

READ ME file for Solid Waste Collection Schedule Application

This READ ME file contains all the information required for developing the Solid Waste Collection Schedule Application and includes the following:

- 1) Need statement and Solution expectations.
- 2) Conceptual model of the Guelph Solid Waste Collection program.
- 3) List of datasets (These datasets are provided under the [City of Guelph Open Government Licence](#).)
- 4) Physical model of the provided datasets.
- 5) Dataset files (dataset.zip) attached.

Your task

Your (or your team's) task is to create the additional datasets and the programs required for your mobile/web application. You may combine the themes and create one application.

Submission

Submit a synopsis of your application: download and complete the [presentation file](#) and email it to opengov@guelph.ca by 11:59 p.m. on Sunday, March 1, 2015. Late submissions will not be accepted.

Evaluation criteria

Your innovative solution must address the application need defined in one or more of the application themes listed below. You may use any publicly available API to support your application – or develop your own. Use of open source resources is permitted.

The judges will award a total of 30 points to each innovative solution presented using the following criteria:

	<i>Criteria</i>	<i>Score</i>	<i>Measure</i>
1	Is it functional?	10 points	Does it accomplish its stated goal? Does it work as is or does it require additional resources (code or data)?
2	Is it intuitive?	10 points	Is it easy to understand and use? Is it creative?
3	Is it impactful?	10 points	Does it meet the theme expectations?

App. Demonstration

Teams shortlisted by a jury will be invited to demonstrate their application to a judging panel at the City of Guelph or remotely through Skype.

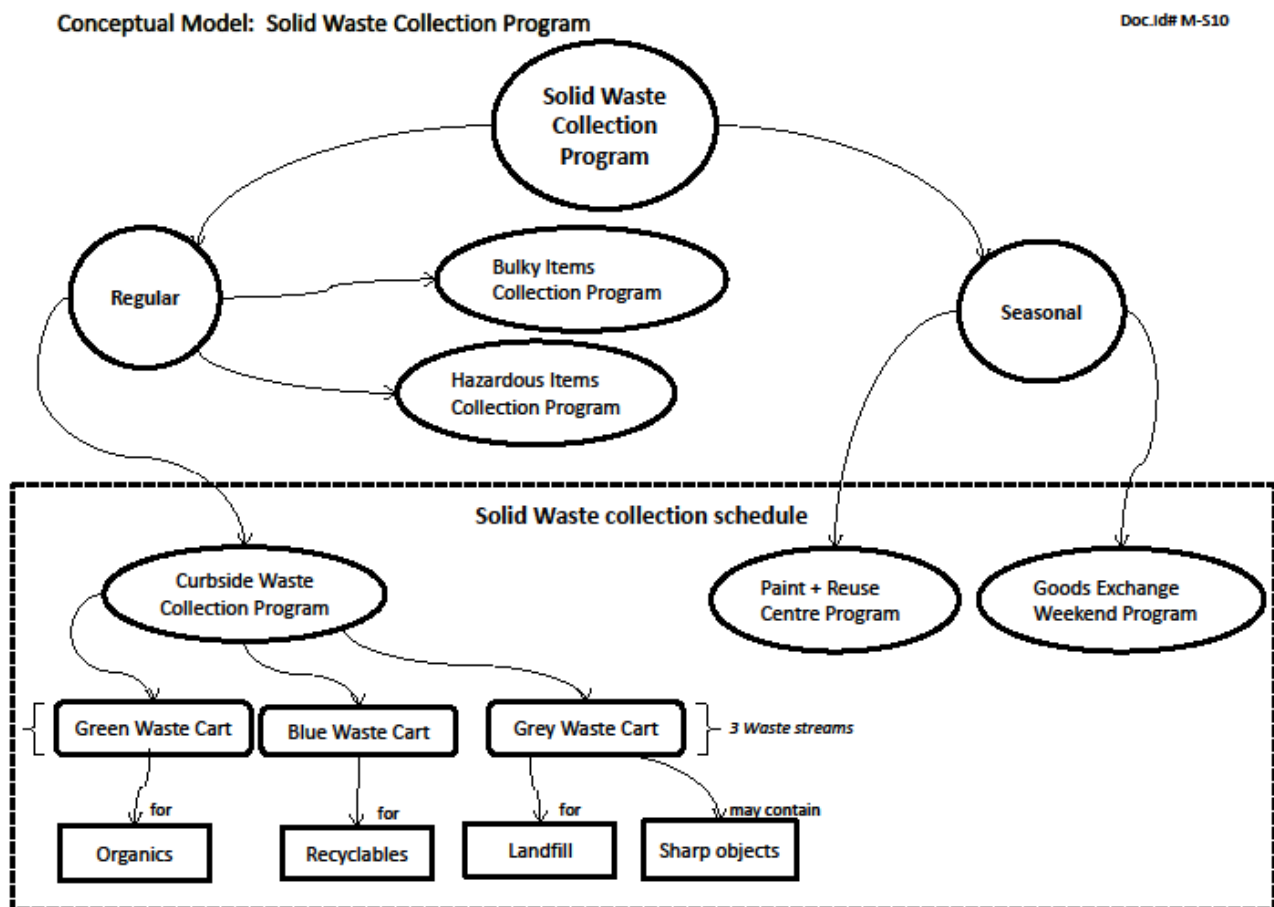
For any questions or clarification, please email opengov@guelph.ca. Good Luck!

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Need Statement

Guelph residents participate in a three-stream curbside collection program – green for organics, blue for recyclables and grey for landfill. There are two curbside collection schedules – Week A and Week B. The green cart is collected at the curb every week. Blue and grey carts are collected biweekly – one week Guelph residents put green and blue carts at the curb, the next week green and grey carts. On statutory holidays there's no curbside collection and collection is one day later for the remainder of the week. Further, there are many special events that happen throughout the year (e.g., (For example, Goods exchange weekends take place twice yearly, once in the spring (May 15-18, 2015) and once in the fall (September 4-7, 2015) and the seasonal opening of the Paint+ Reuse Centre, April 21-October 10, 2015)”. Knowing which waste streams are collected which week and when special programs are offered benefits Guelph residents.

Currently, residents can determine their collection day and whether they are on a Week A or Week B collection schedule by using the collection map distributed to their household each fall or by looking up their address on the existing Waste Collection Lookup Tool.



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Solution expectations

1. Innovative application that can deliver experiences preferably optimized for any device, independent of the web stack.
2. Allow residents to view, email and print a calendar that shows individually the weekday and colour of carts to set out and incorporates the statutory holiday schedule. View the current printable version of the schedule.
3. Provide residents an opportunity to sign up to receive email or text notification the evening before each collection day or a reminder when the collection day is one day later due to a statutory holiday.
4. Enable the City to send out service interruption notices, promotional and educational campaign messaging to residents who opt in.

List of datasets provided

	Dataset file name	Dataset file description
1	waste_program.csv	Dataset for waste program master
2	waste_collection.csv	Dataset for waste collection master
3	schedule_type	Dataset for types of schedule
4	schedule_master.csv	Dataset for collection schedule master
5	curbside_collection_schedule.csv	Dataset defining the curbside collection schedule
6	street_address.csv	Dataset for street address master
7	address_collection.csv	Dataset mapping the collection days for each address
8	statutory_holidays	List of statutory holidays where no waste collections are scheduled

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Physical data model for Solid Waste collection schedule

Doc.Id# M-S11

