

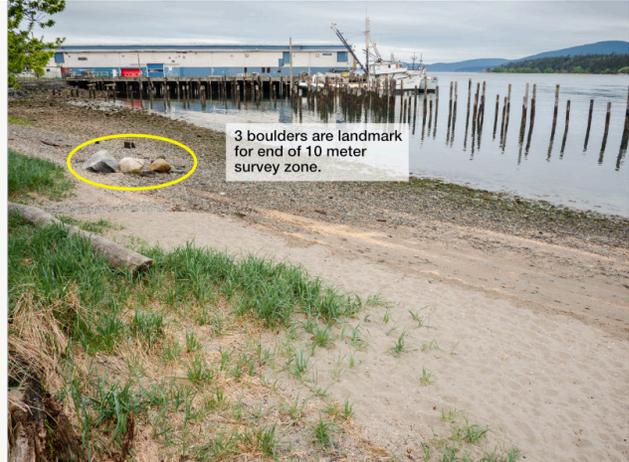
## MATERIALS REQUIRED

- Measuring tape
- Clipboard
- Pen or pencil
- Data sheet
- Ruler
- Debris Survey Protocols
- Blank sheet for debris photo
- Phone or Camera
- Debris collection bag
- Mask & gloves
- Hand sanitizer

## SURVEY STEPS

First time survey only:

- Find a permanent landmark on the beach to use each time you return to your beach to survey the same section.
- Take a picture of the beach from the top, pointed at the water.



**STEP 1:** Enter the following on Shoreline Debris Survey sheet:

- Beach name
- Your name in the Surveyor box
- Survey date
- Survey start time
- Circle what is present.

**STEP 2:** Measure and record the beach depth (waterline to edge of vegetation).

- Enter this distance on the Beach Depth box.
- Multiply the 10 meter width by Beach Depth and enter result in Area box.

**NOTE:** We don't require you visit the beach at the same time, tide, or day of the month. But we do need to know the square area of the beach surveyed.



**STEP 3:** Mark your 10 meter area.

Use your measuring tape; mark your 10 meter beach width that is parallel to the waterline.

- A good way to do this is to use two sticks or flags at each end of the survey width.

**STEP 4:** Collect your debris. Begin at the waterline, ensuring you are lined up with one end of your 10m survey line. Walk parallel to the water as you zig-zag up the beach, "mowing the beach," collecting all debris as you move from the waterline to the edge of the vegetation line.



**STEP 5:** Record and photograph debris items.

After you reach the vegetation line and have picked up all the debris in your survey area, find a clean area to empty your debris onto a blank sheet of paper.

- Place a ruler on the sheet of paper for size scale.
- Take a picture.

If you have more items than will fit on your paper, take multiple photographs until all items are photographed.



- Count all items and record on your data sheet.
- Enter the time you completed your beach survey on your data sheet in the End Time box.
- Take a picture of your data sheet.

- Email your data sheet and ALL photos to [marinedebris@thesalishseaschool.org](mailto:marinedebris@thesalishseaschool.org)
- Use "Month/Year" for the subject line.
- Example: "April/2021"
- Text or call Amy with questions/concerns 703-477-7432

Single Use Plastics	Count	General Debris Types	Count
Bags (grocery)		Plastics Whole	
Bags (zip lock)		Plastic Fragments	5
Bottles		Plastic Label	
Caps/lid seals		Springy Foam Plastic	
Cups		Nurdles	
Cutlery		Rubber	2
Food wrappers		Tobacco	
Other Jugs/containers		Glass	
Plastic labels		Processed wood	
Six-pack rings		Paper	2
Straws		Metal	2
Plastic to-go containers		Masonry	
Shotgun shells and wads		Fishing Line	
Springy foam plastic		Fishing Netting	1
Styrofoam to-go containers		Fishing Rope	2
<b>COVID PPE ITEMS</b>	<b>Count</b>	None of these categories (write description and counts below)	1
Face Masks		<b>Grand Total</b>	<b>15</b>
Face Shields		<b>CIRCUIT BOARD</b>	<b>1</b>
Gloves			
Other PPE items			
<b>Grand Total</b>			

