

Terms of Reference

Waste Collection
Alternate Servicing Study

The District Municipality of Muskoka

Draft for Review

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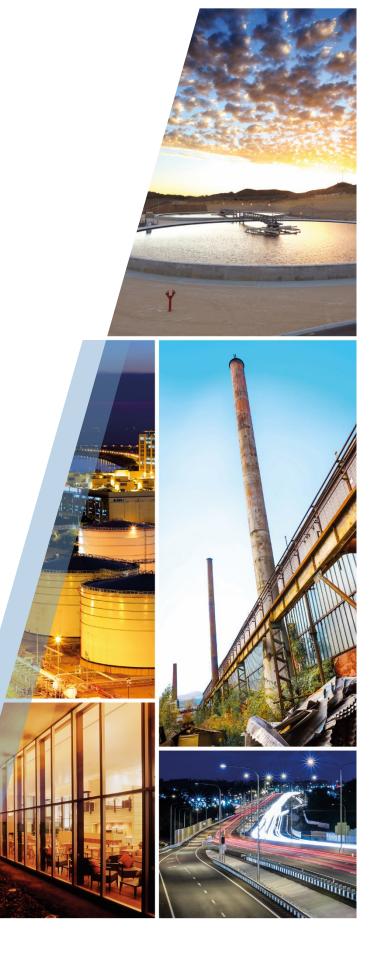




Table of Contents

	1.	Intro	duction	1
	2.	Purp	ose of the Alternate Servicing Study	1
		2.1	Study History and Background	1
		2.2	District Strategic Priorities	2
		2.3	Waste Management Strategy	2
	3.	Desc	cription of Bin Sites and Their Environment	2
		3.1	Township of Georgian Bay	4
		3.2	Township of Muskoka Lakes	6
		3.3	Town of Huntsville	8
		3.4	Town of Bracebridge	10
		3.5	Town of Gravenhurst	12
	4.	Risk	Mitigation Assessment	14
	5.	Ident	ification and Evaluation of Alternatives	15
		5.1	Step 1: Defining Bin Site Communities	17
		5.2	Step 2: Baseline Characterization	17
		5.3	Step 3: Confirmation of Alternatives	17
		5.4	Step 4: Application of Evaluation Criteria	19
		5.5	Step 5: Comparative Evaluation and Identification of Recommended Solution	24
	6.	Prop	osed Consultation Plan	24
		6.1	Development of this Terms of Reference	25
		6.2	Evaluation of the Waste Collection Alternatives	25
		6.3	Identification of the Recommended Waste Collection Solution	25
Fi	gure	e In	dex	
	Figur	re 3.1	Bin Site Locations	3
	Figur	re 3.2	Bin Site Locations (Georgian Bay)	5
	Figur	re 3.3	Bin Site Locations (Township of Muskoka Lakes)	7
	Figur	re 3.4	Bin Site Locations (Huntsville)	9
	Figur	re 3.5	Bin Site Locations (Bracebridge)	11
	Figur	re 3.6	Bin Site Locations (Town of Gravenhurst)	13
	Figur	re 5.1	Study Process	16
	Figur	re 5.2	Example Mobile Collection Trailer	19



Table Index

Table 4.1	High Priority Sites Recommended to be Closed	14
Table 5.1	Sample Evaluation Table	21

Appendices

Appendix A Descriptions of Existing Bin Sites



1. Introduction

This Terms of Reference sets out the framework for carrying out the Alternate Servicing Study being undertaken by The District Municipality of Muskoka (District) to inform their final Bin Site Transition Plan.

Throughout Muskoka, 88 unstaffed dumpsters, referred to as "bin sites", are managed by the District for provision of waste and blue box recycling drop-off collection service. On June 14, 2019, the Ministry of the Environment, Conservation and Parks (MECP) formally directed the District to remove/decommission all unlicensed bins sites by April 30, 2023. As a key component of the Bin Site Transition Plan, the Alternate Servicing Study (Study) will assess waste collection alternatives for communities serviced by the network of bin sites.

The Alternate Servicing Study Proposed Scope of Work was approved by the District Engineering and Public Works (EPW) Committee on December 18, 2019. As per the Scope of Work, the Study will assess alternatives using Environmental Assessment (EA) methodologies. A critical tenet of the EA process, the Study will incorporate consultation with stakeholders and the public.

2. Purpose of the Alternate Servicing Study

The purpose of the Alternate Servicing Study is to inform the Bin Site Transition Plan by assessing waste collection alternatives for the District's communities currently served by 88 existing unlicensed bin sites. The Study will be used to identify alternate waste collection services that are compliant with the *Environmental Protection Act, 1990 (EPA)*, in keeping with the District's Strategic Priorities and future Waste Management Strategy, and reflects the unique waste collection service needs of each community.

2.1 Study History and Background

In 2018, discussions began with the Ministry of the Environment, Conservation and Parks (MECP) that these unlicensed, unstaffed waste sites were essentially serving as transfer stations and they did not comply with the *EPA*. Although the District is responsible for provision of waste management services to Muskoka's six Area municipalities, governing regulations and enforcement related to proper waste management and associated facilities/infrastructure are the responsibilities of the MECP.

On June 14, 2019, the MECP formally directed the District to remove/decommission all unlicensed bins sites by April 30, 2023. Further, the MECP has required that the District submit a plan outlining how the District will ensure that their waste management system will come into full compliance with the *EPA*. Further to direction from the District EPW Committee on October 23, 2019, MECP agreed to submission of the final Bin Site Transition Plan, including information on alternate servicing for waste collection, by November 30, 2020. As noted, the Alternate Servicing Study Scope of Work was approved by the District EPW on December 19, 2019.

Additionally, as part of the bin site transition, the District is undertaking a Risk Mitigation Assessment to evaluate sites with respect to their potential for causing adverse effects to the natural environment



and human health, and identify high priority bin sites that should be addressed in the first phase of mitigation. Direction from the MECP was that deferring removal of bin sites to 2021 forward, would be contingent on assessing risk and potential short-term mitigation measures.

2.2 District Strategic Priorities

The District's Strategic Priorities include continued stewardship of the natural environment – especially water and natural areas – so that they are protected for the values they provide. In particular, the beauty of Muskoka's lakes and rivers have drawn people to its shores to live and work for generations. There are over 680 lakes in Muskoka greater than eight hectares in size. Equally important is the District's strategy priority to provide safe and reliable public infrastructure systems to support all communities across Muskoka. With this in mind, a sustainable waste collection solution for the District's communities will be protective of Muskoka's natural resources, while providing safe and reliable waste collection services.

2.3 Waste Management Strategy

The District is currently preparing a Waste Management Strategy to provide short and long-term solutions for sustainably managing garbage and recyclables. The vision for the Waste Management Strategy:

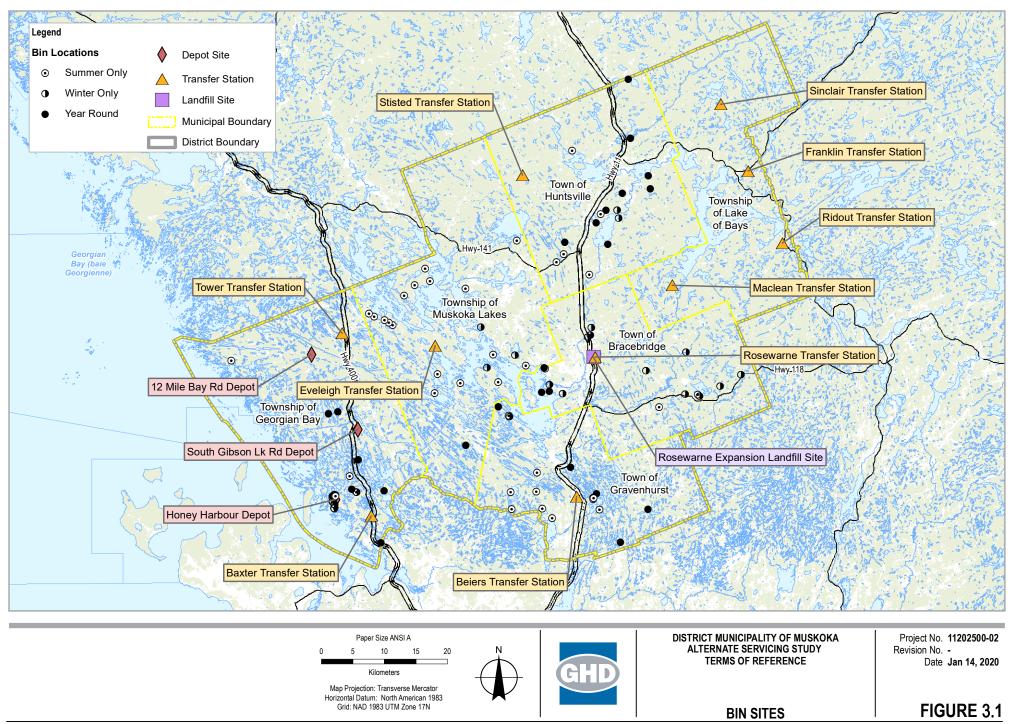
- Work together to foster a better and sustainable waste system for Muskoka
- Reduce the amount of waste we generate, reuse what we can, and recycle and recover remaining resources
- Safeguard our landfill capacity and, as innovators, protection of the environment, and long-term financial sustainability

The existing bin sites do not meet the Waste Management Strategy vision and an alternate waste collection solution will be in keeping with the future Waste Management Strategy.

