# Strategies for Success

## *Wetlands Training Workshop for Consultants*

December 6, 2007

Please Note: This presentation is for a training workshop only and is not meant to be a substitute for the Freshwater Wetlands Act or the *Rules and Regulations Governing the Administration and Enforcement of the Freshwater Wetlands Act*.

# Navigating through the Water Withdrawal Process

Alisa Richardson, PE
Principal Sanitary Engineer
Water Quality Certification

# Why do we have Guidelines for Water Withdrawals?

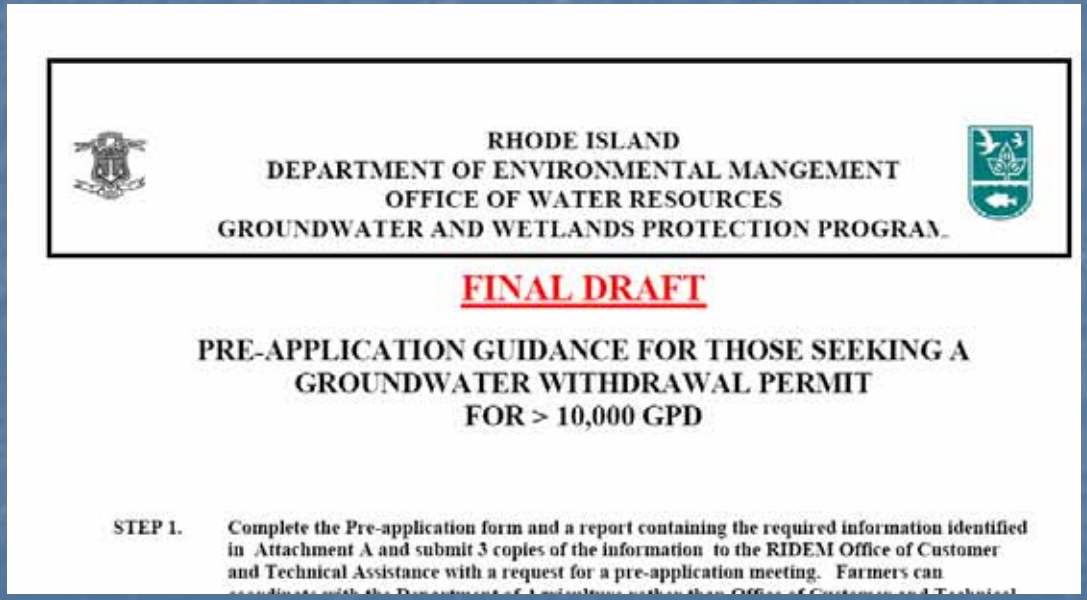
- To protect RI's streams and wetlands

- Water quality
- Wetlands
- Localized resources like wells, small tributaries and
- Recreation

Wetlands photo: Alisa Richardson, Aug 2005

# Who needs to apply?

New or increased withdrawals of 10,000 gpd or greater.



RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANGEMENT
OFFICE OF WATER RESOURCES
GROUNDWATER AND WETLANDS PROTECTION PROGRAM

FINAL DRAFT

PRE-APPLICATION GUIDANCE FOR THOSE SEEKING A GROUNDWATER WITHDRAWAL PERMIT FOR > 10,000 GPD

STEP 1. Complete the Pre-application form and a report containing the required information identified in Attachment A and submit 3 copies of the information to the RIDEM Office of Customer and Technical Assistance with a request for a pre-application meeting. Farmers can

