# Department of Environmental Services

FY 2021 PROPOSED BUDGET HIGHLIGHTS

General Fund

**County Board Work Session** 

March 5, 2020



## **Department of Environmental Services**





## **VISION**

Our service makes Arlington a leading community that is vibrant, accessible, and resilient, today and in the future.

vibrant, accessible and sustainable community through strategic transportation, environmental and capital investment projects, while providing excellent customer service, operations and maintenance in a safe and healthy environment for all.



**MISSION** To make Arlington County a **Department of Environmental Services General Fund** 

#### DEPARTMENT OF ENVIRONMENTAL SERVICES

# **HIGHLIGHTS**



- 76.5 lane miles paved
- 1,059 lane miles maintained
- 5,637 potholes filled
- 5.9 miles of protected bike lanes
- 11 new traffic signal installs & upgrades



## **SOLID WASTE**

- 1.5M pounds of glass collected at County drop-off centers
- 50% recycling rate
- 9,162 tons of curbside yard waste
- Yard Waste reduced from 26% to 1.3% of trash cart
- Drop-off food composting program



 Updated Community Energy Plan, with goal of becoming carbon neutral by

2050

 Solar farm power purchase agreement with Dominion Energy



## **FACILITIES**

- 2.2M square feet maintained
- 90 County-owned buildings valued at over \$750M



### **TRANSIT**

- 2.83M annual ridership on Arlington Transit's 16 routes; 78 buses total
- 698 bikes at 92 Capital Bikeshare stations



## **WATER**

- 525 miles of water pipes; 20 miles replaced/relined
- 470 miles of sanitary sewer pipe; 10 miles relined



## **STORMWATER**

- 5,500+ views of GIS stormwater story map
- 89 flood proofing site visits to impacted property owners after the July 8 storm



## **CONTACT CENTER**

- Expanded hours 7am-7pm
- 6,000 questions answered with new Virtual Assistant
- 66,500 annual calls (8% increase).



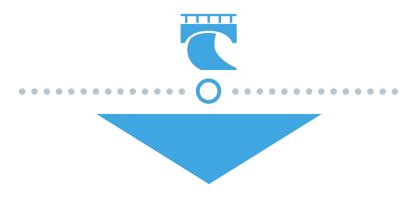
# **Summary of Proposed Budget Changes**

	FY 2020 Adopted	FY 2021 Proposed	Change	% Change
Expenses	\$100,909,216	\$110,904,844	+\$9,995,628	+10%
Revenue	\$49,834,789	\$52,039,638	+\$2,204,849	+4%
Staff	397.5 FTEs	408.5 FTEs	+11 FTEs	

 Budget additions support investments in service delivery and infrastructure & resiliency.



# **Proposed Budget Additions**



#### **RESILIENCY & INFRASTRUCTURE**

#### Core Services

- New ART Contract: \$4.4M
- Concrete Maintenance: \$300,000
- Sidewalk Condition Assessment: \$300,000\*
- Facility Preventative Maintenance: \$100,000

#### Street Safety

- TE&O Assistant Bureau Chief (reclassified): \$97,725
- Traffic Engineering: \$162,250, 1.0 FTE
- Streetlight Support: \$134,643, 2.0 FTEs\*

#### **Environmental Investments**

- CEP Initiatives & Resiliency: \$150,000\*
- Flood sensors: \$129,000\*
- Electric Vehicles: \$45,801



#### SUPPORTING OUR COMMUNITY

#### **New Community Assets**

- Lubber Run (building and garage maintenance, building engineer and vehicle): \$875,000, 1.0 FTE\*
- Facilities planner/architect: \$81,254, 1.0 FTE

#### Other

Permit Arlington Positions (limited term): \$215,974, 3.0 FTEs

**Total = \$1.2M** 



\*includes one-time costs



# **Summary of Proposed Fee Changes**

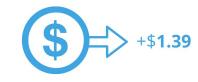
	FY 2020 Adopted	FY 2021 Proposed	Budget Impact
Development Services Inflationary 2.5% Fee Increase	All Development Services Fees		+\$81,921
Household Solid Waste Rate Increase	\$306 / household	\$319.03 / household	+\$455,504



## **Household Solid Waste Rate Increases**

- HSWR proposed to increase by \$13.03 / household
- Proposed rate is \$319.03 per / household primarily driven by the following increases:







