

# MELBOURNE WATER LITTER

## STANDARD OPERATING PROCEDURE

# Conducting Quantitative Bank Surveys of Litter in inland waterways

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#### **Acknowledgment of Country**

Melbourne Water and RMIT University respectfully acknowledges Aboriginal and Torres Strait Islander peoples as the Traditional Owners and custodians of the land and water on which all Australians rely. This research was conducted on Woi wurrung and Boon Wurrung Country and we pay our respects to their Elders past and present as Traditional Owners and the custodians of the land and water on which we rely and operate.

We acknowledge and respect the continued cultural, social and spiritual connections of all Aboriginal Victorians, and the broader Aboriginal and Torres Strait Islander community have with lands and waters and recognise and value their inherent responsibility to care for and protect them for thousands of generations.

Melbourne Water is committed to working in partnership with Traditional Owners to ensure meaningful ongoing contribution to the future of land and water management.

Report produced by: Aquatic Environmental Stress Research Group under the Aquatic Pollution Prevention Partnership with Melbourne Water RMIT University

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## **Attached Documents**

- Litter Characterisation Categories (6 pages) Waterway Characterisation Sheet (2 pages) Litter Characterisation Site Sheet (2 pages) 1.
- 2.
- 3.



## 1. Introduction

This is a guide for setting up and conducting comprehensive bank surveys for assessing litter quantities and types around urban waterways. It includes relevant safety issues, methods and emergency responses.

# 2. Scope

This SOP applies to all staff, students and volunteers conducting bank surveys.

# 3. Safety

Hazards associated with this task:

- Working near water (flash floods, risk of drowning or injury).
- Working outside (sunburn, falling trees, dangerous animals).
- Slippery or unstable banks.
- Trip hazards (rocks and logs) which may be concealed.
- Sharp or hazardous litter items (glass, sharps, asbestos).

#### Measures to reduce hazards:

- Sites should be easily accessible by road with only a short walk required.
- An easily accessible site without steep or unstable banks should be selected.
- Be aware of recent rainfall and the potential for water to rise rapidly.
- Surveys must be conducted with a minimum of two people who must be within visual range of each other at all times.
- Appropriate PPE (gloves, hats, long sleeves, gaters) should be worn.

# 4. Training and Competency

The SOP should be read and understood prior to commencing the surveys.

# 5. Equipment

- 5x buckets or bags
- 1x tape measure
- 8x stakes or high vis markers or spray paint
- 2x 2m long sticks or stakes or pieces of string
- Sharps container
- Scales
- Bin bag
- Gloves
- Data labels
- Markers
- Data sheets
- Pencil
- Tongs
- Sorting trays (optional)



Figure 1. Examples of equipment. Not all required equipment pictured.



# 6. Site Access

Banks with easy road or path access should be surveyed. Litter collected may be heavy, so long and arduous walks are best avoided. It is recommended that the stretches be inspected prior to set-up so that any hazards can be identified and noted.



Figure 2. Examples of sites. Path access visible in each image.



# 7. Methodology

- 1. Start downstream and work in an upstream direction.
- 2. Measure a 60m stretch following the bank longitudinally and mark the following distances: 2m, 16m, 30m, 44m, 58m. Transects 1-5 will be measured from these points and will run inland at a 90° angle to the river (refer to figure 3 for full schematic of method)
- 3. Follow the bank as closely as possible. If the bank is very unevenly eroded, choose a line of best fit (figure 4)
- 4. Identify the dominant debris line (ddl). The ddl is where most debris (litter and organic matter) has been deposited on the bank by high flows (figure 5). Multiple debris lines may be present. The dominant debris line will contain the most amount of debris and be the most continuous line along the bank.
  - Some debris may be trapped in vegetation immediately along the bank (figure 5b). This may be the dominant line. If this is the case for each transect in the 60m sampling stretch, measure the transects as though there is no ddl.
  - If there is no obvious ddl, measure two meters beyond what is perceived to be the high flood mark using the gradient of the bank as an indication.
  - If there is no obvious demarkation, measure 10m beyond the water's edge.
- 5. Measure and mark Transect 1 (2m into the survey area) starting at the water's edge and finishing 2m beyond where the dominant debris line (ddl) finishes (Figure 6).
- **6.** Record the length of the transect using the data sheet under Transect 1. Leave the tape measure in situ.
- 7. The sampling area follows the transect and includes 2m on either side of the tape measure (4m in total). Either measure 2m parallel to the river with a tape measure and mark it with stakes, or use a 2m stake, stick or string to indicate how far it extends from the tape measure (figure 7).
- 8. Starting at the riverbank, walk on one side of the tape measure and collect all visible litter from an upright position between the tape and to 2m parallel to the tape. Place the litter in a bag or bucket as you collect it. At the end of the transect, turn and walk back along the other side of the tape measure collecting all visible litter (figure 7).
- Repeat this process scanning the sampling area and collecting any overlooked litter until all the litter present in the sampling zone has been collected.
- 10. Measure and mark the remaining four transects. Use steps 8-10 to collect litter. If the river is bendy, then the transects will not be parallel (figure 3).
- 11. Prior to sorting, photograph litter collected from each transect. You can place the litter in a sorting tray or on the ground for photographing. Make sure you place the label with the litter so that the site, date, and transect can be identified. Sort and record litter types, quantities, volumes and weights in the data sheets provided.
- 12. Once litter has been processed it can be collected in a bag and disposed of in a bin.



