----------------------|---------|---------|--------------------|
| Engineering | | WRRF | | | | WRRF Improvements | | | 40 years | | | \$2,000,000 |
| | | | | | | <input checked="" type="radio"/> Alex Only <input type="radio"/> Joint Use | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | Undetermined |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$0 | \$0 | \$0 | \$0 | \$1,000,000 | \$1,000,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,000,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$0 | \$0 | \$0 | \$0 | \$1,000,000 | \$1,000,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,000,000 |
| Fairfax | - | - | - | - | - | - | - | - | - | - | - | - |
| Project Description and Justification | | | | | | | | | | | | |
| <p>Purpose: To develop a facility plan for increasing the capacity of the WRRF by 4 million gallons per day (MGD) (from 54MGD to 58MGD) to accommodate future City flows.</p> <p>Background: The population of the City of Alexandria is expected to grow resulting in the generation of additional sewer flows that need treatment; 4MGD is the City's additional treatment need based on sewer flow projections.</p> <p>Project Components: Facility plan only; design and construction excluded.</p> <p>Procurement Method: TBD</p> | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Supports the future provision of sewer treatment services needed to accommodate projected City growth. | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> None | | | | | | <ul style="list-style-type: none"> None | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> City of Alexandria Sanitary Sewer Master Plan (approved October 2021) | | | | | | <ul style="list-style-type: none"> None | | | | | | |

| NMF Wet Well Study and Preliminary Design | | | | | | | | | | | | |
|--|--------------|-------------------|---------|---------|---------|--|-----------|-----------|-----------------------|---------|---------|--------------------|
| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Engineering | | Building 60 (NMF) | | | | WRRF Improvements <input checked="" type="radio"/> Alex Only <input type="radio"/> Joint Use | | | N/A | | | \$300,000 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | Undetermined |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$100,000 | \$200,000 | \$0 | \$0 | \$0 | \$300,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$100,000 | \$200,000 | \$0 | \$0 | \$0 | \$300,000 |
| Fairfax | - | - | - | - | - | - | - | - | - | - | - | - |
| Project Description and Justification | | | | | | | | | | | | |
| <p>Purpose: To evaluate eliminating/re-purposing the Nutrient Management Facility (NMF) wet well and the reduction of NMF pump vibration and harmonics.</p> <p>Background: The NMF wet well was designed to function as part of the wet weather pumping station (WWPS) associated with the RiverRenew tunnel system. The WWPS's location changed and the NMF wet well may no longer be needed. In addition, undesirable pump harmonics have been observed in the NMF that need to be addressed. As the extent of the construction costs are unknown, the budget only reflects the costs for an engineering study and preliminary design.</p> <p>Project Components: An engineering study and preliminary design</p> <p>Procurement Method: TBD</p> | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Maximizes asset use and life. Decreases future O&M costs | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> None | | | | | | <ul style="list-style-type: none"> None | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> None | | | | | | <ul style="list-style-type: none"> Project start moved to FY29 | | | | | | |

Arlington County Capital Contributions

| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
|--|--------------|------------------|-------------|-------------|-------------|--|-----------|-----------|-----------------------|-----------|-----------|--------------------|
| Finance | | Various | | | | Other | | | 20 years | | | N/A |
| | | | | | | <input checked="" type="radio"/> Alex Only <input type="radio"/> Joint Use | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | Yes |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$1,613,000 | \$2,543,000 | \$4,929,000 | \$4,995,000 | \$3,670,000 | \$1,616,000 | \$245,000 | \$205,000 | \$210,000 | \$211,000 | \$210,001 | \$18,834,001 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$1,613,000 | \$2,543,000 | \$4,929,000 | \$4,995,000 | \$3,670,000 | \$1,616,000 | \$245,000 | \$205,000 | \$210,000 | \$211,000 | \$210,001 | \$18,834,001 |
| Fairfax | - | - | - | - | - | - | - | - | - | - | - | - |
| Project Description and Justification | | | | | | | | | | | | |
| <p>Purpose: To fund portions of capital improvements at the Arlington County (County) Water Pollution Control Plant (WPCP).</p> <p>Background: The City of Alexandria maintains 3MGD in capacity rights for the County's WCPC. Per the service agreement with the County and City, AlexRenew makes annual contributions to the County on behalf of the city sewer users to Arlington to fund allocable portions of capital improvements at the Arlington wastewater and conveyance facilities. AlexRenew's capital contributions to the County are billed quarterly and the County manages procurement and execution of project work.</p> <p>Project Components: Various.</p> <p>Procurement Method: N/A</p> | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Maintains reliability and availability of the Arlington WPCP. | | | | | | Watershed Stewardship | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> Continue contributions to capital funding. | | | | | | <ul style="list-style-type: none"> Results in operational efficiencies for the Arlington WPCP | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> N/A | | | | | | <ul style="list-style-type: none"> None | | | | | | |

| Capital Financing Fees | | | | | | | | | | | | | |
|--|--|-----------|------------------|-----------|-----------|--|--|-----------|-----------|-----------------------|-----------|--------------|--------------------|
| Managing Department | | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Finance | | | Various | | | | Other <input checked="" type="radio"/> Alex Only <input type="radio"/> Joint Use | | | 20 years | | | N/A |
| | | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | | Yes |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total | |
| Total | \$250,000 | \$250,000 | \$250,000 | \$250,000 | \$150,000 | \$150,000 | \$150,000 | \$150,000 | \$150,000 | \$150,000 | \$150,000 | \$1,800,000 | |
| Financing | | | | | | | | | | | | | |
| AlexRenew | \$250,000 | \$250,000 | \$250,000 | \$250,000 | \$150,000 | \$150,000 | \$150,000 | \$150,000 | \$150,000 | \$150,000 | \$150,000 | \$1,800,000 | |
| Fairfax | - | - | - | - | - | - | - | - | - | - | - | - | |
| Project Description and Justification | | | | | | | | | | | | | |
| Purpose: | To fund the capital budget to accommodate fees associated with the financing of the Capital program. | | | | | | | | | | | | |
| Background: | The financial advisory fees relate to structuring of debt to fund both the General CIP and RiverRenew program, legal fees such as Bond Counsel work to review legal documentation, rate consultant work to consider the impact of funding mechanism on rates, and application fees to potential grant or loan programs. To accommodate these fees, funds allocation in the capital budget is required. Certain ongoing fees are required during the RiverRenew construction period to maintain AlexRenew's \$321 million Water Infrastructure Finance and Innovation Act (WIFIA) Loan. | | | | | | | | | | | | |
| Project Components: | Financial advisory fees, legal fees, rate consultant work, and loan application and servicing fees. | | | | | | | | | | | | |
| Procurement Method: | Varies depending upon service received | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | | |
| <ul style="list-style-type: none"> Investing in capital finance fees helps ensure that capital financing is executed in the most efficient manner | | | | | | Effective Financial Stewardship | | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | | |
| <ul style="list-style-type: none"> Maintain public rating Maintain ongoing WIFIA portfolio management process | | | | | | <ul style="list-style-type: none"> Efficient execution of Capital Financing helps to minimize rate impacts. | | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | | |
| <ul style="list-style-type: none"> Per Board guidance on capital and debt planning | | | | | | <ul style="list-style-type: none"> None | | | | | | | |

| Holmes Run Trunk Sewer Rehabilitation | | | | | | | | | | | | |
|---|---|---------|------------------|-----------|-----------|---|-------------|---------|-----------------------|---------|---------|--------------------|
| Managing Department | | | Project Location | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Communications and External Programs | | | West Alexandria | | | Interceptor/Trunk Sewers Rehab. <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | 20-30 years | | | \$12,300,000 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | Undetermined |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$0 | \$0 | \$500,000 | \$900,000 | \$900,000 | \$4,800,000 | \$5,200,000 | \$0 | \$0 | \$0 | \$0 | \$12,300,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$0 | \$0 | \$200,000 | \$360,000 | \$360,000 | \$1,920,000 | \$2,080,000 | \$0 | \$0 | \$0 | \$0 | \$4,920,000 |
| Fairfax | \$0 | \$0 | \$300,000 | \$540,000 | \$540,000 | \$2,880,000 | \$3,120,000 | \$0 | \$0 | \$0 | \$0 | \$7,380,000 |
| Project Description and Justification | | | | | | | | | | | | |
| Purpose: | To inspect and rehabilitate portions of the Holmes Run Trunk Sewer (HRTS) to improve capacity and pipe conditions. | | | | | | | | | | | |
| Background: | A July 2015 report recommended lining a portion of the Upper HRTS to improve conveyance. A 2017 condition assessment recommended other rehabilitation activities. | | | | | | | | | | | |
| Project Components: | Rehabilitate/line HRTS reaches 4, 5, 8, & 9 and reinspection select reaches. | | | | | | | | | | | |
| Procurement Method: | TBD | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Improve reliability and longevity of the HRTS | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> N/A | | | | | | <ul style="list-style-type: none"> Temporary impacts during construction to community, including traffic, parking impacts. | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> Wet Weather Management Evaluation Update (Task Order 16-2005), 2015 Holmes Run Trunk Interceptor System Condition Assessment. (2017) | | | | | | <ul style="list-style-type: none"> Project start moved from FY2024 to FY2025 | | | | | | |

| WRRF HVAC System Upgrade | | | | | | | | | | | | |
|---|--------------|---------|------------------|---------|----------|--|-----------|-----------|-----------------------|---------|---------|--------------------|
| Managing Department | | | Project Location | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Engineering | | | WRRF | | | WRRF Improvements <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | N/A | | | \$1,100,000 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$0 | \$0 | \$0 | \$0 | \$50,000 | \$50,000 | \$500,000 | \$500,000 | \$0 | \$0 | \$0 | \$1,100,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$0 | \$0 | \$0 | \$0 | \$20,000 | \$20,000 | \$200,000 | \$200,000 | \$0 | \$0 | \$0 | \$440,000 |
| Fairfax | \$0 | \$0 | \$0 | \$0 | \$30,000 | \$30,000 | \$300,000 | \$300,000 | \$0 | \$0 | \$0 | \$660,000 |
| Project Description and Justification | | | | | | | | | | | | |
| <p>Purpose: To evaluate and upgrade the HVAC systems across the AlexRenew campus.</p> <p>Background: Some of the HVAC systems are reaching the end of their useful life and others may benefit from optimization. A study is needed to evaluate the condition and performance of various HVAC systems across the campus. An upgrade is required to consolidate/upgrade and optimize the HVAC controls.</p> <p>Project Components: TBD. May include: replacement or modification of HVAC systems to include field devices, controls, and computer software.</p> <p>Procurement Method: TBD</p> | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Increased performance and reliability of campus HVAC systems | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> N/A | | | | | | <ul style="list-style-type: none"> Temporary impacts during implementation of improvements/upgrades | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> TBD | | | | | | <ul style="list-style-type: none"> None | | | | | | |

