

Litter Hotspots Final Report

Organisation Name	Manningham City Council	
Project Title	Development of Riversafe Low Maintenance GPT	
Project ID Number		
Report prepared by	Simon Brink, Project Engineer	
Amount of Hotspots Partnership funding received	\$175,000	
Organisation own contributions	\$40,000 Cash	\$40,450 In-kind
Other contributions received	n/a	n/a
TOTAL Project Value	\$215,000 Cash	\$40,450 In-kind

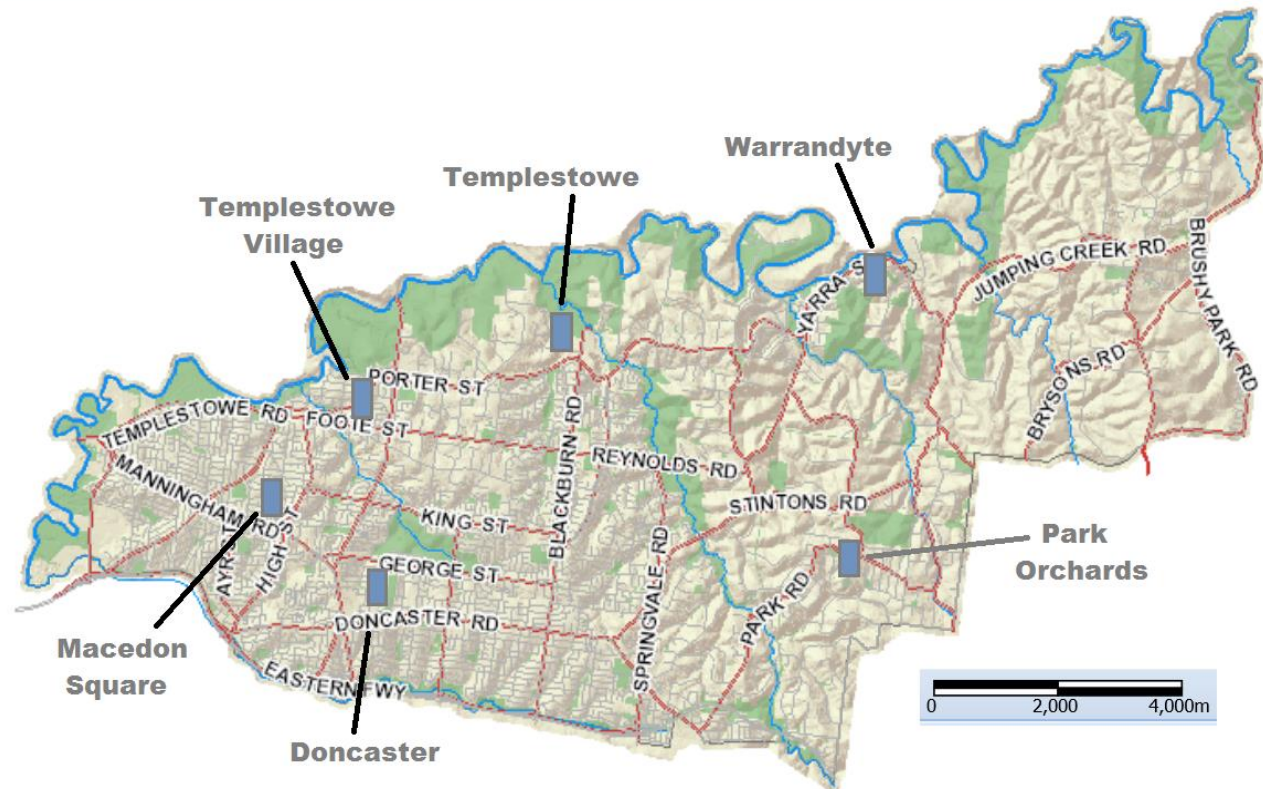
1. Project Activities

Hotspot project location/s targeted

(Include address, description &/or attach map if possible)

New GPT/litter bin installations were installed at six activity centre locations in Manningham, that were identified as litter hotspots, and had suitable existing drainage infrastructure to accommodate the new GPT/bins, as follows:

- Templestowe Village Shopping Precinct
- Macedon Square Shopping Precinct
- Park Orchards Shopping Centre
- Doncaster Hill Precinct (JJ Tully Drive)
- Warrandyte Activity Centre (Yarra St)
- Templestowe Commercial Area (Blackburn Road)



Describe in point form the key project activities undertaken.

