



# BEACH LITTER MONITORING

NATURE TRUST MALTA IN COLLABORATION WITH  
CLEAN UP THE MED

# DESIGN OF THE STUDY



# DESIGN (CONT.)

- THE BEACH CHOSEN HAS TO BE A 'FREE' BEACH
- BEACH MUST BE SUBJECT TO LITTER ACCUMULATION (DUE TO PRESENCE OF CURRENTS, WINDS, PROMONTORIES ETC)
- ALL OBJECTS THAT ARE VISIBLE, EVEN IF PARTIALLY BURIED, HAVE TO ENTER THE STUDY (SOMETIMES MIGHT BE EASIER TO COLLECT EVERYTHING AND THEN SORT LATER)
- NO UPPER SIZE LIMITATION. OBJECTS ENTERED INTO STUDY FROM 2.5CM UPWARDS (THIS ENSURES THAT CIGARETTE BUTTS, PLASTIC CAPS ETC ARE INCLUDED)
- NURDLES NOT INCLUDED IN STUDY AS SMALLER THAN 2.5CM
- FRAGMENTS THAT CAN IDENTIFY OBJECT OF ORIGIN ARE COUNTED AS THAT ORIGINAL OBJECT



Plastic	4/6-pack yokes, six-pack rings	Plastic	Tobacco pouches / plastic cigarette box packaging
Plastic	Shopping Bags incl. pieces	Plastic	Cigarette lighters
Plastic	Small plastic bags, e.g. freezer bags incl. Pieces	Plastic	Cigarette butts and filters
Plastic	Plastic bags collective role; what remains from rip-off plastic bags	Plastic	Pens and pen lids
Plastic	Drink bottles <= 0.5l	Plastic	Combs/hair brushes/sunglasses
Plastic	Drink bottles > 0.5l	Plastic	Crisps packets/sweets wrappers
Plastic	Cleaner bottles & containers	Plastic	Lolly sticks
Plastic	Food containers incl. fast food containers	Plastic	Toys and party poppers
Plastic	Beach use related cosmetic bottles and containers, eg. Sunblocks	Plastic	Cups and cup lids
Plastic	Other cosmetics bottles & containers	Plastic	Cutlery and trays
Plastic	Other bottles & containers (drums)	Plastic	Straws and stirrers
Plastic	Engine oil bottles & containers <50 cm	Plastic	Fertiliser/animal feed bags
Plastic	Engine oil bottles & containers > 50 cm	Plastic	Mesh vegetable bags
Plastic	Jerry cans (square plastic containers with handle)	Plastic	Gloves (washing up)
Plastic	Injection gun containers	Plastic	Gloves (industrial/professional rubber gloves)
Plastic	Crates and containers / baskets	Plastic	Crab/lobster pots and tops
Plastic	Car parts	Plastic	Tags (fishing and industry)
Plastic	Plastic caps/lids drinks	Plastic	Octopus pots (plastic)
Plastic	Plastic caps/lids chemicals, detergents (non-food)	Plastic	Mussels nets, Oyster nets
Plastic	Plastic caps/lids unidentified	Plastic	Oyster trays (round from oyster cultures)
Plastic	Plastic rings from bottle caps/lids	Plastic	Plastic sheeting from mussel culture (Tahitians)

Plastic	Rope (diameter more than 1cm)
Plastic	String and cord (diameter less than 1cm)
Plastic	Nets and pieces of net < 50 cm
Plastic	Nets and pieces of net > 50 cm
Plastic	Tangled nets/cord
Plastic	Fish boxes - plastic
Plastic	Fish boxes - expanded polystyrene
Plastic	Fishing line/monofilament (angling)
Plastic	Light sticks (tubes with fluid) incl. packaging
Plastic	Floats for fishing nets
Plastic	Buoys
Plastic	Fenders
Plastic	Buckets
Plastic	Strapping bands
Plastic	Sheets, industrial packaging, plastic sheeting
Plastic	Fibre glass/fragments
Plastic	Hard hats/Helmets
Plastic	Shotgun cartridges
Plastic	Shoes/sandals
Plastic	Foam sponge
Plastic	Plastic pieces 2.5 > < 50 cm

Plastic	Plastic pieces > 50 cm
Plastic	Polystyrene pieces 2.5 cm > < 50 cm
Plastic	Polystyrene pieces > 50 cm
Plastic	CD, CD-box
Plastic	Salt packaging
Plastic	Fin trees (from fins for scuba diving)
Plastic	Masking tape
Plastic	Telephone (incl. parts)
Plastic	Plastic construction waste
Plastic	Plastic flower pots
Plastic	Biomass holder from sewage treatment plants
Plastic	Bait containers/packaging
Plastic	Cable ties
Plastic	Cotton bud sticks
Plastic	Sanitary towels/panty liners/backing strips/tampons and tampon applicators
Plastic	Toilet fresheners
Plastic	Diapers/nappies
Plastic	Syringes/needles
Plastic	Medical/Pharmaceuticals containers/tubes
Plastic	Dog feces bag
Plastic	Flip-flops
Plastic	Other plastic/polystyrene items (identifiable)

