

## Zone 7

Shore north  
Total Surveys 10  
Start Point opposite Honey's B&B  
Start Lat/Long  
End Point Central Charters  
End Lat/Long  
Dates Walked 1987-1991, 96, 98, 2000-01  
Spring Surveys 5  
Fall Surveys 5  
First Walked 1987  
Last Walked 2001  
Total Person-Hours 63.25  
Total Trash Bags Collected 8  
Total Estimated Weight of Trash Collected 1

### General Info

Date	25-Apr-87	30-Apr-88	30-Apr-89	2-May-90	28-Apr-91
Start Time		800	1400	1545	900
End Time		1000	1600	1645	1330
Lowest Tide					-2.5
					901

at time

Temperature (F)

Sky

Vertical Zones Walked:

High  
Middle x  
Low

# of Observers	3	1	3	8	4
Hours Spent	1.5	2	2	1	4.5
Person-Hours	4.5	2	6	8	18
Shoreline Walked (miles)	2	4		0.5	1
Total Trip Mileage					
Did Observers . . .					

Hike?	x		x	x	x
Kayak?					
Other (specify)?					

Trash Bags Collected				3	4
Estimated Weight of Collected Trash					

### Wildlife Birds

Loons					
Sea Ducks	124	26			
Other Ducks and Geese					
Bald Eagles					
		Adults	2	3	2
		Immatures			1
		Nests			
Shorebirds	1		1		

Seabirds	36	135	50		12
Crows and Ravens	6	1	2		
Others (see separate Bird list)				18	

***Domestic Mammals***

Cattle					
Horses			4		
Dogs	1		5	1	2
Other					

***Land Mammals***

Moose					
			Adults		
			Calves		
Black Bears					
Brown Bears					
Land/River Otters					
Red Squirrels					
Tracks Identified					
Other					

***Marine Mammals***

Sea Otters					
Harbor Seals					
Steller's Sea Lions					
Harbor Porpoises					
Whales					
			Beluga		
			Orca		
			Minke		
			Humpback		
			Gray		
			Unknown		

Other/Unidentified

***Please note any unusual wildlife sightings*** magpie carcass

**Invertebrates**

*(from the Intertidal Biodiversity Checklist)*

***Please note any interesting observations or changes in abundance here***

pinkish spores

***Sponges***

Breadcrumb Sponge  
Purple Sponge

***Cnidarians***

***Anemones***

Burrowing Green Anemone  
Orange Colonial Anemone  
Frilled (Plumose) Anemone  
Christmas Anemone

x

***Sea Jellies***

Moon Jelly  
Many-ribbed Hydromedusa  
Compass Jelly  
Lion's Mane Jelly

**Worms**

Giant Flatworm

**Nemerteans**

Amphiporus (Two-spotted) Ribbon Worm

Red Ribbon Worm

**Echiurans**

Fat Innkeeper (Alaskan Spoonworm)

**Sipunculids**

Peanut Worm

**Annelids**

Mussel Worm (Clam Worm)

Northern Feather Duster Worm (Carpet Worm)

Cone Worm

Calcareous Tube Worm

Spiral Tube Worm

Scaleworm

**Brachiopods**

Transverse Lampshell

**Mollusks**

**Chitons**

x

Gumboot Chiton

Black Katy Chiton

Brick Chiton

Mossy Chiton

Tiger Chiton

Lined Chiton

**Limpets**

x

Dunce Cap Limpet

Plate Limpet

**Snails**

x

Hairy Triton

Sitka Periwinkle

Helicina Margarite

Puppet Margarite

Aleutian Moonsnail

Ridged Neptune

Channeled Dogwinkle

Emarginate Dogwinkle

Frilled Dogwinkle

File Dogwinkle

Big-mouth Whelk

**Nudibranchs**

Maned Nudibranch

False Sea Lemon (False Lemon Peel)

Orange-tipped Nudibranch

Opalescent Nudibranch

Bushy-backed Nudibranch

**Clams**

x

x

Nuttal's Cockle  
Northwest Ugly Clam  
Arctic Rock Borer  
Baltic Macoma  
Stained Macoma  
Pacific Surf Clam  
Truncated Mya  
Steamer Clam (Pacific Littleneck Clam)  
Butter Clam  
Razor Clam

**Mussels**

x

Horse Mussel  
Pacific Blue Mussel

**Scallops**

Pink Scallop

**Jingles**

Rock Jingle

**Cephalopods**

Giant Pacific Octopus  
Stubby Squid

**Arthropods**

**Barnacles**

x

x

Acorn Barnacle  
Pelagic Gooseneck Barnacle  
Thatched Acorn Barnacle

**Crabs**

Dungeness Crab  
Black-clawed Cancer Crab  
Red Hermit Crab  
Striped Hermit Crab  
Decorator Crab  
Carapace Crab  
Red King Crab  
Northern Kelp Crab  
Helmet Crab

**Shrimp**

Broken-back Shrimp  
Coonstripe Shrimp  
Sand Shrimp

**Isopods**

Pillbug Isopod  
Rockweek Isopod

**Amphipods**

Skeleton Shrimp  
Small Beach Hopper

**Echinoderms**

**Sea Stars**

x

x

Little Six-rayed Star  
Red-banded Star (Rainbow Star)  
Ochre Star  
Sunflower Star  
Morning Sun Star