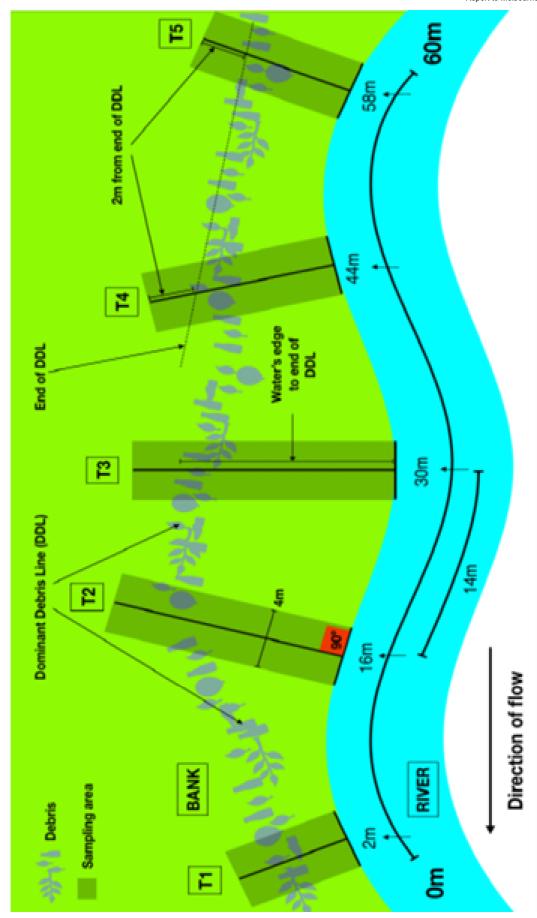


Figure 3. Schematic of quantitative bank survey method.





Figure 4. Unevenly eroded bank. Line of best fit used. Note: Zone A falls on the steep slope. Only sample sections you can access safely.



Figure 5. Examples of dominant debris lines (ddl) circled in orange. Some ddls may be very obvious (5a). Others may be formed by litter trapped in vegetation immediately along the bank (5b).





Figure 6. Worked example of a transect. The tape measure marks the transect and the cones indicate where it starts and ends (6a, 6b). The transect ends 2m beyond the ddl (6b). The ddl itself may extend some distance away from the bank (6c).

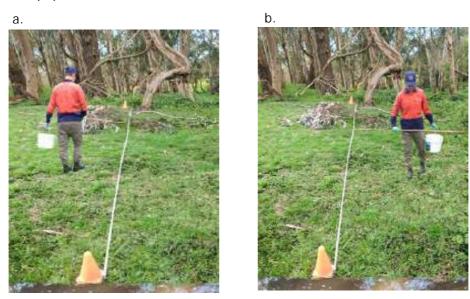


Figure 7. Examples of collection method. A 2m stake is used to indicate the collection zone from the tape measure. The area is searched twice, once in each direction. Walk upright when searching for litter, bending only to collect pieces.



#### 7a. Notes on Method

- Only collect the litter from areas which you can access safely. If up to and including 50% of a sampling area is considered unsafe or inaccessible, photograph the unsafe area and note the transect it covers. Collect litter from the remaining area. If more than 50% of the area is unsafe, then move the transect a minimal distance either upor down-stream so that at least 50% of the new area can be sampled (figure 9). Note the new distance along the river and photograph the old and new sampling areas.
- When collecting litter, ensure you walk upright, only bending to collect litter that is visible (figure 8). Do not place your hands where you can't see them. If you feel something underfoot, use your foot to move any vegetation obscuring your view. If you do not feel safe picking an item up with your hands, either use tongs or leave it. Tongs should be used when collecting sharp (glass) or hazardous items. These items should be placed it in a bucket of their own with a label and warning and all on-site individuals should be informed immediately. A sharps container should be available and onsite for any sharps which may be collected. If asbestos is identified in a transect, it should ideally be covered with a spare bucket, tray or bag and its location marked with a stake. The asbestos SOP should be followed. If unsure, contact the relevant supervisor for additional information.
- If collecting in pairs, collect rubbish with one person on each side of the transect walking in one direction within the zone, then swap sides to walk in the opposite direction. This ensures that each side is covered twice by two different people walking in two directions.
- The litter can be sorted once all litter at a transect has been completed, or can be left in a labelled bucket until all transects have been completed and sorted off-site. If working in a team, different individuals can complete each task. It is important to photograph the litter collected from each zone and in each transect.

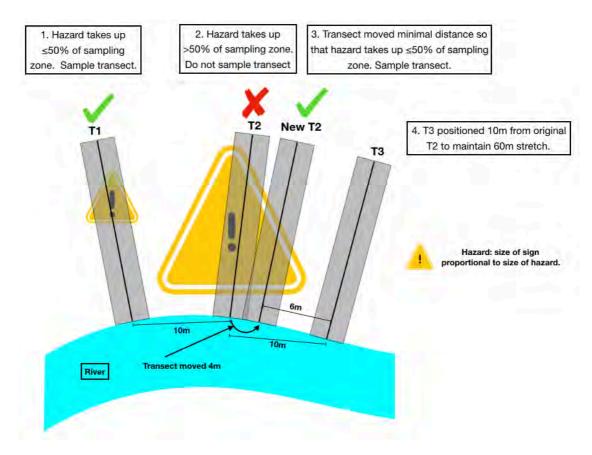


Figure 8. Safe sampling. If a hazard takes up  $\leq$ 50% of the sampling zone, avoid sampling the unsafe area. Move the transect if more than 50% of the sampling zone is unsafe.