Campus-wide Electrical Upgrade Sub-program

| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
|--|--------------|------------------|---------|-----------|-------------|---|-------------|-------------|-----------------------|---------|---------|--------------------|
| Engineering | | WRRF | | | | WRRF Improvements | | | 10 years | | | \$14,992,000 |
| | | | | | | <input type="radio"/> Alex Only | | | | | | Grant/Debt Funded? |
| | | | | | | <input checked="" type="radio"/> Joint Use | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$0 | \$0 | \$0 | \$781,000 | \$3,334,000 | \$3,278,000 | \$4,301,000 | \$2,652,000 | \$646,000 | \$0 | \$0 | \$14,992,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$0 | \$0 | \$0 | \$312,400 | \$1,333,600 | \$1,311,200 | \$1,720,400 | \$1,060,800 | \$258,400 | \$0 | \$0 | \$5,996,800 |
| Fairfax | \$0 | \$0 | \$0 | \$468,600 | \$2,000,400 | \$1,966,800 | \$2,580,600 | \$1,591,200 | \$387,600 | \$0 | \$0 | \$8,995,200 |
| Project Description and Justification | | | | | | | | | | | | |
| <p>Purpose: To upgrade the electrical systems to support the safety and reliability of the WRRF's electrical grid and related infrastructure.</p> <p>Background: As electrical equipment ages and nears the end of its useful life equipment performance may decline or become unreliable.</p> <p>Project Components: TBD. May include the assessment of the existing electrical system and/or components thereof and the identification, design, and implementation of upgrades such as switchgear replacements.</p> <p>Procurement Method: TBD</p> | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> • To support plant reliability and safety • To reduce plant energy consumption | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> • None | | | | | | <ul style="list-style-type: none"> • Temporary impacts during upgrade implementation | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> • None | | | | | | <ul style="list-style-type: none"> • None. | | | | | | |

Centrate Pretreatment Facility Improvements

| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget | | | |
|---|--------------|------------------|-------------|-------------|-------------|--|-----------|-----------|-----------------------|-----------|-----------|--|--|--|--------------------|
| Operations & Maintenance | | WRRF | | | | WRRF Improvements | | | N/A | | | \$19,900,000 | | | |
| | | | | | | <input type="radio"/> Alex Only | | | | | | <input checked="" type="radio"/> Joint Use | | | Grant/Debt Funded? |
| | | | | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total | | | |
| Total | \$0 | \$500,000 | \$5,200,000 | \$7,000,000 | \$6,000,000 | \$200,000 | \$200,000 | \$200,000 | \$200,000 | \$200,000 | \$200,000 | \$19,900,000 | | | |
| Financing | | | | | | | | | | | | | | | |
| AlexRenew | \$0 | \$200,000 | \$2,080,000 | \$2,800,000 | \$2,400,000 | \$80,000 | \$80,000 | \$80,000 | \$80,000 | \$80,000 | \$80,000 | \$7,960,000 | | | |
| Fairfax | \$0 | \$300,000 | \$3,120,000 | \$4,200,000 | \$3,600,000 | \$120,000 | \$120,000 | \$120,000 | \$120,000 | \$120,000 | \$120,000 | \$11,940,000 | | | |
| Project Description and Justification | | | | | | | | | | | | | | | |
| <p>Purpose: To improve the centrate pretreatment process.</p> <p>Background: The centrate pretreatment facility uses the DEMON process to reduce the nitrogen content of the dewatered centrate before it returned to the BRBs. Process improvements are needed to increase system efficiency and performance.</p> <p>Project Components: TBD. May include replacement of system components such as the cyclone feed pumps and the centrate transfer piping.</p> <p>Procurement Method: TBD</p> | | | | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | | | | |
| <ul style="list-style-type: none"> Increase reliability of the system/reduced system downtime and maintenance. | | | | | | Operational Excellence | | | | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | | | | |
| <ul style="list-style-type: none"> Implement process improvements. | | | | | | <ul style="list-style-type: none"> Temporary impacts during implementation of improvements/upgrades | | | | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | | | | |
| <ul style="list-style-type: none"> Centrate Pre-Treatment Recycle Pumps Performance Deterioration TM (CH2M, May 2016) Summary of Centrate Pre-Treatment Blower Failure Investigation, Evaluation and Recommendations TM (CH2M, February 2017) | | | | | | <ul style="list-style-type: none"> Project start moved to FY 2024 | | | | | | | | | |

Centrifuge Upgrade Project

| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
|--|--------------|------------------|-------------|---------|-------------|---|-------------|---------|-----------------------|---------|-------------|--------------------|
| Engineering | | WRRF | | | | WRRF Improvements | | | N/A | | | \$15,110,000 |
| | | | | | | <input type="radio"/> Alex Only | | | | | | Grant/Debt Funded? |
| | | | | | | <input checked="" type="radio"/> Joint Use | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$0 | \$500,000 | \$2,922,000 | \$0 | \$2,922,000 | \$0 | \$2,922,000 | \$0 | \$2,922,000 | \$0 | \$2,922,000 | \$15,110,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$0 | \$200,000 | \$1,168,800 | \$0 | \$1,168,800 | \$0 | \$1,168,800 | \$0 | \$1,168,800 | \$0 | \$1,168,800 | \$6,044,000 |
| Fairfax | \$0 | \$300,000 | \$1,753,200 | \$0 | \$1,753,200 | \$0 | \$1,753,200 | \$0 | \$1,753,200 | \$0 | \$1,753,200 | \$9,066,000 |
| Project Description and Justification | | | | | | | | | | | | |
| <p>Purpose: To replace the existing dewatering and thickening centrifuges.</p> <p>Background: Four thickening centrifuges (two duty, two standby) are used to thicken waste activated sludge (WAS) and three dewatering centrifuges (two duty, one standby) are used to dewater digested sludge. Both systems are part of the WRRF's solids handling process and were placed into service in 2003. Components of both systems are expected to reach the end of their useful lives in the next few years and replacement is needed.</p> <p>Project Components: May include centrifuges and associated appurtenances.</p> <p>Procurement Method: TBD</p> | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> • Maintains solids process performance. | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> • Centrifuge drive replacement. | | | | | | <ul style="list-style-type: none"> • Temporary impacts during implementation of upgrades | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> • Planned equipment replacement. | | | | | | <ul style="list-style-type: none"> • Change in timing of rehabilitation | | | | | | |

Tertiary Upgrades

| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
|---|--------------|------------------------------|-------------|--------------|--------------|---|-------------|---------|-----------------------|---------|---------|--------------------|
| Engineering | | Buildings G/3, G/4, G/5, G/6 | | | | WRRF Improvements | | | 20 years | | | \$37,223,000 |
| | | | | | | <input type="radio"/> Alex Only | | | | | | Grant/Debt Funded? |
| | | | | | | <input checked="" type="radio"/> Joint Use | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$223,000 | \$1,000,000 | \$3,000,000 | \$11,000,000 | \$10,800,000 | \$8,200,000 | \$3,000,000 | \$0 | \$0 | \$0 | \$0 | \$37,000,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$89,200 | \$400,000 | \$1,200,000 | \$4,400,000 | \$4,320,000 | \$3,280,000 | \$1,200,000 | \$0 | \$0 | \$0 | \$0 | \$14,800,000 |
| Fairfax | \$133,800 | \$600,000 | \$1,800,000 | \$6,600,000 | \$6,480,000 | \$4,920,000 | \$1,800,000 | \$0 | \$0 | \$0 | \$0 | \$22,200,000 |
| Project Description and Justification | | | | | | | | | | | | |
| <p>Purpose: To maintain efficient and effective tertiary treatment.</p> <p>Background: The tertiary treatment systems at the WRRF are aging and in need of repair and/or modification to ensure efficient and effective operation. A condition assessment of tertiary filters 1-12 has been completed and additional assessments of filters 13-22 and the tertiary settling tanks (TSTs) are needed. Any identified deficiencies, or recommended system improvements, need to be addressed to ensure efficient system operation.</p> <p>Project Components: Design and construction of tertiary system improvements.</p> <p>Procurement Method: TBD</p> | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Improved tertiary system performance and reliability | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> Assessment and design of tertiary system improvements | | | | | | <ul style="list-style-type: none"> Temporary impacts to staff during construction | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> Condition Assessment and Proposed Repair Plan Technical Memorandum: AlexRenew Effluent Filters and Primary Settling Tank Effluent Channel (BOA 20-001B-01, Task 3) | | | | | | <ul style="list-style-type: none"> Expanded the components of the tertiary system to be included in the assessment/upgrades. | | | | | | |

| Plant Effluent Water (W3) Systems Improvements | | | | | | | | | | | | |
|--|--------------|------------------|-----------|-------------|---------|--|---------|---------|-----------------------|----------|---------|--------------------|
| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Engineering | | Building F | | | | WRRF Improvements <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | 10 years | | | \$4,142,747 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$400,000 | \$1,027,425 | \$906,255 | \$1,736,438 | \$0 | \$31,907 | \$0 | \$0 | \$0 | \$40,722 | \$0 | \$3,742,747 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$160,000 | \$410,970 | \$362,502 | \$694,575 | \$0 | \$12,763 | \$0 | \$0 | \$0 | \$16,289 | \$0 | \$1,497,099 |
| Fairfax | \$240,000 | \$616,455 | \$543,753 | \$1,041,863 | \$0 | \$19,144 | \$0 | \$0 | \$0 | \$24,433 | \$0 | \$2,245,648 |
| Project Description and Justification | | | | | | | | | | | | |
| <p>Purpose: To upgrade components of the plant water (W3) system.</p> <p>Background: An evaluation of the W3 system was previously performed and identified recommended improvements to increase system efficiency. These recommendations include: operational changes, additional studies, and system upgrades.</p> <p>Project Components: Pressure monitoring equipment, booster pump enhancements, automated valves & switches, SCADA-integrated flow meters, testing of meters and pumps, isolation valves, future condition assessments, and pump system upgrades.</p> <p>Procurement Method: TBD</p> | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Increased reliability and efficiency of W3 systems | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> Install new meters and equipment Conduct Performance Testing for W3 Pumps | | | | | | <ul style="list-style-type: none"> Temporary impacts to staff during construction | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> W3/RW System Performance Evaluation - Existing & Planned Demands Through 2025 (BOA 20-001-D_05) | | | | | | <ul style="list-style-type: none"> None | | | | | | |

| HMI Upgrade | | | | | | | | | | | | |
|---|--|------------------|-----------|---------|---------|--|---------|---------|-----------------------|---------|---------|--------------------|
| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Information Technology | | Various | | | | WRRF Improvements <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | 5 years | | | \$4,256,434 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$1,600,000 | \$1,875,130 | \$781,304 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,656,434 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$640,000 | \$750,052 | \$312,522 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,062,574 |
| Fairfax | \$960,000 | \$1,125,078 | \$468,783 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,593,861 |
| Project Description and Justification | | | | | | | | | | | | |
| Purpose: | To upgrade and modify the Human Machine Interface (HMI) applications associated with the WRRF's supervisory control and data acquisition (SCADA) system. | | | | | | | | | | | |
| Background: | The current HMI application is obsolete. The HMI screens and PLC code need to be upgraded to meet current industry standards. | | | | | | | | | | | |
| Project Components: | Replacement of WinCC with Factory Talk View SE. | | | | | | | | | | | |
| Procurement Method: | Existing contract. | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> HMI that meets current industry standards and best practices Improved user experience, system stability, and functionality | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> Modify the HMI associated with the PLCs upgraded part of the PLC Upgrade/Replacement Project | | | | | | <ul style="list-style-type: none"> Temporary impacts during implementation of upgrades | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> 2016 SCADA Master Plan | | | | | | <ul style="list-style-type: none"> Extension of project schedule | | | | | | |

