

Date	30-Apr-88	??-May-88	20-Sep-01	10.11.05					
Frilled Dogwinkle									
File Dogwinkle			x						
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							
Nuttal's Cockle		x							
Northwest Ugly Clam			x						
Arctic Rock Borer									
Baltic Macoma									
Stained Macoma									
Pacific Surf Clam									
Truncated Mya									
Steamer Clam (Pacific Littleneck Clam)									
Butter Clam									
Razor Clam									
Mussels	x	x							
Horse Mussel									
Pacific Blue Mussel			x						
Scallops									
Pink Scallop									
Jingles									
Rock Jingle									
Cephalopods									
Giant Pacific Octopus									
Stubby Squid									
Arthropods									
Barnacles		x							
Acorn Barnacle			x						
Pelagic Gooseneck Barnacle									
Thatched Acorn Barnacle			x						
Crabs		x							

Date	30-Apr-88	??-May-88	20-Sep-01	10.11.05					
Dungeness Crab		x							
Black-clawed Cancer Crab			x						
Red Hermit Crab									
Striped Hermit Crab									
Decorator Crab			x						
Carapace Crab									
Red King Crab									
Northern Kelp Crab									
Helmet Crab									
Shrimp									
Broken-back Shrimp									
Coonstripe Shrimp			x						
Sand Shrimp									
Isopods									
Pillbug Isopod			x						
Rockweek Isopod			x						
Amphipods									
Skeleton Shrimp									
Small Beach Hopper			x						
Echinoderms									
Sea Stars	x	x							
Little Six-rayed Star			x						
Red-banded Star (Rainbow Star)			x						
Ochre Star									
Sunflower Star			x						
Morning Sun Star									
Stimpson's Sun Star									
Rose Star									
Leather Star									
True Star (False Ochre Star, Mottled Star)			x						
Blood Star			x						
Brittle Stars									
Serpent Star									
Daisy Brittle Star			x						
Sea Urchins		x							
Green Sea Urchin			x						

Date	30-Apr-88	??-May-88	20-Sep-01	10.11.05					
Red Sea Urchin			x						
Sea Cucumbers									
Silky Burrowing Cucumber									
Orange Cucumber (Red Cucumber)									
Tar-spot Cucumber (Black Cucumber)			x						
Sand Dollars									
Green-spined Sand Dollar (Northern Sand Dollar)									
<u>Chordates</u>									
<i>Tunicates</i>									
Colonial Tunicate (Sea Pork)									
Sea Peach									
<u>Seaweeds</u>									
Green Seaweed									
Band									
Attached			x						
Washed Up			x	x					
Red Seaweed									
Band									
Attached			x						
Washed Up			x	x					
Rockweed									
Band			x						
Attached			x						
Washed Up			x	x					
Kelps									
Band									
Attached			x						
Washed Up			x	x					
Eelgrass									
Band									
Attached			x						
Washed Up				x					
<u>Beach Substrate</u>									
Type			rocky, sand	pebbles					

Date	30-Apr-88	??-May-88	20-Sep-01	10.11.05					
Actual observation									
Harvesting (specify)									
Signs of			yes--bidarkis						
Actual observation									
Other (specify)									
<u>Vehicle Use</u>									
Cars/Trucks									
Sets of tracks				1					
Actual observation				1					
ATVs/Motorcycles									
Sets of tracks			4	15					
Actual observation									
Bicycles									
Sets of tracks									
Actual observation									
Aircraft									
Sets of tracks			1						
Actual observation									
Other (specify)									
<u>Structures on the Beach</u>									
Buildings	2	1							
Docks									
Driftwood Structures			3						
Riprapped Areas			1						
Erosion Control Structures			1						
Abandoned Vehicles			1	1					
Abandoned Boats	2								
Boat Parts									
<u>Archaeological Sites</u>									
Shell Middens									
Other (specify)		Looked for	A skeleton came out of cliffs several years ago.						