# 8. Completion of Data Sheets

This document contains the following sheets: Waterway Characterisation Sheet, Litter Characterisation Form and the Litter Characterisation Categories.

- The Waterway Characterisation Sheet must be completed once per site.
- The Litter Characterisation Site Sheets and the Litter Characterisation Forms but be completed each litter collection for each site.
- The Litter Characterisation Categories simply outline the information in the River Litter Characterisation Form and may be used for note-taking in the field.

### 9. Recommended PPE

- Required sun protection (hat, long sleeves, long pants, sun screen).
- Disposable gloves.
- Closed-toed shoes.
- Eye protection if working in vegetation.
- High visibility clothing if required.

## 10. Waste Disposal

- Following recording, weighing and photographing, all litter should be placed in a plastic bag and placed in a bin.
- All sharps, sharp or hazardous items need to be disposed of appropriately.
- If a notable pollution event is observed or particularly hazardous waste in large quantities is noticed, the EPA may need to be notified.

# 11. Emergency Responses

- Notify the relevant emergency response department e.g. Fire, Ambulance, Police on 000.
- Notify relevant contact as per required EHS paperwork.



# LITTER CHARACTERISATION CATEGORIES

	PLASTICS					
CLASS	LITTER FORM 1	LITTER FORM 2	Litter Code			
1		Nurdles/resin pellets	PL01			
2	Microplastics	Soft Plastics <5mm	PL02			
3		Hard plastic pieces < 5mm	PL03			
4	Cigarette butts		PL04			
5		Lighter	PL05			
6	Other cigarette related litter	Cardboard type packets & cartons	PL06			
7		Outer wrapper, foil inners, tobacco pouches	PL07			
8	Food wrappers (soft includes metallic type) chips, confectionary etc.		PL08			
9		Forks, knives & spoons	PL09			
10	Cutlery, stirrers & plates	Stirrers	PL10			
11		Picnic type plates & bowls	PL11			
12	Straws		PL12			
13		Coffee cup & lid	PL13			
14		Coffee cup only	PL14			
15		Coffee lid only	PL15			
16	Coffee cups & lids	Smoothie type cups only (transparent plastic)	PL16			
17	l correct cups & hus	Smoothie lid only (transparent domed plastic)	PL17			
18		Cardboard mix drink dispenser cup	PL18			
19		Flat plastic cup lids (not coffee)	PL19			
20		Plastic picnic type cups	PL20			
21		Bottles 1L or less only	PL21			
22	Beverage bottles (includes	Bottles >1L only	PL22			
23	caps & labels)	Lid and lid rings only	PL23			
24		Labels only	PL24			
25		Lollipop sticks	PL25			
26 27		Soy sauce fish & caps Other sauce sachets	PL26			
28		Mesh bags (vegetable, oyster, mussel etc.)	PL27 PL28			
29		Ring carriers (six-pack can holders etc.)	PL29			
30		Hard takeaway food tubs & lids	PL30			
31		Cling wrap/ film	PL31			
32		Wine & beverage bladders (with box if present)	PL32			
33	Food & beverage other	Other food containers (ice cream, food jars etc.)	PL33			
34	packaging (hard & soft)	Bread bag tags	PL34			
35		Paperboard milk cartons (animal or plant) 1L or less	PL35			
36		Paperboard milk cartons (animal or plant) >1L	PL36			
37		Other paperboard beverage cartons 1L or less	PL37			
38		Other paperboard beverage cartons >1L	PL38			
39		Beverage pouches / squeeze tubes	PL39			
40		Food pouches/ squeeze tubes (yoghurt etc.)	PL40			
41		Bread bag, pasta bag & similar	PL41			

