# Net Environmental Benefit

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### **Environmental Quality Corridors**

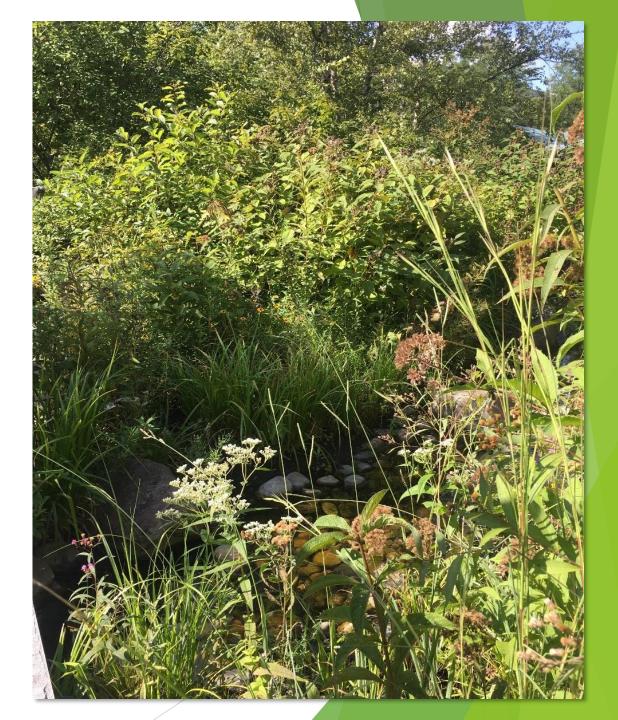
Integrated network of ecologically valuable land and surface waters for present & future residents





### **EQC** Purposes

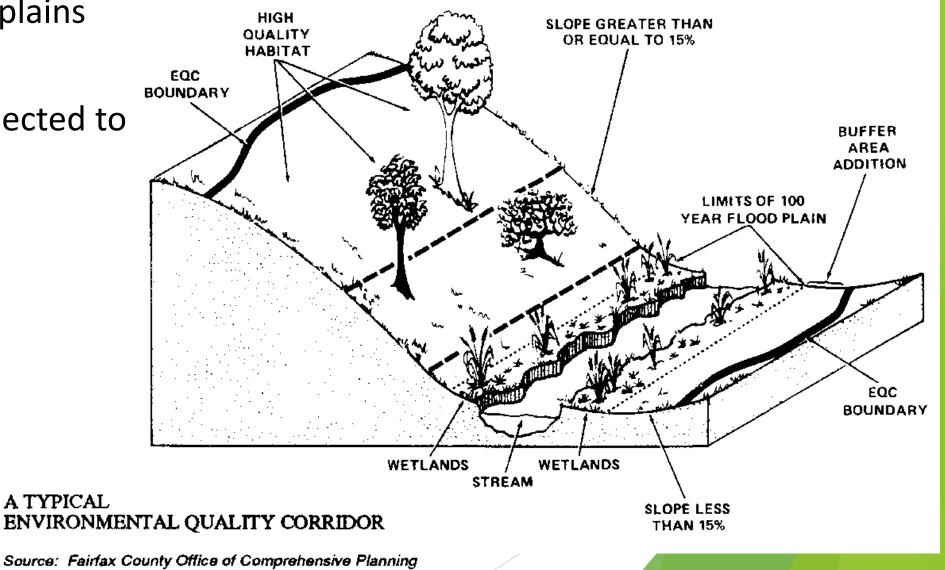
- Habitat quality
- Connectivity
- Hydrology/stream buffering/ stream protection
- Pollution reduction



## **EQC** Components

- 100-year floodplains
- Steep slopes
- Wetlands connected to stream valleys

Buffer



# Encouraged Uses within EQCs

- Stream stabilization & restoration
- Replanting
- Wetland and floodplain restoration
- Removal of non-native invasive vegetation

### **Other Disturbances within EQCs**

Other disturbances to EQCs should only be considered in extraordinary circumstances and only where mitigation/compensation measures are provided that will result in a clear and substantial net environmental benefit. In addition, there should be net benefits relating to most, if not all, of the EQC purposes listed above (habitat; connectivity; stream health; pollution reduction) that are applicable to the proposed disturbances.

