



South Miami-Dade Rock Mining

May 4, 2010

Anthony Waterhouse, P.E.

Deputy Department Director, Environmental Resource Regulation

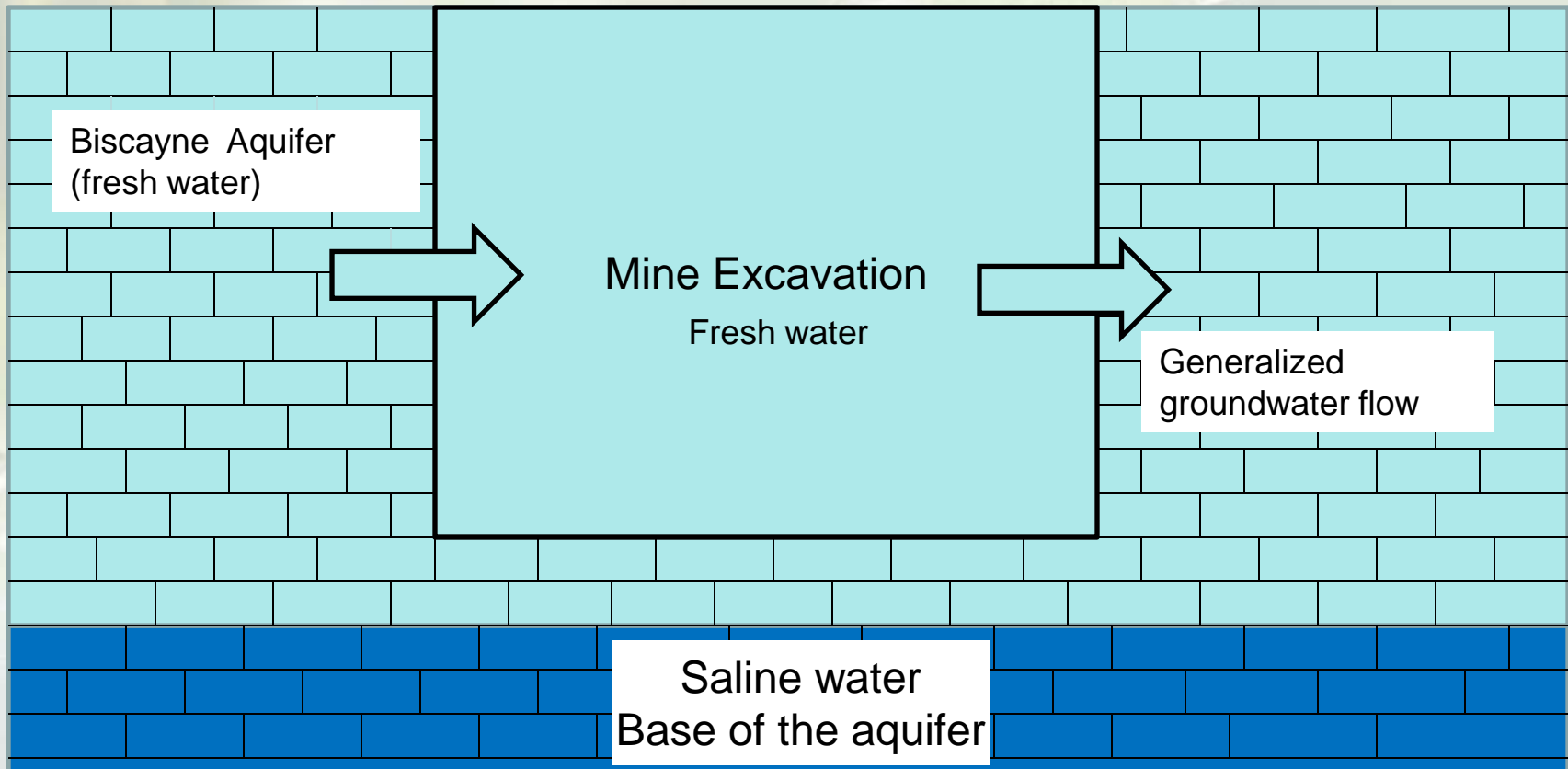
Protecting against saltwater intrusion

- Regulatory agencies have authority to require assurances that mines won't cause saltwater intrusion
- Specific criteria for south Miami-Dade would be helpful for agencies and permittees
- Effort to produce uniform guidelines among agencies is needed

