

Conserving the DeHart Property

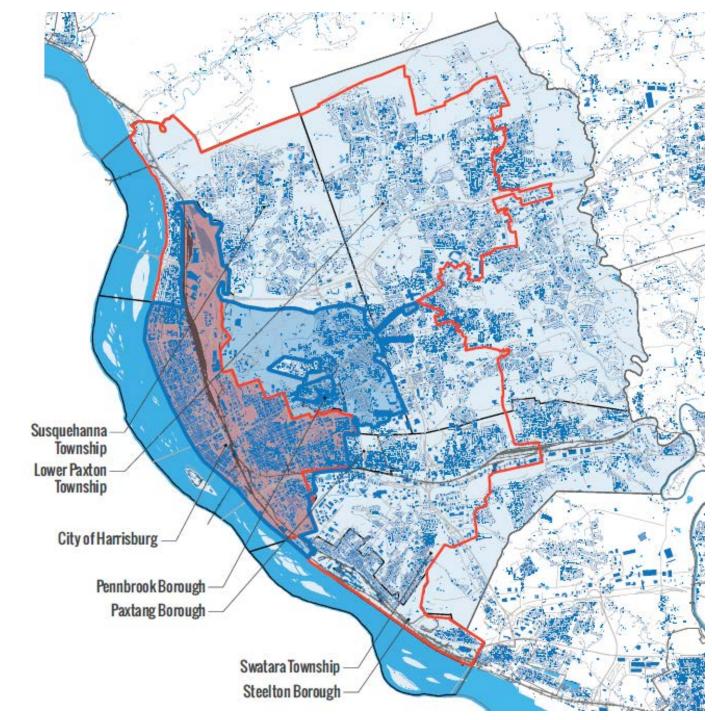
November 18, 2016

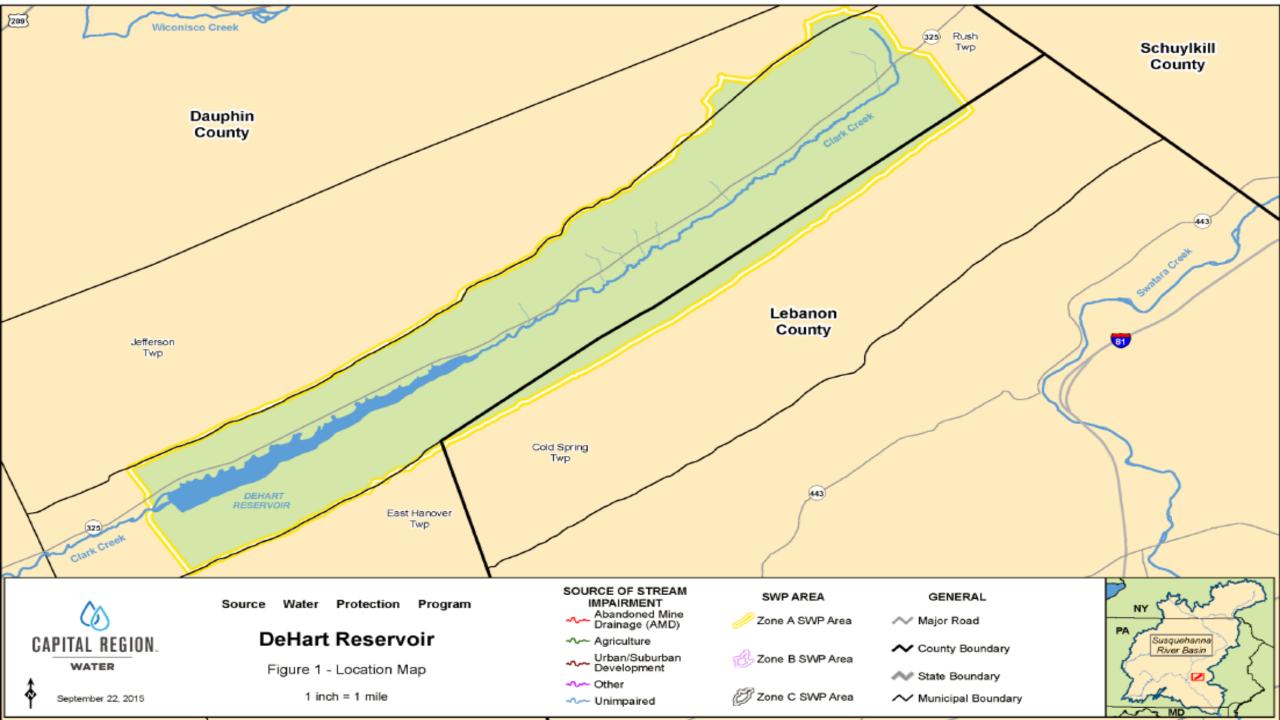
Primary source of drinking water for the City of Harrisburg and portions of Penbrook Borough and Susquehanna and Lower Paxton Townships