Salary and Benefits Cost

Other Nondiscretionary Cost

#### **Regional Proposed Rate Comparison FY21**

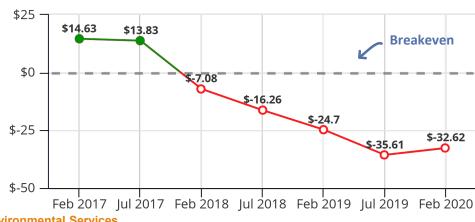
(Primarily Recycling)

Arlington County \$319.03

Fairfax County \$400.00

City of Alexandria \$460.00

## Recycling Processing Revenue/ (Cost) per Ton







#### **New with ART**

- **First Transit is fully staffed**. 120 active operators; 5 additional operators to graduate by Feb 28; 32 maintenance technicians and support staff.
- Ridership is trending up. ART carried 20% more commuters in January 2020 compared to January 2019.
- 14 new 35-foot buses were added to replace smaller body-on-chassis vehicles. Overall fleet age is now a relatively young 6 years old.

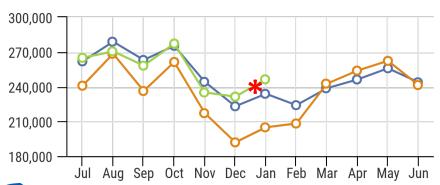


#### Ridership

#### ART has seen ridership gains in FY 20:

- FY20 YTD (through January): 1,783,538
- FY19 YTD (through January): 1,615,112
- 10.4 % increase in ridership from FY 19

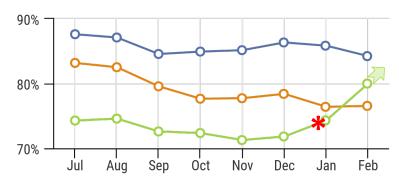
#### **Monthly Ridership**



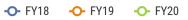
#### **On-Time Performance**

ART on-time performance is starting to rebound after several years of decline. Transit is working closely with new service provider to ensure trend continues. February on-time performance is at 80%.

#### **Monthly On-Time Performance (OTP)**







# **Realizing Arlington's Commitment to Equity**

# **Transit Findings**

County considers viewpoints and impacts to low-income, limited English proficiency (LEP), minority, and disability communities, in addition to community organizations & businesses to inform all transit related decisions.

#### **Who Benefits?**

- All transit-dependent and choice riders, residents, small business and corporate employers
- Transit provides economic and health benefits allowing access to employment, medical care and medical facilities



#### Who is Burdened?

 Service reductions or fare increases have potential to create burden on lowincome, people with disabilities and transit-dependent population



#### **How Do We Know?**

- Incorporates public involvement strategies and outreach to affected individuals, including minority, low-income, ADA and LEP populations prior to any program changes
- See map on the next slide



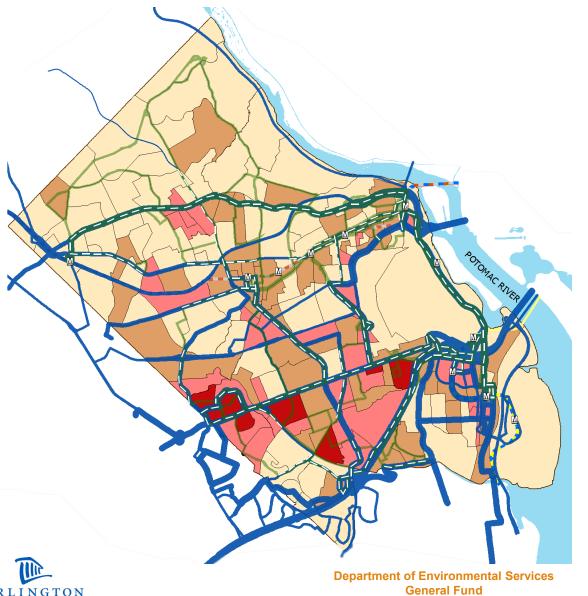


• FTA Title VI Program guidance ensures County provides service that benefits all riders