Stimpson's Sun Star  
 Rose Star  
 Leather Star  
 True Star (False Ochre Star, Mottled Star)  
 Blood Star  
**Brittle Stars**  
 Serpent Star  
 Daisy Brittle Star  
**Sea Urchins**  
 Green Sea Urchin  
 Red Sea Urchin  
**Sea Cucumbers**  
 Silky Burrowing Cucumber  
 Orange Cucumber (Red Cucumber)  
 Tar-spot Cucumber (Black Cucumber)  
**Sand Dollars**  
 Green-spined Sand Dollar (Northern Sand Dollar)

**Chordates**

**Tunicates**  
 Colonial Tunicate (Sea Pork)  
 Sea Peach

**Seaweeds**

Green Seaweed			x	x
	Band			
	Attached			
	Washed Up			
Red Seaweed			x	x
	Band			
	Attached			
	Washed Up			
Rockweed				
	Band			
	Attached			
	Washed Up			
Kelps				
	Band			
	Attached			
	Washed Up	x		
Eelgrass				
	Band			
	Attached			
	Washed Up			

**Beach Substrate**

Type pebbles, s& sand pebble, sar

**Bluff and Cliff Erosion**

Comments

**Human Activities**

Walking	Signs of Actual observation	3	1	1	2	1
Camping	Signs of Actual observation	2	5		14	1
Partying	Signs of Actual observation					1
Fire Pits	Signs of Actual observation					
Trash Accumulations	Signs of Actual observation					
Clamming	Signs of Actual observation					1
Fishing	Signs of Actual observation					
Coaling	Signs of Actual observation					
Picnicking	Signs of Actual observation					1
Horseback Riding	Signs of Actual observation					
Harvesting (specify)	Signs of Actual observation					
Other (specify)	Signs of Actual observation		1 (rocks)			

**Vehicle Use**

Cars/Trucks	Sets of tracks Actual observation	2	1	1		1
ATVs/Motorcycles	Sets of tracks Actual observation			1		1
Bicycles	Sets of tracks Actual observation					
Aircraft	Sets of tracks Actual observation					
Other (specify)	Sets of tracks Actual observation					

**Structures on the Beach**

Buildings 3  
Docks  
Driftwood Structures  
Riprapped Areas  
Erosion Control Structures  
Abandoned Vehicles  
Abandoned Boats  
Boat Parts

**Archaeological Sites**

Shell Middens  
Other (specify)

**Outfalls or Pipes**

Number 1  
Comments

**Toxic Pollution**

Fuel (oil, gas, etc.)  
Lubricating Oil  
Paint  
Batteries

**Trash & Debris**

(from International Coastal Cleanup Data Card)

***Shoreline and Recreational Activities***

Bags/Food Wrappers  
Balloons  
Beverage Bottles, plastic, 2-liter or less  
Beverage Bottles, glass  
Beverage Cans  
Caps, Lids  
Clothing, Cloth 1  
Cups, Plates, Forks, Knives, Spoons  
Diapers  
Fast-food Containers  
6-pack Holders  
Pull Tabs  
Shotgun Shells/Wadding  
Straws, Stirrers  
Toys

***Ocean/Waterway Activities***

Bait Containers/Packaging 1  
Bleach/Cleaner Bottles  
Buoys/Floats 1  
Crab/Lobster/Fish Traps  
Crates  
Fishing Line  
Fishing Lures

Fishing Nets  
Light Bulbs/Tubes  
Oil/Lube Bottles  
Pallets  
Plastic Sheeting/Tarps  
Rope  
Strapping Bands

***Smoking-Related Activities***

Cigarettes/Cigarette Filters  
Cigarette Lighters  
Cigar Tips  
Tobacco Packaging/Wrappers

***Dumping Activities***

Appliances (refrigerators, washers, etc.)  
Batteries  
Cars/Car Parts  
Construction Materials  
55-gallon Drums  
Tires

2

***Medical/Personal Hygiene***

Syringes  
Condoms  
Tampons/Tampon Applicators

***Debris Items of Local Concern***

***Entangled Animals***

Type of Animal  
Form of Entangling Debris  
Comments

***Most Peculiar Item Collected?***

***Comments***

Human det Metal, plas All in all, be Glass and metal cans

**Additional Observations and Comments**

(detailed c I loved taking a more careful look The amour



16-Sep-96	20-Sep-98	24-Sep-00	28-Sep-00	18-Sep-01				
1900	1000	1700	947	1030				
2045	1200	1900	1047	1130				
				-3.6				
				943				
50	55		45	54				
cloudy	cloudy	cloudy	sunny	cloudy				
x		x						
x		x	x	x				
		x						
1	2	2	4	11				
1.75	2	2	1	1				
1.75	4	4	4	11	0	0	0	0
	1	2	1	2				
x	x		x	x				
				1				
				1				
5								
5								
				1				

118    1    2    70    150

1    6    2  
1

3

Hundreds of birds were out of ID range.

Similar to past.



x  
x

x      x

x

x

x      x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

rocky, sand rocky, pebbt rocky, pebbt 80% sand, pebbles, sand

moderated severe to n manmade sea wall to protect road

2      1  
         1                      1  
         1  
         1

   3  
   1  
   1

2 (surveyors)

6  
2      1      1

                                 1      1

1

1

1

1

1

1

3

1

1

2

1

an oil filter

common. F Aluminum r Beer cans (Plastic and styrofoam pieces also present. Very little trash.

High impac Overall bea Very similar to past, fast food containers, plastic bottles, styrofoam, fishing industri



0 0 0 0 0 0 0 0 0













ry materials.



0

0

0