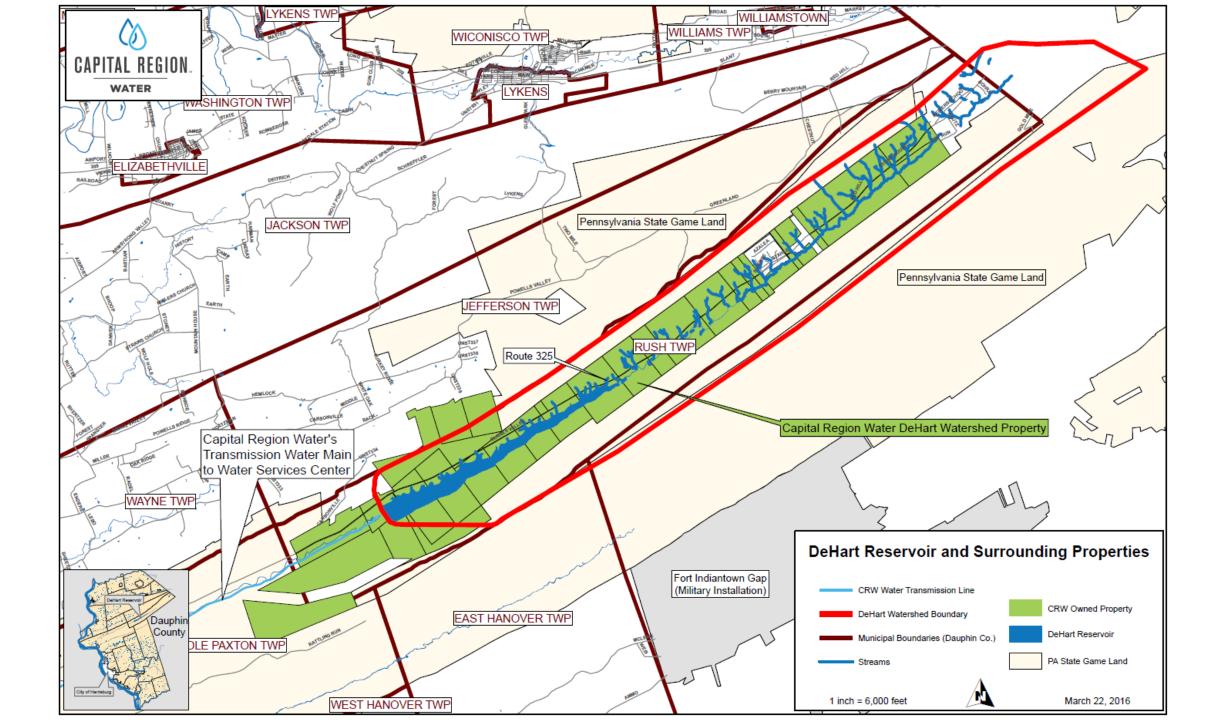
- Located in Rush, Jefferson, Middle Paxton Twps.
- Clarks Creek is the source
- Built in 1940s
- Holds 6 billion gallons
- 5-mile long reservoir
- Surrounded by forested property



