



THE ROOSEVELT WATER STORY


BOROUGH OF ROOSEVELT ENVIRONMENTAL COMMISSION

COMPLETED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR SUSTAINABLE JERSEY'S WATER
STORY ACTION

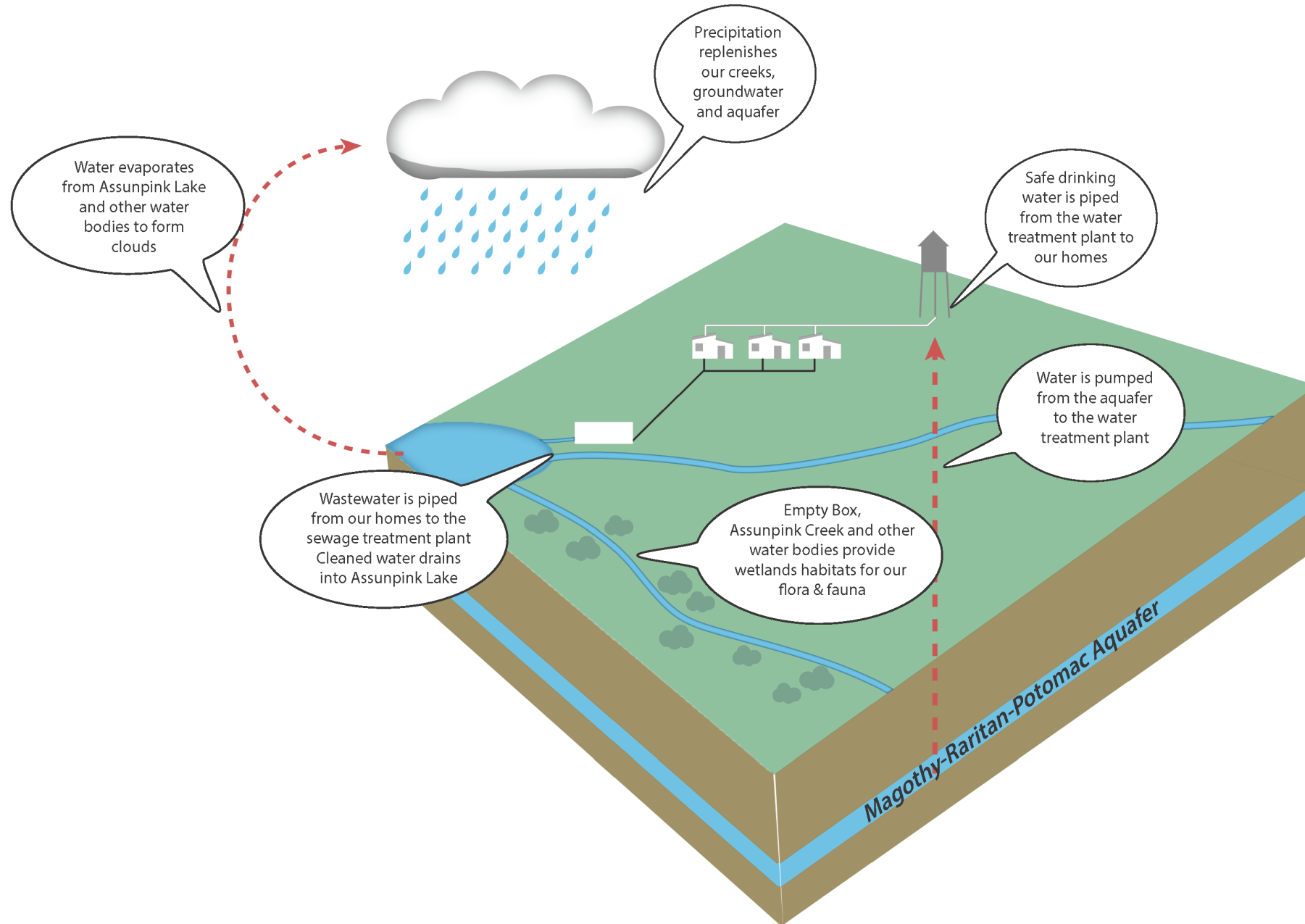




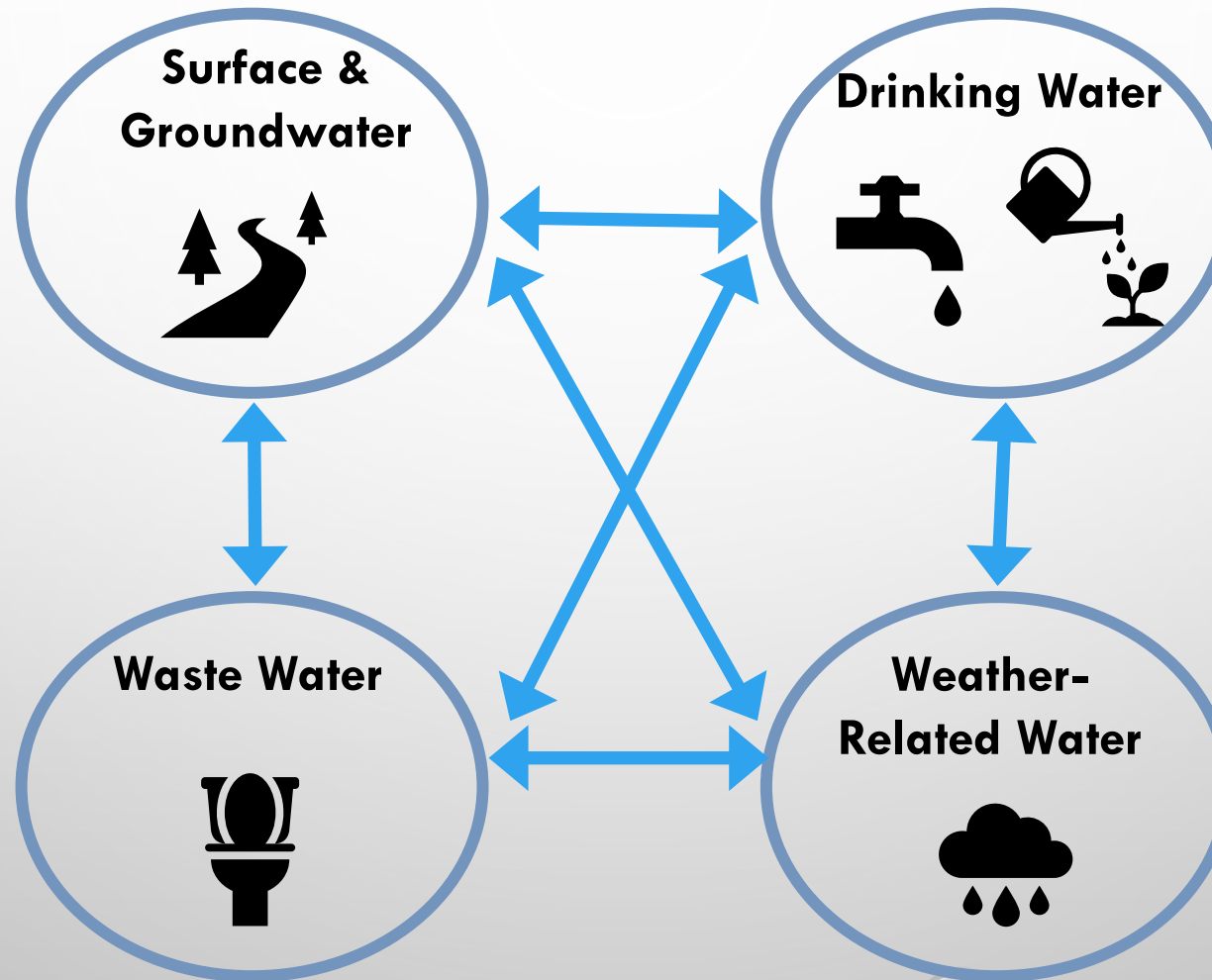
WHY DO WE NEED TO KNOW ABOUT ROOSEVELT'S WATER?