MARINE DEBRIS SURVEY		
Beach	N STREET BEACH ANACORTES	
Surveyor	TIM GOERKE	
Date	Start Time	End Time
April 30 2021	12:30 PM	1:00 PM
Beach Width	Beach Depth	Area (Width X Depth)
10 Meters	30.5 M	305 M <sup>2</sup>
Circle # of people on beach	<input type="radio"/> 1-25 <input type="radio"/> 26-50 <input type="radio"/> 50+	
Circle what is present near your beach within 100 meters		
Stream	Water Inlet	Storm Drain
		Yacht Can
		Recreational/Commercial Boating
Photos Needed		
Group photo of all debris collected.	Close-ups of any unidentifiable, interesting, or difficult to categorize items.	Items that are too large to remove, as you found them, with a ruler for scale.
Send Debris Photos and PDF of this Survey to:		
<a href="mailto:marinedebris@thesalishseaschool.org">marinedebris@thesalishseaschool.org</a>		
Reminders		
<ul style="list-style-type: none"> <li>• Photograph as a group all items you collect from your beach survey.</li> <li>• Set items on a blank sheet of paper for a clearer photograph.</li> <li>• If too many items for one blank sheet then shoot more photos of items that did not fit on first blank sheet.</li> <li>• Avoid counting any debris item twice.</li> </ul>		

We seek to know the types and accumulation rate of debris on our shorelines.

# Safety Plan for Marine Debris Surveys

adopted from NOAA



The health and safety of participants is the number one priority during any field activity. Review this safety plan before going each month

Always use caution before, during, and after field surveys to prevent injury to yourself, other beach goers, or the environment.

Always check the tidal conditions before conducting your survey. Surveys should always be conducted at low tide as a safety precaution, especially in areas that may be flooded or inaccessible at high tide. Continuously keep an eye on the tide as you conduct your survey. Check the tides at your survey site at [www.tidesandcurrents.noaa.gov](http://www.tidesandcurrents.noaa.gov).

Never turn your back to the ocean due to the threat of sneaker waves. Ocean conditions can change rapidly.

Always check the weather before conducting your survey. NOAA weather forecasts can be found at [www.weather.gov](http://www.weather.gov).

Never conduct field operations in severe weather. In addition to being prepared for inclement weather, it's important to recognize and understand the symptoms of heat stress. These can include headache, nausea, weakness, thirst, and heavy sweating or red, hot, dry skin. If you experience these symptoms, stop your survey immediately to rest and hydrate, and call 911 if your symptoms are severe.

Always bring proper gear and multiple layers of clothing for the range of possible weather conditions. Closed toed shoes and gloves are required. Always wear and have sunscreen with you, even if it is cloudy, bring plenty of water, bring a first aid kit, hand sanitizer, and snacks.

Make sure you pack everything you might need in the field.

Stay alert and be aware of your surroundings and any potential hazards.

If you come across any potential hazardous materials - such as oil, chemical drums, or propane tanks - alert local personnel or land managers (such as a park ranger immediately).

In some cases, you may need to dial 9-1 -1, the National Response Center at 1 -800-424-8802, state environmental health agency, and the National Response Center 1-800-424-8802. Provide as much information as possible so the authorities can determine how to respond.

Do not attempt to move or pick up any item that looks like it may be dangerous or pose any kind of hazard.

Avoid picking up dead animals, syringes, needles, sharp or rusty items, or other hazardous objects.

If you find a derelict vessel or other large object that may become a hazard to navigation contact your local authorities (a 911 call), state environmental health agency, and the U.S. Coast Guard Pacific Area Command at 510-437-3701.

Provide as much information as possible so the authorities can determine how to respond.

If an item has unique identifiers and may be traceable to an individual or group, please take photos and report the item to [DisasterDebris@noaa.gov](mailto:DisasterDebris@noaa.gov) (note that the item was found during a monitoring survey).

Use your best judgment to determine what may or may not be valuable.