WATER







2014

CRW approached with request to purchase 384 acres by PGC via TCF using ACUB funds

# Jan. – Feb. 2015

Public

presentations and 3-week public comment period

CRW Board rejects Agreement of Sale. Requests evaluation of management options and recommended next steps

#### **March 2015**

Staff continues evaluation of management options. Decision to move forward with FSP and SWP Plan

Convenes TNC/WBWF to consider an ACUB funded conservation easement proposal in recognition of necessary management conditions

### **April 2015**

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### May 2015

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### August 2015

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## March- April 2016

Public presentations of conservation proposal and 3-week public comment period

CRW Board votes in favor of a Purchase and Sale Agreement for the DeHart Property



WATER

**Timeline** 



# Army Compatible Use Buffer (ACUB) What & Why

- Environmental Protection Integration) program has authorized U.S. military installations to enter into agreements with State or Local governments or private conservation organizations to address development concerns and encroachment on lands neighboring the installation.
- The United States Army's version of this program, the ACUB (Army Compatible Use Buffer) program, has been used to protect multiple National Guard training Installations from encroachment.
- Encroachment is defined as urban development surrounding military installations that affects the ability of the military to train realistically. Encroachment restricts the Army's ability to operate installations & training areas. It changes the pattern of land use and habitat growth and impedes the Army's ability to train Soldiers.

### The following conditions must be met:

- CRW retains property ownership, including oil/gas/mineral/timber rights
- Perpetual conservation agreement (ie. restriction or easement)
- Both CRW and third party maintain enforcement authority of conservation agreement
- Maintain hunting/hiking through the PA Game Commission Cooperative Game Agreement
- Respects Trust Indentures and efficient operation of the water system
- Minimal interference with CRW operations



# **Agreement Conditions**

Scenario	1	2	3	4
Approach	"Do Nothing"	"Deed Restriction"	"Sale"	"Conservation Easement"
Ownership	CRW	CRW	Other	CRW
Management / Enforcement	CRW	CRW	Other	CRW & Partner
Potential Revenue Source	Timbering & Carbon	Timbering & Carbon	One Time Payment	Timbering & Carbon & Compensation
Total Revenue – One timber cycle (timber, carbon, land sale values)	\$4 - \$12 Million	\$4 - \$12 Million	\$6-\$20 Million	\$4 - \$20 Million
Potential Revenue – Two Timber Cycles	\$8 - \$24 Million	\$8 - \$24 Million	\$6 - \$20 Million	\$8 - \$36 Million
Benefit/Cost Ratio	1/2 = 0.5	2/2 = 1	1/2 = 0.5	3/1 = 3
Rank	3	2	3	1



# **Management Approach Evaluation**



Utilizing Fort Indiantown Gap Army Compatible
Use Buffer (ACUB) Program funds, Capital Region
Water will partner with the Ward Burton Wildlife
Foundation and The Nature Conservancy to grant a
conservation easement on the 8,200-acre DeHart
Watershed Property.

The conservation easement will protect the property's natural, scenic, forested and open space condition. Thereby, protecting water quality, regional conservation significance, and the military mission of FTIG.



What was proposed?

# Ward Burton Wildlife Foundation

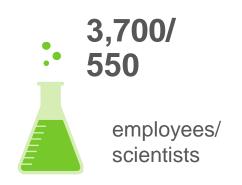






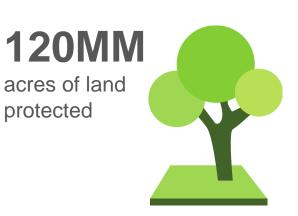


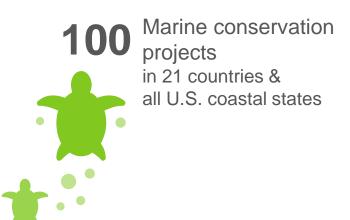
















# WORKING WOODLANDS HOW IT WORKS



Maintain working forest landscapes for the production of high quality ecologic and economic values.

