

Dún Laoghaire Rathdown County Council

Municipal Services

Cleansing Section



Smart Bin Review

April 2018

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Introduction

A review of the street bin service is carried out by the Cleansing Section of Dun Laoghaire-Rathdown County twice a year. Each review provides information on the collection frequencies of bins, outlines on-going issues with the bins, shows actions taken subsequent to the previous report, lists the requests for new bins made in the previous six months, and explains the decisions made following review of these requests.

Previous Smart Bin Review: December 2017

Following the review of the Smart Bins in December 2017, a number of actions have taken place over the past six months.

A register was created for requests of new bins. The requests have been logged as they came in and a reply was sent to the person who issued the request. The list of requests will be laid out further in the report.

Four bins were removed for reasons laid out in the previous review. These were as follows:

BIN 163 at Ballybrack South Eastern Corner
BIN 193 at Belleview Stores
BIN 343 at Willow Road outside Businesses
BIN 348 at Brehonfield Road Bus Terminus

Restrictors were fitted on a number of bins. These are as follows:

BIN 200 at Bayview
BIN 266 at Stillorgan Heath Outside St. Raphaela's School
BIN 271 at Lower Kilmacud Road at the Bus Stop, outside the shops at the Dundrum End
BIN 356 at Broadford Road at Bus Stop on Stonemasons Way end
BIN 371 at Breamor Road at Bus Stop Outside Shops
BIN 388 at Deer Park Southern Entrance

The effects of placing these restrictors have varied. In some cases it has eliminated household and commercial dumping where installed. In other cases however, it has resulted in members of the public regularly blocking up the hopper with large items, which creates a build-up of waste in the hopper requiring staff to clear the blockage and therefore putting additional demands on our service.

A second bin was installed at Bus Stop No. 2007 on the Stillorgan Road outside Mechanic on Duty by our supplier Kyron. This bin was relocated from Johnstown Road due to low usage.

Collection Frequency November 2017 – March 2018

The bin emptying service has operated since August 2017 with two vehicles as opposed to the original single vehicle collection. This comprises one full time operator working from 7.00am to 6.30pm collecting bins in the inland area. A second vehicle and operator works for 5 hours per shift collecting bins along the coastal route. The 5 hours worked is varied depending on the tide times as the operator also works on cleaning the beaches.

As the previous report was compiled in November, I have included collection data from the 1st of November up until the 31st of March.

01 st November 2017 – 30 th November 2017	2,782
01 st December 2017 – 31 st December 2017	2,906
01 st January 2018 – 31 st January 2018	2,674
01 st February 2018 – 28 th February 2018	2,573
01 st March 2018 – 31 st March 2018	2,723
Total Collections since 01st November 2018	13,658

Individual Bin Efficiency

The Clean Big Belly Bins online application gives access to information regarding each individual bin. Using this system bins with a low collection frequency can be identified. We will be selecting the lowest frequency bins for relocation as needs arise in other areas. Many of these are based along the N11.

The following images break down the frequency of collections into a daily average.