http://www.dem.ri.gov/programs/benviron/water/withdraw/pdf/guidance.pdf

# To whom do I apply?

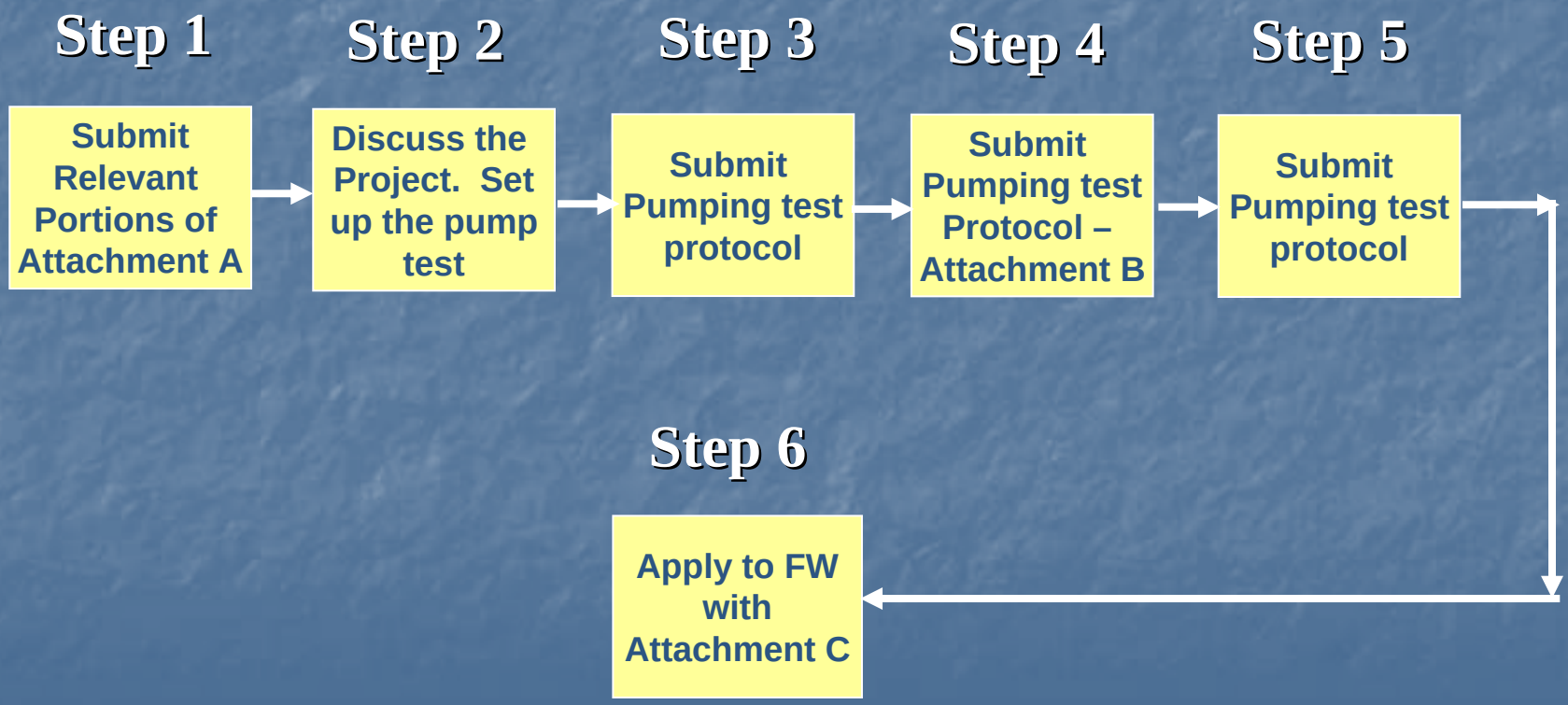
- RIDEM Jurisdiction –
  - Freshwater Wetlands - RULE 5.01 B1)& B2) and WQC RULE 13A.3(b)vii. Wetlands + WQC will coordinate flow alteration responses.
  - Agriculture - Irrigation Withdrawals Coordinated through Dept. of Ag RIDEM
- CRMC Jurisdiction – Apply to CRMC and apply WQC for a flow alteration

# What is in the Guidelines?

A Pre-Application **Process** for Withdrawals greater than 10,000 gpd. To best navigate through the permitting process we are asking for:

1. Complete Attachment A - submit
2. Schedule a Pre-app meeting with RIDEM to discuss the project and pumping test requirements
3. Submit pumping test proposal – follow Attachment B
4. Conduct pump test
5. Submit report to FW and schedule another meeting discuss requirements for wetlands application
6. Apply to FW with Attachment C guidance