FOREST PROTECTION

CERTIFIED FOREST MANAGEMENT

ECOSYSTEM VALUE ASSESSMENT

- Working forest conservation easements
- Forest inventory
- 10 yr. Assessment and plan
- FSC certification

Improved forest management carbon potential

### Public Comment – by the numbers

- 2 public meetings/hearings as well as additional information discussions with critical stakeholders such as CRW's Community Ambassadors, Source **Water Protection partners, and the PA Game Commission**
- 8 media hits
- 8,400 reached on social media
- 1,500 via direct email, including previous commenters
- 62 comments received
  - 31 customers and 8 organizations
  - 46 comments were in support
  - 5 comments in opposition
  - 11 comments were without express support or opposition
  - All comments were made publically available





**Water:** Preserve and/or enhance the high quality drinking water by improving the capacity of the system to produce the resource. Watershed security must also be maintained to insure the safety of the supply. Critical riparian buffer zones must be maintained and established as necessary. All water resources on the property must be recognized, including all springs, tributaries, and wetlands. Property management and forest stewardship must complement existing operations and source water protection efforts that provide drinking water to over 60,000 people.

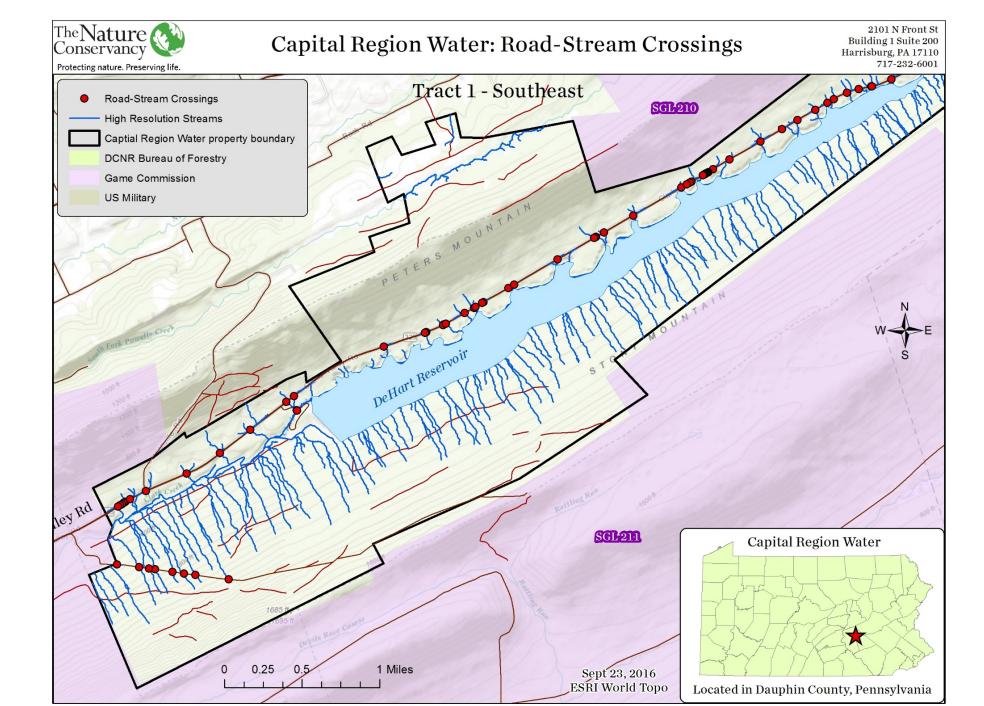
**Revenue**: Improve the capacity of the watershed and downstream properties to produce carbon-friendly revenue options. Revenue streams will allow CRW to enhance and protect the asset. This includes sustainable timber harvesting and monetizing of ecosystem services.

**Ecosystem health:** Maintain and enhance long-term ecosystem health and viability. Identify and conserve high priority conservation areas, contribute to the conservation of biological diversity and habitat, and actively manage the property for resiliency to withstand threats (invasive species, storms, insect invasions, changing climate).

