

Zone 15

Shore	North
Total Surveys	16
Start Point	Stone Step
End Point	McNeil Creek
Dates Walked	1987-91, 96, 98-2001, 2003-05, 2007
Spring Surveys	8
Fall Surveys	11
First Walked	1987
Last Walked	2016
Total Person-Hours	210.75
Total Trash Bags Collected	13
Total Estimated Weight of Trash Collected	107

General Info

Date	25-Apr-87	30-Apr-88	30-Apr-88	29-Apr-89	28-Apr-90
Start Time				1145	
End Time				1445	
Lowest Tide					

at time

Temperature (F)

Sky

Vertical Zones Walked:

High	x		x		
Middle		x	x		
Low		x			

# of Observers	2	2	5	9	5
Hours Spent	7	5	5	3	2.5
Person-Hours	14	10	25	27	12.5
Shoreline Walked (miles)	3	13	8	3	3
Total Trip Mileage	6				
Did Observers . . .					

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

Trash Bags Collected	2
Estimated Weight of Collected Trash	

Wildlife Birds

Loons	2				
Sea Ducks	281	300			
Other Ducks and Geese	66		70		
Bald Eagles					
	Adults	5	2	2	3
	Immatures	1	1	3	2
	Nests			1	2
Shorebirds					2

Seabirds	52		3	158	30
Crows and Ravens	3	1	2		
Others (see separate Bird list)	37	2	6	42	7

Domestic Mammals

Cattle	1			1	1
Horses					6
Dogs		4	2		
Other					

Land Mammals

Moose					
		Adults	10	5	
		Calves			
Black Bears					
Brown Bears					
Land/River Otters					
Red Squirrels			5		
Tracks Identified	coyote		cattle	cattle	dog
Other		1		3	

Marine Mammals

Sea Otters					
Harbor Seals	1	2	12	2	
Steller's Sea Lions					
Harbor Porpoises					
Whales					
		Beluga			
		Orca			
		Minke			
		Humpback			
		Gray			
		Unknown			
Other/Unidentified					

Please note any unusual wildlife sightings

Badly eroded Moose bones and hide

Invertebrates

(from the Intertidal Biodiversity Checklist)

Please note any interesting observations or changes in abundance here

Female kin Large mussel die-off n

Sponges

Breadcrumb Sponge
Purple Sponge

Cnidarians

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

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

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

Limpets

Dunce Cap Limpet
Plate Limpet

Snails

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

Nudibranchs

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

Clams

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 x 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

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

Shrimp

Broken-back Shrimp
 Coonstripe Shrimp
 Sand Shrimp

Isopods

Pillbug Isopod
 Rockweek Isopod

Amphipods

Skeleton Shrimp
 Small Beach Hopper

Echinoderms

Sea Stars

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

Beach Substrate

Type	rock, pebble, mud	sand, mud	sandy
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Bluff and Cliff Erosion

Comments	moderate	Trees, pea	Normal he	moderate	moderate
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Human Activities

Walking	Signs of Actual observation		8	2	
Camping	Signs of Actual observation				
Partying	Signs of Actual observation				
Fire Pits	Signs of Actual observation				
Trash Accumulations	Signs of Actual observation				
Clamming	Signs of Actual observation				
Fishing	Signs of Actual observation				
Coaling	Signs of Actual observation			1	
Picnicking	Signs of Actual observation				
Horseback Riding	Signs of Actual observation				
Harvesting (specify)	Signs of Actual observation		3		4
Other (specify)	Signs of Actual observation			subsistence use	

Vehicle Use

Cars/Trucks	Sets of tracks Actual observation			1	1
ATVs/Motorcycles	Sets of tracks Actual observation	1	1	1	1
Bicycles	Sets of tracks Actual observation				
Aircraft	Sets of tracks Actual observation				
Other (specify)	Sets of tracks Actual observation	1	1		8

Structures on the Beach

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

Archaeological Sites

- Shell Middens
- Other (specify) 1 at Yole Kilcher beach

Outfalls or Pipes

- Number
- Comments

Toxic Pollution

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

Trash & Debris

(from International Coastal Cleanup Data Card)

Shoreline and Recreational Activities

- Bags (Paper & Plastic)
- Balloons
- Beverage Bottles, plastic, 2-liter or less 4
- Beverage Bottles, glass 2
- Beverage Cans 3 1 10
- Caps, Lids
- Clothing, Cloth 2 1
- Cups, Plates, Forks, Knives, Spoons
- Food Wrappers/Containers
- 6-pack Holders
- Pull Tabs
- Shotgun Shells/Wadding 1
- Straws, Stirrers
- Toys

Ocean/Waterway Activities

- Bait Containers/Packaging 3
- Bleach/Cleaner Bottles
- Buoys/Floats 1 2
- Crab/Lobster/Fish Traps 1
- Crates
- Fishing Line
- Fishing Lures
- Fishing Nets 3 3

Light Bulbs/Tubes				
Oil/Lube Bottles				1
Pallets				
Plastic Sheeting/Tarps				
Rope/cable	6	1	4	3
Strapping Bands				

Smoking-Related Activities

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

Dumping Activities

Appliances (refrigerators, washers, etc.)			1	
Batteries				
Building Materials				
Cars/Car Parts	1		1	1
55-gallon Drums		2		
Tires				

Medical/Personal Hygiene

- Condoms
- Diapers
- Syringes
- Tampons/Tampon Applicators

Debris Items of Local Concern

- Styrofoam pieces
- Plastic Pieces
- Paper products
- Metal Pieces
- Other

Entangled Animals

- Type of Animal
- Form of Entangling Debris
- Comments

Most Peculiar Item Collected?

