



CITY OF ALEXANDRIA

# Eco City Academy



# Agenda



- |   |                                  |
|---|----------------------------------|
| 1 | Overview of Solid Waste Services |
| 2 | Review of What Can be Recycled   |
| 3 | Glass Recycling in Alexandria    |
| 4 | Recycling Tools                  |
| 5 | Questions & Answers              |
|   |                                  |

# Solid Waste Services

Trash



Recycling



Yard Waste



Food Waste



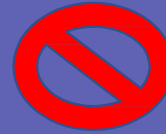
Household Hazardous  
Waste





## WHAT DO I RECYCLE IN THE BLUE CONTAINER?

- |   |   |  |
|---|---|--|
| ✓ | <b>PAPER &amp; CARD-BOARD</b><br>EMPTY & FLAT |  |
| ✓ | <b>PLASTICS</b><br>EMPTY & RINSE LABELS OK    |  |
| ✓ | <b>METALS</b><br>EMPTY & RINSE LABELS OK      |  |
| ✗ | <b>NO RECYCLING!</b>                          |  |



**What Pizza Boxes?**





## What about Caps?

THE RECYCLING PARTNERSHIP

Arrowhead® It's Better Up Water®  
Arrowhead® Mountain Spring Water Company  
San Jose, CA 95128  
For questions or to report an issue, please contact 1-800-472-7775 or  
arrowheadwater.com

Contents: 16.9 fl oz (500 mL)  
Our 100% mountain spring water is naturally pure and delicious. It's tested to ensure the highest quality at Arrowhead® Water Company.

**RECYCLE RIGHT:**

Recycle empty bottles with caps on.





## Plastic Bag Tax

- The City of Alexandria, the City of Falls Church, Loudon County, Arlington County, and Fairfax County have adopted a 5-cent per bag tax on disposable plastic bags from grocery stores, convenience stores, and drug stores.
- The tax went into effect on January 1, 2022, for the City of Alexandria, Fairfax, and Arlington.
- Does not apply to paper bags
- Not a ban on plastic bags
- Revenues may be used by localities to fund environmental clean up programs, pollution and litter mitigation programs, education programs on environmental waste reduction, and provision of reusable bags to SNAP/WIC beneficiaries.

**BE THE  
SOLUTION  
TO PLASTIC  
POLLUTION**



**SWITCH TO REUSABLE BAGS**  
to keep local waterways, roads  
and open space free of litter.



5¢ PLASTIC BAG TAX TAKES EFFECT JANUARY 1, 2022

Bring your own reusable bag to avoid this fee.

[NOVAPlasticSolution.org](http://NOVAPlasticSolution.org)





## Glass Recycling

In single stream recycling, glass breaks during collection and gets contaminated

### GLASS RECYCLING DROP-OFF LOCATIONS

- 1 4251 Eisenhower Ave.
- 2 3224 Colvin St.
- 3 S Royal St. & Jones Point Park
- 4 Tower Ct. & South Whiting St.
- 5 3831 Mt. Vernon Ave.
- 6 For additional locations in Northern Virginia, visit [alexandriava.gov/Recycling](http://alexandriava.gov/Recycling)







# Household Hazardous Waste (HHW) & Electronics



Location: [3224 Colvin Street](#)

Hours: Monday and Saturdays ONLY

- 7:30 a.m. - 3:30 p.m.

Monday: 7:30 a.m. - 3:30 p.m.

Tuesday: CLOSED

Wednesday: CLOSED

Thursday: CLOSED

Friday: CLOSED

Saturday: 7:30 a.m. - 3:30 p.m.

Sunday: CLOSED

	✓ HOUSEHOLD CLEANING		✓ PESTICIDES
	✓ ELECTRONIC WASTE		✓ PROPANE TANK
	✓ PAINT, STAINS &		✓ MERCURY CONTAINING ITEMS OLD THERMOMETERS & THERMOSTATS FLUORESCENT BULBS
	✓ AUTOMOTIVE CHEMICALS		✓ HERBICIDES & GARDEN PRODUCTS

✓ **BATTERIES**

Batteries are the leading cause of truck fires in the U.S. Do not place rechargeable batteries of any kind in the trash or recycling. Bring them to the HHW Center. Regular alkaline can go in trash.