**Compliance and recordkeeping:** Ensure any active management of the property exceeds any federal, state and local requirements and best practices. Implementation of the plan must be monitored and documented with incremental benchmarks.



# **Stewardship Principles**



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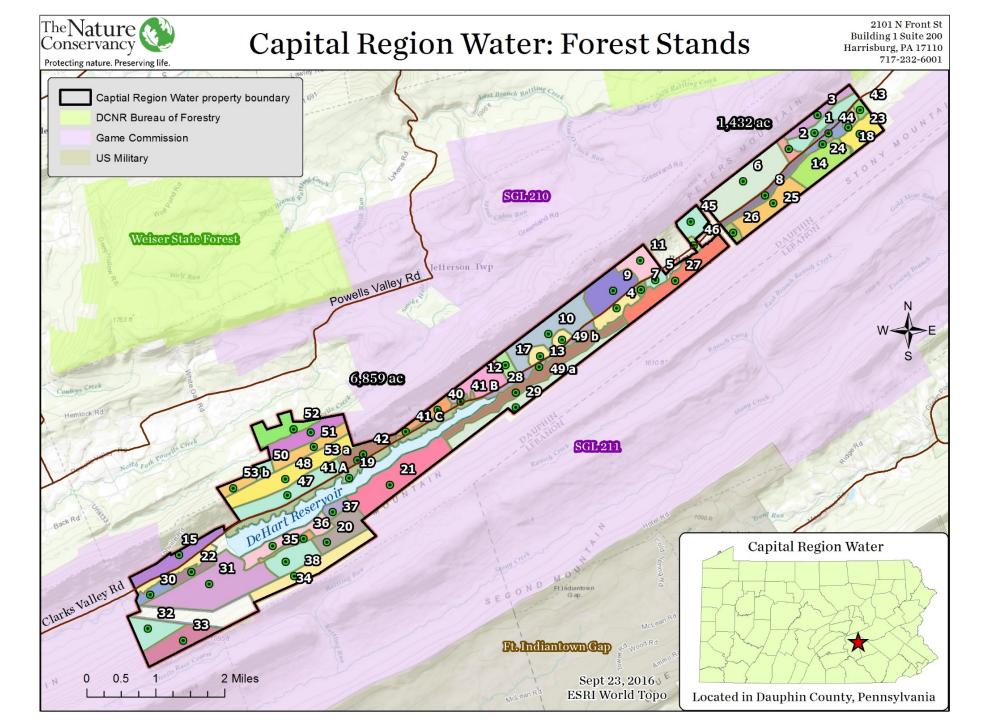