# Realizing Arlington's Commitment to Equity



## Legend

#### **ART Bus Frequency**

Under 12 Mins

13 - 18 Mins

19 - 30 Mins

— Over 31 Mins

#### **Metrobus Frequency**

Under 12 Mins

13 - 18 Mins

19 - 30 Mins

Over 31Mins

#### **Percentage Of Minority Population**

0% - 20%

20.1% - 40%

40.1% - 60%

>60.1%

#### **Metro Stations**

Metrorail Station

#### Other

Metro and ART route overlap

10



#### **Sidewalk Condition Assessment & Concrete Maintenance**

#### **Service Impacts**

- Over 800 miles of sidewalk, curb and gutter maintained
- Excluding paving program, current repairs are complaint-based
- Current backlog of approx. 130, with 500 –
   600 requests annually
- Assessment will be used to develop multi-year maintenance plan to address issues systematically and equitably
- Will identify walkability improvements, ensure ADA compliance and identify trip and fall hazards

#### **Budget Impact**

Change: \$600k (\$300k ongoing & \$300k onetime)

Revenue:

Net Tax \$600k

**Support:** 





Traffic Enginee	ering to Supp	ort C3 (Custome	r Care & Com	munications)

#### **Service Impacts**

- C3 is a service for residents to voice traffic / safety concerns & for staff to respond
  - Respond to 600 monthly emails from residents resulting in TE&O taking an action on more than 80 requests and initiating 20 larger scale traffic & safety investigations
- Position is necessary to stabilize response times and address current backlog

#### **Budget Impact**

Change: \$162k

Revenue: --

Net Tax \$162k

**Support:** 

**Staff Impact** 

1.0 FTE

## Traffic Engineering & Operations (TE&O) Assistant Bureau Chief

## **Service Impacts**

 Reclassified a vacant position to support increased workload generated by development and resident requests

#### **Budget Impact**

Change: \$98k

Revenue:

Net Tax \$98k

**Support:** 

#### Staff Impact

Reclassified existing FTE



### **Streetlight Support**

#### **Service Impacts**

- Traffic engineer and streetlight technician to support streetlight program.
- One-time funding for a vehicle
- Will improve streetlight maintenance performance.

#### **Budget Impact**

Change: \$135k

Revenue: --

Net Tax \$135k

Support:

**Staff Impact** 

**2.0 FTEs** 

## **Average Streetlight Repair Response Time (Days)**

	FY 2017	FY 2018	FY 2019	FY 2020 Estimate	FY 2021 Estimate
Major Repairs	120	45	70	45	30*
Minor Repairs	30	15	14	14	7*

#### **FY18 Investments**

•474K funding •1 Engineer •2 Field Technicians



#### **Facility Preventative Maintenance**

#### **Service Impacts**

- Funding will help pay for critical preventative maintenance contracts previously-funded through building engineer vacancies
- Recent pay increases for building engineers due to Trades Compensation Study will enable County to fill positions
- Newly-hired employees will focus on backlog of routine preventative maintenance

#### **Budget Impact**

**Staff Impact** 

Change:	\$100k
Revenue:	
Net Tax	\$100k
Support:	



# Resiliency & Infrastructure – Environmental Investments

#### **CEP Initiatives & Resiliency**

#### **Service Impacts**

- Consultant funding for implementation expertise to advance goals of Community Energy Plan adopted by Board. Funding could be used for:
  - Data analytics to create load shape profiles for energy usage
  - Electric vehicle uptake strategy
  - Commercial building benchmarking
  - County-wide feasibility assessment for renewable energy installations
  - Exploring micro-grids to reduce
     vulnerability and increase resiliency

#### **Budget Impact**

Change: \$150k one-time

Revenue: -

Net Tax \$150k

Support:

Staff Impact



# Resiliency & Infrastructure – Environmental Investments

## **Electric Vehicles**

#### **Service Impacts**

- In process of accelerating replacement of 28
   County vehicles with electric Nissan Leafs,
   includes one for Police and four for Fire.
- Increase to General Fund budget represents additional ongoing maintenance and replacement cost
- Auto fund to absorb increased one-time purchase, approximately \$7k per vehicle, plus charging infrastructure, for estimated cost of \$341k one-time.
- Costs could change depending on procurement vehicle used.

#### **Budget Impact**

Change:	\$46k
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Revenue: --

Net Tax \$46k

**Support:** 

#### **Staff Impact**

Our non-public safety sedan electric fleet will increase from 5% to 24%.







