

# **Life In the Balance**

## **Water Symposium 2010**

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Concord Water and Sewer Division Superintendant

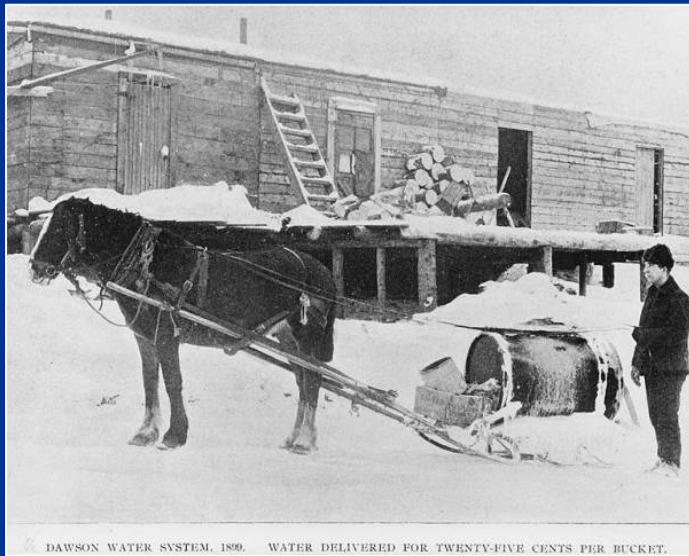
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Environmental and Regulatory Coordinator

November 5, 2010

# Ten Success that Shaped the 20<sup>th</sup> Century American City

- # 1 – Provision of Pure Water and Effective Sewage Treatment



# Concord Water System In the Beginning

- *1872: Legislation Filed: Town Meeting Approves*
  - *Authority to create public water system*
  - *Permission to take and hold waters of Sandy Pond*



# 1874: Installation of Water Mains:



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# 2009: Concord's Water System

## Water System

- ◆ 130 Miles of Water Main
- ◆ 1262 Hydrants
- ◆ 2491 feet new water main
- ◆ 1908 feet replaced or rehabilitated water main
- ◆ 6 Ground Water Wells
- ◆ 1 Surface Water Supply

# Town of Concord Massachusetts

## PWS #3067000

June 2010

### Water Main by size

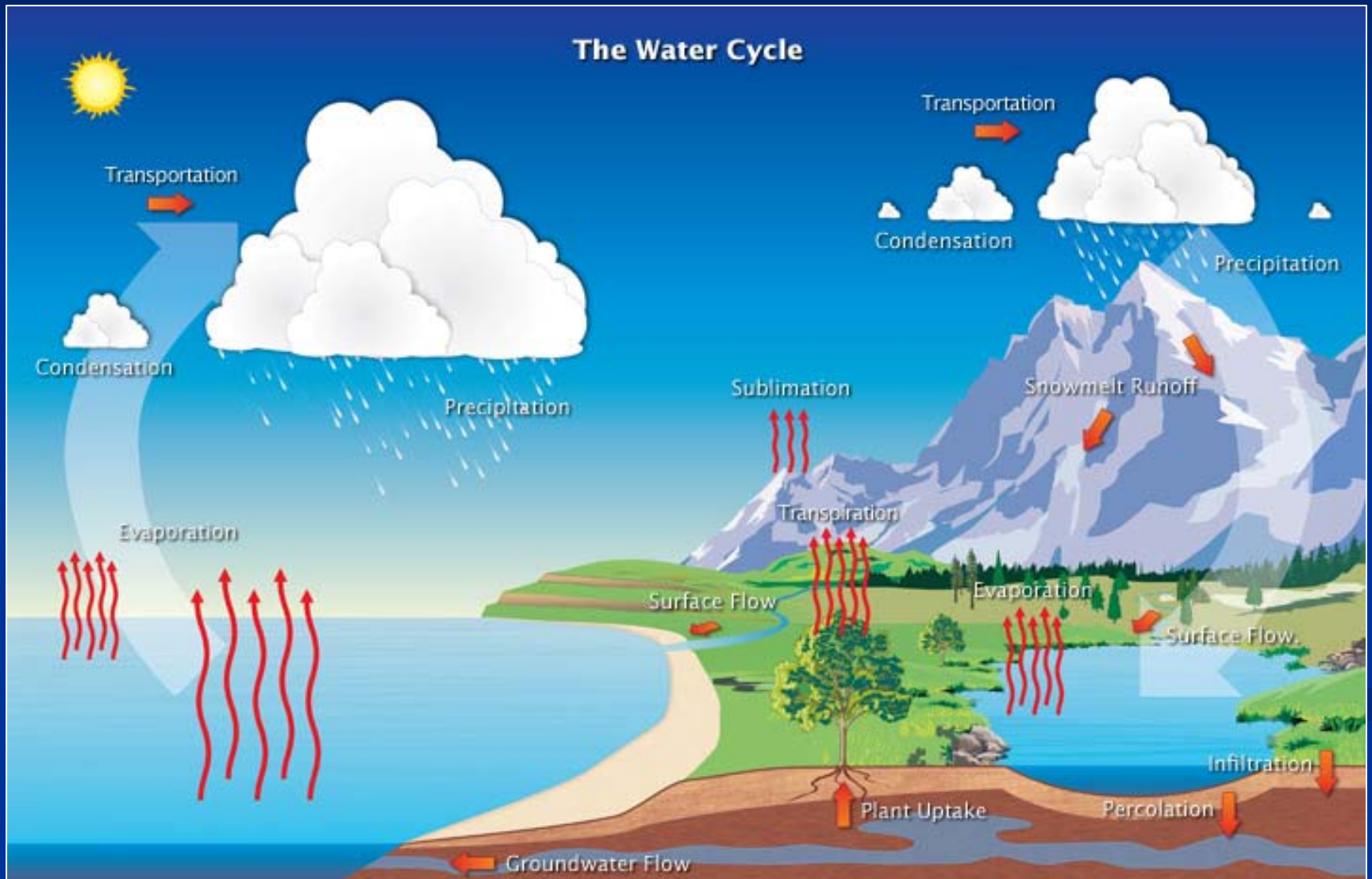
- 1 in
- 2 in
- 4 in
- 6 in
- 8 in
- 10 in
- 12 in
- 16 in
- Unknown