WATER

**Timeline** 









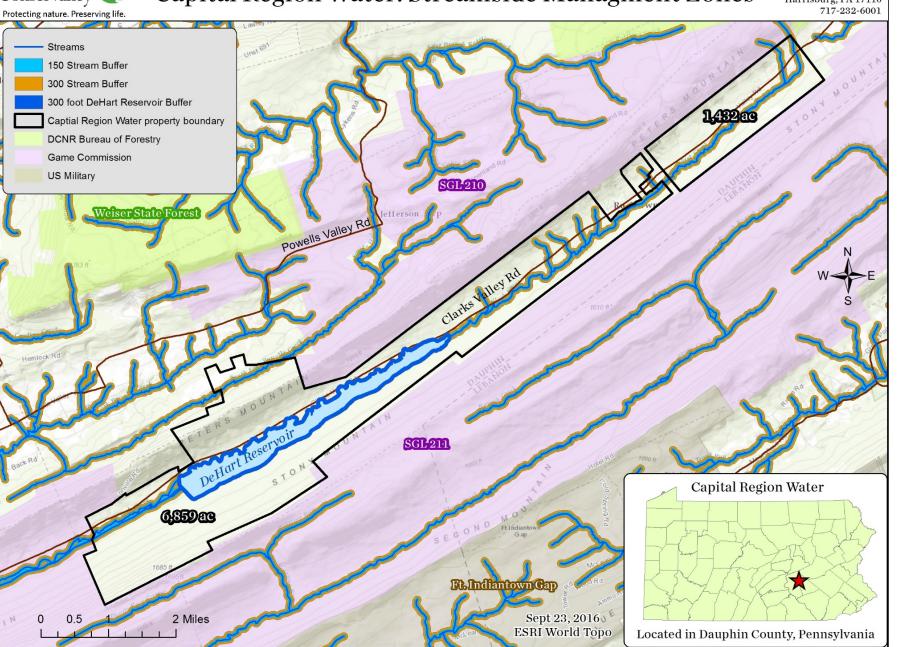






### Capital Region Water: Streamside Managment Zones

2101 N Front St Building 1 Suite 200 Harrisburg, PA 17110 717-232-6001





Possible Management Approach	Property Ownership	Management/Enforcement Responsibility	CRW Revenue Potential (Please also see Financial Comparison below)	Ratio of Benefits/Costs <sup>i</sup>			
				Benefits High =3 Med=2 Low=1	Costs, also considers risk High =3 Med=2 Low=1	Ratio Benefits/ Costs	Rank
Scenario 1 - Continuation of current approach	CRW retains full ownership	CRW retains full management responsibility	Timbering potential at approximately \$500- \$1500/acre <sup>II</sup> every 20-30 years Carbon offset potential at approximately \$10-\$20/acre <sup>III</sup> per year	1 -CRW ownership -CRW retains oil/gas/mineral/timber rights -Ongoing revenue potential with active management -Environmental protection -Continuation of hunting/hiking access - No risk of operations interference	2 -Stewardship plan costs -Lack of long-term protection strategy and susceptibility to future mismanagement -Assumes CRW to police self	1/2 = 0.5	3
Scenario 2 - Deed Restriction	CRW retains full ownership; extinguishes some rights	CRW retains full management responsibility. Third party may provide enforcement authority if party to restriction, otherwise CRW has sole authority to also reverse restriction	Little or no revenue potential  A percent of the land value could be determined for a one-time payment based on an appraisal and easement value; dependent on interested partner	2 -CRW ownership with legal restriction governing future land use -CRW may retain oil/gas/mineral/timber rights, may also restrict rights -Revenue dependent on partner interest, likely a percentage of land or easement value -Environmental protection -Continuation of hunting/hiking access - No/little risk of operations interference	2 -Legal and recording costs -Lack of long-term protection strategy and susceptibility to future CRW removal	2/2 = 1	2
Scenario 3 – Fee simple sale of property	CRW relinquishes surface rights; could consider retaining mineral rights	Transferred to potential buyer; highly variable based on land management of buyer	One-time payment at approximately \$800- 2500/acre <sup>ly</sup>	1 -One-time payment -CRW may retain oil/gas/mineral/timber rights and price would reflect any restriction	2 -CRW relinquishes ownership and corresponding land use decisions, including public access -CRW likely to absorb some pre-acquisition costs, such as legal fees, although burden should be on buyer	1/2 = 0.5	3
Scenario 4 - Conservation Easement	CRW retains ownership; retires land development rights	CRW retains management responsibility; third party easement holder with enforcement authority	Ongoing timber and carbon offset potential in addition to the one-time easement payment at approximately \$1,000/acre for the full 8,000 acres*  Alternatively, a donated easement could be considered, but obviously does not provide a revenue stream	-CRW ownership with extinguishment of development rights -CRW may retain oil/gas/mineral/timber rights, may also restrict -Ongoing revenue potential coupled with one-time easement payment -Environmental protection, with third party enforcement -Enrollment in TNC Working Woodland Program -Continuation of hunting/hiking access -Social/public perception benefits - No/little risk of operations interference -Multiple partners involved and subsequent transparency and accountability	1 -CRW relinquishes land development rights -CRW likely to absorb some pre-acquisition costs, such as legal fees, although burden primarily on partner -Stewardship plan costs	3/1 = 3	1