42		Light weight bag	DI 42
42		Heavy weight / retail bag	PL42 PL43
43		Ice bag	
45		Snap lock type bags	PL44 PL45
46	Bags	Small produce/ barrier bags (from grocery store etc.)	PL45 PL46
47	l bays	Dog poo & nappy bags (empty)	
48		Dog poo & nappy bags (empty)  Dog poo & nappy bags (full)	PL47
49		91 113 9 1 1	PL48
50		Garbage, rubbish bags, bin liners (empty)	PL49
51		Garbage, rubbish bags, bin liners (full) Foil balloons only	PL50
52		Rubber type balloons only	PL51
53	Balloons & balloon accessories (strings & sticks)	Balloon ribbons/ strings	PL52
54	accessories (strings & sticks)	Balloon sticks & clips	PL53
		'	PL54
55 56		Cable ties & fasteners	PL55
56		Tile spacers  Commercial type tags	PL56
		Commercial type tags	PL57
58 59		Strapping band (whole)	PL58
		Strapping band scraps	PL59
60		Packaging accessories (seals, reels, spools, handles etc.)	PL60
61	   Industrial litter/waste &	Duct tape, masking tape etc.	PL61
62	nurdles	Pipe, PVC, irrigation & articulation	PL62
63		Farming implements, devices & fittings	PL63
64		Blasting items	PL64
65		Tubes & hoses	PL65
66		Caulking tubes & guns (silicone etc.)	PL66
67		Sheeting (tarpaulin, woven bags, pallet wrap)	PL67
68		Foam ear buds	PL68
69		Other OH&S items (gloves etc.)	PL69
70	Unidentifiable fragments	Hard plastic pieces 5mm & greater	PL70
71	(hard & soft)	Soft plastic pieces 5mm & greater	PL71
72		Fibre glass fragments	PL72
73		Bait bag	PL73
74		Tackle bags & fishing item packaging	PL74
75		Bait containers & lids / bait savers	PL75
76		Plastic buoys & floats	PL76
77		Commercial fishing traps, pots, aquaculture items etc.	PL77
78	Fishing items	Recreational fishing items (lures, floats, rods, reels etc.)	PL78
79		Fishing line pieces (<1m)	PL79
80		Fishing line (1m & greater)	PL80
81		Fishing net scraps (<1m)	PL81
82		Fishing net (1m & greater)	PL82
83		Fishing glow sticks	PL83
84	Syringes		PL84
85		First aid materials & equipment (band aids, thin gloves etc.)	PL85
86		Sanitary pads & tampons	PL86
87		Other drug paraphernalia	PL87
88	Medical waste & sanitary	Other sharps	PL88
89	Medical waste & sanitary	Cotton buds (plastic stick)	PL89

90	Ittorns	Condoms & foil/ plastic wrappers	PL90
91		Single use nappies	PL91
92		Dental floss	PL92
93		Wet wipes/ baby wipes	PL93
94		Synthetic rope (>1cm diameter)	PL94
95		Plastic string & cord (<1cm diameter)	PL95
96		Pens, markers & other stationary	PL95 PL96
97		Clothing tags and fasteners	PL96 PL97
98		Personal care & pharmaceutical packaging	PL97 PL98
99		Hair ties	PL98 PL99
99		Hair bands, clips, shower caps, comb/ hairbrush,	PL99
100		toothbrushes	PL100
101		Synthetic cleaning sponges, wipes, brushes etc.	PL101
102		Toys, party poppers etc.	PL102
103		Glow sticks, bangles (not for fishing) etc.	PL103
104		Ceremonial & festive (wreaths, flowers etc.)	PL104
105		Childcare items	PL105
106		Recreation & sporting equipment	PL106
107		Gardening items	PL107
108	Other plastics (not EPS)	Housewares, tableware, house fittings	PL108
109	other plastics (not Ers)	Outdoor furniture & camping items (chairs, tables, eskies etc.)	PL109
110		Lids, pump spray, bottle tops etc. (Not from beverages)	PL110
111		Bleach & cleaner bottles	PL111
112		Non-food containers including tubes (oil, sealant, chemical,	
110		glue) >4L	PL112
113		Non-food containers (oil, sealant, chemical, glue) 4L+	PL113
114		Signs (corflute etc.)	PL114
115		Wrap non-food & bubble wrap	PL115
116		Lino, plastic type decking, boat decking	PL116
117		Maritime safety & survival equipment	PL117
118		Municipal activities (tree guards, barrier fence etc.)	PL118
119		Shotgun cartridges & wadding	PL119
120		Vehicle parts	PL120
121		Oceanic research items	PL121
122		Plastic-type material shopping dockets, receipts, tickets	PL122
	EF	PS (Expanded Polystyrene)	
CLASS	LITTER FORM 1	LITTER FORM 2	Litter Code
123		Packaging beads (<5mm)	EPS01
124	Microplastics	Unidentifiable polystyrene pieces <5mm	EPS02
125	Fishing Items (buoys & floats)	1 3 3 1	EPS03
126		Cune	
120		Cups Plates	EPS04
127	Food & beverage packaging		EPS05
128		Takeaway containers (lidded)  Meat trays & similar	EPS06
130		,	EPS07
130		Packaging peanuts & beads (5mm & greater)	EPS08

