

## Zone 6

**Shore** north  
**Total Surveys** 13  
**Start Point** Mariner Park Lagoon outlet  
**Start Lat/Long**  
**End Point** opposite Honey's B&B  
**End Lat/Long**  
**Dates Walked** 1987-92, 98-2002, 2005, 2007, 2008  
**Spring Surveys** 8  
**Fall Surveys** 9  
**First Walked** 1987  
**Last Walked** 2015  
**Total Person-Hours** 280.65  
**Total Trash Bags Collected** 43  
**Total Estimated Weight of Trash Collected** 275

### General Info

<b>Date</b>	25-Apr-87	30-Apr-88	29-Apr to 6	28-Apr-90	??-May-91
<b>Start Time</b>				1300	1145
<b>End Time</b>				1600	1745
<b>Lowest Tide</b>				-4.2	
				<b>at time</b>	1136

**Temperature (F)**

**Sky**

**Vertical Zones Walked:**

High		x		
Middle	x	x		
Low		x		

<b># of Observers</b>	1	2	2	4	1
<b>Hours Spent</b>	1.5	3.5	3	3	6
<b>Person-Hours</b>	1.5	7	6	12	6
<b>Shoreline Walked (miles)</b>			3	1.5	0.75
<b>Total Trip Mileage</b>					
<b>Did Observers . . .</b>					

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

<b>Trash Bags Collected</b>				6	2
<b>Estimated Weight of Collected Trash</b>					

### Wildlife *Birds*

Loons					
Sea Ducks	6	39			
Other Ducks and Geese					2
Bald Eagles					
	Adults	6		1	
	Immatures			1	
	Nests				
Shorebirds			30		

Seabirds		83	50	13	2
Crows and Ravens	1	6			
Others (see separate Bird list)		30			

***Domestic Mammals***

Cattle					
Horses			1	2	
Dogs		2	3	8	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***

**Invertebrates**

*(from the Intertidal Biodiversity Checklist)*

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

Tidal pool midway-- very silty and full of fine c

***Sponges***

- Breadcrumb Sponge
- Purple Sponge

***Cnidarians***

<b><i>Anemones</i></b>					
Burrowing Green Anemone				x	x
Orange Colonial Anemone					
Frilled (Plumose) Anemone					
Christmas Anemone					

***Sea Jellies***

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

**Worms**

Giant Flatworm

**Nemertean**

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**

Gumboot Chiton  
Black Katy Chiton  
Brick Chiton  
Mossy Chiton  
Tiger Chiton  
Lined Chiton

x

**Limpets**

Dunce Cap Limpet  
Plate Limpet

x

x

**Snails**

Hairy Triton  
Sitka Periwinkle  
Helicina Margarite  
Puppet Margarite  
Aleutian Moonshell  
Ridged Neptune  
Channeled Dogwinkle  
Emarginate Dogwinkle  
Fruited Dogwinkle  
File Dogwinkle  
Big-mouth Whelk

x

x

**Nudibranchs**

Maned Nudibranch  
False Sea Lemon (False Lemon Peel)  
Orange-tipped Nudibranch  
Opalescent Nudibranch  
Bushy-backed Nudibranch

**Clams**

x

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			
<b>Mussels</b>	x	x	x
Horse Mussel			
Pacific Blue Mussel			
<b>Scallops</b>			
Pink Scallop			
<b>Jingles</b>			
Rock Jingle			
<b>Cephalopods</b>			
Giant Pacific Octopus			
Stubby Squid			
<b>Arthropods</b>			
<b>Barnacles</b>	x	x	x
Acorn Barnacle			
Pelagic Gooseneck Barnacle			
Thatched Acorn Barnacle			
<b>Crabs</b>	x		x
Dungeness Crab			
Black-clawed Cancer Crab			
Red Hermit Crab			
Striped Hermit Crab			
Decorator Crab			
Carapace Crab			
Red King Crab			
Northern Kelp Crab			
Helmet Crab			
<b>Shrimp</b>			
Broken-back Shrimp			
Coonstripe Shrimp			
Sand Shrimp			
<b>Isopods</b>			
Pillbug Isopod			
Rockweek Isopod			
<b>Amphipods</b>			
Skeleton Shrimp			
Small Beach Hopper			
<b>Echinoderms</b>			
<b>Sea Stars</b>			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)

x x

**Chordates**

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

**Seaweeds**

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

**Beach Substrate**

Type	sand	rocky, pebl	rocky, sanc	all
------	------	-------------	-------------	-----

**Bluff and Cliff Erosion**

Comments	moderate
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**Human Activities**