# **Supporting our Community**

#### **Lubber Run**

#### **Service Impacts**

- Addition of facilities maintenance funding (\$605K) for maintenance, custodian services & utilities, a dedicated building engineer (\$100k), garage maintenance service (\$140k) & one-time funding for a vehicle (\$30k)
- Appropriately funding new buildings ensures we continue to maintain a state of good repair.

#### **Budget Impact**

Change: \$875k

Revenue: --

Net Tax \$875k

**Support:** 

#### **Staff Impact**

1.0 FTE





# Department of Environmental Services

FY 2021 PROPOSED BUDGET HIGHLIGHTS

## **Utilities Fund**

**County Board Work Session** 

March 5, 2020



# Water & Sewer

By the Numbers



water main breaks in FY19 181



13 sewage & 5 water pump stations



7.8 billion gallons of water purchased in FY19



inspected in FY19

5,014



million gallons of water storage



470 miles of sanitary sewers



37,800 accounts

bills issued in FY19 **176,000** 



9.3 billion gallons of wastewater treated in FY19



## **Fund Overview**

#### **Utilities Fund**

- Water-Sewer Rate funds all operating & capital needs through the Water & Sewer Rate
  - Water purchase & distribution
  - Wastewater collection & treatment
  - Customer service & billing







## **Fund Overview**

## FY 2020 & FY 2021 Key Initiatives

- Utility billing system replacement
  - Billing for 38,000 accounts with 176,000 annual bills
  - "Go live" November 2019
- Customer service enhancements
  - Expanded call taking & hours
- Water & sewer cost of service and rate study
  - Key public engagement initiative
  - Rate structure alternatives
- Water meter replacement planning
  - Pilot next generation of technology
- Solids Master Plan, Phase 1 projects underway

Community

Study

Rate

**Customer Portal** 

Water & Utilities



Metering Options



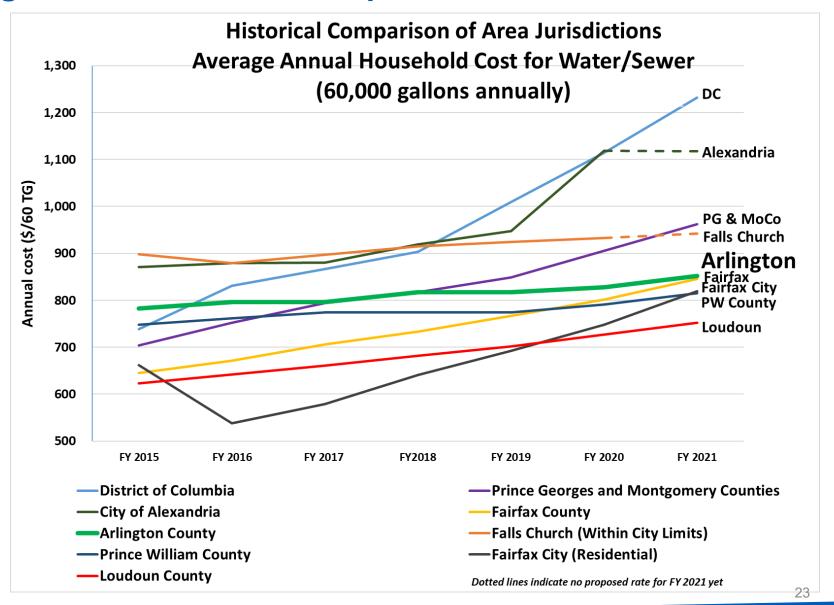


# **Summary of Proposed Budget Changes**

	FY 2020	FY 2021	Ola ava ava	%
	Adopted	Proposed	Change	Change
Expenses*	\$103,457,806	\$103,667,295	+\$209,489	<1%
Revenue	\$102,936,845	\$104,667,295	+\$1,209,489	1%
Staff	253.95 FTEs	254.95 FTEs	+1.0 FTE	
Water-Sewer Rate pe	r Thousand Ga	allons (TG)		
Water Rate (TG)	\$4.70	\$4.91	\$0.21	4.5%
Sewer Rate (TG)	\$9.10	\$9.29	\$0.19	2.1%
Combined Rate (TG)	\$13.80	\$14.20	\$0.40	2.9%