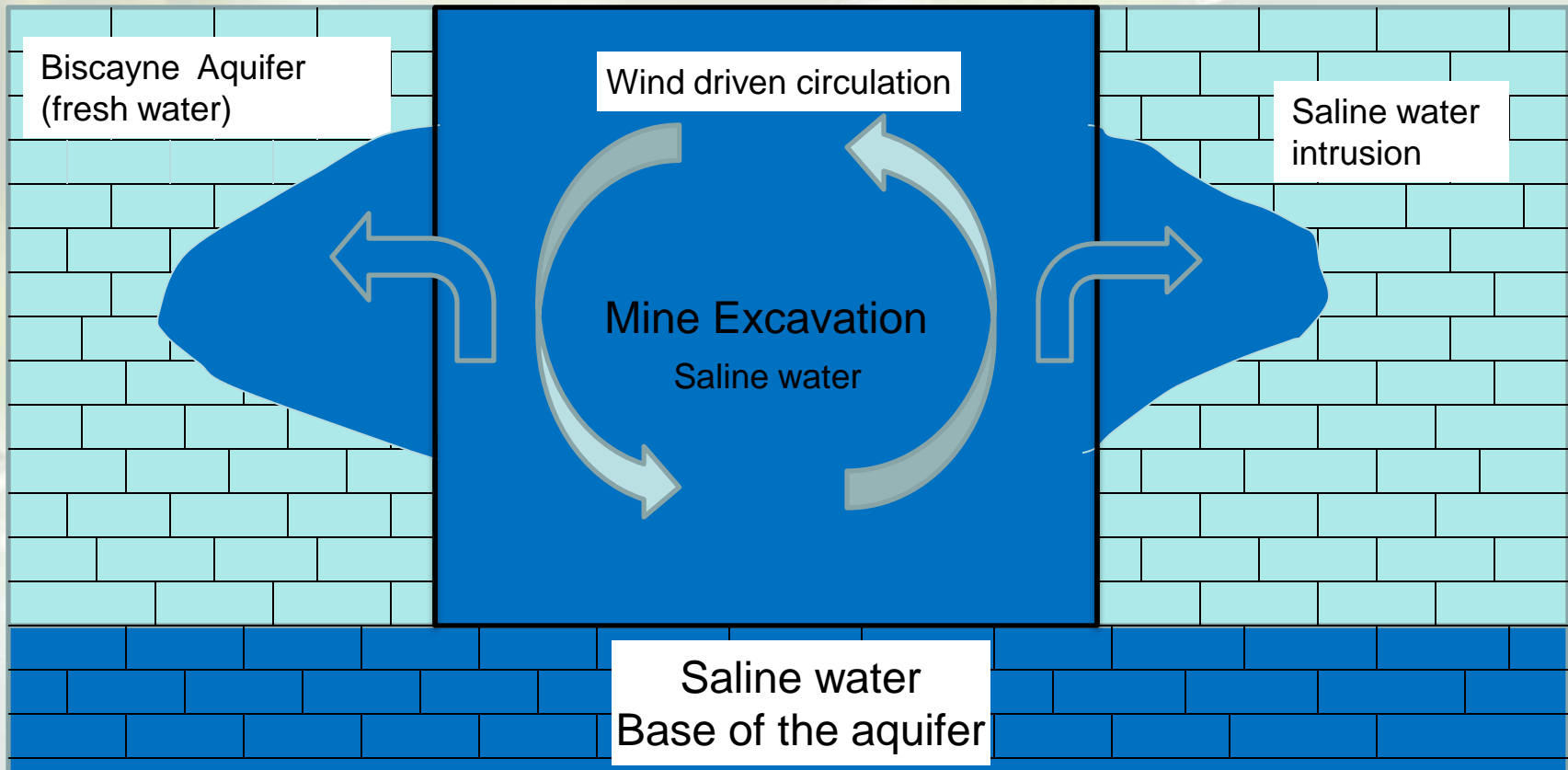
Rock Mining in South Dade Area



Mine Depth Above Saltwater



Mine Excavation into Saline Water Zone



South Dade Rock Mining

- Mining activities authorized by other agencies;
 - Department of Environmental Protection
 - Corps of Engineers
 - Miami-Dade County

South Dade Rock Mining

- Atlantic Civil mining application
- Existing permitted mine seeking authorization to increase depth of excavation
- In the process of gathering data to support decisions
- Geologic information; lithology, chloride levels, saltwater front location, monitoring wells
- Data collected in the past 2-3 years provides better picture of resource issues

Conceptual Regulatory Approach

- Identify location and depth to saltwater interface
 - 250 mg/l dissolved chloride concentration
 - USGS inland extent maps as aids
- Applicant provides site specific data regarding depth to 250 mg/l beneath project site
 - If no saltwater occurs beneath project site, applicant produces data regarding lateral distance to nearest occurrence
- Depth of excavation based on establishing a vertical/lateral buffer distance between saltwater source
 - Continuous monitoring requirements imposed



Questions?