3. Description of Bin Sites and Their Environment

There are 88 existing bin sites throughout the District (see **Figure 3.1**). The 88 bin sites are located within five Area municipalities as follows (noting that there are no bin sites in the Township of Lake of Bays):

Area Municipality	Number of Bin Sites
Township of Georgian Bay	19
Township of Muskoka Lakes	21
Town of Huntsville	16
Town of Bracebridge	17
Town of Gravenhurst	15
TOTAL	88





In general bin sites are located at private marinas and municipal boat launches; adjacent to rural roads, which are generally inland; and within parking lots at private businesses such as resorts. With the exception of some bin sites within the community of Honey Harbour, most bin sites are located in rural areas of the District.

A description of the bin sites in each Area municipality is provided in the following subsections. For ease of reference, some bin sites have been grouped by geographical area. Additional detailed descriptions of the environment at each bin site is included in **Appendix A**, organized by Area municipality.

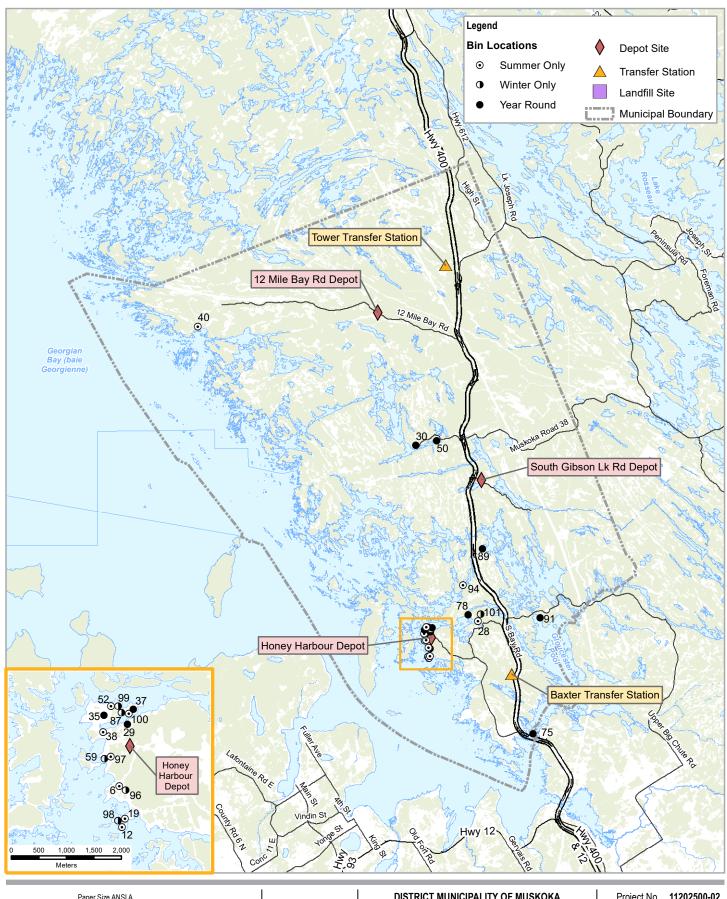
This descriptions of the environment at each bin site were prepared as part of the Risk Mitigation Assessment, described further in Section 4.

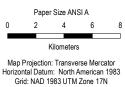
3.1 Township of Georgian Bay

There are 19 bin sites in the Township of Georgian Bay as follows (see Figure 3.2):

- Seven bin sites within the community of Honey Harbour, including five at marinas/boat clubs (Bin Nos. 59, 35, 52, 87 and 29), one at the Honey Harbour Town Centre (Bin No. 38), and one at Honey Harbour Small Motors (Bin No. 37).
- One bin site at King Bay Marina within the Moose Deer Point First Nation (Bin No. 40)
- Three bin sites at marinas south of the community of Honey Harbour, including two on Brandy's Island Road and one on Baxter Loop Road (Bin Nos. 12, 19, 6)
- Two bin sites on Go Home Lake, including one at Go Home Lake Marina and one at the Minors Bay Road Parking Lot (Bin Nos. 30 and 50)
- One bin site at Wawatosa Marina on Six Mile Lake (Bin No. 89)
- One bin site at Woods Landing Marina on North Bay (Bin No. 94)
- Two bin sites at two separate marinas on Toby's Road on South Bay, including South Harbour Marina and Georgian Bay Landing Marina (Bin Nos. 78 and 28 respectively)
- One bin site at White Falls Marina on Gloucester Pool (Bin No. 91)
- One bin site at Severn Marina on Little Lake near Port Severn (Bin No. 75)

A description of the environment at each of these bin sites is provided in Appendix A-1.









DISTRICT MUNICIPALITY OF MUSKOKA ALTERNATE SERVICING STUDY TERMS OF REFERENCE

BIN SITES
TOWNSHIP OF GEORGIAN BAY

Project No. **11202500-02** Revision No. -

Date Jan 14, 2020

FIGURE 3.2

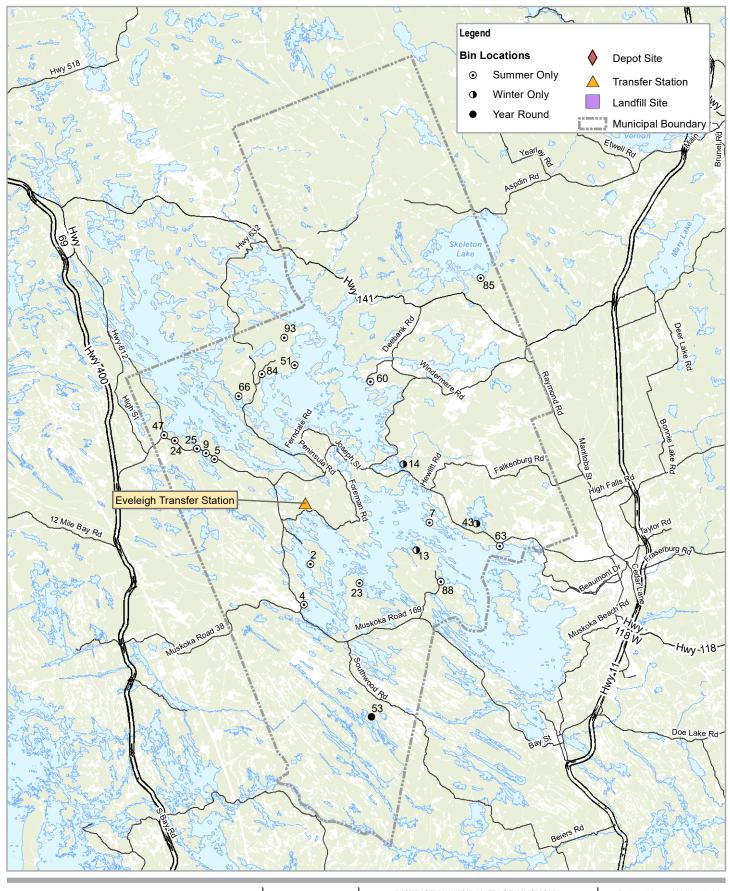


3.2 Township of Muskoka Lakes

There are 21 bin sites in the Township of Muskoka Lakes as follows (see Figure 3.3):

- Four bin sites at the north end of Lake Rosseau, including one on a private property on Juddhaven Road (Bin No. 93), one at Camp Frenda adjacent to Lake Rosseau (Bin No. 51), one at SWS Marina (Bin No. 84), and one at Pride of Rosseau Marina (Bin No. 66)
- One bin site at Parker's Marina in the community of Windermere (Bin No. 60)
- One bin site at Troy Cove Marina on Skeleton Lake (Bin No. 85)
- Five bin sites near Foot's Bay (Lake Joseph) and Bass Lake, including four adjacent to roadways (Bin Nos. 47, 25, 9 and 5), and one in the Joseph Lake Cottagers Landing Parking Lot (Bin No. 25)
- One bin site adjacent to Danbell Road and Poste Road on Acton Island (Bin No. 2)
- One bin site at Bala Cove Marina (Bin No. 4)
- One bin site at Nine Mile Lake Marina (Bin No. 53)
- One bin site at East Bay Marina (Bin No. 23)
- One bin site adjacent to roadway on Breezy Point Road and Barlochan Road (Bin No. 13)
- One bin site at Walkers Point Marina (Bin No. 88)
- One bin site within parking lot for Pine Island, south of Touchstone Resort (Bin No. 63)
- One bin site adjacent to roadway on Leonard Lake Road (Bin No. 43) and one bin site at Beaumaris Yacht Club (Bin No. 7)
- One bin site adjacent to roadway on Buttler Road near Brandy Lake (Bin No. 14)

A description of the environment at each of these bin sites is provided in Appendix A-2.