All Rechargeable (e.g. Li-Ion, Ni-MH, Ni-Cd, Ni-Zn)  
Single Use Lithium (e.g. button/coin cell, AA, AAA, 9V, C, D, CR123A, CR2)  
Lead Acid (automotive) & Sealed Lead Acid



# Food Waste



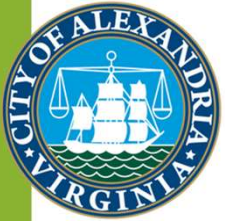
**Curbside Composting**



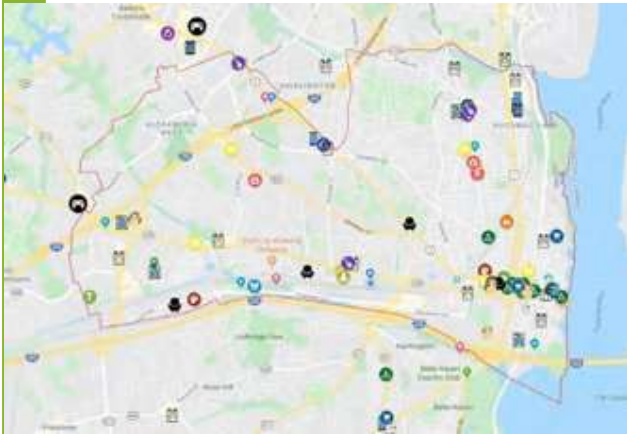
**Farmers' Market Composting**



**Backyard Composting**



# Resources



Alexandria  
Reuse  
Directory



Guide to  
Services



What Goes  
Where  
Directory





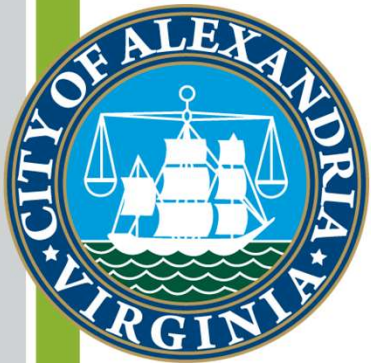
CITY OF ALEXANDRIA

*Recycling is an everyday  
way to fight climate change.  
Recycling saves natural  
resources, energy and  
money.*



# Eco-City Academy

## Water Resources





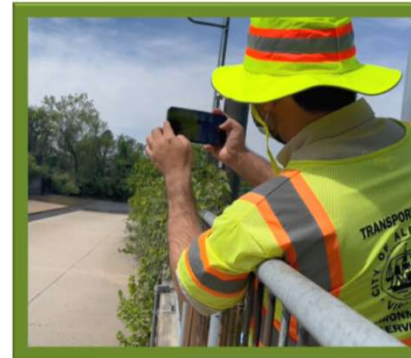
# Agenda



## **Stormwater Management in Alexandria**



## **Water Resources & Water Quality,** *Opportunities for Engagement*



## **Flood Action Alexandria**



## **Financial Programs for Residents** *Flood Mitigation Grant Stormwater Utility Fee Credit Program*

# STORMWATER MANAGEMENT IN ALEXANDRIA

- 154,700 (2021 population)
- 15 square miles
- Over 40% impervious area
- ~500 acres in Old Town area in combined sewer (See RiverRenew for more info!)



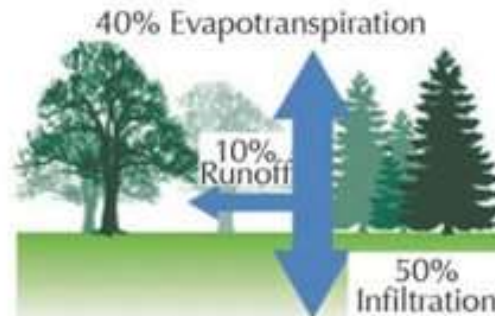


**WHY CARE  
ABOUT WATER  
QUALITY?**

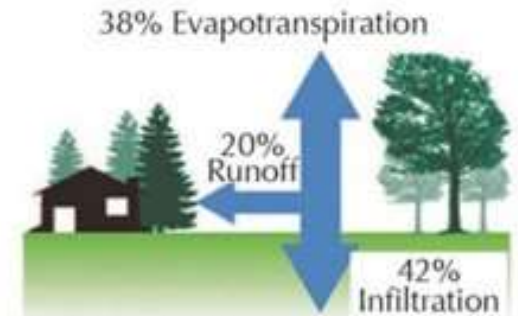
# Why Does Stormwater Run Off?