404			
131		Other packaging	EPS09
132	Other polystyrene	Eskies, fish boxes & similar	EPS10
133	,	Unidentifiable pieces 5mm & greater	EPS11
134		Weather balloon parts	EPS12
135		Foam sponge sheeting	EPS13
		GLASS	
CLASS	LITTER FORM 1	LITTER FORM 2	Litter Code
136		Wine & spirit bottles	GL01
137	Beverage Bottles	Other alcoholic beverages (Beer, cider, ready mixed etc.)	GL02
138	_	Soft drink, juice, milk & water bottles	GL03
139		Buoys	GL04
140		Unidentifiable broken pieces	GL05
141		Tableware (plates & cups etc.)	GL06
142	Other glass & unidentifiable	Fluorescent light tubes	GL07
143	pieces	Light globes/ bulbs	GL07
144		Jars & sauce bottles	GL00
145		Knick knacks/ ornaments	GL09 GL10
143		METAL	GLIU
			Litter
CLASS	LITTER FORM 1	LITTER FORM 2	Code
146	Aluminium beverage cans	Soft drink, water, juices	ME01
147	Aluminium beverage cans	Alcoholic (beer, spirits, ready mixed etc.)	
147 148	Aluminium beverage cans Industrial waste/litter	Alcoholic (beer, spirits, ready mixed etc.)  Tools, building & trades materials (not E Waste)	ME01
147 148 149	, and the second	Alcoholic (beer, spirits, ready mixed etc.) Tools, building & trades materials (not E Waste) Buoys & floats	ME01 ME02
147 148	Industrial waste/litter	Alcoholic (beer, spirits, ready mixed etc.) Tools, building & trades materials (not E Waste) Buoys & floats Traps & pots	ME01 ME02 ME03
147 148 149	, and the second	Alcoholic (beer, spirits, ready mixed etc.) Tools, building & trades materials (not E Waste) Buoys & floats	ME01 ME02 ME03 ME04
147 148 149 150	Industrial waste/litter	Alcoholic (beer, spirits, ready mixed etc.) Tools, building & trades materials (not E Waste) Buoys & floats Traps & pots	ME01 ME02 ME03 ME04 ME05
147 148 149 150 151	Industrial waste/litter	Alcoholic (beer, spirits, ready mixed etc.) Tools, building & trades materials (not E Waste) Buoys & floats Traps & pots Fish hooks & lures, traces etc.	ME01 ME02 ME03 ME04 ME05 ME06
147 148 149 150 151 152	Industrial waste/litter Fishing Items	Alcoholic (beer, spirits, ready mixed etc.) Tools, building & trades materials (not E Waste) Buoys & floats Traps & pots Fish hooks & lures, traces etc. Lead sinkers Large items (bicycle frames, white goods, trolleys, outdoor	ME01 ME02 ME03 ME04 ME05 ME06 ME07
147 148 149 150 151 152 153	Industrial waste/litter Fishing Items	Alcoholic (beer, spirits, ready mixed etc.) Tools, building & trades materials (not E Waste) Buoys & floats Traps & pots Fish hooks & lures, traces etc. Lead sinkers Large items (bicycle frames, white goods, trolleys, outdoor equipment etc.)	ME01 ME02 ME03 ME04 ME05 ME06 ME07 ME08 ME09
147 148 149 150 151 152 153	Industrial waste/litter Fishing Items Large Items	Alcoholic (beer, spirits, ready mixed etc.) Tools, building & trades materials (not E Waste) Buoys & floats Traps & pots Fish hooks & lures, traces etc. Lead sinkers Large items (bicycle frames, white goods, trolleys, outdoor equipment etc.) Aluminum foil pieces Foil tubs/ trays	ME01 ME02 ME03 ME04 ME05 ME06 ME07 ME08 ME09 ME10
147 148 149 150 151 152 153 154 155	Industrial waste/litter Fishing Items	Alcoholic (beer, spirits, ready mixed etc.)  Tools, building & trades materials (not E Waste)  Buoys & floats  Traps & pots  Fish hooks & lures, traces etc.  Lead sinkers  Large items (bicycle frames, white goods, trolleys, outdoor equipment etc.)  Aluminum foil pieces  Foil tubs/ trays  Bottle tops & pull rings	ME01 ME02 ME03 ME04 ME05 ME06 ME07 ME08 ME09 ME10 ME11
147 148 149 150 151 152 153 154 155 156 157	Industrial waste/litter Fishing Items Large Items	Alcoholic (beer, spirits, ready mixed etc.) Tools, building & trades materials (not E Waste) Buoys & floats Traps & pots Fish hooks & lures, traces etc. Lead sinkers Large items (bicycle frames, white goods, trolleys, outdoor equipment etc.) Aluminum foil pieces Foil tubs/ trays Bottle tops & pull rings Food cans (includes pet food)	ME01 ME02 ME03 ME04 ME05 ME06 ME07 ME08 ME09 ME10 ME11 ME12
147 148 149 150 151 152 153 154 155 156 157	Industrial waste/litter Fishing Items Large Items	Alcoholic (beer, spirits, ready mixed etc.) Tools, building & trades materials (not E Waste) Buoys & floats Traps & pots Fish hooks & lures, traces etc. Lead sinkers  Large items (bicycle frames, white goods, trolleys, outdoor equipment etc.) Aluminum foil pieces Foil tubs/ trays Bottle tops & pull rings Food cans (includes pet food) Kegs	ME01 ME02 ME03 ME04 ME05 ME06 ME07 ME08 ME09 ME10 ME11 ME12 ME13
147 148 149 150 151 152 153 154 155 156 157 158 159	Industrial waste/litter Fishing Items Large Items	Alcoholic (beer, spirits, ready mixed etc.)  Tools, building & trades materials (not E Waste)  Buoys & floats  Traps & pots  Fish hooks & lures, traces etc.  Lead sinkers  Large items (bicycle frames, white goods, trolleys, outdoor equipment etc.)  Aluminum foil pieces  Foil tubs/ trays  Bottle tops & pull rings  Food cans (includes pet food)  Kegs  Aerosol / spray cans	ME01 ME02 ME03 ME04 ME05 ME06 ME07 ME08 ME09 ME10 ME11 ME12 ME13 ME14
147 148 149 150 151 152 153 154 155 156 157 158 159 160	Industrial waste/litter Fishing Items Large Items	Alcoholic (beer, spirits, ready mixed etc.) Tools, building & trades materials (not E Waste) Buoys & floats Traps & pots Fish hooks & lures, traces etc. Lead sinkers  Large items (bicycle frames, white goods, trolleys, outdoor equipment etc.)  Aluminum foil pieces Foil tubs/ trays Bottle tops & pull rings Food cans (includes pet food) Kegs  Aerosol / spray cans Small gas & volatile liquid cans	ME01 ME02 ME03 ME04 ME05 ME06 ME07 ME08 ME09 ME10 ME11 ME12 ME13 ME14 ME15
147 148 149 150 151 152 153 154 155 156 157 158 159 160	Industrial waste/litter Fishing Items Large Items	Alcoholic (beer, spirits, ready mixed etc.) Tools, building & trades materials (not E Waste) Buoys & floats Traps & pots Fish hooks & lures, traces etc. Lead sinkers  Large items (bicycle frames, white goods, trolleys, outdoor equipment etc.) Aluminum foil pieces Foil tubs/ trays Bottle tops & pull rings Food cans (includes pet food) Kegs Aerosol / spray cans Small gas & volatile liquid cans Large gas & volatile liquid cans	ME01 ME02 ME03 ME04 ME05 ME06 ME07 ME08 ME09 ME10 ME11 ME12 ME13 ME14 ME15 ME16
147 148 149 150 151 152 153 154 155 156 157 158 159 160 161	Industrial waste/litter Fishing Items  Large Items  Other food & beverage	Alcoholic (beer, spirits, ready mixed etc.)  Tools, building & trades materials (not E Waste)  Buoys & floats  Traps & pots  Fish hooks & lures, traces etc.  Lead sinkers  Large items (bicycle frames, white goods, trolleys, outdoor equipment etc.)  Aluminum foil pieces  Foil tubs/ trays  Bottle tops & pull rings  Food cans (includes pet food)  Kegs  Aerosol / spray cans  Small gas & volatile liquid cans  Large gas & volatile liquid cans  Tins > 4L (non-food)	ME01 ME02 ME03 ME04 ME05 ME06 ME07 ME08 ME09 ME10 ME11 ME12 ME13 ME14 ME15 ME16 ME17
147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163	Industrial waste/litter Fishing Items Large Items	Alcoholic (beer, spirits, ready mixed etc.)  Tools, building & trades materials (not E Waste)  Buoys & floats  Traps & pots  Fish hooks & lures, traces etc.  Lead sinkers  Large items (bicycle frames, white goods, trolleys, outdoor equipment etc.)  Aluminum foil pieces  Foil tubs/ trays  Bottle tops & pull rings  Food cans (includes pet food)  Kegs  Aerosol / spray cans  Small gas & volatile liquid cans  Large gas & volatile liquid cans  Tins > 4L (non-food)  Tins 4 L + (non-food)	ME01 ME02 ME03 ME04 ME05 ME06 ME07 ME08 ME09 ME10 ME11 ME12 ME13 ME14 ME15 ME16 ME17 ME18
147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164	Industrial waste/litter Fishing Items  Large Items  Other food & beverage	Alcoholic (beer, spirits, ready mixed etc.) Tools, building & trades materials (not E Waste) Buoys & floats Traps & pots Fish hooks & lures, traces etc. Lead sinkers  Large items (bicycle frames, white goods, trolleys, outdoor equipment etc.)  Aluminum foil pieces Foil tubs/ trays Bottle tops & pull rings Food cans (includes pet food)  Kegs Aerosol / spray cans Small gas & volatile liquid cans Large gas & volatile liquid cans Tins > 4L (non-food) Tins 4 L + (non-food) Small car/vehicle/boat machinery, engines & parts	ME01 ME02 ME03 ME04 ME05 ME06 ME07 ME08 ME09 ME10 ME11 ME12 ME13 ME14 ME15 ME16 ME17 ME18 ME19
147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165	Industrial waste/litter Fishing Items  Large Items  Other food & beverage	Alcoholic (beer, spirits, ready mixed etc.) Tools, building & trades materials (not E Waste) Buoys & floats Traps & pots Fish hooks & lures, traces etc. Lead sinkers  Large items (bicycle frames, white goods, trolleys, outdoor equipment etc.) Aluminum foil pieces Foil tubs/ trays Bottle tops & pull rings Food cans (includes pet food) Kegs Aerosol / spray cans Small gas & volatile liquid cans Large gas & volatile liquid cans Tins > 4L (non-food) Tins 4 L + (non-food) Small car/vehicle/boat machinery, engines & parts Signs & sheeting	ME01 ME02 ME03 ME04 ME05 ME06 ME06 ME07  ME08 ME09 ME10 ME11 ME12 ME13 ME14 ME15 ME16 ME17 ME18 ME19 ME20
147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166	Industrial waste/litter Fishing Items  Large Items  Other food & beverage	Alcoholic (beer, spirits, ready mixed etc.) Tools, building & trades materials (not E Waste) Buoys & floats Traps & pots Fish hooks & lures, traces etc. Lead sinkers Large items (bicycle frames, white goods, trolleys, outdoor equipment etc.) Aluminum foil pieces Foil tubs/ trays Bottle tops & pull rings Food cans (includes pet food) Kegs Aerosol / spray cans Small gas & volatile liquid cans Large gas & volatile liquid cans Tins > 4L (non-food) Tins 4 L + (non-food) Small car/vehicle/boat machinery, engines & parts Signs & sheeting Wire, stakes & pipes	ME01 ME02 ME03 ME04 ME05 ME06 ME06 ME07  ME08 ME09 ME10 ME11 ME12 ME13 ME14 ME15 ME16 ME17 ME18 ME19 ME20 ME21
147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167	Industrial waste/litter Fishing Items  Large Items  Other food & beverage  Other metal	Alcoholic (beer, spirits, ready mixed etc.) Tools, building & trades materials (not E Waste) Buoys & floats Traps & pots Fish hooks & lures, traces etc. Lead sinkers  Large items (bicycle frames, white goods, trolleys, outdoor equipment etc.) Aluminum foil pieces Foil tubs/ trays Bottle tops & pull rings Food cans (includes pet food) Kegs Aerosol / spray cans Small gas & volatile liquid cans Large gas & volatile liquid cans Tins > 4L (non-food) Tins 4 L + (non-food) Small car/vehicle/boat machinery, engines & parts Signs & sheeting	ME01 ME02 ME03 ME04 ME05 ME06 ME06 ME07  ME08 ME09 ME10 ME11 ME12 ME13 ME14 ME15 ME16 ME17 ME18 ME19 ME20 ME21 ME22