Map Projection: Transverse Mercator Horizontal Datum: North American 1983 Grid: NAD 1983 UTM Zone 17N





DISTRICT MUNICIPALITY OF MUSKOKA ALTERNATE SERVICING STUDY TERMS OF REFERENCE

BIN SITES
TOWNSHIP OF MUSKOKA LAKES

Project No. 11202500-02 Revision No. -

Date Jan 14, 2020

FIGURE 3.3

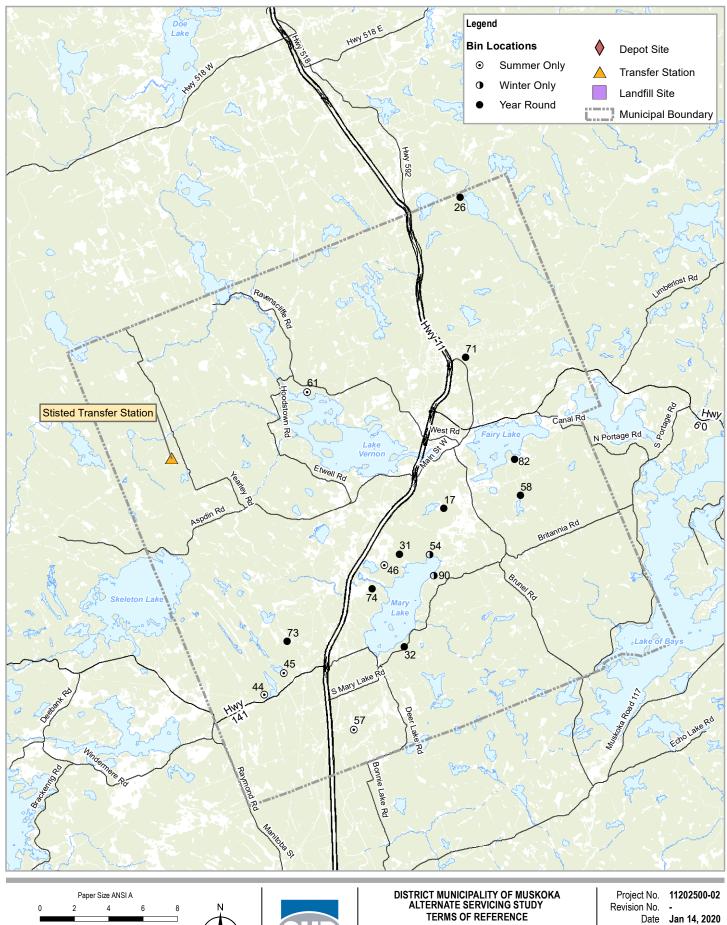


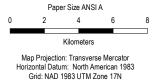
3.3 Town of Huntsville

There are 16 bin sites in the Town of Huntsville as follows (see Figure 3.4):

- Three bin sites near the community of Utterson adjacent to roadways on Longs Lake Road,
 Mainhood Road and Rose Lake Road (Bin Nos. 44, 45 and 73 respectively)
- One bin site adjacent to roadway on Fish Lake Road near Oudaze Lake outside of the community of Novar (Bin No. 26)
- One bin site adjacent to roadway on Rivercove Drive south of Big East River (Bin No. 71)
- One bin site adjacent to roadway on Peacock Bay Road near Lake Vernon (Bin No. 61)
- One bin site adjacent to roadway on Springfield Road at the south end of Fairy Lake (Bin No. 82)
- One bin site adjacent to roadway on Chub Lake Road (Bin No. 17) and one bin site adjacent to Otter Lake Road (Bin No. 58)
- Six bin site near Mary Lake, including one within the Mary Lake municipal boat launch (Bin No. 54); and five adjacent to roadways on West Point Sands Road east of Mary Lake, Hawkes Road south of Mary Lake, and Gryffin Lodge Road, Penfold Lake Road/Evergreen Trail, and Rowanwood Road/Pitman Bay Road north of Mary Lake (Bin Nos. 90, 32, 31, 46, and 74 respectively)
- One bin site adjacent to roadway on North Muskoka River Road south of the community of Port Sydney (Bin No. 57)

A description of the environment at each of these bin sites is provided in Appendix A-3.







BIN SITES TOWN OF HUNTSVILLE Date Jan 14, 2020

FIGURE 3.4

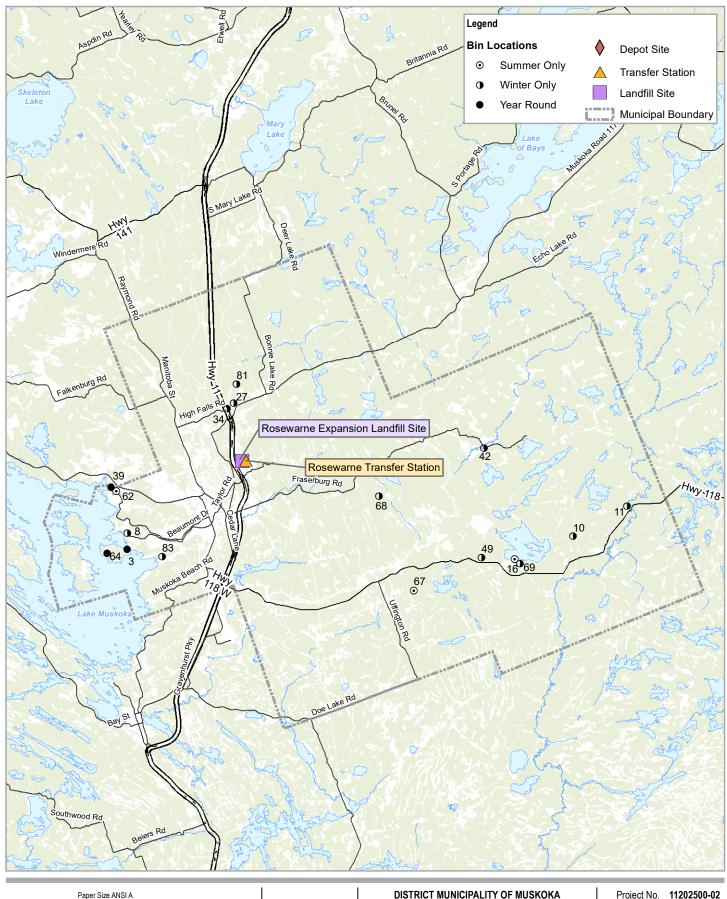


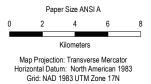
3.4 Town of Bracebridge

There are 17 bin sites in the Town of Bracebridge as follows (see Figure 3.5):

- Six bin sites adjacent to roadways near Highway 118 between Prospect Lake and Black River Road, including on Black River Road, Bird Lake Road/Boe Bay Road, Rignalls Road, Blenkins Way, Milne Road and Prospect Lake Road (Bin Nos. 11, 10, 69, 16, 49, and 67 respectively)
- Two bin sites adjacent to roadways near Fraserburg Road, including one at Lorne Road and one at Purbrook Road/Staunton Road (Bin Nos. 42 and 68 respectively)
- Four bin sites near Lake Muskoka west of Bracebridge, including two adjacent to roadways on Stephens Bay Road/Strawberry Bay Road and Beaumont Farm Road/Alport Bay Road (Bin Nos. 83 and 8 respectively), one at Pride of Muskoka Marina (Bin No. 64), and one at Allport Marina (Bin No. 3)
- Two bin sites at marinas on Sprit Bay on Lake Muskoka (Bin Nos. 39 and 62)
- Three bin sites adjacent to roadways near High Falls/Muskoka River on Springdale Park Road,
 Forrester Trail Road and Holiday Park Road (Bin Nos. 81, 27 and 34 respectively)

A description of the environment at each of these bin sites is provided in Appendix A-4.