- So we can take sustainable, environmentally friendly actions that best accommodate our continually changing surface water and stormwater.
 - So we have a comprehensive understanding of our drinking and wastewater systems, including the fiscal, environmental, and public health impacts that result from current and future decisions made by the municipality.
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The Roosevelt Borough Water Story Cycle

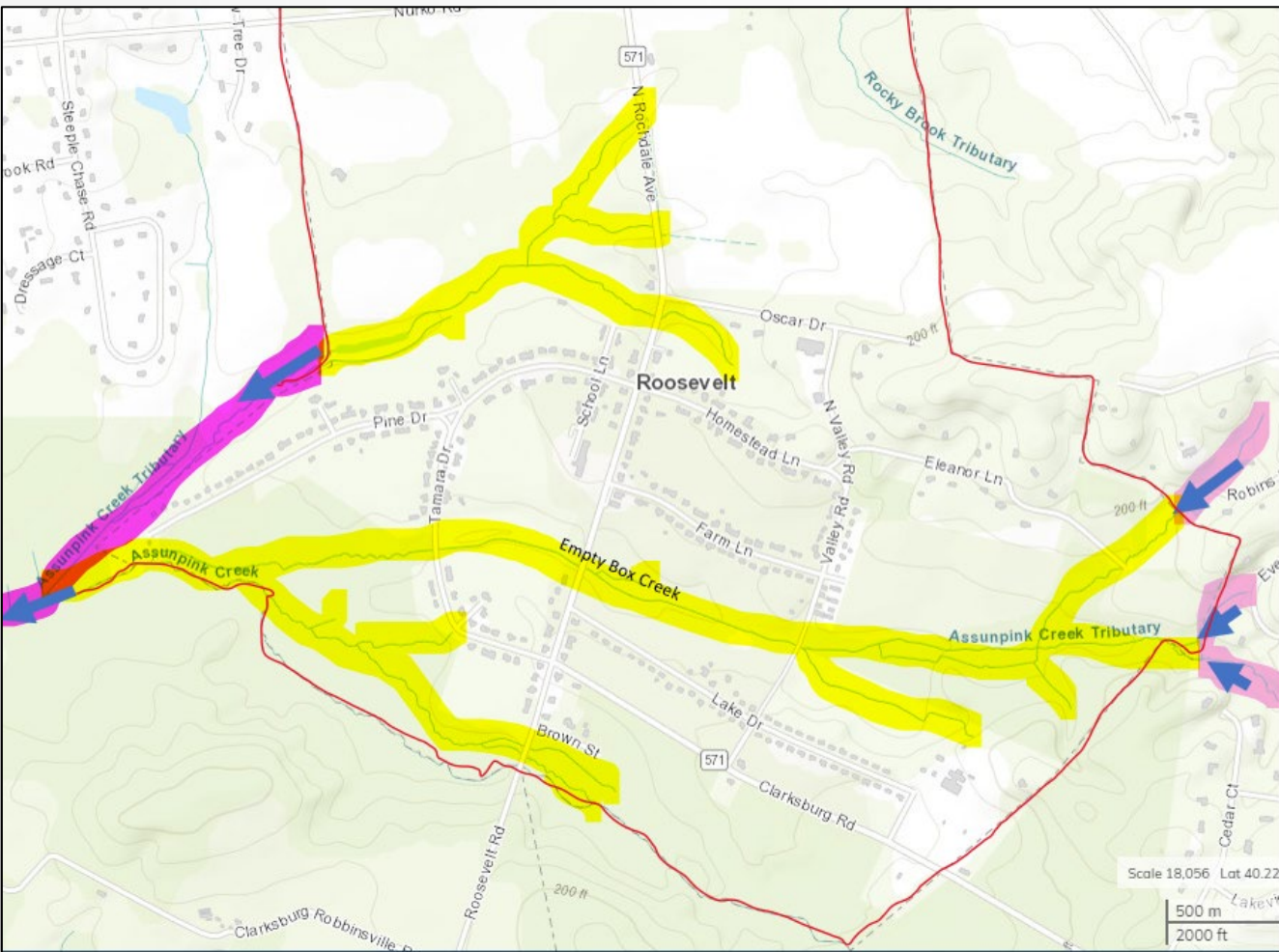


WE'RE TALKING ALL ASPECTS OF ROOSEVELT'S WATER

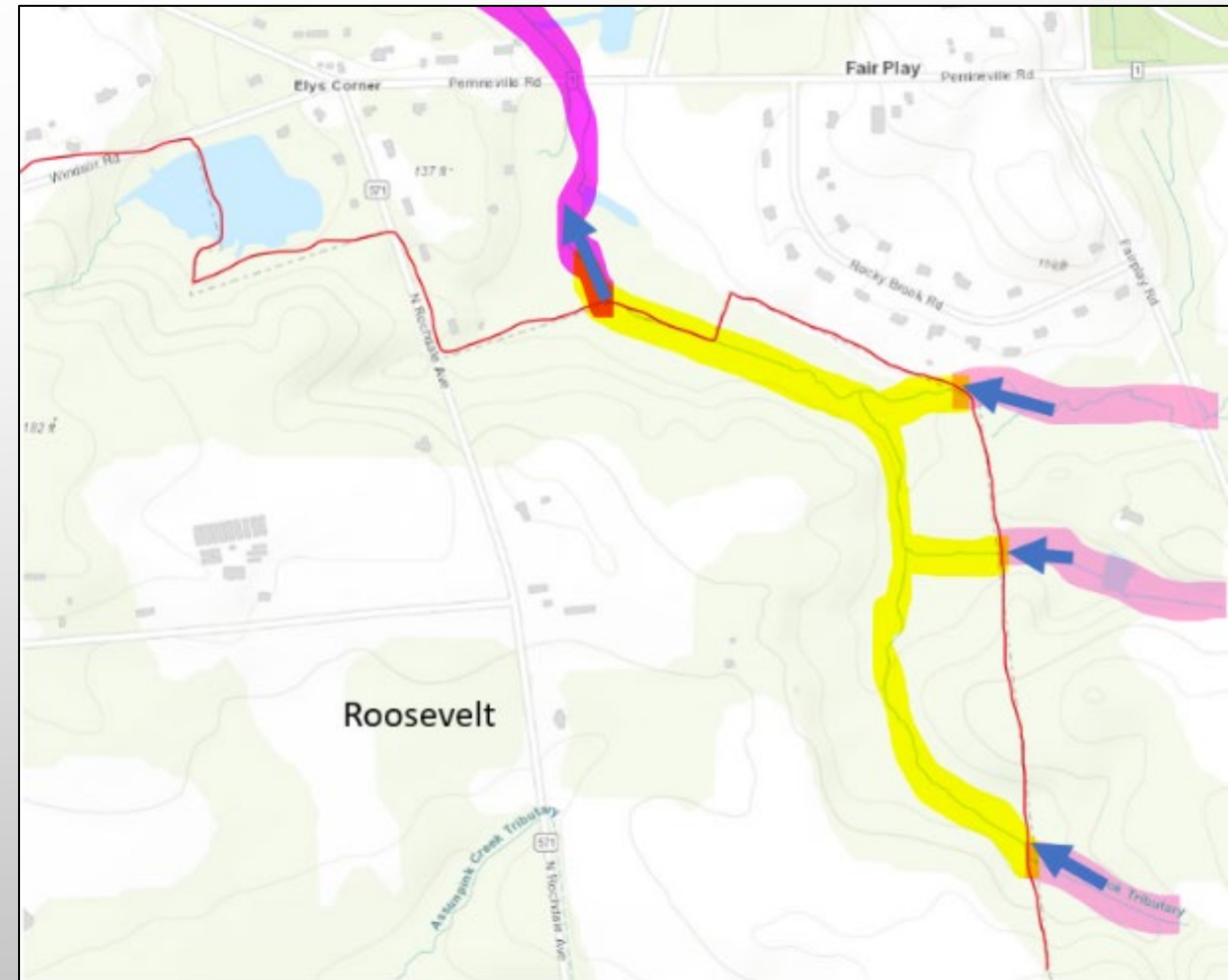


SURFACE WATER: CREEKS