Walking	Signs of		3			1
	Actual observation			11	1	1
Camping	Signs of				1	1
	Actual observation	2	1	4	1	
Partying	Signs of					
	Actual observation					
Fire Pits	Signs of					
	Actual observation					
Trash Accumulations	Signs of					
	Actual observation					
Clamming	Signs of					1
	Actual observation				1	
Fishing	Signs of				1	1
	Actual observation					
Coaling	Signs of				1	1
	Actual observation					
Picnicking	Signs of				1	1
	Actual observation				1	1
Horseback Riding	Signs of					
	Actual observation					
Harvesting (specify)	Signs of					
	Actual observation					
Other (specify)						

**Vehicle Use**

Cars/Trucks	Sets of tracks					1
	Actual observation		1	7	2	1
ATVs/Motorcycles	Sets of tracks				1	1
	Actual observation	1		1		1
Bicycles	Sets of tracks					
	Actual observation					
Aircraft	Sets of tracks				5	1
	Actual observation					1
Other (specify)						

**Structures on the Beach**

Buildings	11	
Docks		1
Driftwood Structures		1
Riprapped Areas		
Erosion Control Structures		
Abandoned Vehicles		
Abandoned Boats		
	Boat Parts	

**Archaeological Sites**

- Shell Middens
- Other (specify)

**Outfalls or Pipes**

- Number
- Comments

**Toxic Pollution**

Fuel (oil, gas, etc.)	
Lubricating Oil	1
Paint	
Batteries	

**Trash & Debris**

(from International Coastal Cleanup Data Card)

***Shoreline and Recreational Activities***

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

***Ocean/Waterway Activities***

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

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

1

***Smoking-Related Activities***

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

***Dumping Activities***

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

1

***Medical/Personal Hygiene***

Condoms  
Diapers  
Syringes  
Tampons/Tampon Applicators

***Debris Items of Local Concern***

Styrofoam Pieces  
Plastic Pieces  
Paper products  
Metal Pieces  
Other

***Dead/Injured Animals (NOT ENTANGLED)***

Type of Animal  
  
Injured  
Dead

***Entangled Animals***

Type of Animal  
Form of Entangling Debris  
Comments

***Most Peculiar Item Collected?***

***Comments***

LOTS OF 1Glass rare. Glass, plas Glass, alun

**Additional Observations and Comments**

Last year o There is sti









4-May-91	4-May-91	7-May-92	21-Sep-98	30-Sep-98	21-Sep-99	30-Sep-00	26-Sep-01	22.10.02
930	1000		930	1600	1300	1025	1600	1300
1030	1230		1100	1800	1400	1240	1745	1515
								0.1
								1002
			50 cloudy	53 partly cloud	40-50 cloudy	47 sunny	high 40s cloudy	56 partly cloudy
						x		x
						x	x	x
			x		x			
8	4	2	14	3	1	2	16	11
1	2.5	3.5	1.5	2	1	2.25	1.75	2.25
8	10	7	21	6	1	4.5	28	24.75
1	1.5	1.5	1	2	1	0.5		1
		3				1		2
x	x	x	x	x	x	x	x	x
5							6	4
							40	30
							1	0
				2				0
								0
								0
		2	2	1		1		0
	1		1					0
								0
100			1					1

21	60	27	2	66 41	17	45 0 0
						0 0 11 0
2		4 8	1	4	1 3	
						0 0 0 0 0 0 0 0 0 0 0
		moose scat				0 1 0 0 0 0 0 0 0 0 0
			2		5	

Bird tracks. About halfway down at Not as many birds as le

did not fill ou

oal deposits, rocks appear to stay 'snail egg case

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

                  x      x      x                   x

x

x

x                   x              x

x

x

x

x

x

x

x

x

x

x

x

x

x

rocky

rocky, pebbles, sand

sand

pebbles

pebble, san rocky, pebttebbles, san

Stream has changed!



1		1	1		6	2
2	2	1	1	7		4
		1	1		3	1
2		1		2		
		1			1	
					7	
		1				

1	1
1	
	1
	1

	1	1		1	1	3
2	1			1		

pilings from old

yes

4 wheeled ca

1

scattered coal pi

1	8	3
		0
	4	3
2	2	11
	10	11
	2	10
	6	5
	4	10
	2	40
		0
	1	0
	1	1
		3
		1
	2	2
		0
		0
		0
		0
	3	1
		0
		0

		0
		0
3		0
1	1	0
	5	2
		7
	16	39
		0
	2	1
		0
		0
		0
3	15	0
1		0
		0
		0
		0
		0

sprinkler head

1 large 4 wheeler

Glass, alun Plastic containers, styr Aluminum, Aluminum, metal, plasti I think most The children enjoyed cl

Il need of cleaning debris off shoulder of road. The overall Excellent cA good part Bird numbers down. N