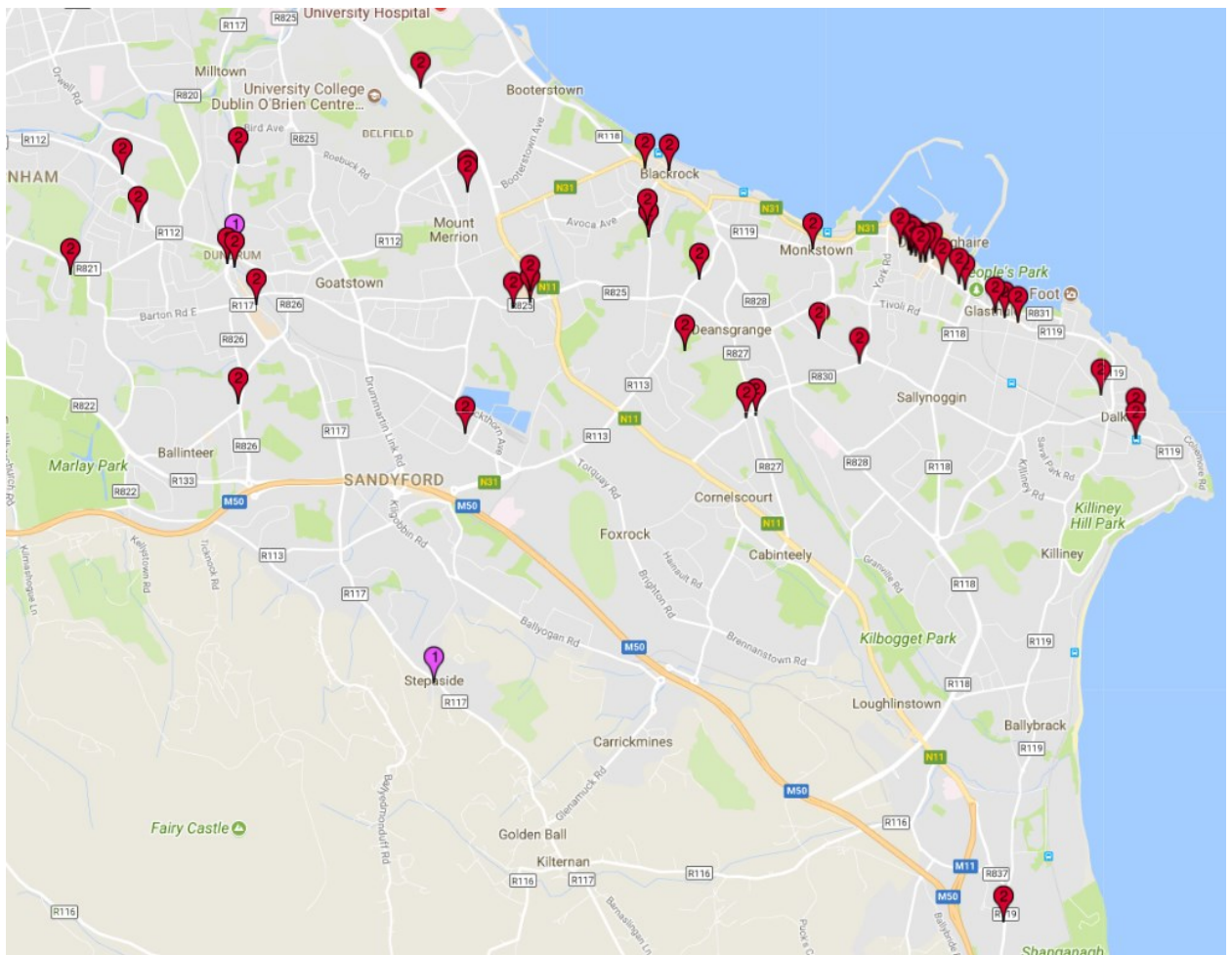


Fig. 1: Bins Requiring Emptying Once a Day or Once Every Two Days.

48 bins are collected every 2 days on average from November 1st to March 31st. This has decreased slightly from 56 since the last report although the sample time line is halved from 10 months to 5 months.