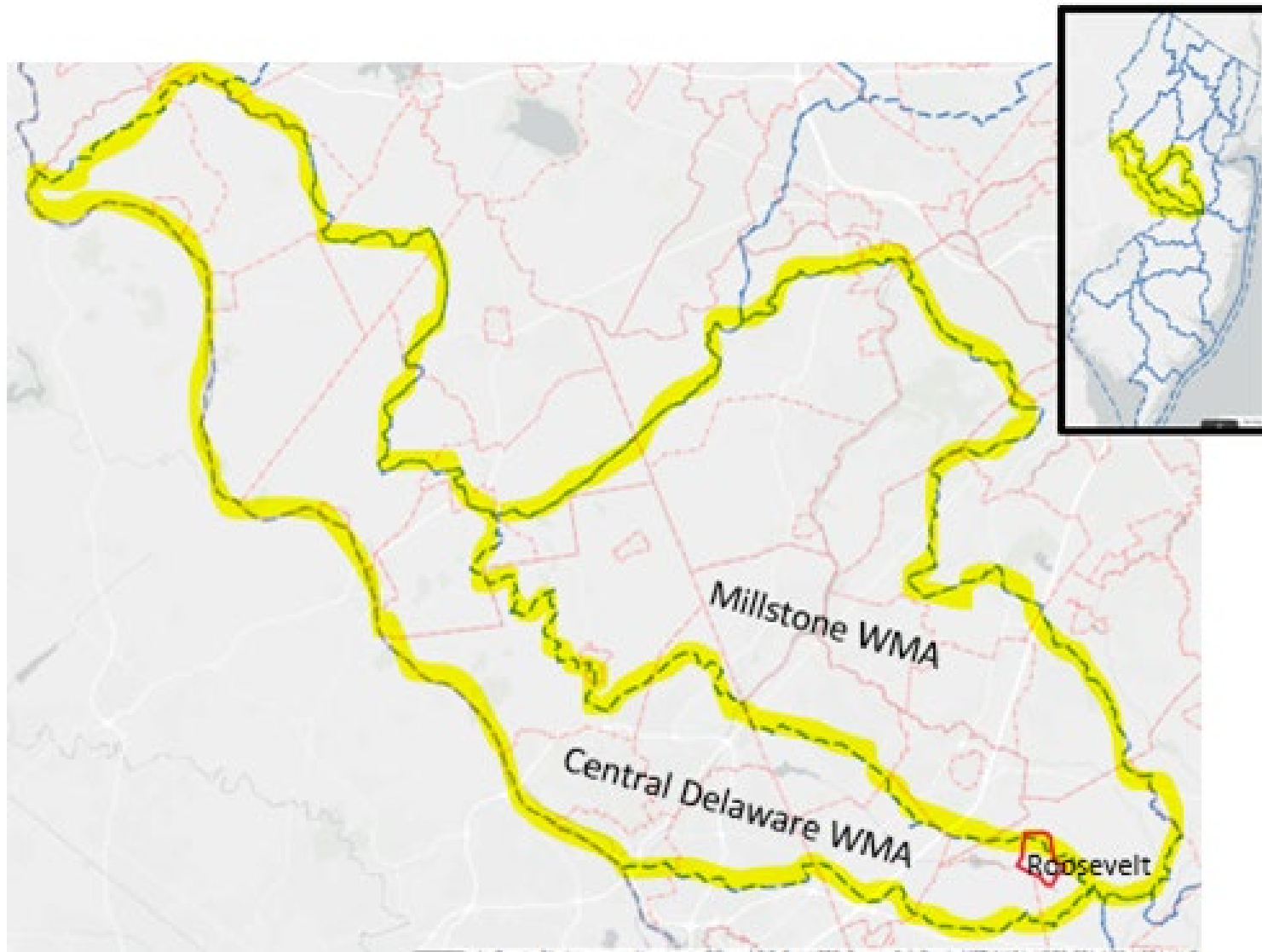
Assunpink/Empty Box



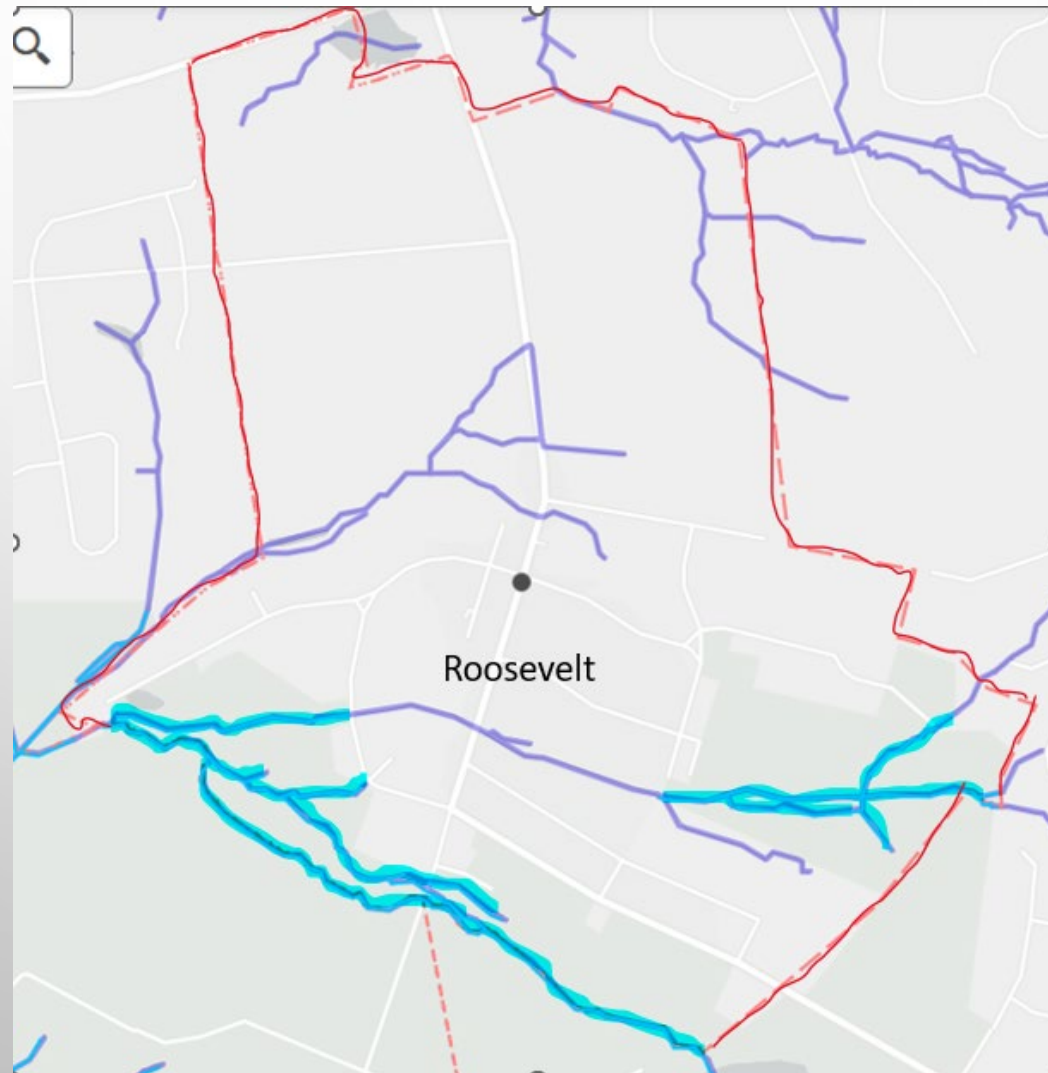
Rocky Brook



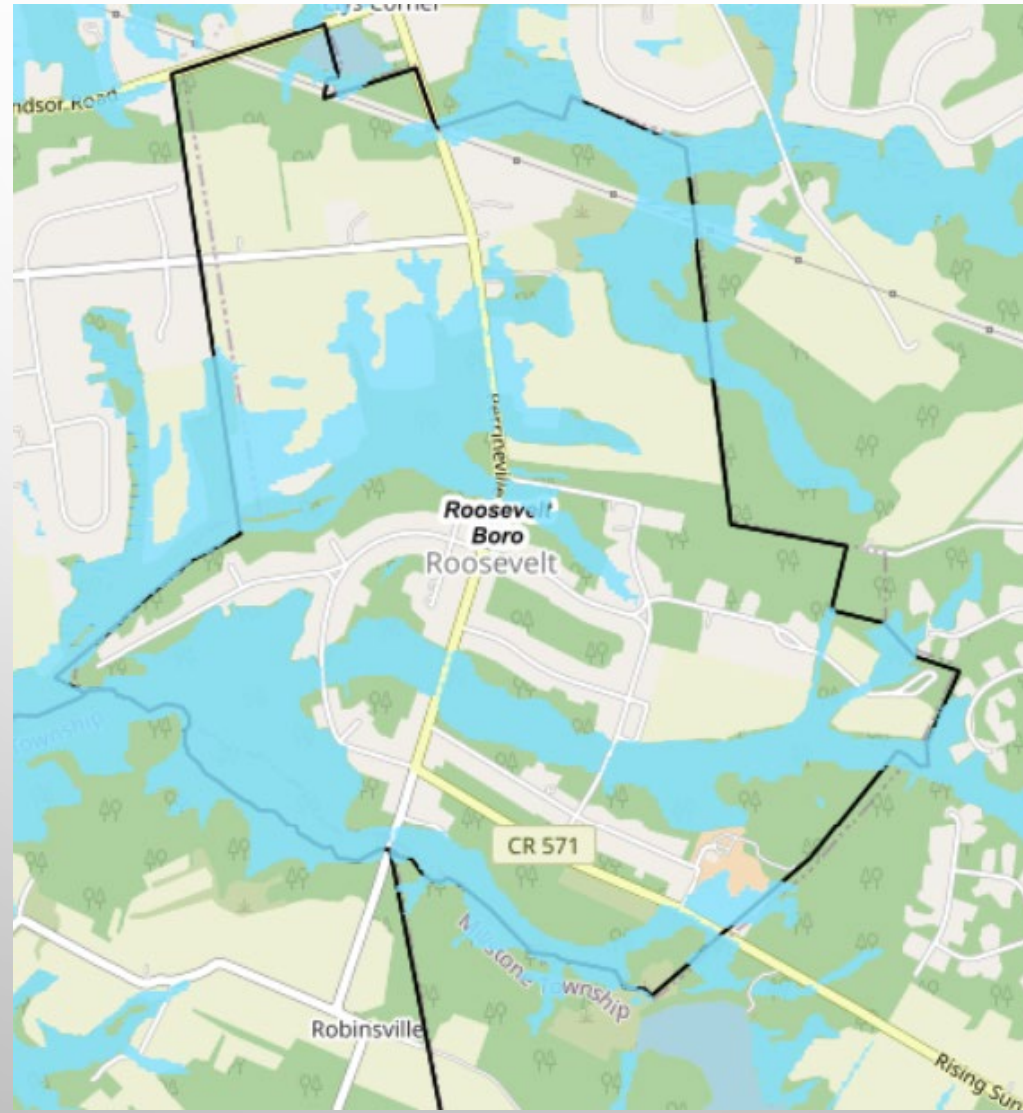
SURFACE WATER: FEEDING WATERSHEDS



SURFACE WATER: CREATING HABITAT FOR FLORA & FAUNA WITH FW2-NT CREEKS



SURFACE WATER: CREATING HABITAT FOR FLORA & FAUNA WITH WETLANDS