### **EQC** Modifications

- When the area designated does not benefit the purposes described above
- Some disturbances that serve a public purpose:
  - Unavoidable public
    - infrastructure easements
  - Rights of way



## Land Development







### Policy Plan – Environment Element

- Air Quality
- Water Quality
- Transportation Noise
- Light Pollution
- Environmental Hazards (soils, floods, pipelines)
- Environmental Quality Corridors
- Tree Cover
- Conservation Easements
- Environmental Monitoring
- Green Building
- Tidal Shoreline Erosion Control
- + Chesapeake Bay Supplement





#### Trees

#### **Benefits:**

- Stormwater management
- Energy conservation
- Air quality
- Habitat for wildlife
- Aesthetics
- Shade
- Sense of safety and protection

#### **Strategies/Methods:**

- Use native plantings
- Remediate the soils
- Replace existing trees
- Eradicate invasive species

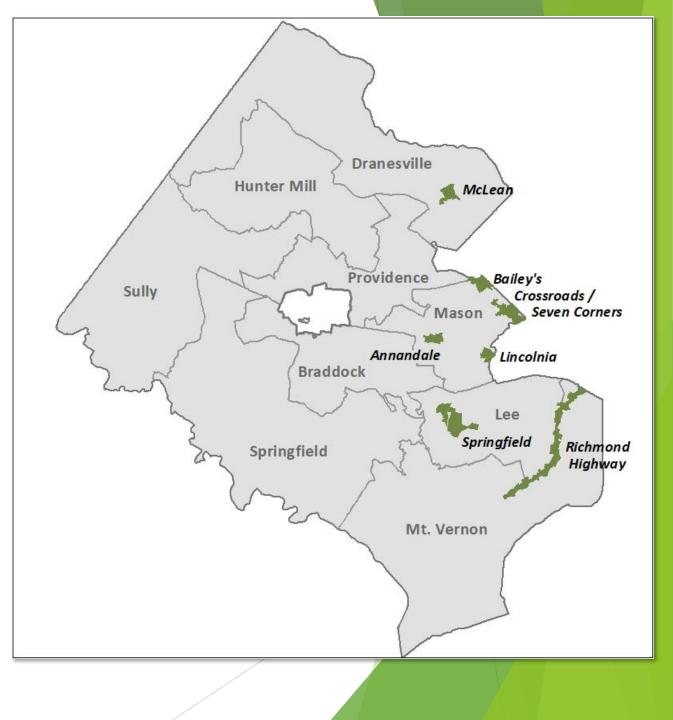




#### Water

- Detain on-site & slowly release
- Reuse
- Clean
- Make visible





### **Green Building**

- Location & Transportation
- Sustainable Sites
- Water Efficiency
- Energy & Atmosphere
- Materials & Resources
- Indoor Environmental Quality





### Natural Landscaping

- Restore aesthetic & ecological functions
- Preserve & recreate ecological features and native plant communities
- Use native plants
- Control invasives
- Maintain healthy soils
- Retain rainwater on-site





### **Intentional Design**

- Community health
- Equity
- Community identity
- Each site has a role to play











#### Considerations (DPD 2019 ARE Response)

- Future Comprehensive Plan amendments could:
  - Consider and define net environmental benefits across all areas of the county and various development scenarios (infill, redevelopment, & new development); &
  - Define the ecosystem services, such as habitat, heat reduction, & erosion and flood control, that a site can protect or regenerate.
- Net environmental benefit could:
  - Help connect and enhance each area of the county;
  - Be tailored to the unique character of each area;
  - Recognize that each area has a role to play in the health of the applicable resources; and
  - Guide land use expectations for all lands and waters in the county, whether public or private; whether urban, suburban, or rural.