CLASS	LITTER FORM 1	LITTER FORM 2	Litter Code
168		Wooden furniture	OT01
169		Boat parts, wreckage & remnants (not metal)	OT02
170	Large Items	Mattresses	OT03
171		Other large items	OT04
172		Large appliances (fridges, washing machines, air conditioners etc.)	OT05
173		Small appliances (irons, toasters, hair dryer, watches etc.)	OT06
174		Mobile phones and pieces	OT07
175		IT, telecommunications & TV equipment (computers, laptops, remote controls)	OT08
176		Electrical cords and charging equipment	OT09
177	E Waste	Lighting equipment (lamps, LEDs)	OT10
178		Electrical & electronic tools (drills, saws, lawn mowers, sewing machines, cordless batteries)	OT11
179		Toys, leisure & sports equipment (electric trains & cars, hand-held video games, consoles, amplifiers, radios etc.)	OT12
180		Headphones	OT13
181		Head torches & other torches	OT14
182		Batteries (not in device) - all sizes	OT15
183	Industrial litter/waste	Wooden material (processed timber, pallets, crates & similar pieces)	OT16
184	madstrial litter/ waste	Other materials (bricks, cement, ceramic/ concrete pipes, tiles & similar)	OT17
	Fishing litter	Wooden fishing items	OT18
186	Medical waste & sanitary	Paper tissues	OT19
	items (no plastic	Cotton buds (paper/cardboard/wood stick)	OT20
100	components)	Cotton balls	OT21
189		Paper napkins	OT22
190		Fast food packaging (incl. paper bags)	OT23
191		Paper/cardboard ice cream wrappers, sugar sachet etc.	OT24
192	Food & beverage packaging	Paper/cardboard, natural material plates, cups and bowls	OT25
193		Wooden confection/ ice cream sticks, cutlery, toothpicks	OT26
194 195		Egg cartons, pizza boxes, cake boxes & similar	OT27
195		Cardboard cup sleeves Wine & other beverage casks (box only)	OT28 OT29
190		Ceramic pieces (unidentifiable)	OT30
198		Ceramic tableware (plates & cups etc.)	OT30
199		Ceramic knick knacks & decorations	OT32
200		Binding, thread, string & cord (not plastic/ synthetic)	OT33
201		Rope natural pieces (<1m)	OT34
202		Rope natural (>1m)	OT35
203		Clothing, shoes, hats & towels	OT36
204		Backpacks & bags	OT37
205		Canvas, sailcloth & sacking (hessian) - not plastic	OT38
206		Carpet & furnishings	OT39
207		Other textiles (pieces of cloth, rags etc.)	OT40