Date	30-Apr-88	??-May-88	20-Sep-01	10.11.05					
Comments									
<i>Most Peculiar Item Collected?</i>			2 old bicycles.						
<i>Comments</i>	Some mot	Trash pres	Aluminum, buoys, glass, metal, plastics, styrofoam, fishing gear, all present.						
<u>Additional Observations and Comments</u>	Covered s	Chrome B	Covered by Nanwalek middle and high schoolers. In addition to 4 bags of trash						

<u>Zone 32</u>									
Shore									
Total Surveys									
Start Point									
Start Lat/Long									
End Point									
End Lat/Long									
Dates Walked									
Spring Surveys									
Fall Surveys									
First Walked									
Last Walked									
Total Person-Hours									
Total Trash Bags Collected									
Total Estimated Weight of Trash Collected									
<u>General Info</u>									
Date									
Start Time									
End Time									
Lowest Tide									
at time									
Temperature (F)									
Sky									
Vertical Zones Walked:									
High									
Middle									
Low									
# of Observers									
Hours Spent									
Person-Hours									
Shoreline Walked (miles)									
Total Trip Mileage									
Did Observers . . .									
Hike?									
Kayak?									

Date									
	<u>Bluff and Cliff Erosion</u>								
Comments									
	<u>Human Activities</u>								
Walking									
	Signs of								
	Actual observation								
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								
Picnicking									
	Signs of								
	Actual observation								
Horseback Riding									
	Signs of								

Date									
Comments									
<i>Most Peculiar Item Collected?</i>									
<i>Comments</i>									
<u>Additional Observations and Comments</u>	, filled back of truck with other trash.								

<u>Zone 32</u>									
Shore									
Total Surveys									
Start Point									
Start Lat/Long									
End Point									
End Lat/Long									
Dates Walked									
Spring Surveys									
Fall Surveys									
First Walked									
Last Walked									
Total Person-Hours									
Total Trash Bags Collected									
Total Estimated Weight of Trash Collected									
<u>General Info</u>									
Date									
Start Time									
End Time									
Lowest Tide									
at time									
Temperature (F)									
Sky									
Vertical Zones Walked:									
High									
Middle									
Low									
# of Observers									
Hours Spent									
Person-Hours									
Shoreline Walked (miles)									
Total Trip Mileage									
Did Observers . . .									
Hike?									
Kayak?									

Date									
	<u>Bluff and Cliff Erosion</u>								
Comments									
	<u>Human Activities</u>								
Walking									
		Signs of							
		Actual observation							
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							
Picnicking									
		Signs of							
		Actual observation							
Horseback Riding									
		Signs of							

<u>Zone 32</u>					
Shore					
Total Surveys					
Start Point					
Start Lat/Long					
End Point					
End Lat/Long					
Dates Walked					
Spring Surveys					
Fall Surveys					
First Walked					
Last Walked					
Total Person-Hours					
Total Trash Bags Collected					
Total Estimated Weight of Trash Collected					
<u>General Info</u>					
Date					
Start Time					
End Time					
Lowest Tide					
at time					
Temperature (F)					
Sky					
Vertical Zones Walked:					
High					
Middle					
Low					
# of Observers					
Hours Spent					
Person-Hours					
Shoreline Walked (miles)					
Total Trip Mileage					
Did Observers . . .					
Hike?					
Kayak?					

Date						
	Other (specify)?					
Trash Bags Collected						
Estimated Weight of Collected Trash						
	<u>Wildlife</u>					
	<i>Birds</i>					
Loons						
Sea Ducks						
Other Ducks and Geese						
Bald Eagles						
	Adults					
	Immatures					
	Nests					
Shorebirds						
Seabirds						
Crows and Ravens						
Others (see separate Bird list)						
	<i>Domestic Mammals</i>					
Cattle						
Horses						
Dogs						
Other						
	<i>Land Mammals</i>					
Moose						
	Adults					
	Calves					
Black Bears						
Brown Bears						
Land/River Otters						
Red Squirrels						
Tracks Identified						
Other						
	<i>Marine Mammals</i>					
Sea Otters						
Harbor Seals						

Date					
<i>Nemerteans</i>					
Amphiporus (Two-spotted) Ribbon Worm					
Red Ribbon Worm					
<i>Echiurans</i>					
Fat Innkeeper (Alaskan Spoonworm)					
<i>Sipunculids</i>					
Peanut Worm					
<i>Annelids</i>					
Mussel Worm (Clam Worm)					
Northern Feather Duster Worm (Carpet Worm)					
Cone Worm					
Calcareous Tube Worm					
Spiral Tube Worm					
Scaleworm					
<i>Brachiopods</i>					
Transverse Lampshell					
<i>Mollusks</i>					
<i>Chitons</i>					
Gumboot Chiton					
Black Katy Chiton					
Brick Chiton					
Mossy Chiton					
Tiger Chiton					
Lined Chiton					
<i>Limpets</i>					
Dunce Cap Limpet					
Plate Limpet					
<i>Snails</i>					
Hairy Triton					
Sitka Periwinkle					
Helicina Margarite					
Puppet Margarite					
Aleutian Moonsnail					
Ridged Neptune					
Channeled Dogwinkle					
Emarginate Dogwinkle					