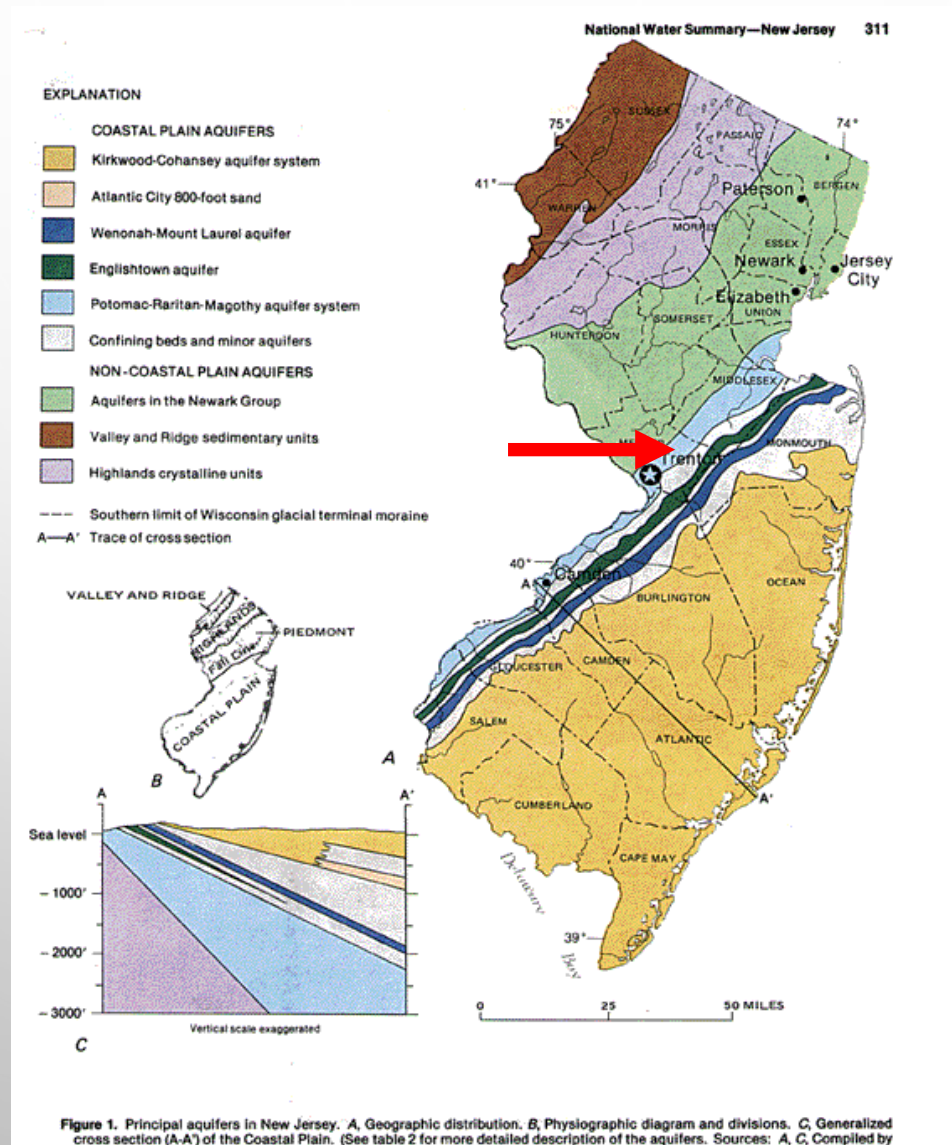
SURFACE WATER: MONITORING HEALTHY HABITAT FOR FLORA & FAUNA

Chemical/Physical Parameters	Score
Water Temperature	Excellent
Nitrate Average	Excellent
Phosphate Average	Poor
Ph Average	Poor
Turbidity Average	Fair
Dissolved Oxygen	Excellent