## **Regional Water/Sewer Comparison**





## **Large Valve Inspection Program**

## **Service Impacts**

- Inspect, exercise and repair 500 large water valves and air release valves (ARV)
- One-time funding of \$300,000 annually for 2 years: FY2021 and FY2022.
- Rehabilitations funded through CIP

## **Budget Impact**

Change:

\$300k

Impact on Water-Sewer

\$0.04/ Thousand Gallons

Rate

## **Staff Impact**

N/A Contractual services





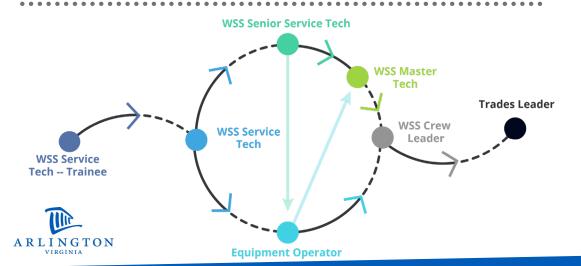


#### **Training Support**

#### **Service Impacts**

- Organize and manage logistics and records associated with WSS training of all 195+ employees.
- Build skills & competencies needed to advance through career ladder
- Funded by Utilities Fund and General Fund (70/30)

#### **WSS Career Path**



#### **Budget Impact**

Change: \$68k UF

28k GF

\$96k Total

Impact on \$0.01/ Thousand Water- Gallons

**Sewer Rate** 

NTS:

\$28k

### **Staff Impact**

1.0 FTE: HR Administrative Specialist

# Department of Environmental Services

FY 2021 PROPOSED BUDGET HIGHLIGHTS

## **Stormwater Management Fund**

**County Board Work Session** 

March 5, 2020









**21,000** structures



260 miles

of pipes



32 miles

of streams



43%

of County covered by impervious surfaces





# **Chesapeake Bay TMDL**

Ramped up pollution reduction requirements over three, fiveyear MS4 permit cycles.

- 1st cycle: 5% reduction
  - FY 2013 FY 2018: 1st permit cycle completed
  - Exceeded 5% reduction requirement
- 2<sup>nd</sup> cycle: additional 35% reduction (40% combined total)
  - FY 2021 FY 2025: 2nd permit cycle
  - Draft permit just received under review
  - On track to meet target
- 3<sup>rd</sup> cycle: additional 60% reduction (100% combined total)
  - FY 2026 FY 2030: 3rd permit cycle
  - Most challenging





# **Key Budget Considerations**

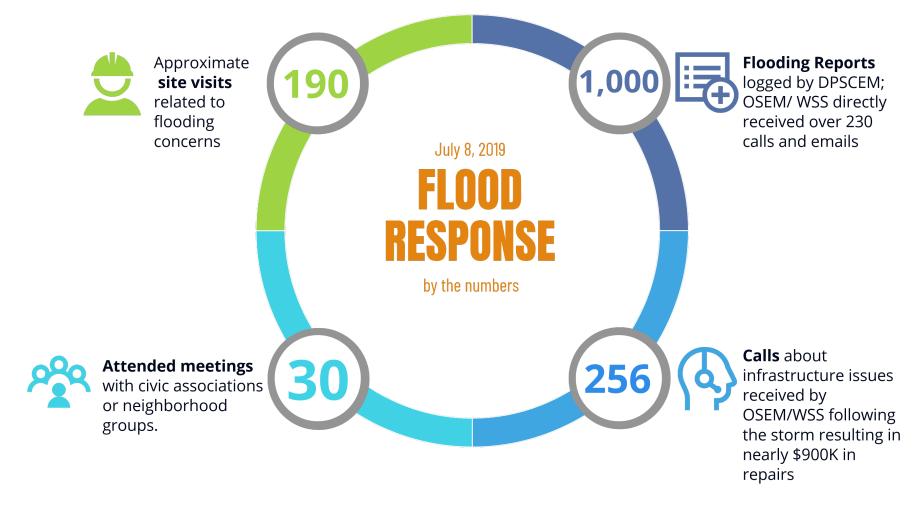
- Mitigating flood risks through comprehensive approach
  - Watershed-scale CIP projects
  - Review policies, regulations, & industry best practices
  - Innovation for multi-benefit in our fully developed state
  - Inter-department work group focused on:
    - Emergency response & life safety notifications
    - Development and regulations
    - Strategic improvements & policy changes
    - Communications & engagement
- Recommending bond referenda November 2020
- New MS4 permit (2<sup>nd</sup> permit cycle) & updated
   Chesapeake Bay clean-up requirements projected to require more effort and expenditure