- Water Supply Facilities
- ▲ Storage Facilities
- Gate Valves
- Fire Hydrants
- Non-Fire Hydrants
- ★ Sample Taps
- Rivers & Ponds

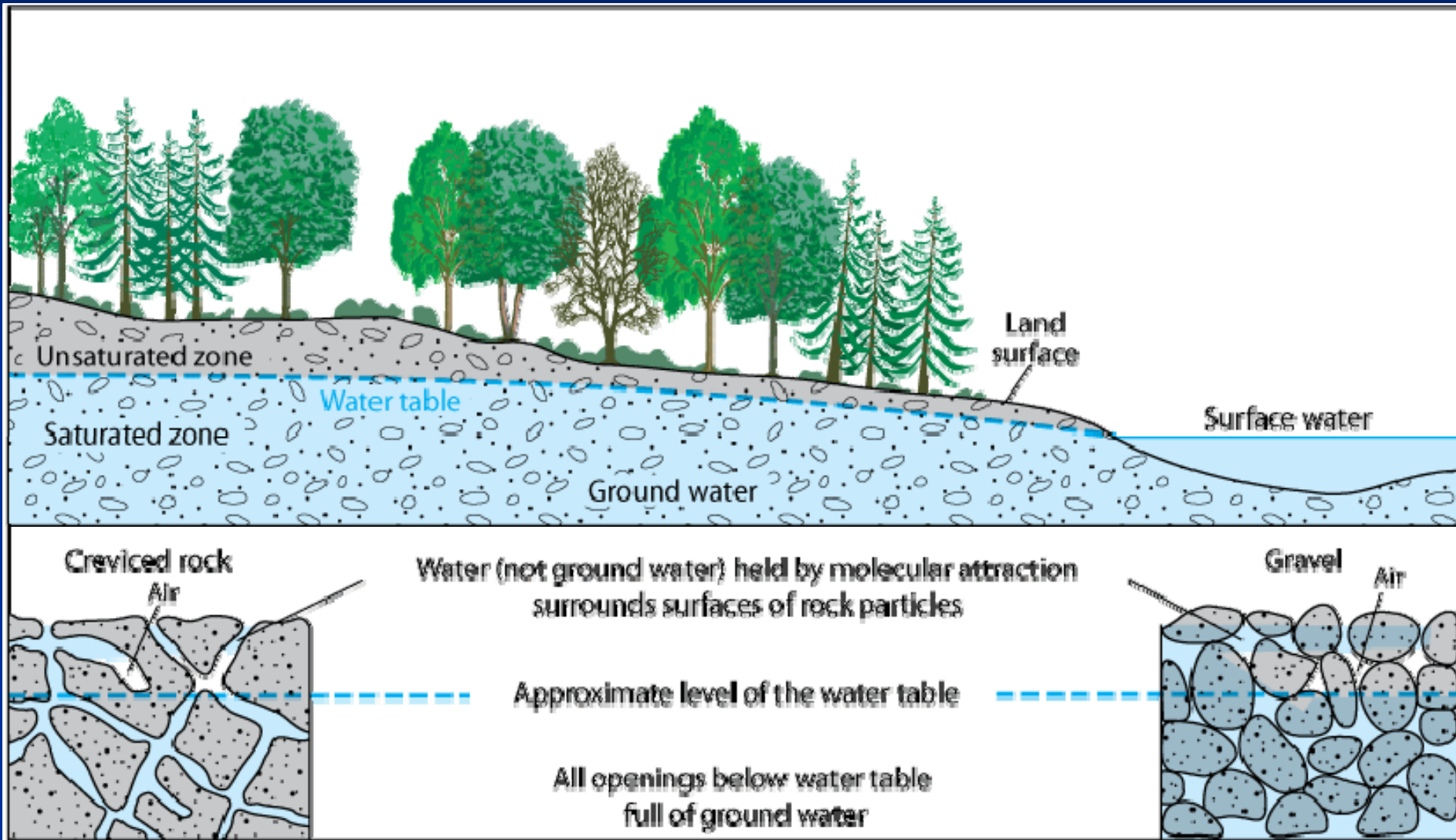


0 0.5 1 2 Miles

# The Water Cycle



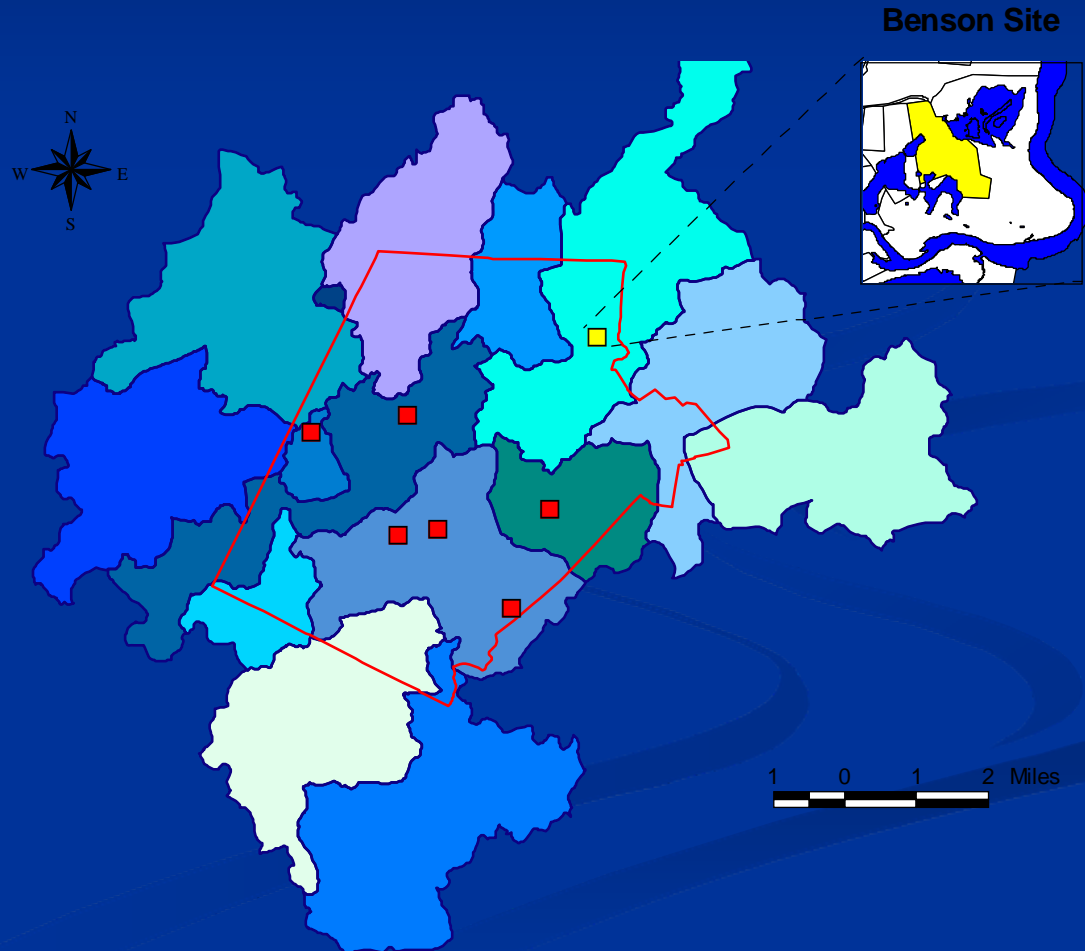
# Groundwater





# Water Supply Land Acquisition Exploration Recommendation's

- Environmental
- Hydrogeology
- Land-Use
- Regulatory Approval
- Availability of Property
- Cost (Known vs Unknown)



# Water Resources