DISTRICT MUNICIPALITY OF MUSKOKA ALTERNATE SERVICING STUDY TERMS OF REFERENCE

BIN SITES
TOWN OF BRACEBRIDGE

Project No. 11202500-02 Revision No. -

Date Jan 14, 2020

FIGURE 3.5

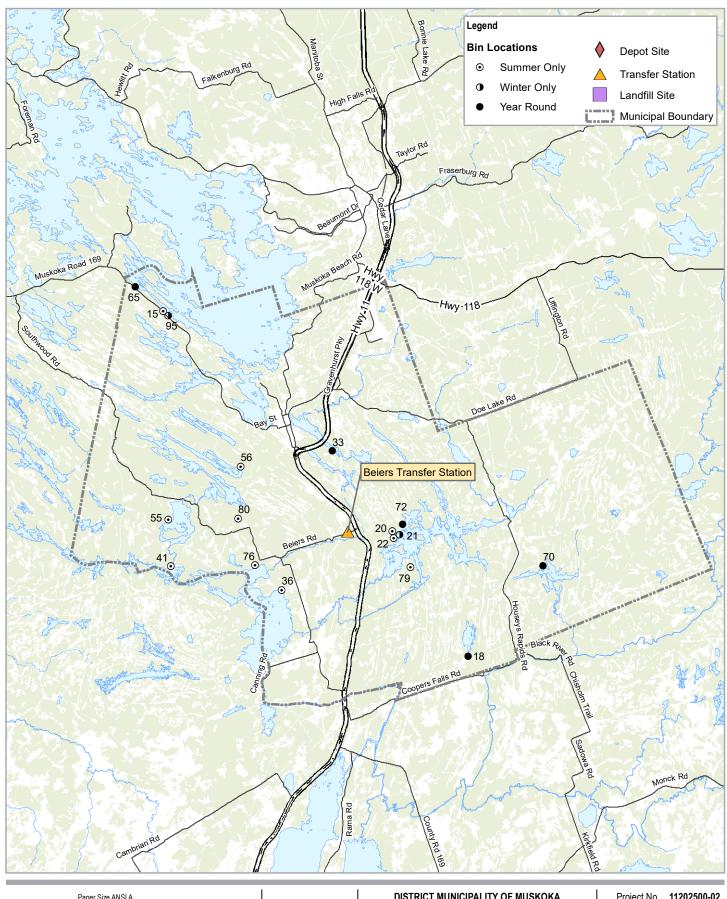


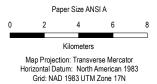
3.5 Town of Gravenhurst

There are 15 bin sites in the Town of Gravenhurst as follows (see Figure 3.6):

- Two bin sites near Morrison Lake and Severn River, including one at Lantern Marina and one adjacent to roadway on North Morrison Lake Road (Bin Nos. 41 and 55 respectively)
- One bin site adjacent to roadway on South Muldrew Lake Road (Bin No. 80)
- One bin site adjacent to roadway on Sopher's Landing Road on McLean Bay (Severn River) (Bin No. 76)
- One bin site near Franklin Park on Sparrow Lake (Bin No. 36)
- Two bin sites at marinas on Lake Muskoka (Bin Nos. 65 and 15)
- One bin site adjacent to roadway on North Muldrew Lake Road (Bin No. 56)
- Four bin sites near Kahshe Lake, including two at Dennes Marina (Bin Nos. 20/21 and 22), one at Rockhaven Resort (Bin No. 72), and one adjacent to the roadway on South Kahshe Lake Road (Bin No. 79)
- One adjacent to the roadway at Duggan Trail/Clear Road near Clearwater Lake (Bin No. 18)
- One adjacent to roadway on Hewitt Street near Gull Lake south of Gravenhurst (Bin No. 33)
- One in municipal parking lot on Riley Lake Road (Bin No. 70)

A description of the environment at each of these bin sites is provided in Appendix A-5.







DISTRICT MUNICIPALITY OF MUSKOKA ALTERNATE SERVICING STUDY TERMS OF REFERENCE

BIN SITES
TOWN OF GRAVENHURST

Project No. **11202500-02** Revision No. -

Date Jan 14, 2020

FIGURE 3.6



4. Risk Mitigation Assessment

As noted above, the Risk Mitigation Assessment is being undertaken to evaluate sites with respect to their potential for causing adverse effects to the natural environment and human health, and identify high priority bin sites that should be addressed in the first phase of mitigation. As a result of the Risk Mitigation Assessment, 25 of the bin site listed above were identified as high priority with mitigation to be provided in 2020 as part of the first phase. Of these 25, the Risk Mitigation Assessment recommended that:

- Eleven bin sites remain open in the short-term with the introduction of site specific mitigation in 2020 (e.g. relocate bins within the existing site to a new location);
- Thirteen bin sites close in 2020 with alternate servicing to be developed in consultation with Area Municipalities and local stakeholders; and
- Additional assessment be undertaken for one bin site (Bin No. 55 on North Morrison Lake Road) to determine whether it is feasible to move bins within the existing site.

The thirteen high-priority bin sites to be closed in 2020 are listed in Table 4.1:

Table 4.1 High Priority Sites Recommended to be Closed

Area Municipality	Bin Sites
Township of Georgian Bay	 Bin No. 38 at Honey Harbour Town Centre Bin No. 12 at Brandy's Cove Yachting Centre on Brandy's Island Road
Township of Muskoka Lakes	 Bin No. 47 on McDonald Road near Foot's Bay (Lake Joseph) Bin No. 25 on Muskoka Road 169 at Hamills Point Road
Town of Huntsville	 Bin No. 71 on Rivercove Drive south of Big East River Bin No. 54 at the Mary Lake municipal boat launch
Town of Bracebridge	 Bin No. 16 at the intersection of Caribou Road and Blekins Way Bin No. 42 at the intersection of Fraserburg Road and Lorne Road
Town of Gravenhurst	 Bin No. 36 near Franklin Park on Sparrow Lake Bin No. 20 at the boat launch at Dennes Marina Bin No. 72 at Rockhaven Resort Bin No. 33 on Hewitt Street near Gull Lake Bin No. 70 on Riley Lake Road in a municipal parking lot

Nothwithstanding the results of Risk Mitigation Assessment, the 25 high-priority bin sites will be assessed as part of the Alternate Servicing Study to identify sustainable waste collection solution. The assessment, described in further detail in Section 6 below, will take the results of the Risk Mitigation Assessment into consideration.



5. Identification and Evaluation of Alternatives

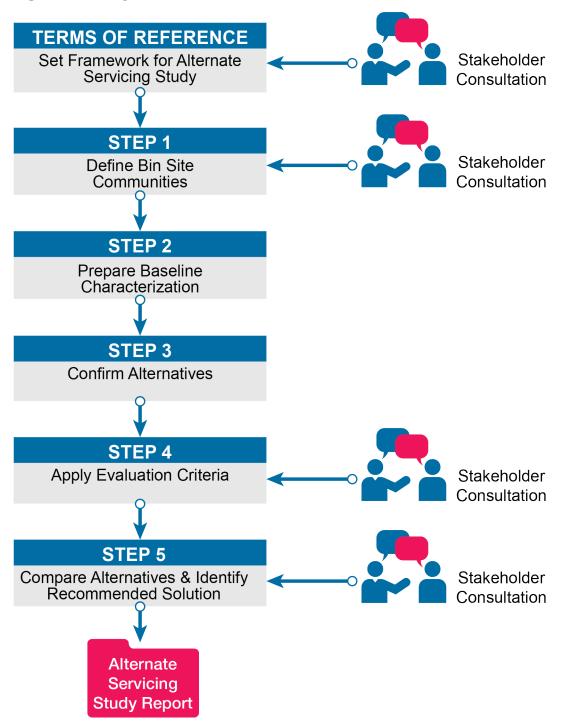
Recognizing that a single holistic waste collection solution for the District will likely not be feasible given the varied geography and nature of the District itself, autonomy of the Area Municipalities to determine their desired level of service, and the different number and type of households serviced by the sites (such as water access and island properties), the Study needs to examine waste collection alternatives. In light of this, the following five steps are proposed for identifying and evaluating alternatives:

- Step 1: Defining Bin Site Communities
- Step 2: Baseline Characterization
- Step 3: Confirmation of Alternatives
- Step 4: Application of Evaluation Criteria
- Step 5: Comparative Evaluation and Identification of Recommended Solution

These five steps and how stakeholder feedback will be incorporated into this process is shown in Figure 5.1. Further description of the proposed consultation plan is included in Section 6.



Figure 5.1 Study Process





5.1 Step 1: Defining Bin Site Communities

In order to properly assess waste collection alternatives for each community, Step 1 will involve defining the community that each of the bin sites services. Each community will generally be defined by the users of the bin sites (e.g. residents, businesses, boaters, etc.). As part of this step information will be requested from municipal and local stakeholders, such as access to island properties and boat launch/marina users. It is anticipated that, in some cases, multiple bin sites service the same community. Where it makes sense to do so, multiple bin sites will be grouped together for servicing a community.

5.2 Step 2: Baseline Characterization

To provide baseline information for the assessment of alternatives, each bin site will be characterized in terms of the potential for adverse effects to human health and the natural environment related to the existing bin sites. This characterization represents the "status quo" if no alternative waste collection servicing is provided. However, as noted above, the MECP has advised the District that the current bin sites are unlicensed and must be removed and decommissioned. As a result, a "do nothing" or "status quo" alternative is not feasible. This Step will utilize the findings of the Risk Mitigation Assessment undertaken in fall 2019.