- Grant Application and Award
 - Concept refinement
 - Information collection and stakeholder consultations
 - Establishment of a project control group
 - Development of possible solution options
 - Project process mapping
 - Tender for Design and Prototype Construction Services
 - Engagement of an industry partner (Ecosol)
 - Detailed design
 - Stakeholder approvals
 - Prototype 1:
 - fabrication, civil works construction, testing, re-design
 - Prototype 2
 - fabrication, re-testing, approvals
 - Prototype 3
 - field site identification, existing services investigations, site selection, civil design, construction, field installation, field testing
 - Design Improvements
 - Quotation for the Construction of Additional Installations
 - Site selection
 - Existing services investigations
 - Civil design
 - Civil works at additional sites
 - Fabrication
 - Installation
 - Commissioning
 - Operations phase
 - Ongoing performance monitoring and review
 - Operations phase remediation
- Project communications

<p>Describe any additional activities undertaken not included in your project plan.</p>	<p>Knowledge sharing with broader government and industry groups (beyond local government) through presentations and a display at Waste Expo 2017.</p>
<p>What have been the highlights?</p>	<p>Seeing concept designs transition to prototypes, then completed installations. Positive reaction from the general community and industry professionals to the project.</p>
<p>Are there any key lessons learnt both positive and negative?</p>	<p>Councils do not typically undertake research and development, particularly in the mechanical area, so care was needed to develop robust contractual documentation, for engagement of industry partners, to ensure the project would deliver fit for purpose products at completion.</p> <p>Not enough time or resources were allocated at the start of the project delaying the engagement of an external industry partner. This had an adverse impact on project outcomes towards the end of the grant period due to tight fixed completion timeframes for the project. As a consequence the cost of trial installations was higher than expected, reducing the number of installations that were able to be funded within the project budget.</p>

2. Achievement of Objectives

Your reference is Schedule 1: Project Plan Deliverables

Objective	Output performance measure (KPIs)	Performance result	Key activities	Status	Next Steps
1. To develop a practical low maintenance and capital cost gross pollutant trap solution.	<ul style="list-style-type: none"> a) Significant reduction in time spent cleaning and maintaining GPTs; b) Significant reduction in costs and resources required associated with above; c) Low cost construction and robust prototype. 	<ul style="list-style-type: none"> a) Achieved b) Achieved c) Robust prototype achieved, but construction costs are still higher than ideal. 	Design, stakeholder consultations, prototyping, testing, industry partner management, fabrication, civil works, installations.	Complete, but improvements and development will be ongoing.	Encourage industry partners to continue development and commercialisation. Establish broader product awareness.
2. To raise community awareness about the link between litter dropped on the street and litter in waterways and the bay.	<ul style="list-style-type: none"> a) Number of presentations at public seminars; b) Number of information materials provided; c) Publications through social media (eg. Yammer) d) Improved levels of understanding and reported disposal behaviour 	<ul style="list-style-type: none"> a) One scheduled for October (Waste Expo), b) Project information packs not yet developed, as product still being tested, so not appropriate to develop info packs yet. c) Yes. d) Not yet, as product is still in the development phase, (see above). 	Presentations, social media publications.	Ongoing	Additional media releases, signage, presentations and engagement activities to be ongoing.
3. To install trial installations in high profile shopping centre areas within Manningham.	<ul style="list-style-type: none"> a) Number of systems installed within activity centre areas; b) Capital and maintenance costs of systems. 	<ul style="list-style-type: none"> a) Six installations, less than the planned fifteen installations. b) Capital costs high for prototypes, but could reduce for future installations. Maintenance costs likely to be very low. 	Site selection, services investigations, litter hotspot identification, design, civil works, fabrication, installation, testing.	Completed.	Monitoring, operational testing, issue resolution, community feedback, design improvements, if needed, supervision of contractor defect liability period.

Objective	Output performance measure (KPIs)	Performance result	Key activities	Status	Next Steps
4. To share knowledge and allow other Councils to adopt a similar approach to low cost gross pollutant installation and collection.	<ul style="list-style-type: none"> a) Completion of a project technology summary report; b) Number of Councils receiving the summary reports and factsheets; c) Number of presentations at industry seminars. 	<ul style="list-style-type: none"> a) Not yet. Further performance monitoring required to confirm operational success. b) Not yet. Further performance monitoring required to confirm operational success. c) Two presentations completed, one more scheduled, 	Presentations, publications, networking, media releases,	Ongoing	Waste expo presentation, media releases, journal articles, LGPro awards, social media,
5. Improve the amenity of public spaces adjacent to waterways in Manningham by reducing litter discharge to waterways.	<ul style="list-style-type: none"> a) Quantity of litter collected in GPTs; b) Quantity of visual litter in waterways and adjacent public spaces. 	<ul style="list-style-type: none"> a) Bins effective at collecting gross pollutants, b) Quantities of litter entering waterways will be reduced by the installations. 	Aesthetic design developed for installations, including associated civil works.	Completed.	Site monitoring.

