

San Dieguito Academy
 San Elijo Lagoon Data Record
 Encinitas, California

Name of Observer _____

Date _____ Time _____

DATA:

Water Temp. _____ °C	Surface Density 1. _____ g/cm ³	Surface Salinity 0/00 _____	Phosphorus _____	Dissolved O ₂
Nitrogen	Turbidity _____	pH _____	BOD	

BIOLOGICAL DATA:					
<u>Birds</u> <i>Species</i>	<i>Number</i>	<u>Birds (Cont.)</u> <i>Species</i>	<i>Number</i>	<u>Animals cont.</u> <i>Species</i>	<i>Number</i>
		<u>Other Animals</u> <i>Species</i>	<i>Number</i>	<u>Algae/Plant</u> <i>Species</i>	<i>Number</i>

SEE REVERSE SIDE

Data:

Location	pH	Temp	Salinity	Density	Nitrogen	Phosphorus	Turbidity	D.O.	B.O.D.

Diagrams:

- 1) Sketch the path taken on this fieldtrip. Write the names of the different organisms in the correct location on your map of San Elijo.
- 2) Sketch three different birds. Are they resident birds or are they migratory birds? Describe their behavior.
- 3) Sketch three different plants. Write the scientific name and common name. Uses of this plant? Anything specific in regards to its phase in its lifecycle?

Questions:

- 1) What role does the San Elijo Lagoon serve for the environment? Explain.
- 2) What actions have been taken in order to preserve the functional role of the lagoon?
- 3) What is a point vs. a nonpoint source of pollution? How is this relevant to the San Elijo Lagoon?
- 4) What three factors must be taken into account when determining the harmfulness of a pollutant.
- 5) In terms of the testing you performed on the abiotic factors of the lagoon, what can you conclude? pH, DO, N₂, P, salinity, turbidity....
- 6) In terms of the testing you performed on the abiotic factors in the other locations, what can you conclude? pH, DO, N₂, P, salinity, turbidity....
- 7) Explain some negative effects of urbanization on San Elijo Lagoon.
- 8) Predict how your observations would be different if you visited SEL 2-3 months later.
- 9) Reflect on your experience. Likes? Dislikes? What did you learn?

Diagrams:

- 1) Sketch the path taken on this fieldtrip. Write the names of the different organisms in the correct location on your map of San Elijo.
- 2) Sketch three different birds. Are they resident birds or are they migratory birds? Describe their behavior and role they play in the ecosystem.
- 3) Sketch three different plants. Write the common name. Uses of this plant? Anything specific in regards to its phase in its lifecycle?

Questions:

- 1) What role does the San Elijo Lagoon serve for the environment? Explain.
- 2) What actions have been taken in order to preserve the functional role of the lagoon?
- 3) What is a point vs. a nonpoint source of pollution? How is this relevant to the San Elijo Lagoon?
- 4) What three factors must be taken into account when determining the harmfulness of a pollutant.
- 5) In terms of the testing you performed on the abiotic factors of the lagoon, what can you conclude? pH, DO, N₂, P, salinity, turbidity....use your data to support your answers. *****
- 6) **Explain** some negative effects of urbanization on San Elijo Lagoon.
- 7) Predict how your observations would be different if you visited SEL 2-3 months later.
- 8) Reflect on your experience. Likes? Dislikes? What did you learn?