Date					
Frilled Dogwinkle					
File Dogwinkle					
Big-mouth Whelk					
<i>Nudibranchs</i>					
Maned Nudibranch					
False Sea Lemon (False Lemon Peel)					
Orange-tipped Nudibranch					
Opalescent Nudibranch					
Bushy-backed Nudibranch					
<i>Clams</i>					
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					
<i>Mussels</i>					
Horse Mussel					
Pacific Blue Mussel					
<i>Scallops</i>					
Pink Scallop					
<i>Jingles</i>					
Rock Jingle					
<i>Cephalopods</i>					
Giant Pacific Octopus					
Stubby Squid					
<i>Arthropods</i>					
<i>Barnacles</i>					
Acorn Barnacle					
Pelagic Gooseneck Barnacle					
Thatched Acorn Barnacle					
<i>Crabs</i>					

Date					
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					

Date					
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)					
<u>Chordates</u>					
Tunicates					
Colonial Tunicate (Sea Pork)					
Sea Peach					
<u>Seaweeds</u>					
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					
<u>Beach Substrate</u>					
Type					

Date					
	<u>Bluff and Cliff Erosion</u>				
Comments					
	<u>Human Activities</u>				
Walking					
	Signs of				
	Actual observation				
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				
Picnicking					
	Signs of				
	Actual observation				
Horseback Riding					
	Signs of				

Date					
Actual observation					
Harvesting (specify)					
Signs of					
Actual observation					
Other (specify)					
<u>Vehicle Use</u>					
Cars/Trucks					
Sets of tracks					
Actual observation					
ATVs/Motorcycles					
Sets of tracks					
Actual observation					
Bicycles					
Sets of tracks					
Actual observation					
Aircraft					
Sets of tracks					
Actual observation					
Other (specify)					
<u>Structures on the Beach</u>					
Buildings					
Docks					
Driftwood Structures					
Riprapped Areas					
Erosion Control Structures					
Abandoned Vehicles					
Abandoned Boats					
Boat Parts					
<u>Archaeological Sites</u>					
Shell Middens					
Other (specify)					

Date					
<u>Outfalls or Pipes</u>					
Number					
Comments					
<u>Toxic Pollution</u>					
Fuel (oil, gas, etc.)					
Lubricating Oil					
Paint					
Batteries					
<u>Trash & Debris</u>					
(from International Coastal Cleanup Data Card)					
<i>Shoreline and Recreational Activities</i>					
Bags/Food Wrappers					
Balloons					
Beverage Bottles, plastic, 2-liter or less					
Beverage Bottles, glass					
Beverage Cans					
Caps, Lids					
Clothing, Cloth					
Cups, Plates, Forks, Knives, Spoons					
Diapers					
Fast-food Containers					
6-pack Holders					
Pull Tabs					
Shotgun Shells/Wadding					
Straws, Stirrers					
Toys					
<i>Ocean/Waterway Activities</i>					
Bait Containers/Packaging					
Bleach/Cleaner Bottles					
Buoys/Floats					
Crab/Lobster/Fish Traps					
Crates					

Date					
Fishing Line					
Fishing Lures					
Fishing Nets					
Light Bulbs/Tubes					
Oil/Lube Bottles					
Pallets					
Plastic Sheeting/Tarps					
Rope					
Strapping Bands					
<i>Smoking-Related Activities</i>					
Cigarettes/Cigarette Filters					
Cigarette Lighters					
Cigar Tips					
Tobacco Packaging/Wrappers					
<i>Dumping Activities</i>					
Appliances (refrigerators, washers, etc.)					
Batteries					
Cars/Car Parts					
Construction Materials					
55-gallon Drums					
Tires					
<i>Medical/Personal Hygiene</i>					
Syringes					
Condoms					
Tampons/Tampon Applicators					
<i>Debris Items of Local Concern</i>					
<i>Entangled Animals</i>					
Type of Animal					
Form of Entangling Debris					

Date					
Comments					
<i>Most Peculiar Item Collected?</i>					
<i>Comments</i>					
<u>Additional Observations and Comments</u>					