Please report on any parts of your project not completed.	<p>Operational phase testing still in progress. Defects liability period in progress. Destructive testing partly completed. Community engagement activities have not been met yet due to delays in the project's timeline. Manningham City Council will be doing community engagement activities after 30 June 2017. Manufacturing industry engagement activities to be ongoing. Stormwater industry engagement activities to be ongoing. Local government/government engagement activities to be ongoing.</p>
Describe any current risks for the project.	<p>Bins have not yet been extensively field tested. Theft and vandalism risks could exist. Ongoing functionality of mechanical components needs to be confirmed.</p>

	<p>(Note the contract retentions are being held to ensure that there is leverage to ensure that industry partners resolve issues identified during the first twelve months of operation). Knowledge isolation could be an issue if adequate promotional activities are not undertaken.</p>
<p>Provide background information on issues or circumstances that could potentially delay future project activities.</p>	<p>n/a</p>
<p>Include evidence (as attachments) to demonstrate that you have completed the activities. (Examples could include publications, media, photos, flyers, agendas or minutes of meetings.)</p>	<p>List of attachments:</p> <ul style="list-style-type: none"> • Concept images • Prototype photos • Installation photos: <ol style="list-style-type: none"> a) Templestowe Village Shopping Precinct b) Macedon Square Shopping Precinct c) Park Orchards Shopping Centre d) Doncaster Hill Precinct (JJ Tully Drive) e) Warrandyte Activity Centre (Yarra St) f) Templestowe Commercial Area (Blackburn Road) <p>Meeting Minutes</p>

3. Project Community Activities and Impacts

Number and/or type of information/resources produced or activities completed (eg. booklets, guides, PowerPoint presentations, CD's, webpages)		Item	Number produced / completed
		Powerpoint presentations	4
Number of training events held	1	Total number of participants (Estimate)	30
Number of community events held (eg. clean-ups)	n/a	Total number of participants (Estimate)	
Number of events, festivals where project had a presence (eg. stall, display, street theatre)	3	Total number of participants (Estimate)	2,000
List key Project Partners that have contributed /participated in this project		Ecosol.	

***Please include/attach any sample photos from events held, publications etc.**





4. Hotspot Data

n/a. Data to be collected and assessed during the operational phase, i.e. 17/18 financial year.

5. Project Impact on Litter activities. (Please tick the appropriate box)

This project helped to:	Not relevant to this project	No difference	Too early to tell	A little eg. limited, short term change	Significant development eg. sustained improvement
Identify and monitor key Litter Hotspot/s to evaluate issues and develop strategic responses				X	
Undertake litter analysis, ie. audits or assessment of litter/bins and traps	X				
Establish/support Local Litter Prevention Task Force Groups for effective project liaison and implementation	X				
Engage the community / business / schools in litter prevention / clean- up activities	X				
Develop project partnerships with business or industry					X
Improve community awareness and participation regarding litter and litter hotspots				X	
Improve the capacity of key stakeholders through either key messages, project resources or education and training					X
Provide litter prevention and education officers with training, mentoring and peer support	X				
Improve bin infrastructure or changes in litter collection responses					X
Improve amenity of hotspot site					X (i.e. bins looks great)
Reduce litter					X

6. Project PR & Marketing

Date	Publication title	Website / Social Media / Article /Event title	Content description /No. of attendees/screen dump
19/06/2017	Manningham Council Facebook page	Facebook	<p> Manningham City Council added 3 new photos to the album Manningham City Council Photos. Published by Sprout Social (?) · 19 June ·</p> <p>Works are being undertaken along JJ Tully Drive during the week commencing 19th June 17 as part of a #Litter Hotspot reduction trial project involving specially designed litter #bins that also trap litter washed by storm water into the drainage pit located directly below the bin.</p> <p>The bins are emptied by standard side arm garbage collection trucks that are used for domestic collections.</p> <p>Trial installations are also being installed at 5 other sites in Manningham:</p> <ul style="list-style-type: none"> Macedon Square #ParkOrchards Shops Blackburn Road, opposite the depot entrance, Yarra Street, #Warrandyte Templestowe Village <p>#Litterreduction</p>   

19/06/2017

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Council
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cityofmanningham Specially designed #litter #bins that also trap litter washed by storm water into the drainage pit located directly below the bin are being installed around Manningham. The bins are emptied by standard side arm garbage collection trucks that are used for domestic collections.

11 Tully Drive, #Doncaster
#MacedonSquare,
#ParkOrchards shops,
Blackburn Road, #Doncastereast
Yana Street, #Warrandyte
@templestovetillage

wendyane0 Now get your engineers to fix your drainage system- rather than slapping on ridiculous "Flood overlays" onto residents properties! In many cases, such as mine, you are implying that water can defy

46 likes

June 19

Log in to like or comment.

18/06/2017

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Council Twitter

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8. Additional information

Please include any other information that can help tell your story. Photos or quotes from people involved in the project or community are especially helpful.