| Information Technology Projects | | | | | | | | | | | | |
|---|--------------|------------------|-------------|-------------|-------------|--|-------------|-------------|-----------------------|-------------|-------------|--------------------|
| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Information Technology | | Various | | | | WRRF Improvements <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | 5 years | | | \$26,900,000 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$6,000,000 | \$7,000,000 | \$2,400,000 | \$2,450,000 | \$2,150,000 | \$1,150,000 | \$1,150,000 | \$1,150,000 | \$1,150,000 | \$1,150,000 | \$1,150,000 | \$20,900,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$2,400,000 | \$2,800,000 | \$960,000 | \$980,000 | \$860,000 | \$460,000 | \$460,000 | \$460,000 | \$460,000 | \$460,000 | \$460,000 | \$8,360,000 |
| Fairfax | \$3,600,000 | \$4,200,000 | \$1,440,000 | \$1,470,000 | \$1,290,000 | \$690,000 | \$690,000 | \$690,000 | \$690,000 | \$690,000 | \$690,000 | \$12,540,000 |
| Project Description and Justification | | | | | | | | | | | | |
| <p>Purpose: To fund ongoing lifecycle replacement and expansion of information technology assets.</p> <p>Background: AlexRenew's infrastructure assets are approaching end of life and will no longer be supported by vendor.</p> <p>Project Components: TBD. May include: Cybersecurity enhancements, application upgrades like CMMS, LIMS, HVAC, SCADA. Hardware upgrades of switches, routers, access points, servers, and general infrastructure. Telecom and communication upgrades like VOIP, Call Managers. Battery and UPS replacements along with workstations and end user devices. Storage including primary and backup datacenters.</p> <p>Procurement Method: Various existing contracts</p> | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Increased cybersecurity Upgrades to supported versions of hardware and software | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> Enhance cybersecurity through upgrading datacenters and network Upgrade applications | | | | | | <ul style="list-style-type: none"> Increased stability of environment Increased network security Increased productivity | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| • N/A | | | | | | • Continuous efforts to support project upgrades | | | | | | |

| Main Campus Galleries Improvements | | | | | | | | | | | | |
|---|--------------|---------|------------------|---------|---------|---|-----------|-----------|-----------------------|---------|---------|--------------------|
| Managing Department | | | Project Location | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Engineering | | | WRRF | | | WRRF Improvements <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | 10 years | | | \$1,300,000 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$0 | \$0 | \$0 | \$0 | \$0 | \$500,000 | \$500,000 | \$300,000 | \$0 | \$0 | \$0 | \$1,300,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$0 | \$0 | \$0 | \$0 | \$0 | \$200,000 | \$200,000 | \$120,000 | \$0 | \$0 | \$0 | \$520,000 |
| Fairfax | \$0 | \$0 | \$0 | \$0 | \$0 | \$300,000 | \$300,000 | \$180,000 | \$0 | \$0 | \$0 | \$780,000 |
| Project Description and Justification | | | | | | | | | | | | |
| <p>Purpose: To improve AlexRenew's WRRF galleries.</p> <p>Background: AlexRenew's WRRF houses a series of underground, walkable, pipe galleries. Some of these were constructed as early as the 1950s and house mechanical and electrical utilities and piping. This project involves carrying out the recommended rehabilitation tasks previously identified during the creation of the gallery map.</p> <p>Project Components: TBD</p> <p>Procurement Method: TBD</p> | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> To maintain/improve existing assets. | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> None | | | | | | <ul style="list-style-type: none"> Reduce future maintenance costs and renew existing assets | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> TBD | | | | | | <ul style="list-style-type: none"> Project start moved to FY28. | | | | | | |

| Preliminary/Primary System Upgrades | | | | | | | | | | | | |
|--|--------------|-------------|--------------------------|--------------|--------------|--|--------------|---------|-----------------------|---------|---------|--------------------|
| Managing Department | | | Project Location | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Engineering | | | Building A Building K | | | WRRF Improvements <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | 20 years | | | \$81,650,000 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$1,250,000 | \$3,000,000 | \$7,000,000 | \$17,600,000 | \$17,600,000 | \$17,600,000 | \$17,600,000 | \$0 | \$0 | \$0 | \$0 | \$80,400,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$500,000 | \$1,200,000 | \$2,800,000 | \$7,040,000 | \$7,040,000 | \$7,040,000 | \$7,040,000 | \$0 | \$0 | \$0 | \$0 | \$32,160,000 |
| Fairfax | \$750,000 | \$1,800,000 | \$4,200,000 | \$10,560,000 | \$10,560,000 | \$10,560,000 | \$10,560,000 | \$0 | \$0 | \$0 | \$0 | \$48,240,000 |
| Project Description and Justification | | | | | | | | | | | | |
| Purpose: To upgrade the WRRF's aging Preliminary and Primary Treatment Systems. | | | | | | | | | | | | |
| Background: Many of the system components of the Preliminary and Primary Treatment Systems are reaching the end of their useful life. The Preliminary/Primary System Upgrade (PPSU) study identified needed upgrades. The project is expected to be designed and constructed in phases. | | | | | | | | | | | | |
| Project Components: Design of Phase 1 recommendations | | | | | | | | | | | | |
| Procurement Method: Existing contract for design and ITB for construction | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Improved reliability and resiliency of preliminary/primary systems | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> Complete phase I design | | | | | | <ul style="list-style-type: none"> Temporary impacts during construction of upgrades | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> None | | | | | | <ul style="list-style-type: none"> N/A | | | | | | |

| Primary Settling Tank Rehabilitation | | | | | | | | | | | | | |
|--|--------------|-------------|------------------------------------|---------|---------|---|--|---------|---------|-----------------------|---------|--------------|--------------------|
| Managing Department | | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Engineering | | | Primary Settling Tanks 1 through 8 | | | | WRRF Improvements <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | 20 years | | | \$5,380,000 |
| | | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total | |
| Total | \$3,380,000 | \$2,000,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,000,000 | |
| Financing | | | | | | | | | | | | | |
| AlexRenew | \$1,352,000 | \$800,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$800,000 | |
| Fairfax | \$2,028,000 | \$1,200,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,200,000 | |
| Project Description and Justification | | | | | | | | | | | | | |
| <p>Purpose: To replace chain and flight equipment in the Primary Settling Tanks.</p> <p>Background: There are eight (8) Primary Settling Tanks (PST). The existing chain and flights in six (6) of these tanks are nearing the end of their useful life. This equipment is critical to the removal of solids/scum from the PSTs.</p> <p>Project Components: New drive chain, new longitudinal & cross collector mechanisms, new drive units, new sprocket motion monitoring system, new control stations for PST 5-8, and other miscellaneous parts replacements. Project also includes necessary electrical and structural modifications, engineering support, SCADA integration, and associated startup, certification, training, etc.</p> <p>Procurement Method: Existing contract for design, ITB for construction</p> | | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | | |
| <ul style="list-style-type: none"> Improve the overall performance, reliability, and efficiency of the PSTs | | | | | | Operational Excellence | | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | | |
| <ul style="list-style-type: none"> Complete equipment installation | | | | | | <ul style="list-style-type: none"> Maintain performance of the treatment process | | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | | |
| <ul style="list-style-type: none"> N/A | | | | | | <ul style="list-style-type: none"> None | | | | | | | |

| Reclaimed Water System Upgrade | | | | | | | | | | | | |
|--|--------------|-----------|------------------|-----------|---------|---|---------|---------|-----------------------|---------|---------|--------------------|
| Managing Department | | | Project Location | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Strategy and Policy | | | Building F | | | WRRF Improvements <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | TBD | | | \$2,109,474 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$0 | \$158,760 | \$951,568 | \$999,146 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,109,474 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$0 | \$63,504 | \$380,627 | \$399,658 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$843,790 |
| Fairfax | \$0 | \$95,256 | \$570,941 | \$599,488 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,265,684 |
| Project Description and Justification | | | | | | | | | | | | |
| Purpose: To asses and upgrade the reclaimed water system. Background: AlexRenew's existing reclaimed water system is designed to treat a maximum of 2.0 MGD. It was placed into service in 2015 and needs to be upgraded to meet future demands as well as ensure proper system performance. A system evaluation is in progress. Project Components: TBD. May include design of: Pumps, motors, drives, upgraded UV and booster systems, instrumentation, and related improvements. Procurement Method: TBD | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Maintained system performance and reliability Increased system capacity | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> Complete design of system upgrades | | | | | | <ul style="list-style-type: none"> Temporary impacts during implementation of upgrades | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> W3/RW System Performance Evaluation - Future Demands and Strategy Through 2031 (BOA 20-001-D_05) | | | | | | <ul style="list-style-type: none"> None | | | | | | |

| Solids Process Upgrades | | | | | | | | | | | | | |
|--|--|-------------|------------------|-------------|--------------|---|--|--------------|--------------|-----------------------|--------------|---------------|--------------------|
| Managing Department | | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Engineering | | | WRRF | | | | WRRF Improvements <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | N/A | | | \$115,100,000 |
| | | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total | |
| Total | \$1,100,000 | \$4,000,000 | \$5,000,000 | \$5,000,000 | \$10,000,000 | \$15,000,000 | \$15,000,000 | \$15,000,000 | \$15,000,000 | \$15,000,000 | \$15,000,000 | \$114,000,000 | |
| Financing | | | | | | | | | | | | | |
| AlexRenew | \$440,000 | \$1,600,000 | \$2,000,000 | \$2,000,000 | \$4,000,000 | \$6,000,000 | \$6,000,000 | \$6,000,000 | \$6,000,000 | \$6,000,000 | \$6,000,000 | \$45,600,000 | |
| Fairfax | \$660,000 | \$2,400,000 | \$3,000,000 | \$3,000,000 | \$6,000,000 | \$9,000,000 | \$9,000,000 | \$9,000,000 | \$9,000,000 | \$9,000,000 | \$9,000,000 | \$68,400,000 | |
| Project Description and Justification | | | | | | | | | | | | | |
| Purpose: | To improve solids handling at AlexRenew's WRRF. | | | | | | | | | | | | |
| Background: | The WRRF's solids processes are currently being evaluated as part of a Solids Master Plan (SMP). The SMP will take a holistic look at the existing solids processing system, including its performance and ability to meet current and future process needs. SMP recommendations will be made to improve solids handling, disposal and volume reduction options in the context of sustainability and regulatory drivers, available technologies, and best practices. Short and long term solids improvement projects shall be implemented based on the results of the SMP recommendations. | | | | | | | | | | | | |
| Project Components: | TBD | | | | | | | | | | | | |
| Procurement Method: | TBD | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | | |
| • Ensure the longevity and performance of the WRRF biosolids system. | | | | | | Operational Excellence | | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | | |
| • Complete the SMP and begin implementation of short term improvements | | | | | | • Temporary impacts during implementation of recommendations. | | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | | |
| • TBD | | | | | | • Solids management projects consolidated into one program | | | | | | | |