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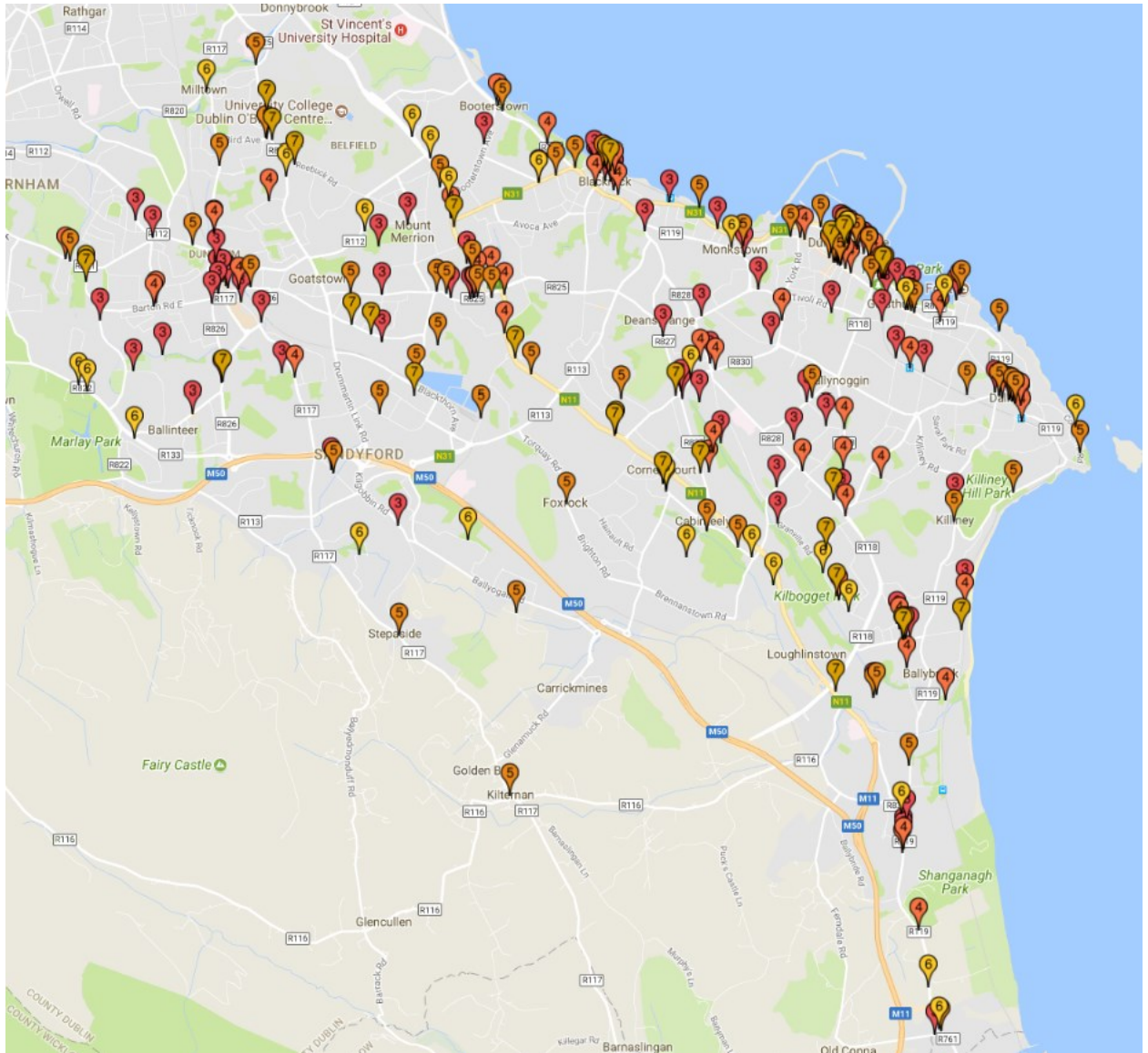


Fig 2: Bins Requiring Collection with a Frequency of Between 3 and 7 Days

Bins requiring collection between 3 and 7 days have increased slightly for the allotted period with 264 bins falling into this 5 month bracket, up from 258 in the previous 10 month review period.