# **Stormwater Response to July 8 Flood**







# **StormwaterWise Program Review**

- Popular, sustainable incentive program for on-site green infrastructure & water quality projects
- Program element of our MS4 permit changes would require discussion with DEQ
- Annual program budget = \$120,000

### **StormwaterWise Landscapes**

#### **Pervious Pavement**







**Rain Garden** 





#### **Conservation Landscape**





**Pavement Removal** 







# **StormwaterWise Program Review**

## **Policy Considerations**

- What are the measurable improvements to the overall system effectiveness by these investments?
- Is the expenditure of public funds appropriate to benefit property owners given the benefits received to the adjacent property owners and the overall stormwater program?
- 3 Should the increased value to individual properties be recaptured upon sale?
- 4 Should the program be focused only on areas at risk for stormwater related flooding?
- Who benefits, who is burdened, who is missing and how do we know? Should the program be means tested?
- Should the program be expanded to add incentives or modified for water detention options that manage on-site stormwater runoff?
- Should current practices be eliminated, and all funding redirected to water detention on County-owned property?
- 8 What are the impacts of potential program changes on the County's MS4 permit?



# **Utility Feasibility Study**

#### **Current Methodology:**

 Add-on tax rate: based on property's assessed value

#### **Utility Fee Structure:**

Example of City of Alexandria ERU billing unit definitions

- Rate structure based on impact of runoff from property (i.e. perviousness)
- Typically uses Equivalent Residential Unit (ERU)
- Arlington ERU definition would be defined based on analysis of Arlington properties

#### **Utility Feasibility Study will provide:**

- Technical, fiscal, social, policy, & operational aspects of establishing a Stormwater utility
- Billing units (ERU definition) for Arlington
- Rate structure models
- Matrix of property and customer types with expected financial impact to each
- Billing options
- Administrative costs

Townhouse

Condo

Townhouse

Condo

Townhouse

Large Single Family Home

Impervious area greater than 2,800 sq. ft.

0.28 ERU

0.42 ERU

1.0 ERU

1.67 ERU



## **Features:**



Equity - Fees are based on actual impact of runoff by property



Properties currently exempt from paying taxes would potentially pay under a utility



Potentially higher administrative costs



Could affect some property owners significantly (single-family, non-profits/churches with large parking lots), dependent on design of utility rate structure



Currently tax payments are deductible, under a utility they would not be



- 19 of 21 Virginia Municipal Stormwater Association Jurisdictions (VAMSA) have created stormwater utilities
- Only Fairfax and Arlington County are districts
- Implementation estimated to take 18 – 24 months
- Alexandria launched their Stormwater Utility in January 2018 – approximately 3 years start to implementation





## **Pilot Program**

- 2 transportation sensors for motorists in public ROWs
- Education for homeowners on availability of in home sensors

\_\_\_\_\_

Total General Fund Budget: \$129,000

(\$20k ongoing, \$109k one-time)







# **Summary of Proposed Budget Changes**

	FY 2020 Adopted	FY 2021 Proposed	Change	% Change
Expenses	\$11,211,095	\$12,026,019	+\$814,924	+7.0%
Revenue	\$11,211,095	\$12,026,019	+\$814,924	+7.0%
Staff	44.0 FTEs	47.0 FTEs	3.0 FTEs	

- Operational expense increases for addition of:
  - 2.0 FTEs Stormwater Inspectors
  - 1.0 FTE Senior Program Manager
  - Utility feasibility study
  - Contractual increases
- Revenue increases are due to real estate assessments and projected fee/fine revenues





**Stormwater Inspectors 2.0 FTEs** 

## **Service Impacts**

- Inspect both residential and commercial private sector construction sites that require a Land Disturbance Activity (LDA) permit
- Make progress towards achieving County's mandated MS4 permit inspection obligations for inspecting sites after significant rain events, and in frequency of regular site inspections