Comments

This stretch of beach is Beach was

Additional Observations and Comments

Hydrogen ε Natural sul Natural sul

29-Apr-90	5-May-91	6-May-91	24-Sep-96	21-Sep-98	20-Sep-99	23-Sep-00	30-Sep-01	7-Oct-01
1000	1500	945	1015	1105	1400	1130		1100
1100	1900	1130	1345	1335	1600	1330		1130
			45	50	50	~45	1.1	
			mostly sunr	cloudy	mostly clou	cloudy	812	50
			x	x	x	x		x
			x			x		x
						x		
4	5	1	4	1	1	3	1	2
1	4	1.75	3.5	2.5	2	2	3	0.5
4	20	1.75	14	2.5	2	6	3	1
	2.5	3	4	3.5	3	1	6.5	
x	x	x	x	x	x	x	x	
		1	1				2	
							36	
					11	2		
15		27						
50		48						
4		5	4	5				1
7		5						
1		2						
		60	2					

2	109	351	300	110	34
1	2	2	80		
2	23	46	9	8	

poop
1

cattle, dog, dog or coyote fox

1. Mosquitoes, butterflies, spiders p Many dog t Numerous l Dragonfly, gnats.

ear Step Stone Creek.

Nothing noteworthy. There is not r Many lug w

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

x

x

x

x

x

x

x

x

x

sand, mud rocky, sand pebbles pebbles sand, coal sand, mud

severe moderate moderate o severe severe severe, natural natural bluf

1

3

1

1

1

2

1

1

1

1

1

c

1

1

1

3

4

		1	1			1		
			2				1	3
1	2		4	3	1	2		
2	1		2	1	1	1		
			1					
					1			
1		1	1			2		
			1	1		2		
			1		1	1		
3		2	3	3				

1

1

4

3

1

2

1

1

1

1

7

1

3

1

Buoy with name carved broken plas .

quite clean Glass rare. Glass, plas Trash in general was ræ I had a muc Similar amc Seemingly less debris c

Subsistenc (photocopi Subsistenc Beach is in excellent cc Less bird a Beach look (photocopied side 1 of

Kilcher beach to Stone Step

14.09.03	21.09.03	9.18.04	10.09.05	10.2.07	11.14.09	10.3.12	9.19.16
900; 1200	600	1100	1300	1400	1600		11
1200;300	900	1530	1700	1600	1800		2
		1.7		0.5	-1.9		
		1123		1251	1848		
50	50	45	50				
sunny	cloudy, wind	overcast	sunny	sun, clouds	clouds		sun
x	x	x	x	x	x		x
x	x	x	x		x		x
x	x						
4	3	4	1	1	2	1	1
6	3	4.5	4	2	2	4	3
24	9	18	4	2	4	4	3
2	4	3.5	2		1.5	1	
3.5	5	9	6		3	1	
x	x	x	x	x	x	x	
1	0	1	1	1	1	1	1
5	0	10	20	5	1	30	
0	0						
2	0		6				
0	0						
11	0	3	1	2	1		
0	0						
0	0				1		
0	0						

4	3	2	1	1	82
0	0	1			
0	0				

0	0	1			
0	0	5			
0	0	5			

skull	0				
0	0				
0	0				
0	0				
0	0				
0	0				
0	0				

red squirrel, dog

0	2	1	1	2
0	0	1		1
0	0			
0	0			

0	0				
0	0				
0	0				
0	0				
0	0				

unidentified vertebra

orms

x

x

x

x

x

x

1

x

x

x

x

x

x

x

x

x

bryozoan

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

bbles, sand and, low t.z., pebbles, sand sand sand, cobble with sand, cobble, and boulder

ned in the bn mouth, e)luff erosion yes yes several small mucuffs all along this beach yes

fence 1

no ICC card included

2					
2					
2					1
1	2				
6		6	4	1	3
0					
0	1	1	1		
0			1		1
1					
0					
0				1	
0					
1					
0					
0		1			
1		1			
1					
0					
0					
0					
0	1		1		

0					
0					
1					
2		1			
4		1	3	1	1
0					

0
0
0
0

0		1			
0					
0					
2		1		1	
1		2	2		1
0		2			

0
0
0
0

0					18
0					2
0					
0					3
2		1			1

observed during this year's walk in life raft/skiff still in place

Relatively clean, but not a lot of wildlife or intertidal plants, relatively inaccessible to human traffic

ICC card tw No trash n very clean compared to last year, when I walked, but it hadn't been walked for se
Little trash this year!

TOTAL

15
631
234

54
32
9
64

1242
92
182

4
11
12
0

15
0
0
0
0
5
0
4

6
19
0
0

0
0
0
0
0
0
0

5
2
13
8
45
0
13
2
3
0
0
3
0
1

3
1
9
5
3
0
0
19

0
1
3
3
31
0

0
0
0
0

3
0
10
10
8
6

0
0
0
0

18
2
0
3
5

several years previous. Quite a bit of bluff erosion. Skiff buried in sand, saw last year, would cause too m

much erosion to remove, I think.