Field Trip to the Tijuana Estuary

Name		
Section		

Take 5 South to Coronado Avenue and turn to the right (headed West). Go to 3rd Avenue and turn left. Go to Caspian Way and take another left. You should now see the State Park sign. (619)-575-3614. The Tijuana Estuary Visitor Center is open to the general public 5 days per week, Wednesday through Sunday, from 10:00am to 5:00pm. For more information and schedule go to http://trnerr.org/visitors center.html

Reserve hours for trail use: 1/2 hour before sunrise to 1/2 hour after sunset DAILY.

Visitor Center is closed on Thanksgiving, Christmas and New Year's Days,

but trails remain open during daylight hours.

The Tijuana Estuary is a natural drainage for the Tijuana River. The river flows from the mountains of Northern Baja California and empties through a north flowing canyon into the border between the United States and Mexico. It is a unique area, one of the few marshlands that has not been turned into either recreational areas or industry. The Estuary is not without its problems.

During rain storms the Mexican sewage facilities can not keep up the increased flow. Raw sewage from Mexico overflows into the drainage system of the river and hence into the estuary.

The upper end of the marsh is composed of agricultural fields and grazing lands, the middle portion is owned by the Navy and is used for a helicopter landing field.

The lower portion of the marsh is the natural part of the Estuary and the State of California is responsible as a state park.



Figure 1 Lesser Yellowlegs

The Estuary: Describe the eight types of habitats found within the estuary.	Sangaragaan kallis diagagg Sandhar 2 agus Maria an aras na san san san san
1. Salt Panne	
2. Brackish Pond	
3. Riparian	
4. Uplands	The state of the s
5. Salt marsh and Transition	The state of the s
6. River bed and Agriculture	
7. Dunes and Beach	
8. Tidal Channels and Mud Flats	
How do the basically freshwater loving plants survive in a salty	marsh?
What thorny plant growing in this estuary usually will not grow	down by the water?
What plant is considered the "hotel" for many of the creatures the	hat live at the marsh?
What is "Salt Marsh's Bird Beak" and how does it grow?	
Give an example of the types of plants within these five groups	found around the estuary?
1. Salt Marsh Plants	
2. Chaparral Plants	
3. Cactus and succulents	
4. Sand Dune plants	
5. Riparian	
What seaweeds are often found floating in the channels around	the Estuary?
1	

What is an Estuary?	
How many estuary reserves exist in the United States?	
What are the two major environmental problems the Estuary faces every day?	
1	
2	
How does the position of the sand dunes and protect the Estuary?	
What happens to the Estuary during the Winter?	
What are the three reasons the Estuary supports such a rich abundance of wildlife?	
1	
2	
3	
What are the three factors which can cause an animal to become endangered?	
1	
2	
3	
What Estuary insect is known as the "Olympic Sprinter" of the	



Figure 3 Tiger Beetles - mating

sand dunes?

The Ghost shrimp shares its home with what other animal?	
How long does it take the Stripped Shore Crab to grow to its full size?	
How does the Stripped Shore Crab grow with its encasing shell?	
What coloration change occurs during the Stripped Shore Crabs growth?	
	Figure 4 Stripped Shore Crabs
Why does the Snowy Egret and the California Horn Snail adapt so well to to the Skipper?	
Endangered Species	
Name four ways that species in the marsh become endangered: 1	
2	
3	
4.	

What are the causes for the decline of the Savannah Sparrow?	Figure 6 Savannah Sparrow
Fabulous Wetlands with the Science Guy)	
What kind of wetland is the Tijuana Estuary considered to be?	
Name the food chain members of the marsh going from Phytopla	ankton to the Northern Harrier.
1. Phytoplankton	

5. Northern Harrier

Birds



Figure 7 Northern Harrier



Figure 8 Osprey



Figure 9 Great Egret















What are the species of birds you would expect to find year around in the Estuary?

1. _____

2. _____

What are the birds found at the marsh just in the Spring and 1	d Summer?
2	
3	
4	-
What are the birds found at the marsh just in the Fall and \[1 \]	Winter?
2	
3	-
4	-
5	-
6	-
7	
8	
Why is there a difference in the number of birds from Fall	
Name ten species of birds found at the Tijuana Estuary.	-
2	-
3	-
4	-
5	-
6	



Figure 18 Black-bellied Plover