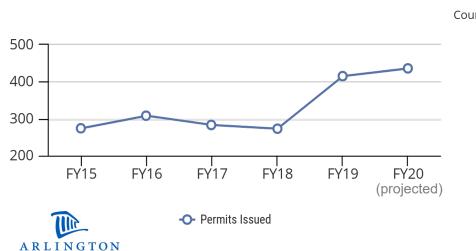
## **Budget Impact**

Change:	\$308k
Revenue:	\$305k
Net Tax	\$3k
Support:	

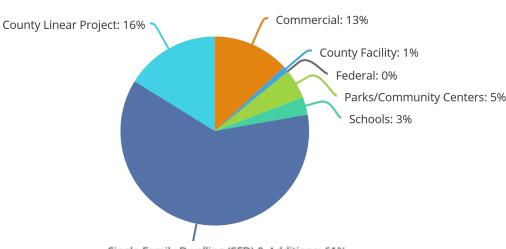
## **Staff Impact**

**2.0 FTEs** 

#### **LDA Permits Issued**



## **FY19 Permits by Facility Type**



# **Summary of Proposed Fee Changes**

	FY 2020 Adopted	FY 2021 Proposed	Budget Impact
Land Disturbing Activity (LDA): Single Family Additions <2,500 square feet (sf) of Land Disturbance	\$130.00	\$400.00	+\$109,080
LDA: Single Family >2,500 sf of Land Disturbance	\$975.00	\$1,600.00	+\$196,250
Development Services Inflationary 2.5% Fee Increase	All Development Services Fees		+\$27,940





## **Senior Program Manager**

### **Service Impacts**

- Oversee and manage maintenance capital and capacity/infrastructure CIP programs
- Supervise project managers through all phases of project study, development, design and construction of infrastructure and capacity CIP projects
- Support and co-implement County's Stormwater Risk Assessment and Management Program (RAMP)

### **Budget Impact**

Change: \$209k

Revenue: -

Net Tax \$209k

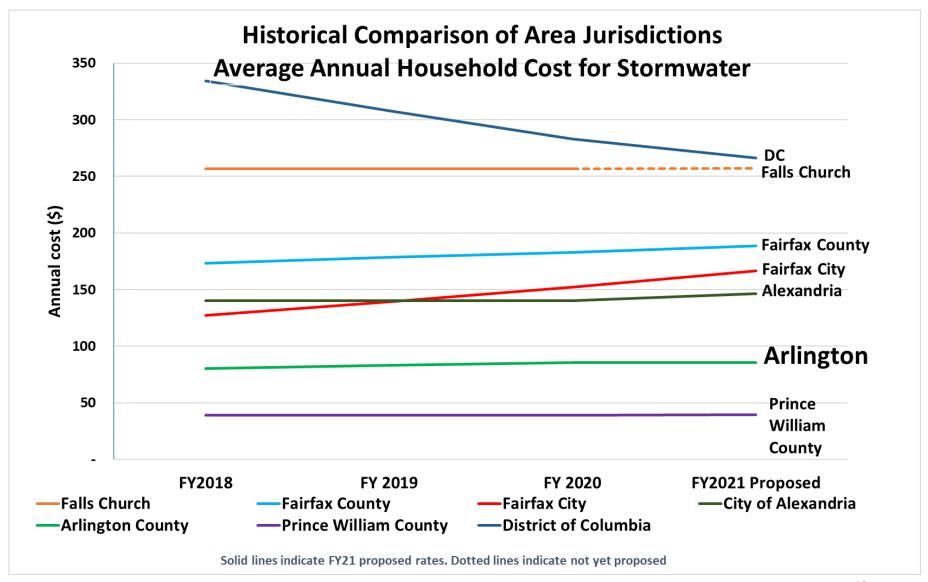
Staff Impact

1.0 FTE

**Support:** 



## **Regional Stormwater Comparison**



## **Public Engagement Opportunities**

Flood Resilient Arlington Engagement **Spring 2020** 



March 26 Stormwater Open House

Opportunity for public to review working group recommendations & provide feedback



Late March Online Engagement

Open House materials will be available online for people to comment & provide feedback Feedback from both processes will inform CIP

Overall CIP Engagement

CIP Leaders Forum – March 19

Community leaders & advocates representing diverse interests on CIP

**CIP Online Engagement** – Open
Feb. to late April

Proposed CIP released in May 2020

June Public Hearing

**CIP adoption in July;** followed by ongoing implementation



# Department of Environmental Services

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