Plantwide Sump/Drain System Updates

| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
|--|--------------|------------------|-----------|-----------|-------------|--|---------|---------|-----------------------|---------|---------|--------------------|
| Engineering | | WRRF | | | | WRRF Improvements | | | 20 years | | | \$4,200,000 |
| | | | | | | <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$0 | \$200,000 | \$500,000 | \$500,000 | \$3,000,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,200,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$0 | \$80,000 | \$200,000 | \$200,000 | \$1,200,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,680,000 |
| Fairfax | \$0 | \$120,000 | \$300,000 | \$300,000 | \$1,800,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,520,000 |
| Project Description and Justification | | | | | | | | | | | | |
| <p>Purpose: To evaluate the condition and performance of the WRRF's aging drain systems.</p> <p>Background: A collection of sumps, trenches, and pipes exist to remove fluids from various areas of the WRRF. This project will assess the ability of the existing drainage systems to operate efficiently and reliably and will implement system modifications as needed.</p> <p>Project Components: Drain system assessment and modification.</p> <p>Procurement Method: TBD</p> | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Improve the overall reliability and performance of the WRRF drainage network. | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> Complete condition assessment | | | | | | <ul style="list-style-type: none"> Assessment work will need to be coordinated with O&M Temporary impacts during implementation of any recommendations | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> N/A | | | | | | <ul style="list-style-type: none"> New project in FY24 | | | | | | |

| Plantwide Chemical System Updates | | | | | | | | | | | | |
|---|---|------------------|-----------|-----------|---------|--|---------|---------|-----------------------|---------|---------|--------------------|
| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Engineering | | AlexRenew-WRRF | | | | WRRF Improvements <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | 50 years | | | \$1,500,000 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$0 | \$500,000 | \$500,000 | \$500,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,500,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$0 | \$200,000 | \$200,000 | \$200,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$600,000 |
| Fairfax | \$0 | \$300,000 | \$300,000 | \$300,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$900,000 |
| Project Description and Justification | | | | | | | | | | | | |
| Purpose: | To evaluate the condition and performance of the WRRF's aging chemical systems. | | | | | | | | | | | |
| Background: | Chemicals are widely used throughout treatment processes. The project will assess the ability of the existing chemical systems to efficiently and reliably meet WRRF process needs and will implement system modifications as needed. | | | | | | | | | | | |
| Project Components: | Chemical system assessment and modification. | | | | | | | | | | | |
| Procurement Method: | To be determined | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Improve the overall reliability and performance of the WRRF's chemical systems. | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> Complete the chemical system study | | | | | | <ul style="list-style-type: none"> Temporary impacts to staff during construction | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> N/A | | | | | | <ul style="list-style-type: none"> New project for FY 2024 | | | | | | |

Power Distribution Monitors

| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
|---|--------------|---|----------|----------|----------|---|----------|----------|-----------------------|----------|----------|--------------------|
| Engineering | | WRRF | | | | WRRF Improvements | | | 10 years | | | \$420,000 |
| | | | | | | <input type="radio"/> Alex Only | | | | | | Grant/Debt Funded? |
| | | | | | | <input checked="" type="radio"/> Joint Use | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$0 | \$150,000 | \$30,000 | \$30,000 | \$30,000 | \$30,000 | \$30,000 | \$30,000 | \$30,000 | \$30,000 | \$30,000 | \$420,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$0 | \$60,000 | \$12,000 | \$12,000 | \$12,000 | \$12,000 | \$12,000 | \$12,000 | \$12,000 | \$12,000 | \$12,000 | \$168,000 |
| Fairfax | \$0 | \$90,000 | \$18,000 | \$18,000 | \$18,000 | \$18,000 | \$18,000 | \$18,000 | \$18,000 | \$18,000 | \$18,000 | \$252,000 |
| Project Description and Justification | | | | | | | | | | | | |
| Purpose: | | To replace existing power monitors with ethernet connectivity and to network replacement of DH+ with Ethernet. | | | | | | | | | | |
| Background: | | AlexRenew's SCADA system is equipped with electrical power monitors designed to provide real-time and historical electricity consumption data for unit systems throughout the plant. The current power distribution monitors are obsolete and rely on proprietary communication technology and additional monitors may be needed in some areas. A power monitor audit will determine the number and location of additional monitors needed. | | | | | | | | | | |
| Project Components: | | Phased approach: programming and testing new modules, installing network infrastructure, updating reference documents, and updating the SCADA dashboard with energy usage data. | | | | | | | | | | |
| Procurement Method: | | TBD | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> • Enhance the system so that data interpretation can be used to make operational changes. • Enhance understanding of resource consumption | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> • Develop a plan for phased power monitor updates based on data needs for sustainability and O&M • Conduct proof of concept conditioning | | | | | | <ul style="list-style-type: none"> • A series of outages will be necessary to transition every device onto the new system. | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> • SCADA Master Plan | | | | | | <ul style="list-style-type: none"> • None | | | | | | |

| Warehouse and Inventory Upgrades | | | | | | | | | | | | |
|--|--------------|-------------|------------------|-------------|---------|---|---------|---------|-----------------------|---------|---------|--------------------|
| Managing Department | | | Project Location | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Engineering | | | WRRF | | | Improvement, Rehab., & Replacement (IRR) <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | 25-30 years | | | \$5,000,000 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$0 | \$1,500,000 | \$2,000,000 | \$1,500,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$5,000,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$0 | \$600,000 | \$800,000 | \$600,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,000,000 |
| Fairfax | \$0 | \$900,000 | \$1,200,000 | \$900,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,000,000 |
| Project Description and Justification | | | | | | | | | | | | |
| <p>Purpose: To create a centralized warehouse.</p> <p>Background: AlexRenew currently maintains a "just-in time" facility in Building G that houses small, often used and replaced parts and equipment. Supply chain issues in recent years have highlighted the need purchase and store critical, but less frequently replaced equipment and parts with lengthy lead times. More storage space is needed to facilitate this. In addition, large critical parts and assets are housed in a variety of WRRF locations around the facility. In addition to more storage space, AlexRenew desires to bring as much inventory as possible into one central location.</p> <p>Project Components: Warehouse feasibility study</p> <p>Procurement Method: Engineering BOA and future competitively bid contracts as appropriate</p> | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Improved inventory control and security Facilities WRRF reliability | | | | | | Effective Financial Stewardship | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> Continued Study of Building F warehouse feasibility | | | | | | <ul style="list-style-type: none"> Improved parts access and storage | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> TBD | | | | | | <ul style="list-style-type: none"> N/A | | | | | | |

| Secondary Settling Tanks Refurbishment | | | | | | | | | | | | |
|--|--------------|-------------|--------------------------------------|---------|---------|--|---------|---------|-----------------------|---------|---------|--------------------|
| Managing Department | | | Project Location | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Operations & Maintenance | | | Secondary Settling Tanks 1 through 6 | | | WRRF Improvements <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | 20 years | | | \$4,000,000 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$0 | \$2,000,000 | \$2,000,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,000,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$0 | \$800,000 | \$800,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,600,000 |
| Fairfax | \$0 | \$1,200,000 | \$1,200,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,400,000 |
| Project Description and Justification | | | | | | | | | | | | |
| Purpose: To replace the chain and flight equipment in the secondary settling tanks (SSTs). Background: There are six (6) secondary settling tanks consisting of four (4) cells each. The existing chain and flights in these tanks are nearing the end of their useful life. This equipment is critical to the removal of sediment/scum from the SSTs. Project Components: Chains, flight and associated appurtenances. Procurement Method: TBD | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Improve the overall performance, reliability, and efficiency of the SSTs | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> Replacement of existing equipment | | | | | | <ul style="list-style-type: none"> Maintain performance of the treatment process | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> None. | | | | | | <ul style="list-style-type: none"> None. | | | | | | |

| Security Services During Construction | | | | | | | | | | | | |
|--|--------------|-----------|------------------|-----------|---------|--|---------|---------|-----------------------|---------|---------|--------------------|
| Managing Department | | | Project Location | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Safety | | | WRRF | | | WRRF Improvements <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | 5 years | | | \$3,400,000 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | Yes |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$1,350,000 | \$550,000 | \$550,000 | \$550,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,650,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$540,000 | \$220,000 | \$220,000 | \$220,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$660,000 |
| Fairfax | \$810,000 | \$330,000 | \$330,000 | \$330,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$990,000 |
| Project Description and Justification | | | | | | | | | | | | |
| Purpose: To maintain security measures during the ongoing RiverRenew Tunnel Project. Background: Additional security is necessary during the ongoing RiverRenew Tunnel project to provide a safe, secure and reliable work environment for AlexRenew. Project Components: Security services Procurement Method: Existing contract | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Maintenance of safety and security during the ongoing RiverRenew Tunnel Project A safe and reliable work environment for all employees | | | | | | Public Engagement and Trust | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> Maintain efficient security services during the start of tunnel boring activities at the WRRF. | | | | | | <ul style="list-style-type: none"> Enhances safety and security for staff, contractors, and the surrounding community | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> None. | | | | | | <ul style="list-style-type: none"> None. | | | | | | |

| Environmental Center 5th Floor Build-out | | | | | | | | | | | | |
|---|--------------|-------------|----------------------|-------------|---------|--|---------|---------|-----------------------|---------|---------|--------------------|
| Managing Department | | | Project Location | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Communications and External Programs | | | Environmental Center | | | Other <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | 40 years | | | \$4,000,000 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | Undetermined |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$0 | \$1,000,000 | \$2,000,000 | \$1,000,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,000,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$0 | \$510,000 | \$1,020,000 | \$510,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,040,000 |
| Fairfax | \$0 | \$490,000 | \$980,000 | \$490,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,960,000 |
| Project Description and Justification | | | | | | | | | | | | |
| <p>Purpose: To complete the build out of the 5th floor of the Environmental Center (EC).</p> <p>Background: When the EC was built, the 5th floor was not built out to provide flexibility for future needs. With expansion and growth of the AlexRenew team, there is need to complete and furnish the 5th floor.</p> <p>Project Components: Design and construction</p> <p>Procurement Method: TBD</p> | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Optimize use of existing infrastructure and space | | | | | | Public Engagement and Trust | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> Design of the 5th floor space | | | | | | <ul style="list-style-type: none"> Increased usage of facilities and building space | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> TBD | | | | | | <ul style="list-style-type: none"> Budget modifications. | | | | | | |

| South Carlyle Partnership | | | | | | | | | | | | |
|---|--------------|---------|--|-----------|-----------|--|-----------|---------|-----------------------|---------|---------|--------------------|
| Managing Department | | | Project Location | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Communications and External Programs | | | Environmental Center and Carlyle Plaza | | | Other <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | 40 years | | | \$1,100,000 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | Undetermined |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$0 | \$0 | \$0 | \$200,000 | \$300,000 | \$300,000 | \$300,000 | \$0 | \$0 | \$0 | \$0 | \$1,100,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$0 | \$0 | \$0 | \$80,000 | \$120,000 | \$120,000 | \$120,000 | \$0 | \$0 | \$0 | \$0 | \$440,000 |
| Fairfax | \$0 | \$0 | \$0 | \$120,000 | \$180,000 | \$180,000 | \$180,000 | \$0 | \$0 | \$0 | \$0 | \$660,000 |
| Project Description and Justification | | | | | | | | | | | | |
| <p>Purpose: To provide engineering and/or construction services related to physically connecting the planned Carlyle Plaza II development to the AlexRenew Environmental Center (EC).</p> <p>Background: The AlexRenew EC was designed to connect to the future Carlyle Plaza II development (north of Limerick St). Carlyle Plaza II will provide additional public park space and supports the Eisenhower East Small Area Plan for connecting open spaces. The Carlyle Plaza II site is currently in use by the RiverRenew Tunnel Project and the Carlyle Plaza II development will begin following completion of the Tunnel Project. The proposed design includes a park that connects Carlyle Plaza II to the green roof above the EC's garage.</p> <p>Project Components: TBD</p> <p>Procurement Method: TBD</p> | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Facilitates proper coordination of physical connections to AlexRenew infrastructure. | | | | | | Watershed Stewardship | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> None | | | | | | <ul style="list-style-type: none"> Supports the City's Eisenhower East Small Area Plan for connecting open spaces | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> TBD | | | | | | <ul style="list-style-type: none"> Budget modifications. | | | | | | |

