

# **SEA-LEVEL RISE IMPACTS ON GROUNDWATER LEVELS:**

A VULNERABILITY AND PLANNING STUDY IN DURHAM, NH

KYLE PIMENTAL, PRINCIPAL REGIONAL PLANNER, SRPC

# HOW DID WE GET HERE?

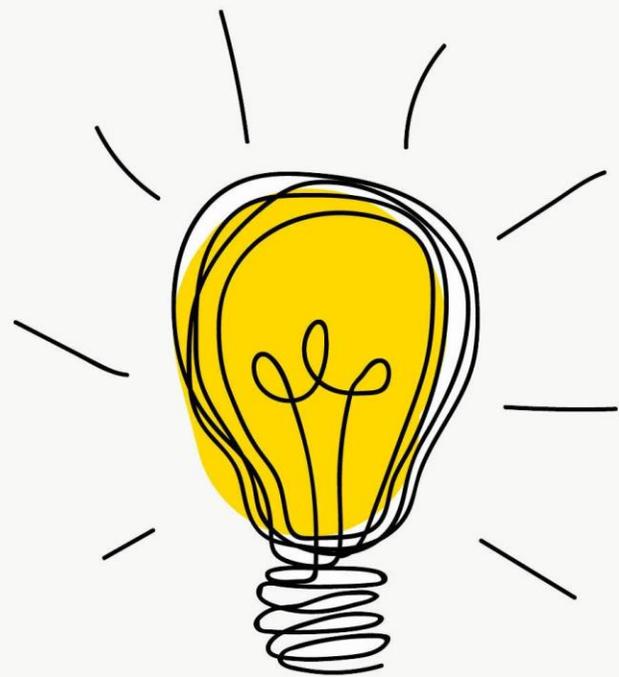


“Everyone you will ever meet knows something you don't...”

- Bill Nye



# TAKING THE FIRST STEP



IDEA

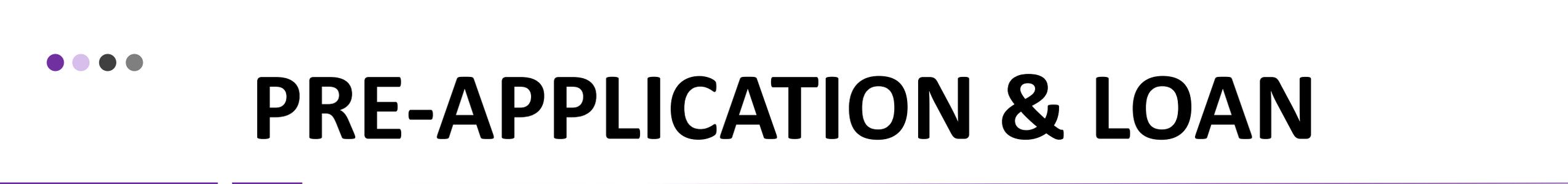




# FUNDING

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- Involvement with CAW was made aware of the Clean Water State Revolving Fund
  - Planning projects would be eligible with a focus on resiliency
  - \$75,000 principal forgiveness
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# PRE-APPLICATION & LOAN

- SRPC prepared much of the application with assistance from UNH and NHDES
- Developed a detailed scope of work and budget
- Submittal in June 2018
- SRPC and Durham worked together to meet all loan application requirements (*completed in Nov. 2019*)



# LESSONS LEARNED

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**P A T I E N T**

**C R E A T I V E**

**R E A D Y**

# SCOPE OF WORK

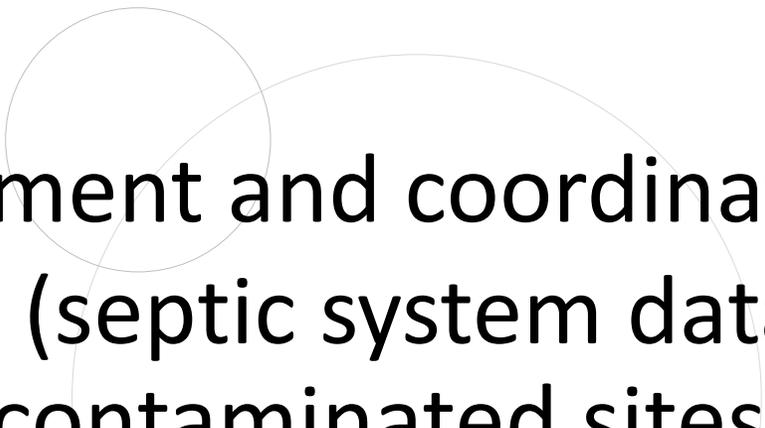
- Determine the vulnerability of...
    - Public/private drinking water supplies
    - Septic systems
    - Contaminated sites
- ...from groundwater rise and saltwater intrusion





# SCOPE OF WORK CONTINUED

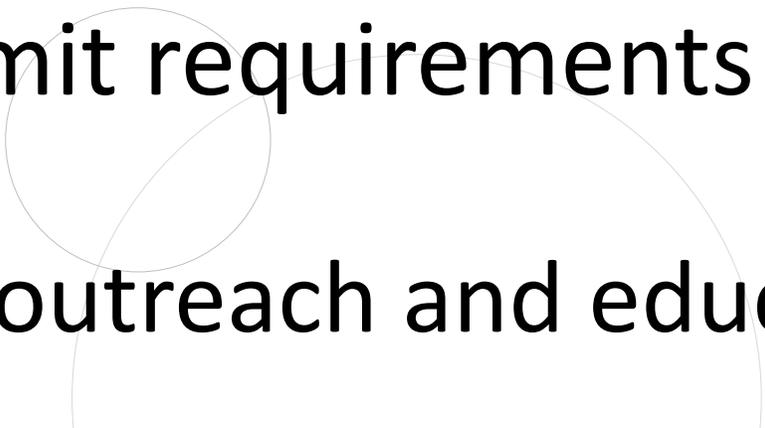
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- UNH and JFK Environmental Services
    - Modeling work
    - Creation of GIS maps
    - Technical report
  - SRPC
    - Project management and coordination
    - Filling data gaps (septic system database, drinking water supplies, contaminated sites, etc.)
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# EXPECTED OUTCOMES

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- Use modeling results and groundwater mapping to...
    - Identify vulnerable areas within the study area
    - Develop a set of recommendations
    - Final report
  - Ensure MS4 permit requirements are considered
  - Provide targeted outreach and education to the community
- 



# THANK YOU

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