# A3P Litter Framework Project F5.1

208		Personal effects (wallets, money, keys, jewellery)	OT41
209		Pet handling & care items - mixed materials	OT42
210		Paper bags (not fast food)	OT43
211		Newspapers & magazines	OT44
212		Junk mail / free circulars	OT45
213		Cardboard packages, boxes, sheets & tubes	OT46
214		Paper shopping dockets, receipts, tickets	OT47
215		Fireworks incl. tubes & pieces	OT48
216		Paper sheets, strips etc.	OT49
217	All other	Rubber type balls & toys	OT50
218		Rubber bands	OT51
219		Rubber type sheeting & mats	OT52
220		Rubber pieces (not tyres)	OT53
221		Tyres	OT54
222		Tyre fragments	OT55
223		Inner tubes, seals & similar	OT56
224		Wooden brooms, brushes, paint brushes & similar	OT57
225		Matches & pencils etc.	OT58
226		Corks	OT59
227		Oil globules & tar	OT60
228		Organic materials & food scraps, including dog poo (not	OT61
229		Medical tablets/capsules	OT62
230		Wax (surf wax, candles, paraffin & similar)	OT63
231		Soap, dry lubricant, glue (not in plastic tubes)	OT64
232		Asbestos	OT65
233		Dangerous items i.e. military, weapons (incl. knives)	OT66
234		Natural material cleaning sponges, cloths, wipes & brushes	OT67
235		Clean fill piles	OT68
236		'Fatballs' / sewage grease	OT69

