Student Name: Course: **Grade:**

SHORELINE PROCESSES - FIELDTRIP #3 WORKSHEET

	AD ORIGIN OF OUR BEACHES exactly is a beach?
2. What is	s the Oceanside beach sand cell or compartment?
	does the sand on our beaches naturally come from? List the two major sources. and and
	s the most abundant mineral that makes up our beach sand?
5. Sand v	will eventually leave the beach sand cell permanently at the down-drift end of the beach Name the offshore seafloor feature that eats beach sand for breakfast, lunch and dinner
6. Beache The scien 7. The sc	es are actually "rivers of sand" that slowly move parallel to the shoreline over time. Intific term for shore-parallel migration of sand is called the Identific term for the shore-parallel movement of water in the surf that works to carry the sterally along the shore is called the
8. What o	causes a longshore current?
	that? to
10. Longsl	hore current direction agree with the predominant swell direction (angle)?
	rrents present? If yes: Number? Intensity?
13. What	affects might rip currents have on the beach sand?
	L CHANGES TO THE BEACH 's the difference between a beach's "Winter Profile" versus its "Summer Profile"?
vviiat	

"Summer Profile":_____

15. What conditions cause this seasonal change?

BLU	FF ROCK GEOL	_	BILITY: LOCĂL	t now? SOURCE OF BEA rmations making up	
	Rock Form	nation Name	<u>Age</u>	Rock Type	Erodability Factor
Oı	n Top:				
Во	ottom:				
18	. Which rock unit	appears the most	erosion-resistant	(steepest part of ble	uff)?
19	. Which rock unit	appears the most	erosion-prone (ar	ngled part of bluff)?	
a	ppear that the bluf	fs are a significant	source of sand f	or the bluff? or the beach? Yes or observations as	
				TE OF SEA BLUF hat help cause bluf	
a)		b)	c)	d)	
22.	Which process a	above appears to b	e the most affect	tive in causing local	bluff erosion? How?
23	List four (4) proc	esses (natural and	d human-related)	that help reduce/p	revent bluff erosion?
a)		b)	c)	d)	
24.	Which process a	above appears mo	st affective in elin	ninating or reducing	bluff erosion? How?
		/ALL STRUCTUR aterials are used in		of seawalls?	
a)		b)	c)	,	d)
26.	What appears to b	e the seawall's pri	mary intended po	urpose?	
27.	List the two distin	ct types of seawall	s built along here	e. Can you tell the o	difference between them
	a)		b)		
28.	Does it appear tha	at they are doing th	eir job? Explain i	n some depth	

a)	b)							
30. List the three negative effects (direct or indirect) that seawalls have on the beach. In o words, how could seawalls adversely affect the beach sand supply and beach stability								
a)	b)	c)						
31. Estimate the cost to	construct a seawall. \$	to \$	per linear foot					
	op homeowner with a failing blu							
POST TRIP REFLECT	ION:							
	ver on this trip?							
	nost interesting and/or importan							
36. What did you find m	nost difficult or challenging?							
	<u></u>							