

Environmental Plastic Assessment Program (EPAP) Data Sheet

DATE: Month _____ Day _____ Year _____

Team Information:

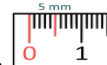
RIB # (circle which applies): #1 #2 #3 #4

| | | |
|-----------------------------------|---------------------------------------|------------------|
| Surveyors Full Name | | |
| Organization Name (if applicable) | Organization Location (City, Country) | |
| Email Address | Cleanup Start Time | Cleanup End Time |

Survey Area:

| | | | |
|---|--|--|--|
| Name of Beach | | Coordinates Lat: _____ Long: _____ | |
| Major Usage (check most appropriate option) <input type="checkbox"/> Recreation <input type="checkbox"/> Commercial <input type="checkbox"/> Remote/Unused <input type="checkbox"/> Other: _____ | Reason for Location Choice (check all that apply) <input type="checkbox"/> Proximity/Convenience <input type="checkbox"/> Known for Debris <input type="checkbox"/> Other: _____ | Compass Direction (when facing the water) <div style="text-align: center;">_____ °</div> | |
| Nearest River Output Name: _____ | | | |
| Approximate Distance from “zero” on the Spine: _____ | | | |
| Last Tide Before Clean Up Type (circle one): Low High Height: _____ Time: _____ | | Next Tide After Clean Up Type (circle one): Low High Height: _____ Time: _____ | |
| Wind Speed: _____ Direction: _____ <u>COMMENTS:</u> _____ | Slope (check the most appropriate one) (See glossary) <input type="checkbox"/> Winter Profile <input type="checkbox"/> Summer Profile | Substrate Type (check all that apply) <input type="checkbox"/> Sand <input type="checkbox"/> Pebble <input type="checkbox"/> Rip Rap (large boulders) <input type="checkbox"/> Seaweed <input type="checkbox"/> Other: _____ | |

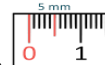
MACRO-Debris Surface Rib Scan: plastic must be larger than 5mm



A pencil eraser is 5mm




| | Rib #1 (closest to 0) | | Rib #2 | | Rib #3 | | Rib #4 (closest to 100) | | | |
|---|--------------------------|------------------|--------------|------------------|--------------|------------------|----------------------------|------------------|--|----------------------|
| SPINE Start Point (0-100 m) | | | | | | | | | Put Totals of all 4 Ribs in | |
| RIB LENGTH (m) | | | | | | | | | the Columns Below ↓ | |
| Item Type | Fresh | Weathered | Fresh | Weathered | Fresh | Weathered | Fresh | Weathered | (F) Total | (W) |
| Cigarette Butts | | | | | | | | | | |
| Fishing Line | | | | | | | | | | |
| Polypropylene Rope | | | | | | | | | | |
| Plastic Cups and Lids | | | | | | | | | | |
| Plastic Straws | | | | | | | | | | |
| Film Plastic | | | | | | | | | | |
| Plastic Bottles | | | | | | | | | | |
| PAGE 2 TOTALS GO HERE → | | | | | | | | | TOTAL (F) | TOTAL (W) |



A pencil eraser is 5mm



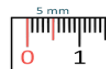
MACRO-Debris Surface Rib Scan: plastic must be larger than 5mm

| | Rib #1 | | Rib #2 | | Rib #3 | | Rib #4 | | | |
|---|--------|-----------|--------|-----------|--------|-----------|--------|-----------|------------------|------------------|
| Item Type | Fresh | Weathered | Fresh | Weathered | Fresh | Weathered | Fresh | Weathered | (F) Total | (W) |
| Plastic/Metal Bottle Caps | | | | | | | | | | |
| Urethane Foam | | | | | | | | | | |
| Styrofoam | | | | | | | | | | |
| Plastic base cloth such as nylon/polyester | | | | | | | | | | |
| Plastic Hygiene Items | | | | | | | | | | |
| Plastic PPE | | | | | | | | | | |
| Misc. Plastic | | | | | | | | | | |
| PAGE 3 TOTALS GO HERE  | | | | | | | | | TOTAL (F) | TOTAL (W) |

MACRO-Debris Accumulation Survey

| If unable to complete an accumulation survey, check box as to why: | | | | |
|--|-------|--|----------------------|---|
| <input type="checkbox"/> Not enough time | | <input type="checkbox"/> Not enough people | | <input type="checkbox"/> Too much trash |
| <input type="checkbox"/> Other: | | | | |
| Item Type | Fresh | Weathered | (F) Total | (W) |
| Cigarette Butts | | | | |
| Fishing Line | | | | |
| Polypropylene Rope | | | | |
| Plastic Cups and Lids | | | | |
| Plastic Straws | | | | |
| Film Plastic | | | | |
| Plastic Bottles | | | | |
| Plastic or Metal Bottle Caps | | | | |
| Urethane Foam | | | | |
| Styrofoam | | | | |
| Clothes (e.g., nylon/polyester) | | | | |
| Plastic Hygiene Items | | | | |
| Plastic PPE | | | | |
| Misc. Plastic | | | | |
| PAGE 4 TOTALS GO HERE → | | | TOTAL (F) | TOTAL (W) |

