

# Explore a River and Two Lakes *Handout*

Part 2 of 4 in the "Exploring the Watershed Atlas" Series

**INSTRUCTIONS:** Go to the website: [www.Hillsborough.WaterAtlas.org](http://www.Hillsborough.WaterAtlas.org)

1. Go to The ATLAS. Read the information on the water body pages, and then go to Watershed Name > Anclote River Watershed.
  - a. Look for the section "Find a Specific Water body". Enter the names below.
  - b. Explore the lakes associated with this watershed and pick the two with the most data. Enter each lake and fill in the table below.

		<i>Lake 1</i>	<i>Lake 2</i>
	<b><i>Name of Water body</i></b>		
General Info	Latitude: Degrees, Minutes, Seconds		
	Longitude: Degrees, Minutes, Seconds		
	Surface Area in Acres		
	Volume in Gallons, Approximate		
	Latest Water Level in Feet		
	Historic Water Level in Feet		
	Trophic State Index		
Water Quality	Limiting Nutrient		
	Total Nitrogen		
	Phosphorus		
	Chlorophyll		

2. Go to Water Quality > Trophic State Index > Learn more about Trophic State Index. Read the selection.
3. Go to Water Quality > Nutrient Chemistry > Learn more about Nutrient Chemistry. Read the selection.
4. Examine the table you completed on these two lakes. Explain the importance of the information you have gathered about Trophic State Index and Nutrient Chemistry to your water bodies. Compare the two lakes.

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Name:

Date:

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5. Complete the table below.

		<b>Lake 1</b>	<b>Lake 2</b>
		<b>Lake Hiawatha</b>	<b>Lake Osceola</b>
Hydrology Tab	Water Level, Latest Value (Date)		
	Water Level, Historic Range		
	Data has been recorded since the year:		

6. Examine the hydrology data from both lakes. Compare the changes in water level for the two lakes during the same period of time.

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7. Click on the Ecology Tab > List of Plant Species. Complete the table below.

		<b>Lake 1</b>	<b>Lake 2</b>
		<b>Lake Hiawatha</b>	<b>Lake Osceola</b>
Ecology Tab	List Three Exotic Plants Found in the Latest Survey.		
	Number of Plant Species		
	Number of Exotic (Not Native) Species		
	Percent of Exotic Plant Species		

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8. Read about the exotic plants under the Links for More Information. Look at the pictures of the plants. What is an exotic plant and why are they a concern?

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9. Click on History & Recreation. At some sites there are oral histories. Both of these lakes have oral histories. Pick one and read it. What did you learn about the Lake?

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10. Open Photos for both lakes. How can more photos be added to the lake sites?

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