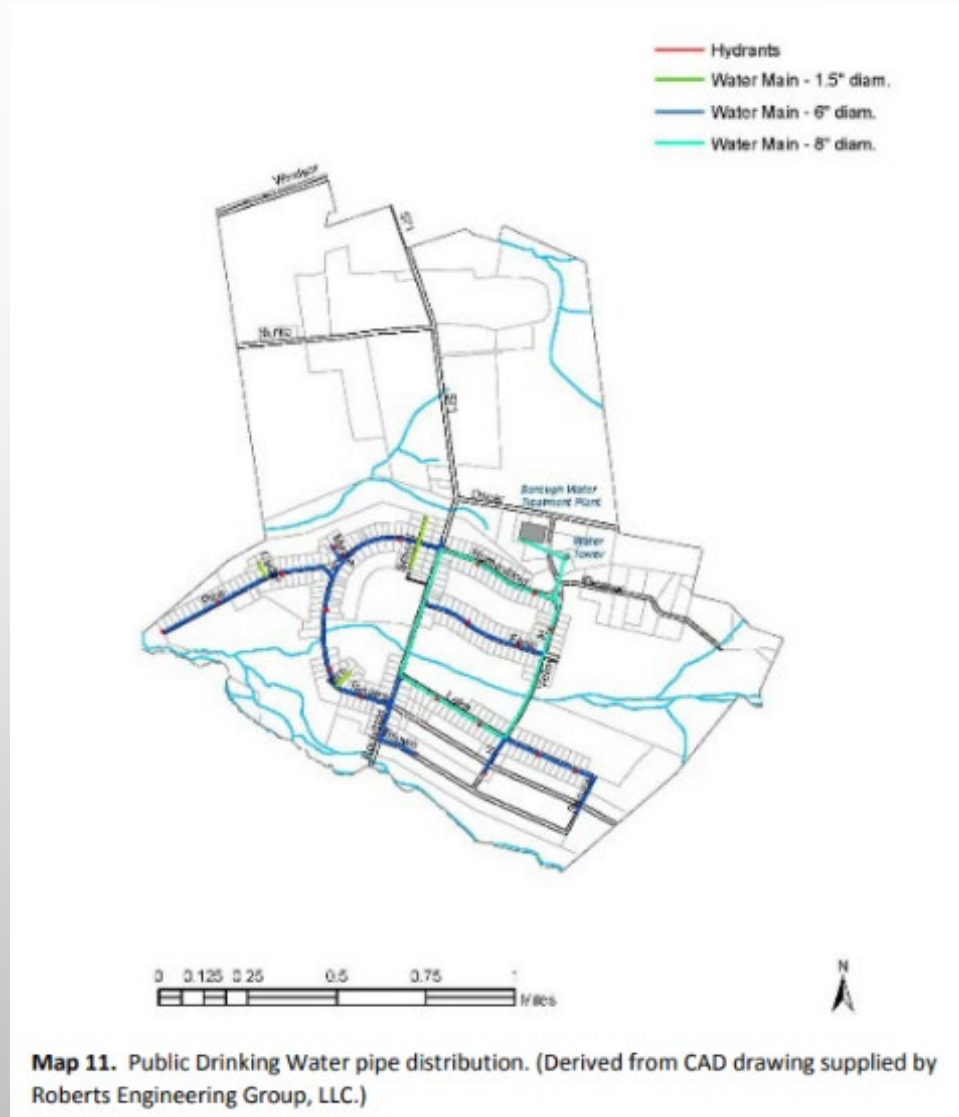
SURFACE WATER: GOOD FOR HUMANS



DRINKING WATER: WHERE DOES IT COME FROM?



DRINKING WATER: ROOSEVELT WATER TREATMENT UTILITY



DRINKING WATER: MONITORING POTABLE WATER FOR BOROUGH RESIDENTS

TEST RESULTS						
Contaminant	Violation Y/N	Level Detected	Units of Measurement	MC LG	MCL	Likely Source of Contamination
Inorganic Contaminants:						
Barium Test results Yr. 2021	N	0.027	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Copper Test results Yr. 2022 Result at 90 th Percentile	N	0.25 No samples exceeded the action level	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits
Lead Test results Yr. 2022 Result at 90 th Percentile	N	ND No samples exceeded the action level	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Nitrate (as Nitrogen) Test results Yr. 2022	N	0.7	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Disinfection Byproducts:						
THM Total Trihalomethanes Test results Yr. 2022	N	Range = 5 Highest detect = 5	ppb	N/A	80	By-product of drinking water disinfection
HAA5 Haloacetic Acids Test results Yr. 2022	N	Range = 1 - 2 Highest detect = 2	ppb	N/A	60	By-product of drinking water disinfection
Regulated Disinfectants		Level Detected		MRDL		MRDLG
Chlorine Test results Yr. 2022		Range = 0.2 – 1.2 ppm Average = 0.7 ppm		4.0 ppm		4.0 ppm


Chlorine: Water additive used to control microbes.