During rain events, the City sees about 30% runoff because we have about 45% Impervious Surface

## EFFECTS OF IMPERVIOUSNESS ON RUNOFF AND INFILTRATION



**Natural Ground Cover**  
0% Impervious Surface



**Low Density Residential (e.g. rural)**  
10–20% Impervious Surface



**Medium Density Residential (e.g. subdivision)**  
30–50% Impervious Surface



**High Density Residential / Industrial / Commercial**  
75–100% Impervious Surface



# WHERE DOES ALL THE STORMWATER GO?

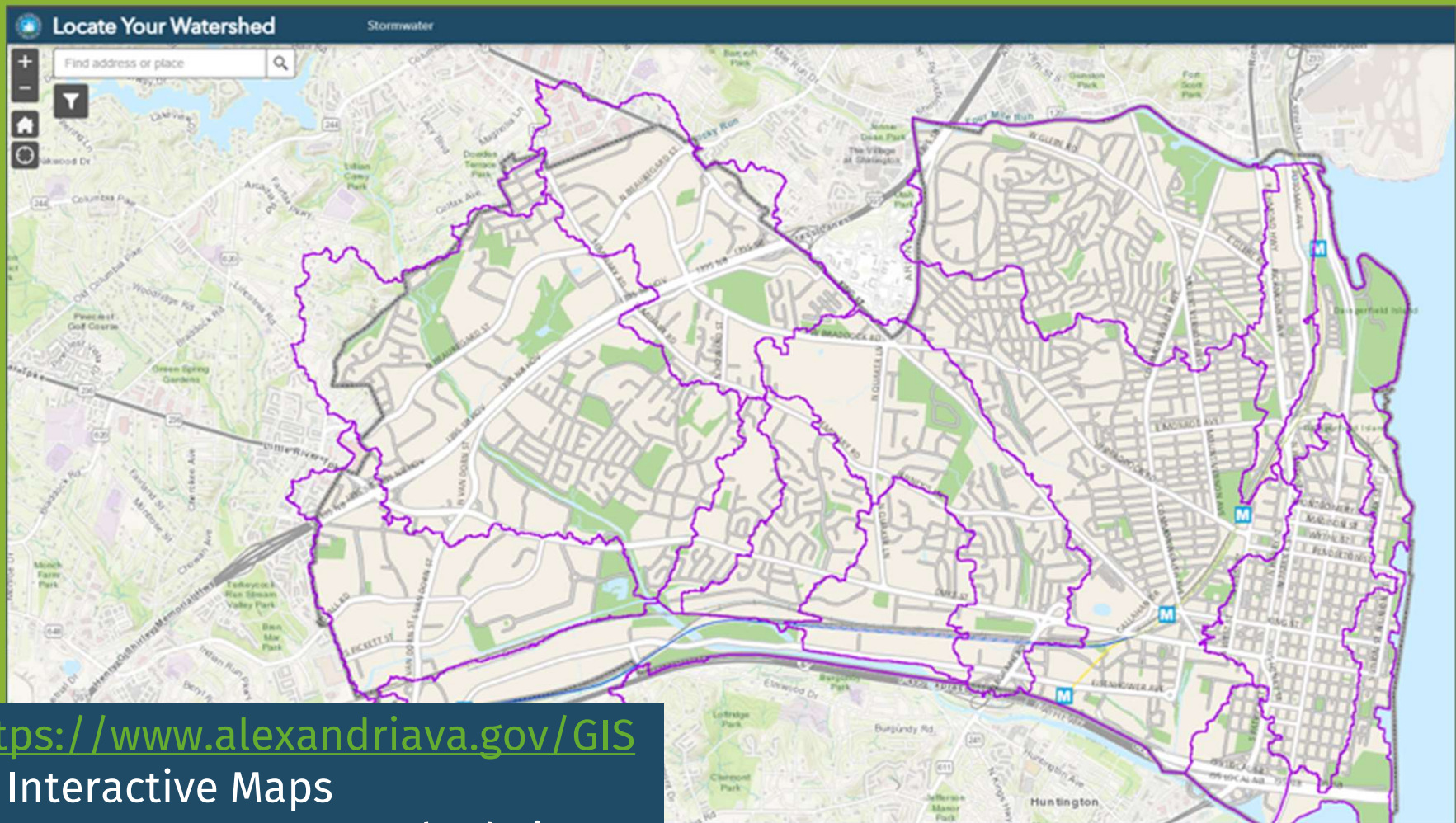


“If it drains to the street, it drains to the creek.”

# WHERE DOES ALL THE STORMWATER GO?



**The Potomac River drains to the Chesapeake Bay and ultimately the Atlantic Ocean.**



<https://www.alexandriava.gov/GIS>

>> Interactive Maps

>>>> Locate Your Watershed Viewer

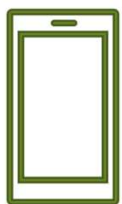


# Types of Pollution in Alexandria's Waterways

- Trash / Litter
- Sediment / Dirt
- Nutrients from Fertilizers (over application or not timed properly)
- Salts from Snow Removal Activities
- Pet Waste
- Motor Oil, Grease, Vehicle Fluids



## What You Can Do to Protect Water Quality



Report Clogged Inlets & Water Quality Concerns to Alex311 |  
Pick Up After Your Pet | Do Not Litter | Reduce Fertilizer Use



# City of Alexandria IDDE PSA Video

(Run Time 1:28)





# Financial Programs for Residents

## Stormwater Utility Fee Credit Program

- Provides a % reduction off your annual Stormwater Utility Fee (SWU)
- Focus on stormwater quality practices, as well as flood mitigation

