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NS MAYPORT
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RESTORATION ADVISORY BOARD MEETING AGENDA AND SLIDES 20 JUNE 1995 NS
MAYPORT FL
7/20/1995
RESTORATION ADVISORY BOARD

AGENDA

RAB Orientation Meeting

July 20, 1995, 6:30 p.m.

- ▶ Welcome Cheryl Mitchell

- ▶ Presentation
"Hydrogeology" Frank Lesesne

- ▶ Refresher Overview of the
General Information Report Frank Lesesne

- ▶ Signing the NAVSTA Mayport RAB Charter NAVSTA Mayport RAB Members

- ▶ Overview of the
RFA/SV Report Peggy Layne

- ▶ Organizing the Availability Session NAVSTA Mayport RAB Members

- ▶ General Discussion NAVSTA Mayport RAB Members
 - Location and date of next four RAB meetings
 - Other Topics

An Introduction to
Basic Hydrogeology

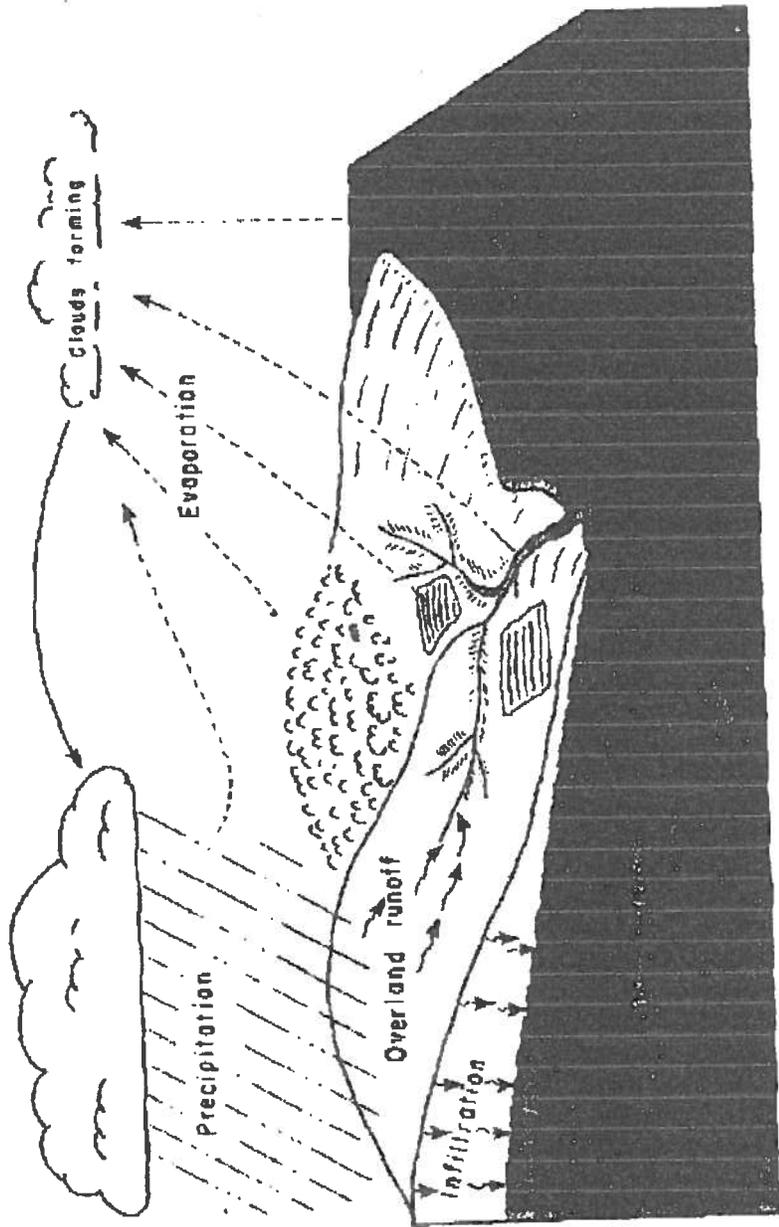
Frank Lesesne, PG
ABB Environmental Services, Inc.

July 20, 1995

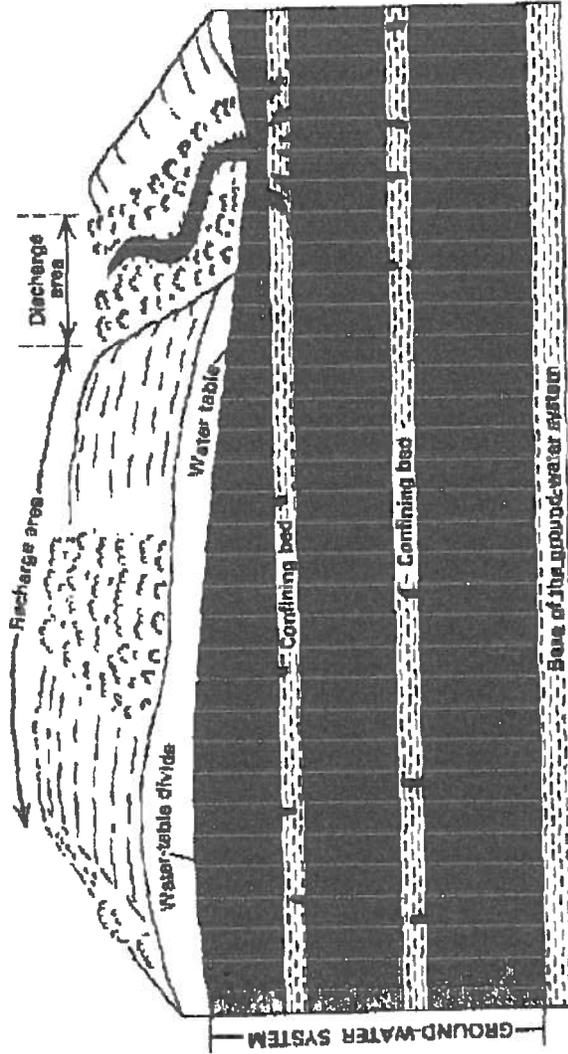
What is Groundwater?

- Groundwater occurs beneath the Earth's surface
- Groundwater fills spaces in soils and openings in rocks

How Does Groundwater Form?



How does Groundwater Move?



How does Groundwater Move?

- Groundwater moves from recharge to discharge areas
- Groundwater movement is controlled by:
 - soil type
 - hydraulic conductivity
 - hydraulic gradient

Things We Need to Know about the Groundwater:

- Are there any contaminants in the water?
- What type of material (soil or rock) does it move through?
- How deep is the groundwater?
- What is the direction of groundwater flow?
- How fast is the flow of groundwater?

What Tools are Used to Study Groundwater?

- Install monitoring wells and piezometers
- Collect soil and groundwater samples
- Perform chemical analyses
- Compare analytical results with regulatory standards and background concentrations

What Do We Know about Groundwater at Mayport? (cont.)

- Groundwater in shallow aquifer is between 2 and 12 feet below ground surface.
- Water moves at a relatively fast rate through shallow aquifer