5.3 Step 3: Confirmation of Alternatives

Once this baseline is established waste collection alternatives will be assessed for each community. Taking into consideration why the existing bin sites are not sustainable, only those alternatives that allow for a supervised drop-off, provide an opportunity for diversion of recyclables and organics, reduce the opportunity for illegal dumping, and will be included in the assessment. At this time, the following waste collection alternatives are proposed for examination:

- Redirect residents/businesses to an existing, supervised District transfer station or waste depot
- Establish a new supervised District transfer station or waste depot in the location of an existing bin site
- Establish a new supervised District transfer station or waste depot at a new site within the community
- · Expand curbside collection into the community
- Establish a specialized collection method along waterways such as barge or dockside collection (where applicable)
- Establish mobile bin sites using special trailers or collection vehicles

Recognizing the unique context of each community, only alternatives that are applicable to that community will be carried forward for evaluation. For example, barge or dockside collection would not be assessed for inland communities or communities serviced during the winter season by a bin site. The preceding alternatives will be confirmed based on input received from stakeholders and the public through the planned consultation activities (see Section 5). A brief description of each proposed alternative is provided below.



Redirect residents/businesses to an existing, supervised District transfer station or waste depot

This alternative would involve removing the existing bin site(s) and directing users to an existing supervised District transfer station of waste depot. Current transfer stations and depots within the District are shown on **Figure 3.1**. As part of this solution, the existing transfer station/waste depot would be reviewed to identify any modifications to the site and/or operations that may be required to accommodate the increase in users and waste (e.g. hours of operations, capacity, available queuing space, etc.).

Establish a new supervised District transfer station or waste depot in the location of an existing bin site

This alternative would involve converting an existing bin site to a supervised transfer station or waste depot. Any new transfer stations or waste depots would be fenced with supervision and scheduled hours, and would require approval from the MECP under the *Environmental Protection Act*. Therefore, this alternative would involve undertaking additional environmental investigations, preparing a detailed design, and consulting with local stakeholders, the Area municipality, and the MECP.

Establish a new supervised District transfer station or waste depot at a new site within the community

This alternative would involve removing the existing bin site(s) and constructing a supervised District transfer station or waste depot at a new site. Similar to the alternative above, any new transfer stations or waste depots would be fenced with supervision and scheduled hours and would require approval from the MECP under the *Environmental Protection Act*. Therefore, this alternative would involve identifying a suitable site, undertaking applicable environmental investigations, preparing a detailed design, and consulting with local stakeholders, the Area municipality, and the MECP.

Expand curbside collection into the community

Curbside collection is currently available in some parts of the District. This alternative would involve expanding curbside collection to the community(s) currently using bin site(s).

Establish a specialized collection methods along waterways such as barge or dockside collection

This alternative would involve removing the existing bin site(s) and implementing a specialized collection method for residents whose properties are only accessible by water during the summer season. Specialized collection may include use of barges or dockside collection. Since this type of collection method is not widely used in Ontario, it would require further consultation with the MECP to discuss its approvability, and ensure it can be undertaken in a way that is protective of the natural environment and does not increase the risk of spills into waterways.



Establish mobile bin sites using special trailers or collection vehicles.

This alternative would involve converting existing bin site(s) to mobile bin sites through the use of special trailers or collection vehicles. An example of a mobile collection trailer is shown in **Figure 5.2**. Trailers would be parked at existing bin site location(s), supervised, and collected by the District on a predetermined schedule. Since this type of collection method is not widely used for long term waste collection in Ontario, it would require further consultation with the MECP to discuss approvability, and ensure it can be undertaken in the way that is protective of the natural environment.



Figure 5.2 Example Mobile Collection Trailer

5.4 Step 4: Application of Evaluation Criteria

As noted above, the Study will assess alternatives using EA methodologies. Ontario's *Environmental Assessment Act* defines the environment broadly, including the natural, built, social, economic, and cultural environment. The evaluation criteria proposed to be used in this Study reflects this broad definition. The proposed evaluation criteria will be confirmed following consultation on this Terms of Reference (see Section 5). Once confirmed, the applicable alternatives established in Step 3 will be assessed against the following proposed evaluation criteria:

Natural Environment

- Compliance with applicable environmental regulations and policies, including the Environmental Protection Act
- Ability to result in increased diversion and less contamination of divertible material
- Potential to reduce illegal dumping
- Potential impact on natural environment, including surface water bodies and groundwater

Social, Built and Economic Environment

- Change to waste collection service level and user convenience
- Potential impact on sensitive receptors
- Potential traffic impact
- Potential visual impacts
- Potential for increased employment
- Potential impact of land acquisition, including opportunity for brownfield redevelopment and complexity of land acquisition



Technical

- Within ability of District to implement
- Technical feasibility/viability based on municipal experience in Ontario
- Capability to manage the waste quantities anticipated to be received
- Flexibility to adapt to changes in the waste stream, diversion programs, and fluctuations in waste quantities or composition
- · Potential impacts on safety of waste collection staff

Financial and Legal

- Relative capital and operational costs
- Potential impacts on risk and/or liability of District and/or Area municipalities

The evaluation criteria will be applied to each alternative in order to identify relative advantages and disadvantages of each alternative in terms of their impacts on the environment. Where applicable, the recommendations of the Risk Mitigation Assessment will be incorporated in the application of criteria. A sample evaluation table is shown in **Table 4.1**:



Table 5.1 Sample Evaluation Table

Bin Site/Community:						
	Redirect to Existing Transfer Station	Establish New Transfer Station at Existing Site	Establish New Transfer Station at New Site	Expand Curbside Collection	Implement Specialized Collection	Establish Mobile Bin Site
Natural Environment						
Compliance with applicable environmental regulations and policies, including the Environmental Protection Act						
Ability to result in increased diversion and less contamination of divertible material.						
Potential to reduce illegal dumping						
Potential impact on natural environment, including surface water bodies and groundwater						
Social, Built and Economic Environment						
Change to waste collection service level and user convenience						
Potential impact on sensitive receptors						
Potential traffic impacts						



Bin Site/Community:						
	Redirect to Existing Transfer Station	Establish New Transfer Station at Existing Site	Establish New Transfer Station at New Site	Expand Curbside Collection	Implement Specialized Collection	Establish Mobile Bin Site
Potential visual impacts						
Potential for increased employment						
Potential impact of land acquisition, including opportunity for brownfield redevelopment and complexity of land acquisition						
Technical						
Within ability of District to implement						
Technical feasibility/viability based on municipal experience in Ontario						
Capability to manage the waste quantities anticipated to be received						
Flexibility to adapt to changes in the waste stream, diversion programs, and fluctuations in waste quantities or composition						
Potential impacts on safety of waste collection staff						



Bin Site/Community:						
	Redirect to Existing Transfer Station	Establish New Transfer Station at Existing Site	Establish New Transfer Station at New Site	Expand Curbside Collection	Implement Specialized Collection	Establish Mobile Bin Site
Financial and Legal			'			
Relative capital and operational costs						
Potential impacts on risk and/or liability of District and/or Area municipalities						
Ranking of Alternatives and Rationale						



5.5 Step 5: Comparative Evaluation and Identification of Recommended Solution

The alternatives will be comparatively evaluated using a "Reasoned Argument" or "trade-off" approach. In the Reasoned Argument approach, none of the criteria are weighted any higher or lower than others. All criteria are instead evaluated in terms of their trade-offs with other criteria.

First, the advantages/disadvantages identified for each alternative by criterion are compared to one another to identify a criterion ranking by alternative (i.e., Most Preferred, More Preferred, Less Preferred or Least Preferred). A rationale for the alternative rankings by criterion will be provided within the Comparative Evaluation Table. Following the identification of criterion rankings, an overall recommendation will be assigned to the alternative with the greatest number of top placed category rankings (e.g., more "Most Preferred" and "More Preferred" rankings) among all of the alternatives considered, thus providing the highest number of advantages and the least number of disadvantages overall. A rationale for the recommended alternative will be provided within the Comparative Evaluation Table.

Once the recommended solution for each community is established, they will be reviewed as a whole to build a District-wide picture of waste servicing. As part of this review opportunities for District-wide or Area municipality-wide operational efficiencies will be identified.

6. Proposed Consultation Plan

As discussed in the approved Scope of Work, stakeholder and public consultation is critical to the successful implementation of the Bin Transition Plan. With this in mind, consultation is proposed throughout the Study to ensure the proposed waste collection solution reflects the needs, interests, and concerns of its users, as well as the unique context of each community serviced by the existing bin sites. Specifically consultation is proposed at the following key milestones:

- Development of this Terms of Reference
- · Evaluation of the waste collection alternatives for each community; and
- Identification of the recommended waste collection solution for each community.