## Flood Mitigation Grant Program

- Provides 50/50 match up to \$5K for SFH and \$25K for HOAs
- Focus on flood mitigation practices



# Stormwater Utility Fee Credit Program

- Since May 2018, the City's SWU provides a dedicated, equitable funding source for Alexandria's Stormwater Management Program
- The residential fee is based on property type and is billed twice a year with property taxes
- All property owners are eligible to receive up to 50% reduction
- Program is open annually December 1 – February 15th
- Credits are good for 2-years and most just require a picture!

# Stormwater Utility Fee Credit Program



## RESIDENTIAL PROPERTIES CREDIT MENU

### STORMWATER MANAGEMENT PRACTICES

PRACTICE	CREDIT
RAIN BARRELS	5% EACH MAX 20% FOR 4
CISTERN	20%
DETENTION PRACTICES	20%
DRY WELL/ INFILTRATION	20%
RAIN GARDEN	20%
FLOW THRU PLANTER BOX	20%
PERMEABLE PAVEMENT	20%
VEGETATED GREEN ROOF	20%



### ELIGIBLE LANDSCAPING PRACTICES

PRACTICE	CREDIT
NO FERTILIZER PLEDGE	10%
CONSERVATION LANDSCAPING	10%
NEW TREE PLANTING	UP TO 30% ONE TIME CREDIT
MATURE TREE PRESERVATION	UP TO 20%



### DRY FLOODPROOFING PRACTICES

PRACTICE	CREDIT
PROTECTIVE BARRIERS/ WALLS	10%
PROTECTIVE DOORWAY FLOOD GATE OR PANEL	10%
PASSIVE FLOOD GATES	10%
FLOODPROOF WINDOWS	10%
BASEMENT WINDOW PROTECTION	10%
GROUND FLOOR/ BASEMENT CUSTOM WINDOW WELLS	10%
FRENCH DRAIN AROUND BASEMENT	10%
IMPERMEABLE MATERIAL AROUND FOUNDATION	10%
CONCRETE SEALER	5%
CONSTRUCT WITH FLOOD RESISTANT BUILDING MATERIAL	5%
ELEVATE EXTERIOR UTILITIES/ SERVICE EQUIPMENT	5%