	İ	Organicat	ion	İ		Organisatio	on roce	oonsible for survey
WATERWAY		Organisat						
CHARACTERISATION SHEET		Surveyor I				Name of da		· · · · · · · · · · · · · · · · · · ·
		Contact N						for data recorder
Completed ONCE for each		Contact E	.maii:					r data recorder
Completed ONCE for	eacii	Date :				Date this d	ata wa	as collected
SITE DETAILS								
Town/Suburb:						tion of site		
Catchment:						it in which sit		
Waterbody Name:						the river, cree		
Site Name:					•	me of site, e		
Site Code:						de specific fo		
Access point location:		e: ide:				and longtitud and acces the		acess point where
Photo info:					The name from the		and p	hoto numbers
SITE CHARACTERISTICS:								
Dominant land use		ndustrial mmercial Agricultu	Natural/P		Circle the dominant site	best option land use influ	to desc uencin	cribe the g/surrounding the
Distance to dominant debris line (m):				Distance fro	om water e e NA.	edge to major	debri	s line. If not
Distance to top of bank (m):				Distance fr	om water e	edge to top of	the b	ank
Distance of waterbody influence/erosion line (m):				Height that water comes up the bank/erosion line				
				Difference i	n elevatior	across the su	urvey a	area.
Bank Gradient:	A D	B (	C A = < 1 m (les	s than hip he 1-2 body len	eight, B = gth) D =	1-2 m (hip to = 4-8 m (2-4 b	head ody le	height) C = 2-4 m ngths)
				E = > 8	m (more tl	nan 4 body lei	ngths)	
Bank Type:	Mud Bould∈	Sand ers Roc Veget		Cobble Dirt Bank	Major sub	strate type		
Wetted Width of waterbody (m):					Width or	f the wetted	area o	f the waterbody
Bank Vegetation:		Grass/ree rub (<3m) Fore	Tre	eaf/herb e (>3m)		best option across the s		cribe the type of area
Vegetation Height:	0-5cm 5-50cm 50-100cm 100-200cm >200cm				Height of the vegetation across the survey area			oss the survey
Bank Exposure or shape:					How much	n of the surve	y area	is bare ground
Bank Exposure or shape:	Straight bends beach/bank			ch/bank	Shape of river where survey is conducted. Based on 50m each side survey area.			
Aspect:	N	NE E	SE S SW	W NW		when you are vater for wet		g downstream or Takes
Bank channelized? (e.g.: human intervention changes course of river)	Yes	No	Access to w	/aterbody:	Paved	Unpaved	Trail	Other (Specify):
Stormwater drains present?		Yes	No No. pres	sent:	Rubbish B	ins present?	Yes	No

Evidence of dumping (circle one or more)	None	Constructio	n Household	d Green waste	Other(specify):	
Cleanliness at first glance:	No debr	ris visible	Scattered deb	ris visible of dumped d	Lots of debris visible ebris	Large amounts
Comments:						
SITE SKETCH:						

Waterbody Name Organisation Surveyor Name/s Contact Rumber Contact E.mail Waterbody Name Site Number Site Code Date Number of Surveyors Start time End Time Littter characerised on the field 60M sampling aea (long) 60M sampling aea (long) 60M sampling aea (long) 7 Transect 01 length (m) Comments Transect 02 length (m) Comments Transect 03 length (m) Comments Transect 05 length (m) Comments Transect 05 length (m) Comments  Transect 05 length (m) Comments  Transect 05 length (m) Comments Transect 05 length (	Litter Characte	erisation Site Information Sheet
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Transect 04 length (m)  Comments  Transect 05 length (m)  Comments  Site Conditions  Time of day  Visible distance  Number of people on site  Current weather  Wind direction  Wind speed  Rainfall over previous 24 hours  Evidance of Current floding or high flows (if YES comments)  Evidence of dumping  Comments  Evidance of recent activities within survey area  Cleanliness at first  Date of last clean-up (if Known)  Comments  River Bank Condition  Vegetation type  Average vegetation height  Vegetation density (% cover)  River bank gradient  Rapid Littler Assesment - Melbourne Water Method (30m transect) - NEW  Actual number of littler items  Transportable Persistant, buoyant Litter  Biohazard, toxic and sharp objects  Illegal dumping	Transect 03 length (m)	
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Vegetation density (% cover)  River bank gradient  Rapid Litter Assesment - Melbourne Water Method (30m transect) - NEW  Actual number of litter items  Transportable Persistant, buoyant Litter  Biohazard, toxic and sharp objects  Illegal dumping		
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Transportable Persistant, buoyant Litter  Biohazard, toxic and sharp objects  Illegal dumping		Melbourne Water Method (30m transect) - NEW
Biohazard, toxic and sharp objects  Illegal dumping		
Illegal dumping		
Total score (1+2+(3x1.8)+4)	Total score (1+2+(3x1.8)+4)	