| Environmental Center Lobby Upgrades | | | | | | | | | | | | |
|--|--------------|---------|----------------------|---------|---------|---|---------|---------|-----------------------|---------|---------|--------------------|
| Managing Department | | | Project Location | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Communications and External Programs | | | Environmental Center | | | Other <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | 10 years | | | \$500,000 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | No |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$0 | \$0 | \$500,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$500,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$0 | \$0 | \$255,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$255,000 |
| Fairfax | \$0 | \$0 | \$245,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$245,000 |
| Project Description and Justification | | | | | | | | | | | | |
| Purpose: To update the educational exhibits in the Environmental Center Lobby to include RiverRenew. Background: The Environmental Center’s educational exhibits in the lobby have been a highly used space at educating visitors about the important work AlexRenew does. Updating these static exhibits provides more educational opportunities for community members. Project Components: Design, permitting, and installation of exhibits Procurement Method: TBD | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Expands educational exhibits for community members to engage with AlexRenew’s mission | | | | | | Public Engagement and Trust | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> None | | | | | | <ul style="list-style-type: none"> Increased value to community and usage of facilities. | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> TBD | | | | | | <ul style="list-style-type: none"> Moved start to after RiverRenew is largely complete | | | | | | |

Regulatory Analyses

| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
|---|--------------|------------------|-----------|-----------|----------|---|----------|----------|-----------------------|----------|----------|--------------------|
| Strategy and Policy | | Various | | | | Other | | | 15-20 years | | | \$1,025,000 |
| | | | | | | <input type="radio"/> Alex Only | | | | | | Grant/Debt Funded? |
| | | | | | | <input checked="" type="radio"/> Joint Use | | | | | | <Click to Select> |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$0 | \$175,000 | \$400,000 | \$100,000 | \$50,000 | \$50,000 | \$50,000 | \$50,000 | \$50,000 | \$50,000 | \$50,000 | \$1,025,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$0 | \$70,000 | \$160,000 | \$40,000 | \$20,000 | \$20,000 | \$20,000 | \$20,000 | \$20,000 | \$20,000 | \$20,000 | \$410,000 |
| Fairfax | \$0 | \$105,000 | \$240,000 | \$60,000 | \$30,000 | \$30,000 | \$30,000 | \$30,000 | \$30,000 | \$30,000 | \$30,000 | \$615,000 |
| Project Description and Justification | | | | | | | | | | | | |
| <p>Purpose: To perform/support research related to regulatory drivers such as emerging contaminants.</p> <p>Background: As new contaminants of concern are discovered, regulations often evolve to address them. Research is needed identify and to stay on top of regulatory drivers as well as to develop/test ways to respond to them.</p> <p>Project Components: TBD. May include: Organizational Readiness Assessment, Laboratory Feasibility Analysis, Process/Engineering Analysis, UV Disinfection Testing, EPA/State Regulations, Treatment Technology Review, and/or Human Capital Analysis.</p> <p>Procurement Method: TBD</p> | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Improve organizational readiness to meet changing regulations. | | | | | | Operational Excellence | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> Define research objectives | | | | | | <ul style="list-style-type: none"> Improved ability to meet evolving regulations | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> TBD | | | | | | <ul style="list-style-type: none"> New Project | | | | | | |

| Resiliency Initiatives | | | | | | | | | | | | |
|--|--------------|-----------|------------------|-----------|-----------|---|----------|-----------|-----------------------|---------|---------|--------------------|
| Managing Department | | | Project Location | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Strategy and Policy | | | WRRF | | | WRRF Improvements <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | 20 years | | | \$2,247,000 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | Undetermined |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$0 | \$243,000 | \$489,000 | \$150,000 | \$445,000 | \$325,000 | \$95,000 | \$500,000 | \$0 | \$0 | \$0 | \$2,247,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$0 | \$97,200 | \$195,600 | \$60,000 | \$178,000 | \$130,000 | \$38,000 | \$200,000 | \$0 | \$0 | \$0 | \$898,800 |
| Fairfax | \$0 | \$145,800 | \$293,400 | \$90,000 | \$267,000 | \$195,000 | \$57,000 | \$300,000 | \$0 | \$0 | \$0 | \$1,348,200 |
| Project Description and Justification | | | | | | | | | | | | |
| <p>Purpose: To reduce energy consumption and greenhouse gas emissions to meet sustainability goals</p> <p>Background: AlexRenew is working to reduce energy usage by 25% by 2025 and reduce greenhouse gas emissions by 50% by 2050 over the 2005 baseline period. To successfully achieve these goals, AlexRenew will focus on projects to increase energy efficiency, generate renewable energy, reduce emissions from operations, and bolster administrative processes supporting these projects.</p> <p>Project Components: TBD</p> <p>Procurement Method: TBD</p> | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Progress renewable energy use and GHG reduction goals Increases resilience, reliability, and operability of AlexRenew facilities | | | | | | Watershed Stewardship | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> All-hazards vulnerability assessment | | | | | | <ul style="list-style-type: none"> Supports AlexRenew's sustainability initiatives and commitment to environmental stewardship | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> City of Alexandria Environmental Action Plan 2040 DOE Better Plants Challenge DOE Better Buildings Challenge AlexRenew Building Energy Analysis (CH2M, 2016) | | | | | | <ul style="list-style-type: none"> None. | | | | | | |

| Stormwater System Upgrades | | | | | | | | | | | | |
|---|--------------|---------|------------------|-----------|-----------|--|---------|---------|-----------------------|---------|---------|--------------------|
| Managing Department | | | Project Location | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Engineering | | | WRRF | | | WRRF Improvements <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | 40 years | | | \$850,000 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | Undetermined |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$0 | \$0 | \$50,000 | \$400,000 | \$400,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$850,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$0 | \$0 | \$20,000 | \$160,000 | \$160,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$340,000 |
| Fairfax | \$0 | \$0 | \$30,000 | \$240,000 | \$240,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$510,000 |
| Project Description and Justification | | | | | | | | | | | | |
| <p>Purpose: To implement stormwater best management practices (BMPs) in accordance with water quality and quantity needs.</p> <p>Background: The AlexRenew WRRF storm sewer system is subdivided into seven drainage areas that discharge directly to Hooffs Run, to the Virginia Department of Transportation (VDOT) sewer system, and to the City of Alexandria Municipal Separate Storm Sewer System (MS4). Given the expectations of more frequent and severe precipitation events, AlexRenew will continue to invest in sound stormwater management on its sites. This project involves an updated study and design to accommodate infrastructure changes since the original study of 2016 and the cost of construction and maintenance of stormwater BMPs.</p> <p>Project Components: TBD. May include and assessment study, design and construction of stormwater BMP's, and regular maintenance/cleaning</p> <p>Procurement Method: TBD</p> | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> Alternative treatment facilities to support AlexRenew's sustainability initiatives and commitment to environmental stewardship | | | | | | Watershed Stewardship | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> None. | | | | | | <ul style="list-style-type: none"> Potential to increase O&M costs to annual cost of approximately 5% of construction costs Results in reduction of pollutant loading of permitted stormwater conveyed | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> Stormwater Improvement Analysis Report for Alexandria Renew Enterprises (URS Corp, 2016) | | | | | | <ul style="list-style-type: none"> Budget modifications | | | | | | |

| RiverRenew Tunnel Project - Alex Only | | | | | | | | | | | | |
|--|---------------|--------------|--|-----------|---------|---|---------|---------|-----------------------|---------|---------|--------------------|
| Managing Department | | | Project Location | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
| Communications and External Programs | | | AlexRenew and Multiple Locations in Alexandria | | | RiverRenew <input checked="" type="radio"/> Alex Only <input type="radio"/> Joint Use | | | 100 years | | | \$235,190,000 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | Yes |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$143,120,000 | \$69,740,000 | \$21,920,000 | \$410,000 | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$92,070,000 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$143,120,000 | \$69,740,000 | \$21,920,000 | \$410,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$92,070,000 |
| Fairfax | - | - | - | - | - | - | - | - | - | - | - | - |
| Project Description and Justification | | | | | | | | | | | | |
| <p>Purpose: To bring Alexandria's four existing combined sewer outfalls into compliance by July 1, 2025.</p> <p>Background: In response to a 2017 Virginia law requiring Alexandria's four existing combined sewer outfalls be brought into compliance by July 1, 2025, AlexRenew is constructing the RiverRenew Tunnel Project. The project will capture and convey combined sewage to AlexRenew for treatment.</p> <p>Project Components: The RiverRenew Tunnel Project includes:</p> <ul style="list-style-type: none"> • Waterfront Tunnel: 2-mile long, 12'-0" diameter segmentally lined tunnel. • Hooffs Run Interceptor: 2,700-foot long, 6'-0" open-cut sewer. • Four diversion chambers to direct combined sewer flows to the Waterfront Tunnel and Hooffs Run Interceptor. • Four shafts ranging from 35-feet to 65-feet in diameter. • Tunnel Dewatering and Wet Weather Pumping Station: 20-mgd tunnel dewatering and 180-mgd wet weather pumping station, including <p>Procurement Method: Fixed-price design-build</p> | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> • Significant reduction of CSOs to local waterways • Site restoration includes community amenities in two locations | | | | | | Watershed Stewardship | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> • Continue waterfront tunnel mining. • Installation of the Hoofs Run Interceptor. | | | | | | <ul style="list-style-type: none"> • Coordination with O&M and the community during construction. • O&M will operate and maintain pumping station once system is operational. | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> • Long Term Control Plan Update, Approved 2018 | | | | | | <ul style="list-style-type: none"> • Budget modifications. | | | | | | |