# Process for those who prefer the visual



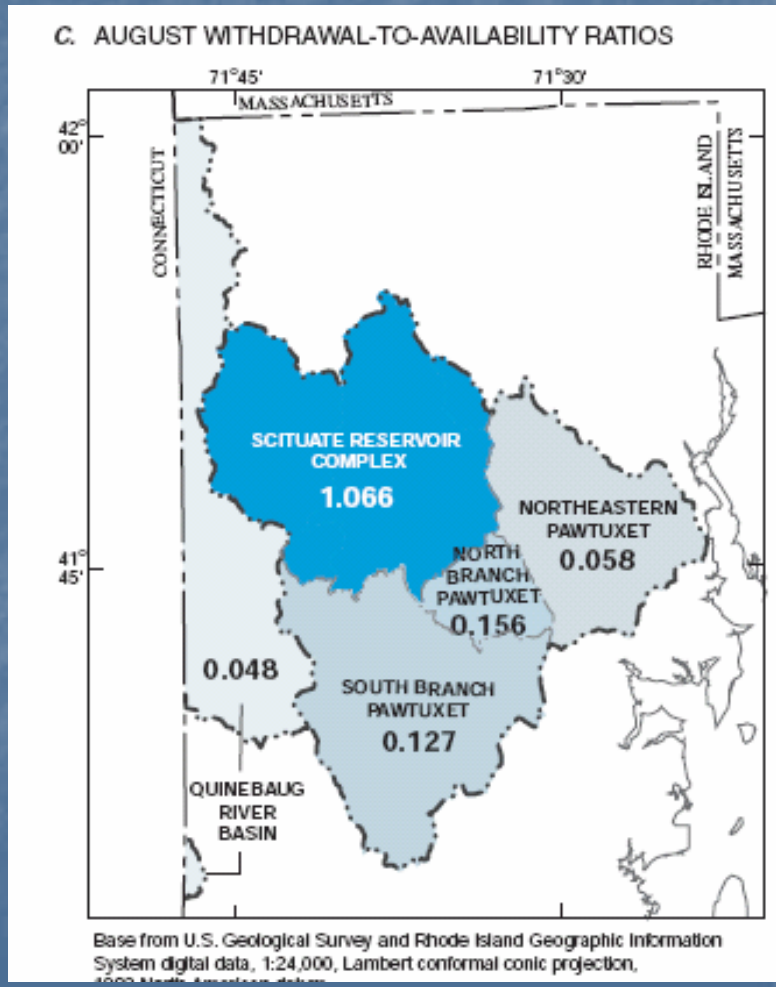
# Successful Project Managers

- Choose good locations for withdrawals (i.e. larger rivers, unstressed watersheds)
- Design projects so that water can be returned to the watersheds
- Use good stewardship of water in the project (i.e. rain cisterns, stormwater infiltration, wastewater reuse, use of constructed ponds for irrigation, etc...)
- Think about how the project can be flexible in the summer when demands are the highest (i.e. SCADA irrigation, shutoffs during drought conditions
- Be careful of RIPDES needs - Wastewater dischargers need 7Q10 in order to maintain proper dilution

# Application References
## Water Availability Studies

- http://pubs.usgs.gov
- http://pubs.usgs.gov/sir/2006/5154/pdf/sir20065154.pdf

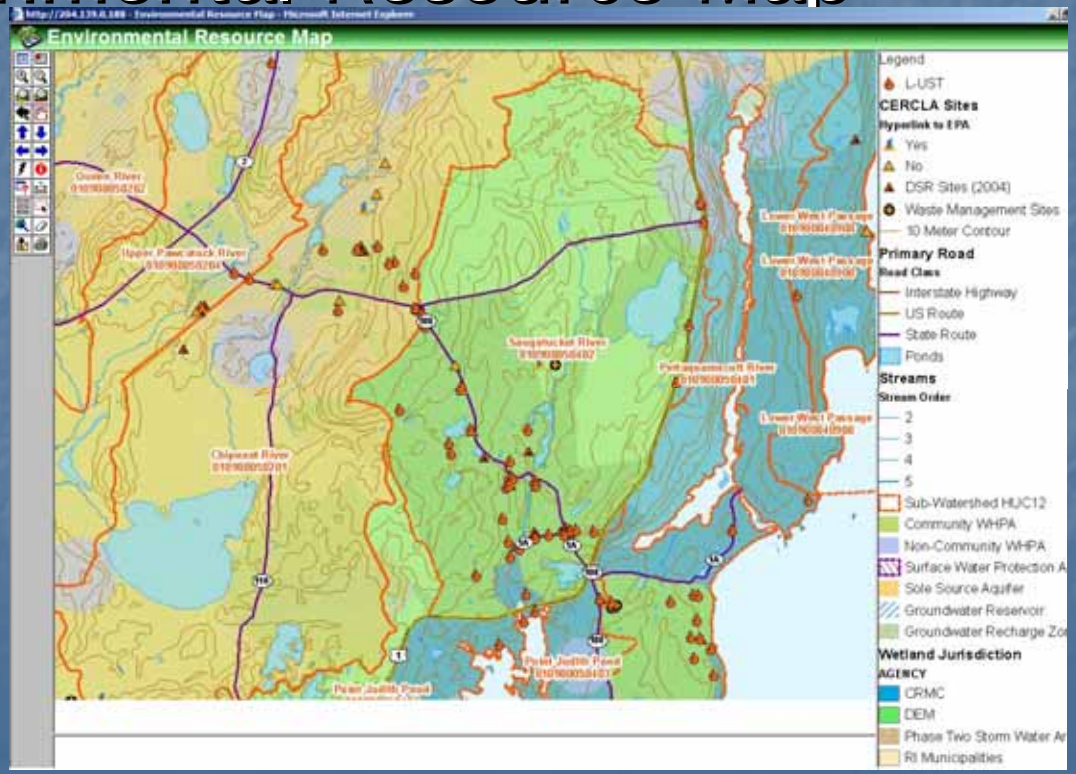
- As a general rule - Ratios > .2 is of concern from a streamflow perspective. There are definitely exceptions.



# RIDEM Internet Map Server

- http://www.dem.ri.gov/maps/index.htm

Environmental Resource Map



# Application References

- Streamstats (coming soon to a computer near you)

- Any Questions – Call me

  Alisa Richardson

  401-222-4700 x7232

  RIDEM – Water Quality Certification