MICRO-Debris Surface Rib Scan:

 plastic must be $\leq 5\text{mm}$


A pencil eraser is 5mm



| | Fresh | Weathered | Total (F) | Total (W) |
|--------------------------------------|-------|-----------|------------------|------------------|
| Rib 1 | | | | |
| Rib 2 | | | | |
| Rib 3 | | | | |
| Rib 4 | | | | |
| MICRO DEBRIS TOTALS GO HERE → | | | TOTAL (F) | TOTAL (W) |



| Surface Rib Scan Totals From pgs. 2&3 (Use Numbers) | | |
|--|------------------|------------------|
| | Total Fresh | Total Weathered |
| PAGE 2 TOTALS | | |
| PAGE 3 TOTALS | | |
| PAGE 2 & 3 TOTALS GO HERE → | TOTAL (F) | TOTAL (W) |

| Cumulative Cleanup Totals (Use Numbers) | | | |
|---|-------------|-----------------|-------|
| | Total Fresh | Total Weathered | TOTAL |
| Totals from Accumulation Survey (pg.4) | | | |
| Totals from <u>Micro Debris</u> Surface Rib Scan (from above) | | | |
| Totals from <u>Macro Debris</u> Surface Rib Scan (from above) | | | |
| TOTAL OF ALL PIECES GOES HERE → | | | |

| | |
|--|--|
| <u>Total Weight</u> of All Pieces | |
|--|--|

GLOSSARY:

Accumulation Sweep: The accumulation sweep documents the remaining 80% of the field area. Volunteers line up at arm's length at one end of the 100 m 'spine' (see below) and pick up and record all plastic trash along the spine. This can only be done if you have enough volunteers to cover every portion of the field area, and time to complete the task.

Field Area: If the field area being surveyed is extremely wide, the spine can be placed approximately 50 m from the water's edge, or at the change of substrate. Each individual survey lead needs to decide on how large the survey area should be. Once decided, all subsequent survey dimensions in this field area must remain the same to maintain consistency.

Film Plastic: Thin-gauge packaging material used as a bag or a wrap. Examples include grocery sacks, trash bags, candy/food wrappers, drycleaner bags, agricultural sheeting, and plastic wrap.

Micro Debris: Any pieces of plastic smaller than 5 mm.

Miscellaneous Plastic: Pieces or fragments of plastic that may or may not be identifiable. This category includes countless different types of plastic such as: hangers, toys, shotgun wads, etc.

Plastic Hygiene Items: Whole pieces or fragments of toothbrushes, combs, hairbrushes, tampons etc.

Plastic PPE (Personal Protective Equipment): Medical face masks, shields, gloves, gowns etc.

Rib: The four ribs begin at randomly generated starting places along the 100 m spine that run perpendicular to the spine toward the water's edge.

Spine: A 100 m section of the shoreline that runs parallel to the water's edge that is typically located in the back beach where there is a change of substrate. The surveyors have the choice to shorten the rib when necessary.

Substrate: The type of material that makes up the shoreline that you are surveying. The substrate can be sand, gravel, rock, seaweed, grass, or other materials.

Summer Beach Profile: The major distinction of a summer beach profile is that it has a steeper slope down to the water than the winter beach profile. The summer beach profile typically has an uphill slope to the water called the berm. The 'berm crest' is the point where the beach starts sloping steeply toward the water. The summer beach profile typically has the presence of a berm and more sand than the winter beach profile.

Surface Rib Scan: Starting at the spine, volunteers walk toward the water, surveying one side of the rib at a time. Pick up and record all plastic items only on the surface that are greater than 5 mm. The survey area is 2.5 m on either side of the Rib, making a total of 5 m per Rib. After four surface rib scans are completed, 20 m of the field area have been documented.

Urethane Foam: Soft, porous foam material typical from a mattress or seat cushion which commonly turns brown as it oxidizes.

Winter Beach Profile: The winter beach profile has a gentle slope to the water, often nearly flat. The winter beach profile typically lacks the berm, the portion of the beach that slopes uphill toward the water. Winter beaches typically have less sand than the summer beach.