RiverRenew Tunnel Project - Joint

| Managing Department | | Project Location | | | | Program and Project Category | | | Estimated Useful Life | | | Lifetime Budget |
|--|---------------|--|--------------|--------------|-------------|---|---------|---------|-----------------------|---------|---------|--------------------|
| Communications and External Programs | | AlexRenew and Multiple Locations in Alexandria | | | | RiverRenew <input type="radio"/> Alex Only <input checked="" type="radio"/> Joint Use | | | 100 years | | | \$383,632,455 |
| | | | | | | | | | | | | Grant/Debt Funded? |
| | | | | | | | | | | | | Yes |
| Expenditure | Prior Years* | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 | FY 2033 | 10 Yr. Total |
| Total | \$214,728,958 | \$92,540,094 | \$64,083,403 | \$10,330,000 | \$1,950,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$168,903,497 |
| Financing | | | | | | | | | | | | |
| AlexRenew | \$193,141,438 | \$78,333,477 | \$54,095,127 | \$8,414,568 | \$780,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$141,623,172 |
| Fairfax | \$21,587,520 | \$14,206,617 | \$9,988,276 | \$1,915,428 | \$1,170,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$27,280,321 |
| Project Description and Justification | | | | | | | | | | | | |
| <p>Purpose: To bring Alexandria's four existing combined sewer outfalls into compliance by July 1, 2025.</p> <p>Background: In response to a 2017 Virginia law requiring Alexandria's four existing combined sewer outfalls be brought into compliance by July 1, 2025, AlexRenew is constructing the RiverRenew Tunnel Project. The project will capture and convey combined sewage to AlexRenew for treatment.</p> <p>Project Components: The RiverRenew Tunnel Project includes:</p> <ul style="list-style-type: none"> • Waterfront Tunnel: 2-mile long, 12'-0" diameter segmentally lined tunnel. • Hooffs Run Interceptor: 2,700-foot long, 6'-0" open-cut sewer. • Four diversion chambers to direct combined sewer flows to the Waterfront Tunnel and Hooffs Run Interceptor. • Four shafts ranging from 35-feet to 65-feet in diameter. • Tunnel Dewatering and Wet Weather Pumping Station: 20-mgd tunnel dewatering and 180-mgd wet weather pumping station, including <p>Procurement Method: Fixed-price design-build</p> | | | | | | | | | | | | |
| Benefits | | | | | | Strategic Outcome Area | | | | | | |
| <ul style="list-style-type: none"> • Significant reduction of CSOs to local waterways • Site restoration includes community amenities in two locations | | | | | | Watershed Stewardship | | | | | | |
| Key Milestones for FY 2024 | | | | | | Impact on Operations or Community | | | | | | |
| <ul style="list-style-type: none"> • Continue waterfront tunnel mining. • Installation of the Hoofs Run Interceptor. | | | | | | <ul style="list-style-type: none"> • Coordination with O&M and the community during construction. • O&M will operate and maintain pumping station once system is operational. | | | | | | |
| External or Internal Adopted Plan or Recommendation | | | | | | Changes from Prior Year CIP | | | | | | |
| <ul style="list-style-type: none"> • Long Term Control Plan Update, Approved 2018 | | | | | | <ul style="list-style-type: none"> • Budget modifications. | | | | | | |

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Section 15 Indenture and Financial Policy Compliance

The schedule below demonstrates AlexRenew’s financial profile according to the budget projections, as measured by its two major financial metrics – cash reserves and debt service coverage.

As it relates to liquidity, AlexRenew’s Indenture requires it to maintain at least 60 days cash on hand in the Operating Fund and an additional 60 days cash on hand in the General Reserve sub-fund, for a total cash reserve requirement of at least 120 days of operating expenses. As it relates to debt service coverage, AlexRenew’s Indenture requires that net revenues cover annual debt service payments by 1.1x while the Financial Policies require a more stringent 1.5x. In both cases, the adopted FY2024 budget forecasts compliance with these policies and indicate a healthy financial profile.

Table 15.1. Summary of Compliance with the Master Indenture of Trust and Financial Policy

| Indenture and Financial Policy Compliance | Adopted FY2023 | Proposed FY2024 | Estimated FY2025 | Estimated FY2026 | Estimated FY2027 | Estimated FY2028 |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Cash Reserve Requirement | | | | | | |
| Operating Fund | | | | | | |
| 60 Days Current Year Budgeted Expenses | 5,004,327 | 5,428,536 | 6,057,341 | 6,239,061 | 6,363,843 | 6,491,120 |
| Projected Ending Balance | 5,004,327 | 5,880,913 | 6,783,497 | 7,712,859 | 8,660,609 | 9,627,114 |
| Excess (Deficiency) | - | 452,377 | 726,156 | 1,473,798 | 2,296,767 | 3,135,994 |
| General Reserve sub-Fund | | | | | | |
| 60 Days Current Year Budgeted Expenses | 5,004,327 | 5,428,536 | 6,057,341 | 6,239,061 | 6,363,843 | 6,491,120 |
| Projected Ending Balance | 5,004,327 | 5,428,536 | 6,057,341 | 6,239,061 | 6,363,843 | 6,491,120 |
| Excess (Deficiency) | - | - | - | - | - | - |
| Total Cash Reserve Requirement - 120 Days | 10,008,655 | 10,857,073 | 12,114,683 | 12,478,124 | 12,727,686 | 12,982,240 |
| Debt Service Coverage (DSC) Requirement | | | | | | |
| Wastewater Treatment Charges | \$ 50,922,485 | \$ 53,672,299 | \$ 56,420,321 | \$ 59,224,411 | \$ 62,138,252 | \$ 64,779,128 |
| Fairfax County Operating Expense Charge | 11,694,706 | 12,796,021 | 13,180,088 | 13,575,680 | 13,825,488 | 14,079,640 |
| Interest Income | 115,000 | 115,000 | 115,000 | 115,000 | 115,000 | 115,000 |
| Gross Revenue Available for Debt Service | \$ 62,732,191 | \$ 66,583,320 | \$ 69,715,409 | \$ 72,915,091 | \$ 76,078,740 | \$ 78,973,768 |
| Operating Expenses | \$ (30,442,988) | \$ (33,023,593) | \$ (34,014,301) | \$ (35,034,730) | \$ (35,735,424) | \$ (36,450,133) |
| Net Revenues Available for Debt Service | \$ 31,789,203 | \$ 33,059,727 | \$ 35,201,108 | \$ 37,380,361 | \$ 39,843,315 | \$ 42,023,635 |
| Total Annual Debt Service | \$ 14,739,509 | \$ 16,448,494 | \$ 19,126,687 | \$ 21,347,774 | \$ 21,815,453 | \$ 22,223,401 |
| All-in Debt Service Coverage | <u>2.16x</u> | <u>2.02x</u> | <u>1.85x</u> | <u>1.76x</u> | <u>1.83x</u> | <u>1.90x</u> |
| Financial Policy Target | 1.50x | 1.50x | 1.50x | 1.50x | 1.50x | 1.50x |
| Indenture Target | 1.10x | 1.10x | 1.10x | 1.10x | 1.10x | 1.10x |

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Appendix A – Financial Policies

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Alexandria Sanitation Authority

Financial Policies

Adopted August 17, 2010

Affirmed April 19, 2022

The Alexandria Sanitation Authority (ASA or Authority) is a special purpose governmental unit created by the City Council of Alexandria, Virginia (City Council) in 1952 for the purpose of constructing, operating and maintaining a wastewater treatment system (System) for the City of Alexandria, Virginia (City). ASA is governed and administered by a Board of Directors (Board) with five members who serve staggered terms and are appointed by the City Council. The General Manager oversees ASA’s operations and plans for the construction, maintenance, repair and financing of the System. ASA operates as an enterprise fund, has no taxing power and receives no financial assistance from the City.

ASA recognizes that one of the keys to sound financial management is the development of a formal financial policy. This view is confirmed by bond rating agencies, investors and the Government Finance Officers Association. Establishing formal financial policies is also a common practice among comparable water and wastewater authorities throughout the Commonwealth and the United States.

The financial policy is designed to help protect ASA’s financial resources by:

1. Promoting sound financial management;
2. Guiding ASA and its managers in policy and debt issuance decisions;
3. Establishing appropriate levels of operating cash reserves;
4. Developing a system to efficiently finance necessary capital improvements;
5. Ensuring the legal and prudent use of ASA’s debt issuance authority;
6. Providing a framework for ASA to achieve a strong credit rating, and
7. Maintaining reasonable and well justified levels of rates and fees in accordance with the financial policy.

In general, these financial policies are more restrictive and require higher standards than the legal requirements contained in the Master Indenture of Trust (Bond Indenture), which is the agreement between ASA and debt holders. These financial policies will be reviewed periodically and updated as appropriate.

The following are the financial policies that will guide ASA’s financial management, capital planning and debt financing.

1. Debt Service Coverage

- a. For FY2011 through and including FY2013, ASA will adopt budgets that it projects will enable ASA to maintain annual debt service coverage (Coverage) of 1.40 times Net Revenues, as defined in the Bond Indenture, on all senior and parity debt. Beginning in FY2014 and thereafter, ASA will maintain Coverage of at least 1.50 times on all senior and parity debt.

2. Reserves

- a. An important metric of ASA’s financial flexibility is its liquidity as measured by available cash and reserves. These reserve policies identify amounts available for known risks and obligations and set minimum funding goals that may be used in emergency or other unexpected situations as they arise. The reserves represent an earmarking for budgetary and financial policy purposes. These reserves are in addition to existing legal reserves required by the Master Indenture of Trust (Bond Indenture) and any funds earmarked for capital improvements.
- b. ASA will maintain a balance equal to at least 120 days of the current years budgeted amount for operating and maintenance expenses. As required by the Bond Indenture, one sixth of the current year’s budgeted amount for operating expenses (60 days) will be held in the Operating Fund. The remainder of the reserves will be held in the General Reserve Fund, a subfund of the General Fund. In the event the General Reserve Fund is used to provide funding for unanticipated expenses or otherwise drops below the policy level, the

- General Manager will submit a plan in writing to the Board that will restore the General Reserve Fund to the policy level over a period not to exceed four years.
- c. All other funds will be funded as required by the Bond Indenture, with a summary as follows:
 - i. Senior Debt Service Fund: An amount that will cause the balance on deposit to be sufficient to pay the principal and interest on the respective payment dates.
 - ii. Improvement, Renewal and Replacement Fund (IRR): An amount equal to the Alexandria portion (40%) of the annual calculation of the required contribution to the IRR Fund.
 - iii. General Fund: Any remaining amounts after the required deposits.
 - iv. Debt Service Reserve Fund: For senior debt, an amount equal to the Debt Service Reserve Fund Requirement as defined in the Bond Indenture. There is no Debt Service Reserve Fund Requirement for ASA's parity debt.
 - d. When necessary and prudent, ASA may create additional accounts within the General Fund for specific purposes. These accounts could include accounts for capital projects, risk management and revenue stabilization, among others.

3. Budgetary Principles

- a. Annual Operating Budget Proposals
 - i. Per Section 9.3 of the Bond Indenture, ASA is required to adopt a budget for the System for the ensuing fiscal year before the beginning of each fiscal year. The annual budget is required to be prepared in such a manner as to show in reasonable detail the estimated revenues, operating expenses, IRR amounts, debt service amounts, other costs and expenses and the amount of Net Revenues available to meet the Revenue Covenant per the Bond Indenture.
 - ii. In conjunction with the budget requirements in the Bond Indenture, the Board will strive to adopt an operating budget that:
 1. Is structurally balanced whereby current budgetary revenues are sufficient to meet current budgetary expenses (those that are ongoing in nature);
 2. Has fees and user charges at levels intended to support the direct and indirect cost of the activity;
 3. Sets fees and user charges with the intent to provide the lowest reasonable fees and user charges over time, not necessarily the lowest fees and user charges right now.
 4. Is at a level necessary to ensure the adequate maintenance and operations of the wastewater system;
 5. Includes amounts necessary to maintain the required reserve balances as defined in these policies;
 6. Enables ASA to meet the debt service coverage policy defined herein; and
 7. Funds at least 15 percent of its capital improvement program in cash.
 - iii. Capital Improvement Program (CIP)
 1. Each year ASA will adopt a ten-year CIP that identifies projects to be undertaken over next ten years to meet projected needs for infrastructure renewal, expansion, and replacing old or new facilities.
 2. The term of any debt financing will not exceed the aggregate useful lives of the related projects.
 3. The CIP will identify anticipated capital improvement costs and associated operating costs.
- b. Long-Range Financial Forecast
 - i. Beginning with the planning for the FY2012 budget and in each fiscal year thereafter, the General Manager will submit to the Board at least a three year financial forecast of anticipated revenues and expenses.