\*APPROVED STORMWATER PRACTICES IN THE BMP CLEARINGHOUSE MAY BE ELIGIBLE FOR CREDITS ON A CASE-BY-CASE BASIS. SEE 2011 DESIGN SPECIFICATIONS FOR APPROVED PRACTICES AT [HTTPS://SWBMP.VWRRC.VT.EDU](https://swbmp.vwrrc.vt.edu)

# FLOODACTION

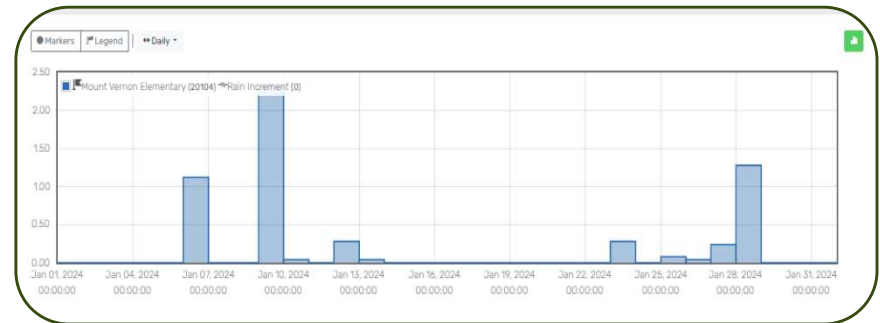
ALEXANDRIA





# Alexandriava.gov/FloodAction

- Rain Gauge Info
- Project Dashboard of Current and Future Projects
- Story Map of the History of Flooding in Alexandria



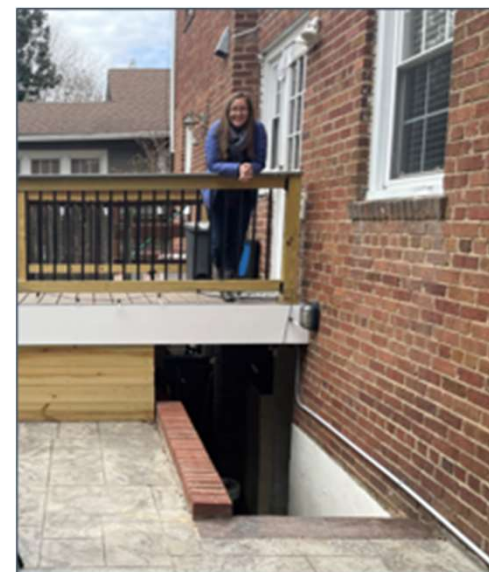
# Flood Mitigation Grant Program Objectives

- Financially reimburse homeowners for flood mitigation efforts
- Designed so both the City and homeowners achieve beneficial outcomes:
  - City delivers grant funds to homeowners who made efforts to help mitigate flooding
  - Homeowners are **reimbursed** for products and/or services that provide a return on their own investments

The “old” way



The “new” way



# Practices Covered by the Flood Mitigation Grant Program



## Windows and Doors

- Permanent glass protection
- Basement window protection
- Ground floor or basement window wells and drains
- Temporary or permanent doorway flood gate or panel
- Flood socks
- Temporary quick dams



## Basement and Utilities

- Sump pump battery backups
- Drain tiles below basement floors
- Flood vents
- Utility flood covers
- Interior concrete or masonry walls
- Elevated electrical outlets and switches
- Quick Connect system
- Elevated utilities and service equipment



## Exterior and Topography

- Surface grading
- Protective walls
- Impermeable soil materials
- Flood walls
- French drain systems
- Earthen berm construction
- Sandless or traditional sandbags
- Flood resistant building materials



For questions about your flood mitigation efforts, contact City staff at [FloodGrant@alexandriava.gov](mailto:FloodGrant@alexandriava.gov)

# Flood Mitigation Grant as of October 2023

## Individual Homeowner

- \$5K grant, 50/50 match
- Must be an eligible flood mitigation practice
- Use by owner within boundary of real estate property.



## Associations

- \$25K grant, 50/50 match
- Must be an eligible flood mitigation practice
- Use by association to protect common area and/or multiple properties from flood hazard.







Thank you!