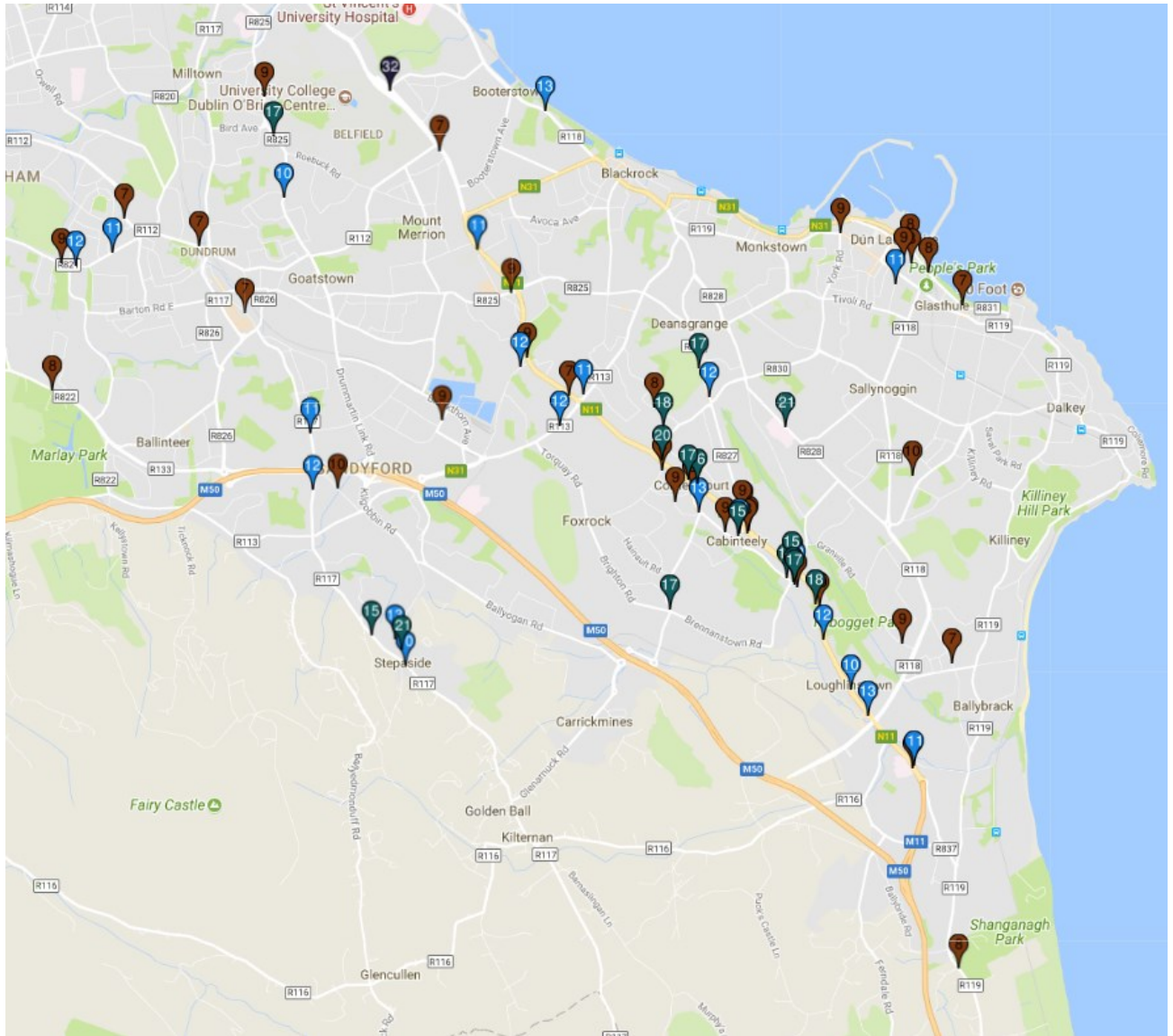


Fig 3: Bins Requiring Emptying Every 8 Days or More

Bins requiring collection every 8 days or more are shown in figure 3. This number has also marginally increased since the last review from 70 to 73.

Operational Issues

As in the previous report, staff members have continued to report increases in weights due to widespread household dumping and commercial dumping. Our ongoing investigation into household waste disposal in street bins has shown that the level of household waste is still making up approximately 50% of all waste disposed. The measures taken to reduce the house hold waste have not had an effect in any significant or noticeable way. Restrictors installed on certain bins have had an effect but it inevitably ends with the next bin over being dumped in. The pilot project of using vinyl stickers on bins to inform the public of the illegality of dumping house hold waste in public street bins has not had any notable effect.

Requests for New Bins

We receive a number of requests every year from members of the public, Elected Members and residents associations. At the street bin reviews all requests from the previous 6 months are reviewed. If the proposed location for a new bin meets the requirements as set out by the Council, the installation of a new bin in the most appropriate place near the proposed location will be considered.

A register for requests has been set up and each request is logged and responded to. Of the correspondence received over the last 6 months, it has been decided to place new bins in the following locations:

Ardglas Estate, Dundrum
Kingston Estate, Ballinteer
Shankill Dart Station
Sallynoggin Park

Bins to be relocated are being identified and a final location for placement will be decided upon when they are sourced.

Areas for where bins were requested but have been denied are as follows:

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Ballinclea Heights at the Park

Request denied due to the residential setting. DLRCC do not install bins in residential areas as this leads to household dumping.

Convent Road, Dun Laoghaire

Request denied due to the residential setting coupled with the high level of street bins based at the lower end of the street nearer to the centre of town.

Shanganagh Cliffs

Request denied due to the residential setting. The area is under parks jurisdiction. DLRCC do not install bins in residential areas as this leads to household dumping.

Quinns Road, Shankill

Request denied due to residential setting. DLRCC do not install bins in residential areas as this leads to household dumping.

Monkstown

Bins have recently been reinstalled in Monkstown following the completion of remodelling works. One request was for an extra bin. There are no extra bins available. One request was for dog waste bins. The Cleansing Section does not install dog waste bins.