4. Debt Management

- a. ASA may issue long-term debt per the guidelines in this financial policy. Long-term borrowing will not be used to finance current operations. Long-term debt will be structured such that the term of financial obligations will not exceed the aggregate expected useful

- lives of the assets financed.
- b. Short-term borrowing may be utilized for the temporary funding of operational cash flow deficits or interim construction requirements.
 - c. Permitted Debt by Type: ASA may issue the debt instruments described below. The most appropriate instrument for a proposed sale of debt shall be determined by financing needs and expected market conditions at the time of sale.
 - ii. Lease Financing – ASA may use lease financing for equipment if (i) it can be demonstrated that this is the most cost effective or appropriate way to secure financing, or (ii) on projects that do not warrant entry into the bond market.
 - iii. Bond Anticipation Notes (BANs) - which include Commercial Paper, are typically an interim means of financing and, by their very nature, expose ASA to interest rate risk upon renewal. BANS may be used to (i) to finance projects until such time as the project or projects can be incorporated into a long-term bond sale, (ii) during times of high interest rates and when the expectation is that interest rates will stabilize in the future or trending downward, (iii) when market conditions are such that a BAN may be more readily received in the market than long-term debt, or (iv) on an interim basis during the construction period for a project until such time as the project is placed into service.
 - iv. Long-Term Revenue Bonds - ASA may issue long-term revenue bonds to fund capital projects. These bonds may be issued by ASA in a number of ways, including, but not limited to, those listed below. ASA will evaluate multiple methods for issuing long-term revenue bonds and use the method that is most advantageous to ASA.
 1. ASA may issue the bonds through a public sale under its own name in the capital markets.
 2. ASA may issue the bonds through a private placement under its own name.
 3. ASA may issue the bonds to the Virginia Resources Authority (VRA) under one of VRA's loan programs.
 - v. Revenue Anticipation Notes (RANs) - may be issued to meet ASA's operational cash flow needs.
 - vi. Lines of Credit - may be considered as an alternative to other short-term borrowing options.
 - d. Guidelines on Debt Issuance
 - i. Bond Indenture – ASA will abide by the covenants contained in the Bond Indenture. ASA considers these covenants to be minimum requirements, and generally expects to exceed the requirements of each covenant.
 - ii. Authorization – Prior to the issuance of debt, the Board will pass a resolution authorizing the financing arrangements and setting appropriate limits and parameters for the anticipated financing in accordance with applicable laws.
 - iii. Lowest Cost Financing – ASA intends to pursue the lowest cost of financing within the parameters of these financial policies, the Bond Indenture and ASA's enabling legislation.
 - iv. Method of Issuance – Prior to each debt issuance, ASA will evaluate the available methods of issuance and pursue the method of issuance that is most advantageous to ASA, whether a stand-alone issue by ASA or use of a third party financing approach such as Revolving Fund Loans or pooled borrowing programs available through the Virginia Resources Authority (VRA). Some considerations for evaluating the method of issuance, particularly when determining whether to issue debt through VRA or under ASA's name, include:
 1. Financing Cost. This analysis should evaluate the overall cost of the financing, including borrowing rates, upfront fees (such as the cost of obtaining a credit rating), whether a Debt Service Reserve Fund is required, ongoing costs and any other costs of the financing.
 2. Permitted Uses of Funds. Some project costs are not eligible to be funded through certain financing programs. For example, land purchase costs are not eligible to be funded through the Department of Environmental Quality's Revolving Loan Fund program that ASA has used in the past.

3. Structural Flexibility. When selecting a financing program, ASA will consider the flexibility of debt features available under each program. For example, ASA will consider how flexible repayment features, call provisions, and borrowing terms are under each program.
- v. Project Costs Prior to Debt Issue – If project costs are incurred prior to the issuance of debt, the Board will pass a resolution documenting its intent to be reimbursed from bond proceeds as appropriate.
- vi. Variable Rate Debt (VRD) – VRD carries inherent interest rate risk. Such securities historically have interest rates lower than long-term fixed rate securities and offer the potential for lower debt service costs over the term of the bond issue. ASA will consider using VRD when it: (i) Improves matching of assets and liabilities, (ii) potentially lowers debt service costs, (iii) adds flexibility to ASA’s capital structure, or (iv) diversifies ASA’s investor base.
 1. Debt service on VRD will be budgeted at a conservative rate based on historical fluctuations in interest activity and current market assumptions. Before issuing VRD, ASA will determine how potential spikes in the debt service will be funded and consider the impact of various interest rate scenarios on its financial position and on various debt ratios.
 2. ASA will not issue VRD in excess of 20 percent of its total debt portfolio. This limitation does not apply to other VRD which ASA has endeavored to offset with an operating investment portfolio intended to act as an economic hedge to interest rate fluctuations associated with the VRD. This limitation also excludes any VRD that may be hedged through an appropriate derivative agreement, if such technique is approved by the ASA Board.
- e. Method of Sale
 - i. ASA will select a method of sale (competitive, negotiated, or private placement) it believes is the most appropriate in light of financial, market, transaction-specific and ASA-related conditions.
- f. Term of Debt
 - i. ASA will not issue debt with a term or final maturity longer than the aggregate useful lives of the projects being financed. ASA does not expect to issue debt with a final maturity more than 40 years from the date of issuance. Factors to be considered when determining the final maturity of debt include: the average life of the assets being financed, relative level of interest rates, and the year-to-year differential in interest rates.
- g. Debt Structure
 - i. Interest Rate Structure – ASA may use both variable and fixed rate debt in accordance with limitations set forth in this policy.
 - ii. Maturity Structure – ASA’s long-term debt may include serial and term bonds. Other maturity structures may also be considered when demonstrated to be advantageous to ASA.
 - iii. Coupon Structure – Fixed rate debt may include par, discount, premium and capital appreciation bonds.
 - iv. Redemption Features – In order to preserve flexibility and refinancing opportunities, ASA debt shall generally be issued with call provisions. ASA may consider call provisions that are shorter than traditional and/or non-callable debt when warranted by market conditions and opportunities. For each transaction, various call option scenarios will be evaluated so that the most beneficial can be utilized.
 - v. Credit Enhancement – ASA may use bond insurance and/or line and letters of credit for credit enhancement when it is economically advantageous to do so.
 - vi. Debt Service Reserve Fund – ASA will fund a Debt Service Reserve Fund (DSRF) if required by the Bond Indenture.
 - vii. Capitalized Interest – By definition, capitalization of interest increases the amount of debt that is issued. ASA will capitalize interest for a period not longer than 12 months after the project being financed is expected to be placed in service.
 - viii. Refinancing of Debt – ASA will refinance debt from time to time to achieve debt

service savings as market opportunities arise. Since federal regulations limit a tax-exempt issue to one advance refunding (a refinancing more than 90 days prior to a bond's call date), ASA will ensure that the advance refunding results in a significant present value savings. A proposed refinancing must achieve a minimum cumulative, net present value savings of 3 percent of the amount refinanced. An exception to this minimum refinancing savings policy will be if the refinancing is being done for debt restructuring purposes and the Board determines that it is in the best interests of ASA to complete the refinancing without achieving the refinancing savings policy. In addition, ASA will consider the efficiency of a proposed refinancing transaction. The efficiency evaluation will consider the value realized by ASA when exercising its option to redeem its bonds early calculated under a variety of different interest rate environments, versus the savings garnered. In general, ASA will consider refinancing bonds when the aggregate efficiency is equal to or greater than 70 percent.

- ix. In any refinancing transaction, ASA maintains a bias to not extend maturities.
- h. Escrow Structuring
 - i. ASA will utilize the least costly securities available in structuring refinancing escrows. Unless state and local government securities (SLGS) are used, a certificate will be provided by a third party agent stating that the securities were procured through an arms-length, competitive bid process (in the case of open market securities), and that the price paid for the securities was reasonable within federal guidelines.
 - ii. Under no circumstances will an underwriter, agent or financial advisor or ASA affiliates or affiliated accounts of an underwriter or financial advisor to ASA sell escrow securities to ASA from its own account.
- i. Hiring of Professionals – All members of the financial advisory team including underwriter, financial advisor, bond counsel, and other professionals will be selected in a manner consistent with ASA's procurement policy for professional services.
 - i. Underwriter Selection
 - 1. Senior Manager Selection – ASA will select a senior manager for any proposed negotiated sale. The selection criteria will include but not be limited to the following:
 - a. The firm's ability and experience in managing transactions similar to that contemplated by ASA.
 - b. Prior knowledge and experience with ASA.
 - c. The firm's ability and willingness to risk capital and demonstration of the firm's capital availability and underwriting of unsold balances.
 - d. Quality and experience of personnel assigned to ASA's engagement.
 - e. Financing plan presented.
 - f. Cost including underwriting fees and anticipated pricing.
 - 2. Co-Manager Selection – Co-manager may be selected on the same bases as the senior manager with the exception of underwriting fees, which are determined by the senior manager. In addition to their qualifications, co-managers appointed to specific transactions will be a function of transaction size and the necessity to ensure maximum distribution of ASA's bonds.
 - 3. Underwriter's Counsel – In any negotiated sale of ASA debt in which legal counsel is required to represent the underwriter, the appointment will be made by the Senior Manager with final approval from ASA.
 - 4. Underwriter's Discount – ASA will evaluate the proposed underwriter's discount against comparable issues in the market. If there are multiple underwriters in the transaction, ASA will determine the allocation of underwriting liability and management fees. The allocation of fees will be determined prior to the sale date. A cap on management fees, expenses and underwriter's counsel fee will be established and communicated to all parties by ASA. The senior manager shall submit an itemized list of expenses.
 - 5. Evaluation of Underwriter Performance – ASA will evaluate each bond sale after completion to assess the following: costs of issuance including underwriters' compensation, pricing of the bonds in terms of the overall interest cost and on