<b>Rubber</b>	Balloons and balloon sticks
<b>Rubber</b>	Balls
<b>Rubber</b>	Rubber boots
<b>Rubber</b>	Tyres and belts
<b>Rubber</b>	Inner-tubes and rubber sheet
<b>Rubber</b>	Wheels
<b>Rubber</b>	Rubber bands (small, for kitchen/household/post use)
<b>Rubber</b>	Condoms (incl. packaging)
<b>Rubber</b>	Other rubber pieces
<b>Cloth/Textile</b>	Clothing / rags (clothing, hats, towels)
<b>Cloth/Textile</b>	Shoes and sandals (e.g. Leather, cloth)
<b>Cloth/Textile</b>	Backpacks & bags
<b>Cloth/Textile</b>	Sacking (hessian)
<b>Cloth/Textile</b>	Carpet & Furnishing
<b>Cloth/Textile</b>	Rope, string and nets
<b>Cloth/Textile</b>	Sails, canvas
<b>Cloth/Textile</b>	Other textiles (incl. rags)

<b>Paper/Cardboard</b>	Paper bags
<b>Paper/Cardboard</b>	Cardboard (boxes & fragments)
<b>Paper/Cardboard</b>	Cartons/Tetrapack Milk
<b>Paper/Cardboard</b>	Cartons/Tetrapack (others)
<b>Paper/Cardboard</b>	Cigarette packets
<b>Paper/Cardboard</b>	Cups, food trays, food wrappers, drink containers
<b>Paper/Cardboard</b>	Newspapers & magazines
<b>Paper/Cardboard</b>	Paper fragments
<b>Paper/Cardboard</b>	Other paper items
<b>Wood (processed/worked)</b>	Corks
<b>Wood (processed/worked)</b>	Pallets
<b>Wood (processed/worked)</b>	Processed timber
<b>Wood (processed/worked)</b>	Crates
<b>Wood (processed/worked)</b>	Crab/lobster pots
<b>Wood (processed/worked)</b>	Fish boxes
<b>Wood (processed/worked)</b>	Ice-cream sticks, chip forks, chopsticks & toothpicks
<b>Wood (processed/worked)</b>	Other wood < 50cm
<b>Wood (processed/worked)</b>	Other wood > 50 cm

<b>Metal</b>	Aerosol/Spray cans industry
<b>Metal</b>	Cans (beverage)
<b>Metal</b>	Cans (food)
<b>Metal</b>	Foil wrappers, aluminum foil
<b>Metal</b>	Bottle caps, lids & pull tabs
<b>Metal</b>	Disposable BBQ's
<b>Metal</b>	Appliances (refrigerators, washers, etc.)
<b>Metal</b>	Tableware (plates, cups and cutlery)
<b>Metal</b>	Fishing related (weights, sinkers, lures,
<b>Metal</b>	Lobster/crab pots
<b>Metal</b>	Industrial scrap
<b>Metal</b>	Drums, e.g. oil
<b>Metal</b>	Other cans (< 4 L)
<b>Metal</b>	Gas bottles, drums & buckets (> 4 L)
<b>Metal</b>	Pint tins
<b>Metal</b>	Wire, wire mesh, barbed wire
<b>Metal</b>	Car parts / batteries
<b>Metal</b>	Cables
<b>Metal</b>	Household batteries
<b>Metal</b>	Other metal pieces < 50 cm
<b>Metal</b>	Other metal pieces > 50 cm

<b>Glass</b>	Bottles incl. pieces
<b>Glass</b>	Light bulbs
<b>Glass</b>	Tableware (plates & cups)
<b>Glass</b>	Construction material (brick, cement, pipes)
<b>Glass</b>	Fluorescent light tubes
<b>Glass</b>	Glass or ceramic fragments > 2,5cm
<b>Glass</b>	Other glass items
<b>Chemicals</b>	Other medical items (swabs, bandaging, adhesive plaster, etc.)
<b>Chemicals</b>	Paraffin/Wax