WASTEWATER: ROOSEVELT SEWAGE FACILITIES

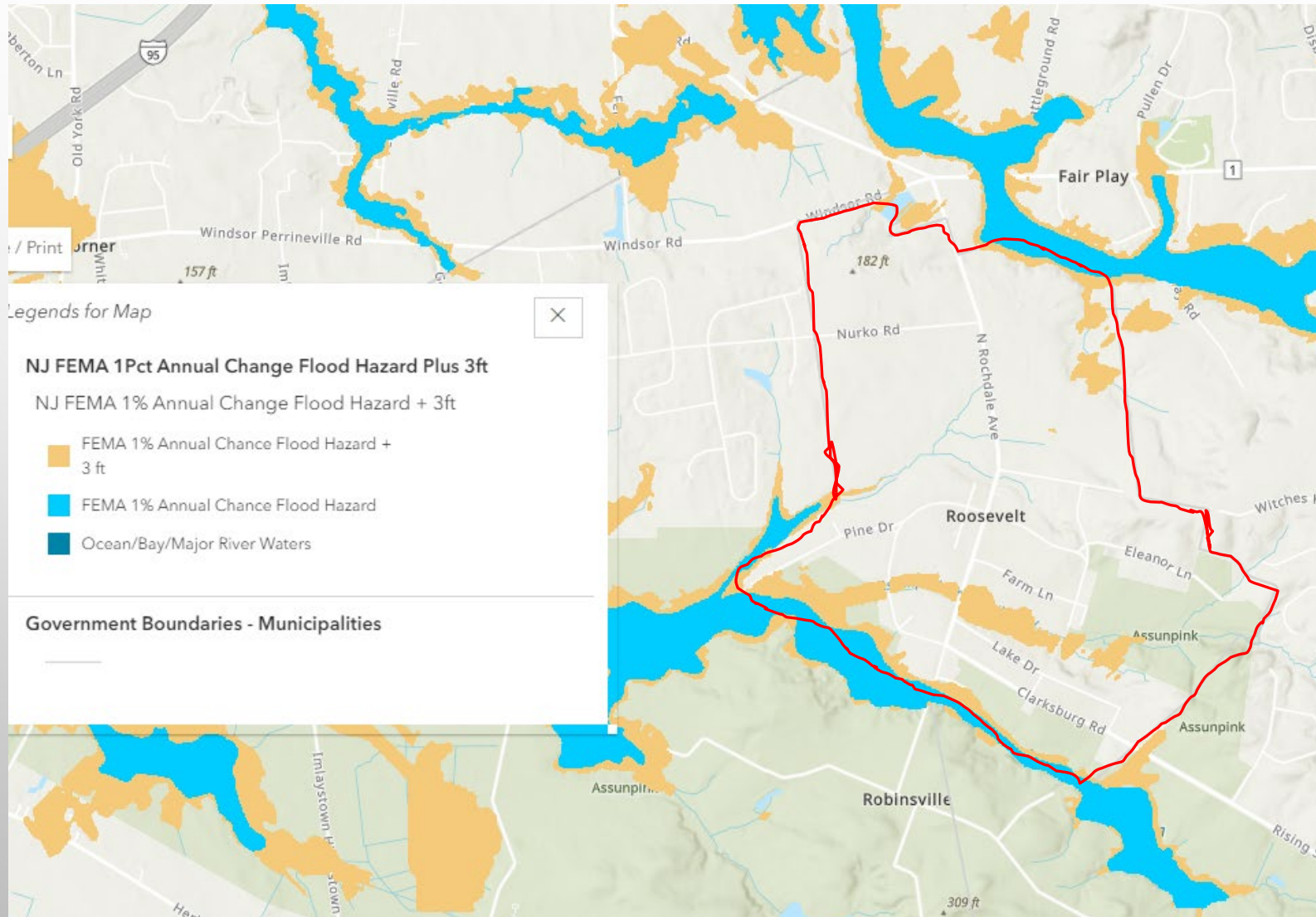




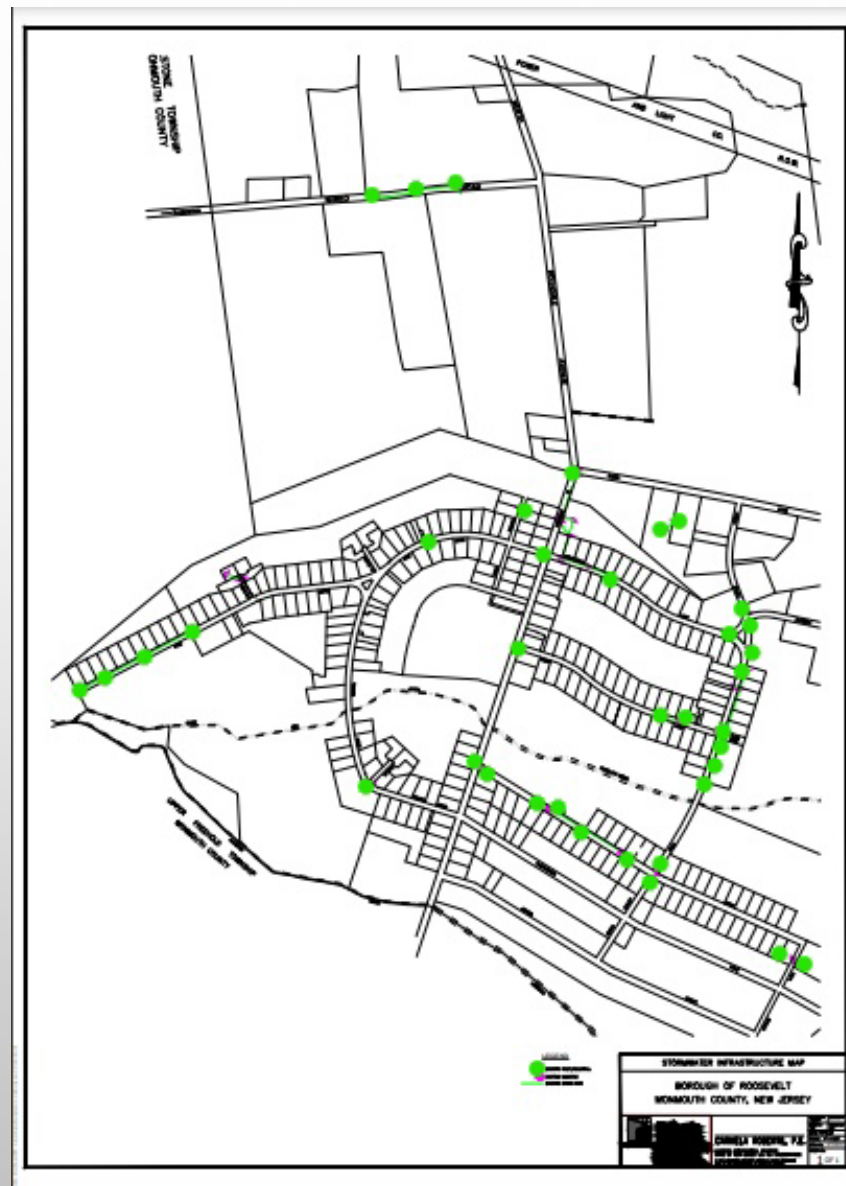
PRIVATE WELLS AND SEPTIC SYSTEMS

- Eleanor Lane: 12 residences
 - North Valley Road: 3 residences
 - Nurko Road (within Roosevelt borders): 4 residences
 - North Rochdale Avenue: 4 residences/farms
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WEATHER-RELATED WATER: FLOOD WATER



WEATHER-RELATED WATER: STORMWATER



SUMMARY: ROOSEVELT BOROUGH WATER ...

comes from:

- Creeks & ground water seepage from uphill Millstone
- Rain & snow
- Aquifer system

is wanted for:

- Drinking water pumped from aquifers by treatment plant & private wells
- Gardening
- Recreation
- Wetlands habitat for flora & fauna

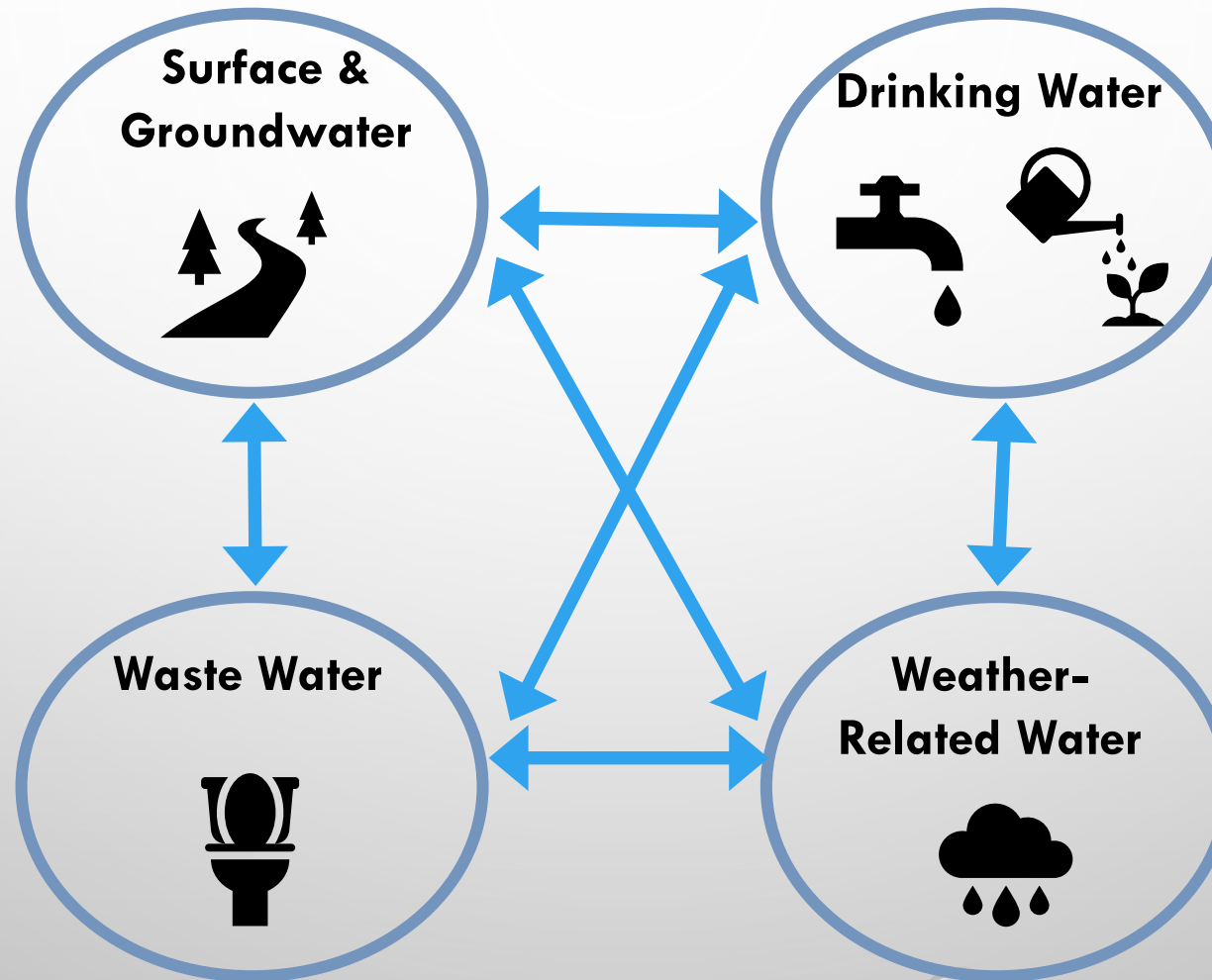
is not wanted for:

- Flooding roads & infrastructure (here & downstream)
- Turning forests along our streams into swamps

goes out as:


- Creeks that flow to Delaware (via Assunpink Lake) & Raritan (via Peddie Lake) Rivers – carrying whatever we've let wash into them
- Wastewater from sewage treatment that seeps into Assunpink Lake
- Ground water that percolates down into the aquifer

IMPACT OF ALL ASPECTS OF ROOSEVELT'S WATER





YOUR JOB

1. Read the Roosevelt Water Story: rooseveltnj.us/images/EC/EC-documents/Roosevelt-Water-Story-2023.pdf
 2. Identify which issues you think are important and how they should be prioritized
 3. Send an email with all comments/feedback to environmental@rooseveltnj.us
 4. Get involved!
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QUESTIONS? COMMENTS? FEEDBACK?

environmental@rooseveltnj.us