- a maturity-by-maturity basis, and the distribution of bonds.
- 6. Syndicate Policies – For each negotiated transaction, ASA will establish syndicate policies that will describe the priority of orders and designation policies governing the upcoming sale.
ASA shall require the senior manager to:
 - a. Fairly allocate bonds to other managers and selling group.
 - b. Comply with the Municipal Securities Rulemaking Board’s (MSRB) regulations governing the priority of orders and allocations.
 - c. Within 10 working days after the sale date, submit to ASA a detail of orders, allocations and other relevant information pertaining to ASA’s sale.
- ii. Consultants
 - 1. Financial Advisor – ASA will select a financial advisor to assist in its debt issuance and debt administration processes. Selection of the ASA’s financial advisor will be based on, but not limited to, the following criteria:
 - a. Experience in providing consulting services to entities
 - b. similar to ASA.
 - c. Knowledge and experience in structuring and
 - d. analyzing bond issues.
 - e. Experience and reputation of assigned personnel.
 - f. Fees and expenses.
 - 2. Bond Counsel – ASA will include a written opinion by legal counsel affirming that ASA is authorized to issue the proposed debt, that ASA has met all legal requirements necessary for issuance, and a determination of the proposed debt’s federal income tax status. The approving opinion and other documents relating to the issuance of debt will be prepared by counsel with extensive experience in public finance and tax issues. The Bond Counsel will be selected by ASA.
 - 3. Conflicts of Interest – ASA requires that its consultants and advisors provide objective advice and analysis, maintain the confidentiality of ASA financial plans, and be free from any conflict of interest that has not been fully disclosed to, and waived by, ASA. In no case will ASA’s financial advisor be permitted to underwrite any portion of ASA’s bond issues, whether sold competitively or negotiated.
 - 4. Disclosure by Financing Team Members – All financing team members will be required to provide full and complete disclosure, relative to agreements with other financing team members and outside parties. The extent of disclosure may vary depending on the nature of the transaction. However, in general terms, no agreements will be permitted which could compromise the firm’s ability to provide independent advice which is solely in ASA’s best interests or which could reasonably be perceived as a conflict of interest.
- j. Communication and Disclosure
 - i. Continuing Disclosure – ASA recognizes that accurate and complete disclosure is imperative. ASA will comply with all state and federal disclosure obligations and will meet its disclosure requirements in a timely and thorough manner.
- k. Arbitrage Compliance
 - i. ASA will maintain a system of record keeping and reporting in order to comply with the Arbitrage Rebate Compliance Requirements of the Internal Revenue Code of 1986, as amended.

5. Derivatives

- a. Derivatives such as interest rate swaps and options are financial tools that can help ASA meet important financial objectives, however they introduce multiple risks which must be understood and managed. Properly used, these instruments may increase ASA’s financial flexibility, provide opportunities for interest rate savings or enhanced investment yields, and help ASA manage its balance sheet through matching of assets and liabilities.
- b. ASA will not enter into any financial derivative or swap until the following have occurred:

- i. The Board has adopted a comprehensive derivatives/swaps policy outlining the following related to the use of derivatives/swaps:
 1. Approach and Objectives
 - a. Specific objectives for utilizing swaps
 - b. Prohibited swap features
 2. Legal Authority
 3. Permitted Instruments
 4. Procedure for Submission and Execution
 5. Swap Analysis and Participant Requirements
 - a. Swap risks
 - b. Counterparty risk assessment
 - c. Benefit expectation
 6. Legal and Contractual Requirements
 - a. Legal terms of swaps
 - b. Notional amount
 - c. Final maturity
 - d. Termination provisions
 - e. Collateral
 7. Ongoing Management
 8. Ongoing Reporting Requirements
 9. Acceptable Collateral
- ii. The Board has approved the execution of the specific financial derivative or swap transaction.

Definitions

Bond Anticipation Note (BANs): Notes which are paid from the proceeds of the issuance of long-term bonds. Typically issued for capital projects.

Call Provisions: The terms of the bond giving the issuer the right to redeem all or a portion of a bond prior to its stated date of maturity at a specific price, usually at or above par.

Capital Improvement Program (CIP): Plan for major non-recurring facility, infrastructure, or acquisition expenditures that expand or improve the system and/or community assets. Projects included in the CIP include physical descriptions, implementation schedules, year of expenditure cost and funding source estimates, and an indication of priorities and community benefits.

Capitalized Interest: A portion of the proceeds of a bond issue which is set aside to pay interest on the same bond issue for a specific period of time. Interest is commonly capitalized for the construction period of the project.

Commercial Paper: Short-term, unsecured promissory notes issued by corporations to finance receivables for a maturity specified by the purchaser that ranges from three days to 270 days. Notes are generally sold at a discount, and carry credit ratings issued by an NRSRO.

Competitive Sale: A sale/auction of securities by an issuer in which underwriters or syndicates of underwriters submit sealed bids to purchase the securities. Contrast to a negotiated sale.

Continuing Disclosure: The principle that accurate and complete information material to the transaction which potential investors would be likely to consider material in making investment decisions with respect to the securities be made available on an ongoing basis.

Credit Enhancement: Credit support purchased by the issuer to raise the credit rating of a debt issue. The most common credit enhancements consist of bond insurance, direct or standby letters of credit, and lines of credit.

Debt Service Reserve Fund: The fund in which moneys are placed which may be used to pay debt service if pledged revenues are insufficient to satisfy the debt service requirements.

Derivatives: A financial product whose value is derived from some underlying asset value.

Designation Policies: Outline how an investor's order is filled when a maturity is oversubscribed when there is an underwriting syndicate. The senior managing underwriter and issuer decide how the bonds will be allocated among the syndicate. There are three primary classifications of orders which form the designation policy: Group Net Orders; Net Designated orders and Member orders.

Escrow: A fund established to hold moneys pledged and to be used to pay debt service on an outstanding issue.

Expenses: Compensates senior managers for out-of-pocket expenses including: underwriters counsel; DTC charges, travel, syndicate expenses, dealer fees, overtime expenses, communication expenses, computer time and postage.

Letters of Credit: A bank credit facility wherein the bank agrees to lend a specified amount of funds for a limited term.

LIBOR: The London InterBank Offered Rate is the rate on U.S. dollar denominated deposits with maturities from 1 day to 12 months transacted between banks in London. LIBOR is the benchmark swap floating index in the taxable or corporate swap market.

Liquidity: The ability of ease with which an asset can be converted into cash without a substantial loss of value.

Management Fee: The fixed percentage of the gross spread which is paid to the managing underwriter for the structuring phase of a transaction.

Maturity: The date upon which the principal or stated value of an investment becomes due and payable.

Members: Underwriters in a syndicate other than the senior underwriter. Nationally Recognized Statistical Rating Organization (NRSRO): A credit rating agency which issues credit ratings that the U.S. Securities and Exchange Commission (the "SEC") permits other financial firms to use for certain regulatory purposes. Examples include Moody's Investor Service, Standard & Poor's and Fitch Ratings.

Negotiated Sale: A method of sale in which the issuer chooses an underwriter to negotiate terms pursuant to which such underwriter will purchase and market the bonds.

Original Issue Discount: The amount by which the original par amount of an issue exceeds its public offering price at the time it is originally offered to an investor.

Portfolio: Collection of securities held by an investor.

Present Value: The current value of a future cash flow.

Private Placement: The original placement of an issue with one or more investors versus being publicly offered or sold.

Revenue Bonds: Bonds secured by a specific revenue pledge of rates, rents or fees. Securities and Exchange Commission ("SEC"): Agency created by Congress to protect investors in securities transactions by administering securities legislation.

Selling Groups: The group of securities dealers who participate in an offering not as underwriters but rather who receive securities less the selling concession from the managing underwriter for distribution at the public offering price.

SIFMA: The Securities Industry and Financial Markets Association is a high grade market index of 7-day variable rate demand notes that is produced by Municipal Market Data. SIFMA is the benchmark swap floating index in the tax-exempt swap market.

Syndicate Policies: The contractual obligations placed on the underwriting group relating to distribution, price limitations and market transactions.

Underwriter: A dealer that purchases new issues of municipal securities from the Issuer and resells them to investors.

Underwriter's Discount: The difference between the price at which bonds are bought by the Underwriter from the Issuer and the price at which they are offered to investors, representing the compensation earned by the Underwriter for placing the bonds with investors.

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NOTICE OF PUBLIC HEARING

NOTICE OF PUBLIC HEARING is hereby given that Alexandria Renew Enterprises (AlexRenew) will hold a PUBLIC HEARING on its PROPOSED OPERATING AND CAPITAL BUDGET for the FISCAL YEAR ENDING JUNE 30, 2024, on Saturday, May 20, 2023 at 9:00 a.m. The meeting will be held at AlexRenew's Environmental Center Building located at 1800 Limerick Street, Alexandria, VA. The proposed FY2024 budget is available for examination by the public online at www.alexrenew.com. Copies will be made available upon request – phone (703) 721-3500 ext. 2260. April 27 and May 4.

Alexandria Renew Enterprises
BY: William Dickinson
Secretary – Treasurer

RESOLUTION OF INTENT TO ADOPT AND CHANGE CERTAIN RATES, FEES, AND CHARGES

BE IT RESOLVED, that the City of Alexandria, Virginia Sanitation Authority d/b/a Alexandria Renew Enterprises, hereby signifies its intent to change certain rates, fees, and charges to become effective **July 1, 2023** and hereby sets the date of **Saturday, May 20, at 9:00 a.m.**, at Alexandria Renew Enterprises' administration office, 1800 Limerick Street, Alexandria, Virginia 22314 for a public hearing to receive comment regarding same.

BE IT FURTHER RESOLVED, that the Chief Executive Officer is hereby directed to have published in a newspaper having general circulation in the City of Alexandria, for two consecutive weeks, notice of the proposed change in the schedule of rates, fees and charges and the day and time of the public hearing.

The proposed rates, fees and charges are:

| Description | Meter Size | Current Effective July 1, 2022 | Proposed Effective July 1, 2023 | Proposed Effective July 1, 2024 |
|--|------------|-----------------------------------|------------------------------------|------------------------------------|
| Individually Metered Residential Service - Wastewater Treatment Charge | All Meters | \$9.26* | \$9.76* | \$10.26* |
| Commercial Service - Wastewater Treatment Charge | | | | |

*Per 1,000 gallons

| Description | Meter Size | Current Effective July 1, 2022 | Proposed Effective July 1, 2023 | Proposed Effective July 1, 2024 |
|-------------------------------------|------------|-----------------------------------|------------------------------------|------------------------------------|
| Residential Base Charge | All Meters | \$13.14 | \$13.85 | \$14.57 |
| Commercial Base Charge | 5/8" | \$39.42 | \$41.55 | \$43.68 |
| | 3/4" | \$39.42 | \$41.55 | \$43.68 |
| | 1" | \$98.55 | \$103.87 | \$109.19 |
| | 1-1/2" | \$197.10 | \$207.74 | \$218.38 |
| | 2" | \$315.36 | \$332.39 | \$349.41 |
| | 3" | \$591.30 | \$623.23 | \$655.14 |
| | 4" | \$985.50 | \$1,038.72 | \$1,091.90 |
| | 6" | \$1,971.00 | \$2,077.43 | \$2,183.80 |
| | 8" | \$3,153.60 | \$3,323.89 | \$3,494.08 |
| Minimum Deposit Based on Meter Size | - | \$0.00 | \$0.00 | \$0.00 |
| Residential Customer Activation Fee | - | \$15.00 | \$15.00 | \$15.00 |

The new rates and charges shall be effective on July 1, 2023, and shall remain in effect thereafter until further revised. Any rates, fees, or charges not revised herein shall remain in effect until further revised.

Legals

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Alexandria Renew Enterprises
 BY: William Dickinson
 Secretary – Treasurer

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