It is anticipated that the following stakeholder groups will be consulted as part of the Study:

- District Engineering and Public Works Committee
- Area Municipal Councils and formed committees to address the bin transition
- Area municipal staff
- Cottage, Lake and Ratepayer Associations
- Property owners, residents and businesses adjacent to existing bin site(s)
- Existing bin site users (e.g. residents, businesses, boaters, etc.)

The consultation proposed for each milestone is further described in the following subsections.



6.1 Development of this Terms of Reference

The draft Terms of Reference will be presented to the District EPW Committee for comment in January 2020. In addition, the draft Terms of Reference will be circulated to stakeholders for review and comment. Where necessary, meetings will be held with stakeholders to discuss comments. Comments will be taken into consideration as part of finalizing the Terms of Reference and undertaking the Study, where applicable. It is intended that the Terms of Reference be finalized in February 2020.

6.2 Evaluation of the Waste Collection Alternatives

As part of evaluating the waste collection alternatives, information from Area Municipalities and key stakeholders will be critical to understanding who uses the bin sites and how. Pending direction from District Council, a survey will be sent to relevant stakeholders (e.g. Area Municipalities, marina owners, etc.) to request relevant information, such as the number of boat slips, number of customers using boat landings, etc.

6.3 Identification of the Recommended Waste Collection Solution

Public consultation events will be held to present the evaluation of waste collection alternatives for each community. The purpose of these events will be to present information on the Study, and receive feedback on the results of the evaluation. Public consultation events are proposed to be held from May to July 2020 in order to ensure both permanent and seasonal residents have the opportunity to participate. Five public consultation events are anticipated with one event in each Area municipality.

In addition to the in-person public consultation events, feedback will also be sought through the EngageMuskoka online engagement platform. This online engagement will provide a broader reach, and is particularly beneficial for this Study given the large geography and seasonal nature of residency within the District. Information presented at the in-person consultation events will also be posted on the EngageMuskoka platform, and comments received online will be considered equally to those received at the in-person consultation events.



about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

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Appendices GHD | Alternate Servicing Study Terms of Reference | 111202500 (1)

Appendix A Descriptions of Existing Bin Sites

Appendix A1: Township of Georgian Bay

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Bin Site	Site Name	Location	Site Description	Surrounding Properties
12 Year Round	Brandy's Cove Yachting Centre	105 Brandy's Island Road, Honey Harbour	 Currently 1 bin on Site located within storage area of marina (private property). Reportedly 4 bins on Site in the summer. Approximately 40 metres north of Georgian Bay Topography is relatively flat Bins not located within well head or intake protection area 	North: Marina yard and residential properties South: Marina yard and Georgian Bay East: Marina yard and Georgian Bay West: Marina yard and residential properties
19 Summer Only	Cousineau's Bay Marina	42 Brandy's Island Road, Honey Harbour	Reportedly 4 bins located within marina storage yard and boat launch area Located between 10 and 15 metres east of Georgian Bay Topography relatively flat Bins not located within well head or intake protection area	North: Marina buildings South: Marina yard and Georgian Bay East: Marina yard and parking area West: Marina boat launch area and Georgian Bay
6 Year-Round	Bayview Marine Resort	387 Baxter Loop Road, Honey Harbour	4 bins located within the trailer park of the marina (private property) Creek relatively close to bin Site to the north and east Topography is relatively flat Bins not located within well head or intake protection area	North: Treed land saturated with water followed by residential properties South: Marina followed by residential properties East: Creek and treed land West: Treed land and lake
59 Year-Round	Paragon Marina	114 Picnic Island Road	 4 bins located within the marina (private property) In the summer the bins are located approximately 50 metres northeast of the Georgian Bay. In the winter the bins are located adjacent to the bay. Topography slopes southwest towards the bay Bins not located within well head or intake protection area 	North: Residential properties South: Marina yard and Georgian Bay East: Marina yard West: Marina yard and/or Georgian Bay
38 Summer	Honey Harbour Town Centre	2604 Honey Harbour Road	 Reportedly 4 bins located behind a grocery store (private property) Approximately 35 metres southeast of wetland and over 100 metres north of Georgian Bay Topography slopes north towards wetland and south towards Honey Harbour Road Bins not located within well head or intake protection area 	North: Property access driveway followed by wetland South: Honey Harbour Road followed by residential property East: Residential property West: Residential property
35 Year-Round	Honey Harbour Boat Club	2709 Honey Harbour Road, Honey Harbour	 2 to 4 bins located within access road of boat club (private property) Located over 100 metres from wetland and/or water bodies Topography slopes to the south, east and west Bins not located within well head or intake protection area 	North: Boat club buildings South: Boat club access road followed by Honey Harbour Road East: Boat club access road followed by boat club buildings West: Grass area followed by commercial property
52 Year-Round	Nautilus Marina	2755 Honey Harbour Road	 6 bins located within marina storage yard Approximately 85 metres south of Georgian Bay Topography slopes to the north towards marina buildings Bins not located within well head or intake protection area 	North: Marina building followed by Georgian Bay South: Marina parking lot East: Marina parking lot followed by Georgian Bay West: Marina grassed area
37 Year-Round	Honey Harbour Small Motors	2847 Honey Harbour Road	 3 bins located on the east side of Honey Harbour Road Approximately 75 metres east of Georgian Bay Topography is relatively flat Bins not located within well head or intake protection area 	North: Honey Harbour Small Motors and Marina South: Cottages and commercial properties East: Honey Harbour Small Motors and Marina West: Boat storage yard
87 Year-Round	Village Marina	2762 Honey Harbour Road	 4 bins located off of gravel road in the winter and by marina storage building in the summer Located approximately 25 metres and 35 metres north of Georgian Bay in the winter and summer respectively Topography slopes to the south towards Georgian Bay Bins not located within well head or intake protection area 	North: Honey Harbour Road followed by commercial properties South: Marina docks and Georgian Bay East: Marina storage yard and access road West: Marina storage yard and access road
29 Year-Round	Georgian Bay Water Taxi	97 Lily Pond Road, Honey Harbour	 4 bins located within marina storage yard Bins located approximately 40 metres south of Georgian Bay Topography slopes downward radially around the bins Bins not located within well head or intake protection area 	North: Marina access road followed by Georgian Bay South: Marina building and yard East: Marina buildings and storage yard West: Marina buildings

			• 7 bins located on the south side of Ogemawahj Road (Native	North: Ogomawahi Pood followed by
40 Summer Only	King Bay Marina	Ogemawahj Road	Adjacent to the north of Georgian Bay Topography is relatively flat Bins not located within well head or intake protection area	residential land South: Georgian Bay East: Grassed area West: King Bay Marina
30 Year-Round	Go Home Lake Marina	827 Go Home Lake Road, MacTier	 7 bins located on the north side of Go Home Lake Road Approximately 70 metres north of Blue Lagoon Lake Topography slopes southwest towards Go Home Lake Road Bins not located within well head or intake protection area 	North: Drainage ditch and forested land South: Go Home Lake Road and forested land East: Forested land West: Forested land
50 Year-Round	Minors Bay Road Parking Lot	26 Minors Bay Road	8 bins located on the west side of a Town of Georgian Bay parking lot Approximately 10 metres north of Minors Bay Topography slopes to the south towards Minors Bay Bins not located within well head or intake protection area	North: Parking lot South: Minors Bay Road followed by Minors Bay East: Parking lot entrance followed by forested land West: Forested land
89 Year-Round	Wawatosa Marina	169 Crooked Bay Road	 3 bins located within marina storage yard Approximately 50 metres west of Six Mile Lake Topography slopes towards marina buildings followed by Six Mile Lake Bins not located within well head or intake protection area 	North: Marina buildings and storage yard South: Marina buildings and storage yard East: Marina buildings followed by Six Mile Lake West: Marina buildings and storage yard
94 Summer Only	Woods Landing Marina	565 Georgian Bay Road	4 bins located on the east side of marina access road (private property) Approximately 20 metres west of North Bay Topography is relatively flat Bins not located within well head or intake protection area	North: Marina access road and wooded area South: Small stream and wooded area East: Marina docks and North Bay West: Marina access road, storage yard and parking area
78 Year-Round	South Harbour Marina	251 Tobys Road	 3 bins located on the west side of Toby's Road within marina property (private property) Approximately 60 metres southwest of wetland and 60 metres west of tributary of South Bay Topography slopes to the south towards marina buildings and southeast towards tributary Bins not located within well head or intake protection area 	North: Marina storage area South: Tobys Road and marina East: Tobys Road West: Marina
28 Year-Round	Georgian Bay Landing Marina	91 Tobys Road, Honey Harbour	4 bins within marina storage yard (private property) 8 bins stored at various locations within marina storage yard and access roads Over 50 metres north of South Bay (part of Georgian Bay) Slopes to the south towards marina buildings Bins not located within well head or intake protection area	North: Toby's Road followed by residential properties South: Marina buildings followed by South Bay East: Forested land West: Marina storage yard followed by forested land
91 Year-Round	White Falls Marina	134 Old Mill Road	 4 bins located within marina storage yard (private property) Over 100 metres northeast of Gloucester Pool and approximately 60 metres south od wetland Topography slopes gently to the west towards marina Bins not located within well head or intake protection area 	North: Old Mill Road followed by forested land South: Marina access road and storage yard East: Old Mill Road followed by forested land West: Marina access road and storage yard
75 Year-Round	Severn Marina	195 Port Severn Road North	3 bins located on the west side of marina access road (private property) Located approximately 80 metres southeast of Little Lake Low lying wet area observed to the southeast of bin Site Topography is relatively flat Bins not located within well head or intake protection area	North: Marina access road and buildings South: Marina storage yard and Port Severn Road North East: Marina parking lot West: Marina buildings