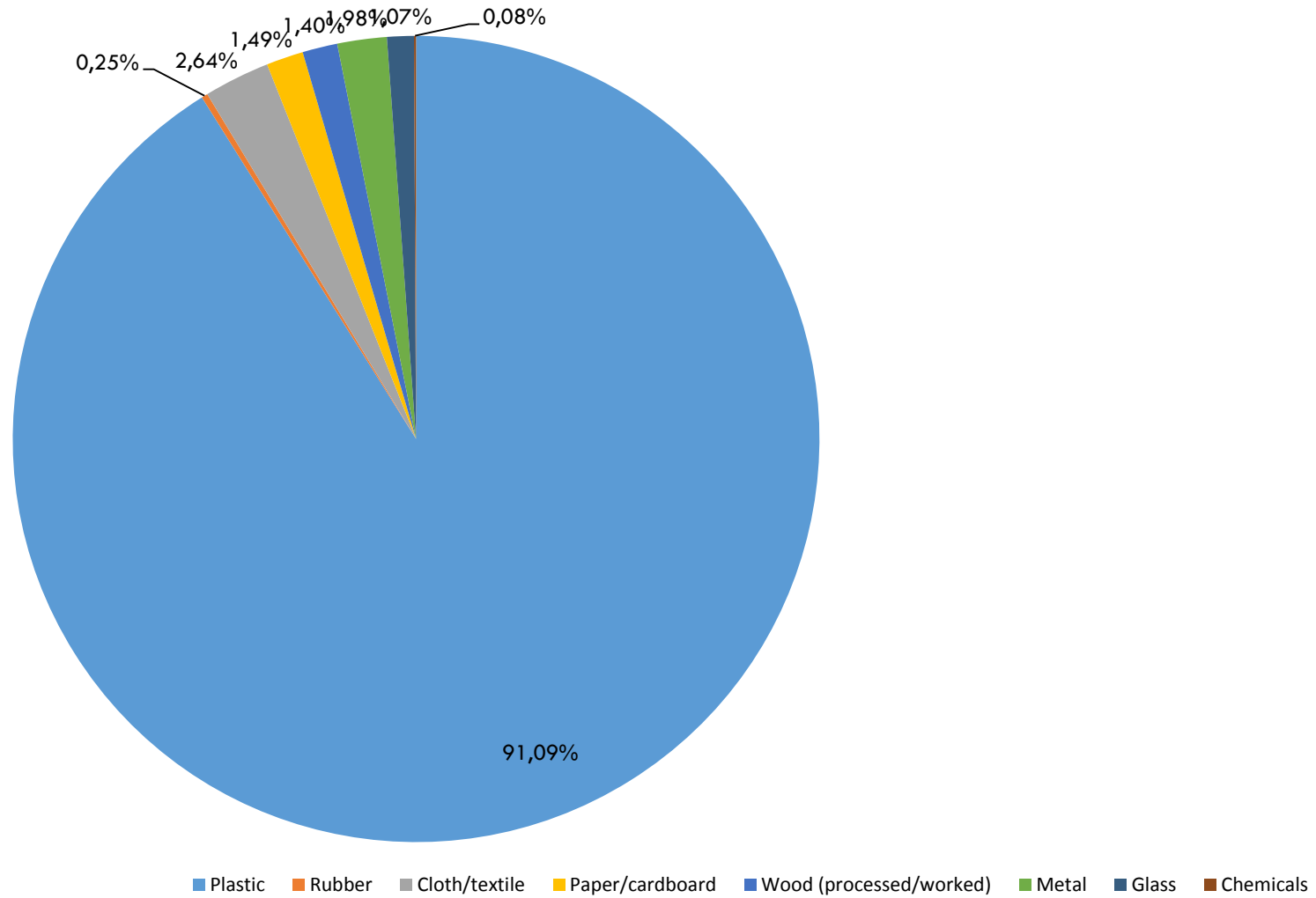




# RESULTS

<b>Plastic</b>	Plastic pieces 2.5 > < 50 cm	G79	<b>362</b>
<b>Plastic</b>	Cotton bud sticks	G95	<b>120</b>
<b>Plastic</b>	Cigarette butts and filters	G27	105
<b>Plastic</b>	String and cord (diameter less than 1cm)	G50	83
<b>Plastic</b>	Plastic caps/lids drinks	G21	62
<b>Plastic</b>	Lolly sticks	G31	47
<b>Plastic</b>	Crisps packets/sweets wrappers	G30	46
<b>Plastic</b>	Straws and stirrers	G35	43
<b>Plastic</b>	Plastic caps/lids unidentified	G23	33
<b>Plastic</b>	Plastic caps/lids chemicals, detergents (non-food)	G22	25
<b>Plastic</b>	Cable ties	G93	<b>25</b>
<b>Cloth/Textile</b>	Rope, string and nets	G142	21
<b>Plastic</b>	Plastic rings from bottle caps/lids	G24	16
<b>Plastic</b>	Other plastic/polystyrene items (identifiable)	G124	<b>16</b>
<b>Plastic</b>	Sanitary towels/panty liners/backing strips/tampons and tampon applicators	G96	<b>15</b>
<b>Metal</b>	Bottle caps, lids & pull tabs	G178	13
<b>Plastic</b>	Cutlery and trays	G34	12
<b>Plastic</b>	Food containers incl. fast food containers	G10	11
<b>Plastic</b>	Plastic construction waste	G89	<b>11</b>
<b>Paper/Cardboard</b>	Other paper items	G158	10

# 1: Materials



# FUTURE STUDIES

- REPEAT STUDIES EVERY YEAR IN SAME BEACH
- INTRODUCTION OF OTHER BEACHES IN STUDY
- COMPARISON OF ITEMS FOUND IN BEACHES FACING DIFFERENT ANGLES OF WIND
- COLLABORATION WITH OTHER ENTITIES DOING SIMILAR STUDIES



THANK YOU