Willow Road, Wyckham Park

The bin that had been in this location was removed due to large volumes of house hold and commercial waste. The request has been denied to replace the bin.

Rockfield Park

Request denied as the member of the public is looking for a bin for dog waste. The Cleansing Section does not install dog waste bins.

Golden Ball, Kiltarnan

Request Denied due to insufficient footfall at the current time. The request will be kept on file and reconsidered if there is an increase in the total number of bins by the council in the future.

Cornelscourt Village

The request has been denied as there are a sufficient number of bins in Cornelscourt that have been placed at the highest footfall areas by the previous engineer.

Wedgewood Estate, Sandyford

Request denied due to the residential setting. DLRCC do not install bins in residential areas as this tends to lead to household dumping.

Leopardstown Road, Newpark

The request for a bin is denied as there are numerous bins in close proximity to this location.

Main Street, Shankill

Request denied due to the proximity of bins in the area and a lack of available bins to move to this area.

Bins for Removal due to Public Concerns

Bin 271 on the Lower Kilmacud Road, at the Bus Stop beside the shops at the Dundrum End:

This bin is regularly used for the disposal of house hold waste and is creating a problem for locals. Some members of the public raised an issue with the bin at this location and requested that the bin simply be removed at this stage. It will be utilised at another location.



Fig 4: Bin 271 Dumping around the bin that has become a regular happening

Bins Destroyed

Bin 218 at the cottages on the N11 was destroyed by fire. It is unconfirmed if this was intentional or not.



Fig 5: Bin 218 remains after fire

Manual Handling Issues

Problems with manual handling arising from the dumping of house hold and commercial dumping has increased significantly over the last six months. Despite our efforts, which included increased reporting to litter wardens and a pilot scheme of putting warnings on the bins, household dumping has increased. This has possibly been compounded by the recycling charges being introduced to the public and has resulted in items that would generally be recycled turning up in the bins, such as tetrapak cartons, cardboard and plastics.

The level of rubbish from house hold dumping has increased the weights to over 50kg per bin in some locations. Several avenues are being investigated as to how to contend with this manual handling issue.



Fig 6: Household rubbish bags removed from Bin 300



Fig 7: Household rubbish bags removed from Bin 375



Fig 8: Household rubbish bags removed from Bin 334



Fig 9: Household rubbish bags removed from Bin 372



Fig 10: Household rubbish bags removed from Bin 334

Proposed Date For Next Review

The next Smart Bin Review will be held in December 2018.

The contact address for reports in relation to smart bins and requests for removing existing bins, or requesting new bins is: envirocleansing@dlrcoco.ie

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Appendix A: Criteria For the Placement of Street Bins

The Cleansing Section receives requests for new bins regularly. These requests are considered at each street bin review with consideration given to the following factors:

- Whether some bins are underused and could be more efficiently placed.
- Whether additional bins are required in areas considered to be litter black spots.
- Accessibility and mobility considerations, such as footpath width.
- Safe system of work - whether there is a safe place for council vehicle to pull in to safely empty the bin.
- Locations close to schools, shops and shopping areas are generally prioritised.
- Whether the risk of vandalism is high at certain locations.
- Whether there is a high risk of disposal of household waste in particular locations.

It should be noted that only about 5-10% of new bin requests are granted. It is generally found that most requests for new bins are proposed in locations in housing estates, in areas where there is a high risk of vandalism, or in locations where it is not safe from a traffic management point of view to maintain a bin.

The cost of providing and maintaining each street bin is approximately €1,350 per annum, and so it is important to ensure that street bins are optimally situated around the county.

Appendix B: Bin Service in Parks

The Cleansing & Beaches Section manages the street bin service around the county. Big Belly Solar Powered Compacting Bins are used in 98% of locations. Some of the old stock bins are still maintained in areas that are difficult to reach, for example at White Rock Beach and other locations that are managed daily by Cleansing Section staff. In addition, a small number of dog waste bins are provided and emptied daily at some beaches.

The Cleansing & Beaches Section do not manage the placement of bins in the County Parks. Request for new bins in parks should be addressed to the Parks Department. In general, the Parks Department only place and maintain bins in staffed parks – these are Marlay Park and Cabinteely Park. It is expected that visitors to other parks in Dun Laoghaire-Rathdown take their rubbish home with them or dispose of it in the nearest street bin.