Appendix A2: Township of Muskoka Lakes

Bin Site	Site Name	Location	Site Description	Surrounding Properties
93 Summer Only	Woodrow Rosseau Road	1405 Juddhaven Road	 4 bins reportedly located at the end of Juddhaven Road (private property) No water bodies or wetland within the vicinity Topography slopes to the north towards forested land Bins not located within well head or intake protection area 	North: Forested land South: Juddhaven Road and forested land East: Forested land West: Forested land
51 Summer Only	Morinus Road	1231 Morinus Road	 Reportedly 3 summer bins located within a parking lot (private property) Approximately 90 metres west of Lake Rosseau Topography slopes gradually to the southeast towards residential property Bins not located within well head or intake protection area 	North: 1231 Morinus Road followed by Camp Frenda South: Residential property East: Parking lot followed by Lake Rosseau West: 1231 Morinus Road followed by Camp Frenda
84 Summer Only	SWS Marina	1112 Juddhaven Road	 Reportedly 3 summer bins on the south side of 1112 Juddhaven Road (private property) Approximately 75 metres north of wetland Within less than 10 metres northeast of tributary of Lake Rosseau Topography is relatively flat 	North: 1112 Juddhaven Road followed by small unnamed lake South: Marina storage yard followed by wetland East: Boat storage yard West: Road followed by boat storage yard
66 Summer Only	Pride of Rosseau Marina	1901 Peninsula Road	 5 bins within a boat storage yard (private property) Over 100 metres north of Lake Rosseau Topography slopes gradually to the south towards marina buildings Bins not located within well head or intake protection area 	North: Boat storage yard South: Rosseau Road followed by marina East: Boat storage yard West: Treed land
60 Summer Only	Parkers Landing	1034 Matthews Road	 Reportedly 3 garbage, 1 paper and 1 container bins in the summer Approximately 30 metres west of Lake Rosseau and adjacent to the east of low-lying saturated area Bins located within parking area of marina Topography generally slopes to the west to creek 	North: Matthews Dr South: Marina and Lake Rosseau to the southeast, residential/forested land to the southwest East: Marina and Lake Rosseau West: Forested land and residential
85 Summer Only	Troy Cove Marina (Skeleton Lake Road #2)	1291 Skeleton Lk Road 2	 Topography generally slopes to the west to creek Reportedly 3 bins located on south side of the Skeleton Lake Road Approximately 45 metres west of Skeleton Lake Previously moved from marina property Relatively flat with a gradual slope to the southeast Bins not located within well head or intake protection area 	North: Treed land and residential properties South: Marina East: Skeleton Lake Road and marina West: Forested land
47 Summer Only	McDonald Road	1009 McDonald Road	Reportedly 5 bins on the north side of McDonald Road Approximately 30 metres north of a creek Relatively flat along McDonald Road. Steep slope on the south side of McDonald Road towards creek Bins not located within well head or intake protection area	North: Hydro substation and residential properties South: McDonald Road followed by creek East: Gostick Road followed by residential properties West: Commercial Property
24 Summer Only	Ent #4916 Muskoka Road 169 (Trillium Road)	4916 Muskoka Road 169	 Reportedly 3 summer bins located on the east side of private access road Over 100 metres south of Lake Joseph Topography is relatively flat Bins not located within well head or intake protection area 	North: Private access road followed by residential property South: Grassed area followed by Muskoka Road 169 East: Vacant land West: Vacant and residential land
9 Summer Only	Berners Road	1008 Berners Road	 Reportedly 3 bins located on the west side of Berners Road (private property) Over 100 metres east of Bass Lake Topography slopes to the south towards forested land Bins not located within well head or intake protection area 	North: Forested land South: Forested land East: Berners Road followed by forested land West: Forested land
25 Summer Only	Ent. 4716 Muskoka Road 169 (Hamills Point Road)		 Reportedly 3 summer bins on private property to the north of Muskoka Road 169 Approximately 30 metres east of Lake Joseph Bins located at top of hill. Elevation declines around bins. Slopes sharply around all sides including towards lake Bins not located within well head or intake protection area 	North: Residential properties South: Muskoka Road 169 East: Residential properties West: Residential property followed by Lake Joseph
5 Summer Only	Bass Lake Road	Bass Lake Road	Reportedly 4 summer bins located on the east side of Bass Lake Road Over 200 metres east of Bass Lake Topography slopes to the north along Bass Lake Road Bins not located within well head or intake protection area	North: Forested land South: Forested land East: Bass Lake Road followed by forested land West: Forested land
2 Summer Only	Acton Island	1015 Danbell Road	 Reportedly 3 summer bins located on the north side of Danbell Road No water bodies of wetland within the vicinity Topography slopes southwest along Poste Road Bins not located within well head or intake protection area 	North: Forested land South: Danbell Road followed by forested land East: Forested land West: Forested land

4 Summer Only	Bala Cove Marina	1021 Gordon Street	 Reportedly 4 bins located within private road of marina (private property) Approximately 130 metres west of Lake Muskoka Topography slopes to the east towards marina buildings Bins located within Bala Intake Protection Zone 1 	North: Marina storage yard South: Marina buildings East: Marina buildings West: Marina buildings followed by residential properties
53 Year-Round	Nine Mile Lake Marina	1205 Nine Mile Lake Road	 6 bins located within marina parking lot owned by the municipality Located approximately 100 metres north of Nine Mile Lake A stream was observed approximately 2 metres to the northeast of the bin travelling from north to southeast flowing into Nine Mile Lake 	North: Marina storage yard South: Marina access way and storage yard East: Nine Mile Lake Road and vacant property West: Marina buildings
23 Summer Only	East Bay Marina	1021 Packers Bay Road	 4 bins located within marina storage yard (private property) Located approximately 50 metres south of Lake Muskoka Topography slopes to the northeast towards marina storage yard then lake Bins not located within well head or intake protection area 	North: Marina storage yard South: Marina building East: Marina storage yard West: Marina storage yard
13 Winter Only	Breezy Point Road	1414 Barlochan Road	 3 bins located on the southwest corner of Breezy Point Road and Barlochan Road within municipal road allowance Located approximately 65 metres south of Muskoka Lake Slopes to the north towards residential properties then lake Bins not located within well head or intake protection area 	North: Barlochan Road followed by residential properties South: Residential treed land East: Breezy Point Road followed by residential treed land West: Residential treed land
88 Summer Only	Walkers Point Marina	1035 Marina Road	4 bins located within marina yard (private property) Locates less than 10 metres southwest of Lake Muskoka Topography slopes to the north/northeast towards lake Bins not located within well head or intake protection area	North: Lake Muskoka South: Marina buildings East: Marina buildings West: Residential property
63 Summer Only	Pine Island Parking Lot	1869 Muskoka Road 118, Unit 1	 Reportedly 2 recycling bins and 1 garbage bin within private parking lot and lake access dock area (private property) Approximately 20 m west of Lake Muskoka Topography gradually slopes to Lake Muskoka Bins not located within well head or intake protection area 	North: Resort South: Cottage East: Lake Muskoka West: parking lot and private access road
43 Winter Only	Leonard Lake Road #2	1119 Leonard Lake Road 2	 2 recycling and 1 garbage bin on the south side of Leonard Lake 2 Rd Approximately 75 m southwest of Leonard Lake Topography slopes to the east/west along Leonard Rd as well as north towards residential property. Higher elevation to the south of the bins. 	North: Residences/cottages (Leonard Lake 75 metres to the northeast) South: Treed Land East: Leonard Road West: Residential/cottage properties to the west and southwest
7 Summer Only	Beaumaris Yacht Club	1197 Beaumaris Road	Reportedly 5 bins within yacht club (private property) Approximately 15 metres north of Lake Muskoka Generally slopes south towards lake Bins not located within well head or intake protection area	North: Yacht club tennis court South: Yacht club docks and Lake Muskoka East: Residential property West: Yacht club buildings and Lake Muskoka further to the west
14 Winter Only	Butler Road	1014 Phyllimar Lane	 1 garbage and 2 recycling bins on north side of Phyllimar Lr Approximately 60 metres south of wetland and over 100 metres southeast of Brandy Lake Topography slopes towards adjacent forested land to the northwest Bins not located within well head or intake protection area 	North: Forested land South: Phyllimar Ln followed by forested land East: Forested land West: Forested land and residential properties