West Homer-Wo Worsfold								
10.05.05	9.27.07	9.26.08	9.20.09	9.15.10	2.1.10	9.26.12	09.11.15	9/19/2017
1120	900	1100	1830					9:30
1330	1030	1430	2040					11:15
			-2.9					-2
			2227					8:35
49		44	50					51*
overcast	sun	sun	clouds					sun
								high & mid
x	x	x	x					1
		x	x					1
x		x						
6	1	2	2	20	1.00	2		33
2	1.5	3.25	2.2	2	5.5	1		2
12	1.5	6.5	4.4	40	5.5		2 0	66
1	1	3	1.5			2		0.75
1	2	4	3			4		1.5
x	x	x	x		x	x		1
3	1		1		2	4		8
30	20	4	1	50	30	70		82 lbs 7 oz
			0					
			0					
40		12	1					
			23					
			0					1
			0					2
			0					
			0					
			1					

39	7	45	
		0	
		0	1 unknown
		0	
		0	
		0	
3	2	0	
	5	0	
		6	4
		0	
		0	
		0	
		0	
		0	
		0	
		0	1 (dead)
		0	
		0	
1		0	
		0	
		0	
		0	
		0	
		0	
		0	
		0	
		0	
		0	
		0	
		0	
		0	
		0	

ast year, but it is also much later in the day this time.

it



x

x

x

x

x

x

x

x

molts

x		x	x
x		x	
		x	
		x	x
x			
		x	x
x		x	x
		x	
		x	
x		x	x

d sand, cobble, rle, boulder, sand

sand

of erosion t no

no

4  
4

1

28

x  
x  
12  
x  
x  
1  
x  
x

x  
x  
6

1

7

1

1

x  
x  
2

4

x  
2  
x  
3  
x  
2

ars 8, in parking lot



3							1	
						1		
1		3		1		3		
12	2	1	1	1	12	5	25	31
1		2			4		10	4
67					1	46	217	290
					1		1	
							20	
3		28		1			4	6
						1		
3	18	2		1	3	13	10	1228
1	9		2		3	2		
1		1					1	3
1						1		
						1		
1								1
				28	15	23	206	36
33	15			8	21	4	127	153
				4				83
				11				1
8	1			9			40	80
								<b>2374</b>

2 fish, 1 jellyfish, 6 birds

x

"no littering  
fireworks (2  
shoe insole  
candle  
velcro strip  
botton  
tape (5)

1 astroturf  
d cart  
leaning the beach--they 15 foot rubber hose

o eagles. No seaweed. (may be related to time of day)









1

9/22/2017

TOTALS

rain/clouds  
high/middle

1  
1

1  
4

4

5

1

1

7 lbs

1  
100  
25

2

13  
3  
0  
133

(dead)

2

477  
48  
30

0  
10  
62  
0

0  
0  
0  
0  
0  
0  
0  
0  
0

1  
8  
0  
0

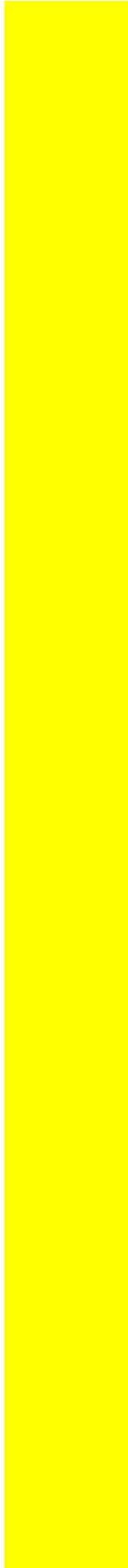
0  
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sand/cobble

no



1  
1

1

1

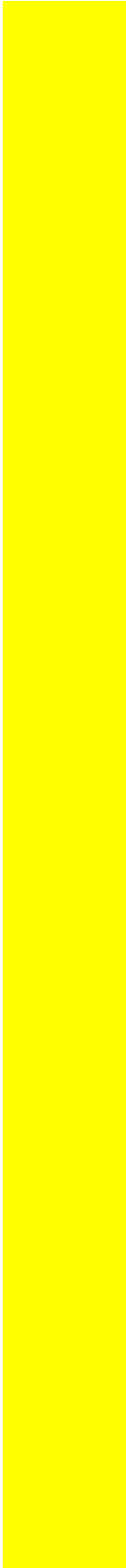
1

1

1

1

1



1

3	11	152
	1	5
5	2	49
1	3	52
28	2	125
10	10	103
	7	26
16		75
23	43	77
		1
		7
		4
	2	17
	3	6
		5
		1
		1
		0
		0
		6
		4
		3
	1	3



		0
		5
		4
		10
	2	66
	2	24
10	41	386
		2
		21
3		38
	1	1
		0
2	3	68
		19
		0
	1	3
	2	1
		2
		0
		1
31	11	272
28	46	208
	5	4
1	2	11
6	3	58
<b>167</b>	<b>204</b>	

" sign  
 2)  
 :