Appendix A3: Town of Huntsville

Bin Site	Site Name	Location	Site Description	Surrounding Properties
44 Summer Only		67 Longs Lake Road	Reportedly 4 summer bins located on the west side of Longs Lake Road Over 200 metres from closest water body Creek approximately 30 metres northeast of bins Topography slopes to the south along Longs Lake Road Drainage ditch observed to the along Longs Lake Road approximately 20 metres south of waste site Bins nor located within well head or intake protection area	North: Forested land South: Forested land East: Longs Lake Rd followed by residential property West: Private cottage
45 Summer Only	Mainhood Road	166 Mainhood Road	 Reportedly 3 summer bins on the north side of Mainhood Road Over 100 metres southeast of Mainhood Lake Topography slopes to the west towards treed and residential land Bins not located within well head or intake protection area 	North: Forested land South: Mainhood Rd and forested land East: Residential property West: Mainhood Rd, residential property and forested land
73 Year-Round	Rose Lake Road	338 Rolse Lake Road	3 bins located on the south side of Rose Lake Road Over 200 metres southwest of Bell Lake Approximately 23 metres southeast of wetland (wetland located up/cross gradient from waste bins) Topography slopes to the east along Rose Lake Rd Bins not located within well head or intake protection area	North: Rose Lake Rd followed by forested land South: Forested land followed by residential properties East: Rose Lake Road, residential property and forested land West: Private road and forested land
26 Year Round	Fish Lake Rd at Maws Road	31 Maws Road	 3 bins located on the north side of Fish Lake Road within private property 30 metres northeast of wetland and over 100 metres northwest of Oudaze Lake Topography generally slopes to the north towards forest land and to the west along Fish Lake Rd Bins not located within well head or intake protection area 	North: Forested land South: Maw's Road and forested land East: Oudaze Lake Road and forested land West: Fish Lake Road and forested land
71 Year-Round	Rivercove Drive	1417 Muskoka Road 3 North	 4 bins on the west side of Rivercove Drive Bins located approximately 90 metres south of Big East River Topography is relatively flat with a gradual slope to the north Bins not located within well head or intake protection area 	North: Rivercove Drive and residential properties South: Forested land East: Rivercove Drive and forested land West: Forested land and potential dirt bike track
61 Summer Only	Peacock Bay Road	94 Peacock Bay Road	Reportedly 4 bins within the east shoulder of Peacock Bay Road Approximately 90 metres south of wetland and 105 metres northeast of Lake Vernon Topography slopes to the north towards forested land Bins not located within well head or intake protection area	North: Forested land South: Forested land to the south and residential property to the southwest East: Forested land West: Peacock Bay Road followed commercial property
82 Year-Round	Springfield Road	340 Springfield Road	3 bins on the east side of Springfield Road Located over 300 metres south of Fairy Lake Located approximately 70 metres south of agricultural land Topography slopes to the north along Springfield Road Bins not located within well head or intake protection area	North: Private driveway and treed land South: Forested land East: Forested land West: Springfield Road and forested land
58 Year-Round	Otter Lake Road	197 Otter Lake Road	 3 bins located on the west shoulder of Otter Lake Road Over 200 metres south of wetland and northeast of Otter Lake Creek located to the south of the bins (not adjacent, but exact distance unknown) Topography slopes to the south towards the creek Bins not located within well head or intake protection area 	North: Forested land South: Forested land and creek East: Otter Lake Road and forested land West: Forested land
17 Year-Round	Chub Lake Road	410 Chub Lake Road	 3 bins located within municipal road allowance Located over 200 metres away from Chub Lake Rolling topography sloping towards treed areas to the west Bins not located within well head or intake protection area 	North: Private road and residential properties South: Chub Lake Road followed by residential properties East: Residential properties West: Residential properties

54 Winter Only	North Mary Lake Road	1592 N Mary Lk Road	3 bins located within a boat launch area owned by Town of Huntsville Less than 10 metres north of Mary Lake Topography slopes to the south towards Mary Lake Bins not located within well head or intake protection area	North: North Mary Lake Road South: Boat launch dock and Mary Lake East: Cottage West: Boat launch dock and Mary Lake
90 Winter Only	West Point Sands Road	158 West Point Sands Road	 3 bins located at the end of West Point Sands Road Over 100 metres southeast of Mary Lake Topography to the northwest towards residential properties Bins not located within well head or intake protection area 	North: Residential/cottage properties South: Treed land East: Treed land West: West Point Sands Road followed by residential properties
32 Year-Round	Hawkes Road	1120 Muskoka Road 10	 4 bins located on reportedly private roadway south of Hawkes Lake Road Approximately 60 metres west of wetland Small creek over 10 metres west of bin Site Topography slopes to the south along Hawkes Road and to the west towards small creek Bins not located within well head or intake protection area 	North: Hawkes Road followed by treed land South: Muskoka Road followed by treed land and residential properties East: Hawkes Road followed by treed land and wetland West: Treed land and residential properties
31 Year-Round	Gryffin Lodge Road	536 Gryffin Lodge Road	 4 bins located on the north side of Gryffin Lodge Road Approximately 70 metres northwest of wetland Topography slopes gradually to the north towards forested land and to the east along Gryffin Lodge Road Bins not located within well head or intake protection area 	North: Forested land South: Gryffin Lodge Road, followed by forested land East: Forested land West: Residential/cottage property
46 Summer Only	Mary Lake Marina	320 Penfold Lake Road	 Reportedly 3 bins on privately owned roadway (Evergreen Trail) Located over 100 metres south of wetland and approximately 450 metres east of Penfold Lake Topography sloped to the south towards treed land Bins not located within well head or intake protection area 	North: Penfold Lake Road followed by residential property South: Treed land East: Evergreen Trail followed by treed land West: Treed land followed by residential property
74 Year Round	Rowanwood Road	400 Rowanwood Road	 3 bins located on the east side of Pitman Bay Road (Pitman Bay Road is reportedly privately owned) Approximately 200 metres southwest of a tributary of Mary Lake Topography is relatively flat, with gradual slope towards south towards drainage ditch along Pitman Bay Road Bins not located within well head or intake protection area 	North: Rowanwood Road and agricultural land further to the north South: Forested land East: Forested land West: Pitman Bay Road
57 Summer Only	North Muskoka River Road	373 Stephenson Road 2 East	 Reportedly 3 bins on the west side of North Muskoka River Road No wetlands and/or lakes within the vicinity Topography is relatively flat Bins not located within well head or intake protection area 	North: Treed land followed by Stephenson Road 2 East South: Treed land East: North Muskoka River Road followed by treed land and graded area West: Sand and gravel pit

Appendix A4: Town of Bracebridge

Bin Site	4: Town of Bra Site Name	Location	Site Description	Surrounding Properties
11 Winter Only	Black River and Clear Lake Road	Black River Road	5 bins located on the east side of Black River Road Approximately 120 metres west of Black River Tributary of Black River located approximately 55 metres east of bin Site Low lying wet area between Black River Road and Black River Topography slopes to the east towards treed land and tributary Bins not located within well head or intake protection area	North: Vacant treed land South: Vacant treed land East: Vacant treed land West: Black River Road followed by residential treed land
10 Winter Only	Bird Lake Road	Bird Lake Road and Boe Bay Road	 3 bins located at the northwest corner of Boe Bay Road and Bird Lake Road within municipal road allowance Approximately 55 metres southwest of wetland Site topography is relatively flat with a steep downward slope to the east of the Site towards Bird Lake Road Bins not located within well head or intake protection area 	North: Residential treed land South: Boe Bay Road followed by residential property East: Bird Lake Road followed by residential property West: Residential treed land
69 Winter Only	Rignalls Road	1020 Rignalls Road	3 bins located on the south side of Rignalls Road within municipal road allowance Approximately 60 metres northwest of tributary of Wood Lake Topography slopes to the south towards treed land Bins not located within well head or intake protection area	North: Rignalls Road followed by commercial treed land South: Commercial treed land East: Commercial treed land West: Commercial treed land
16 Summer Only	Caribou Road (at the intersection of Blenkins Way)	1002 Blenkins Way	Reportedly 4 summer bins located at the end of Caribou Road Approximately 20 metres south of Wood Lake Topography slopes to the north towards the lake Bins not located within well head or intake protection area	North: Wood Lake South: Caribou Road and commercial properties East: Commercial properties West: Residential/cottage property
49 Winter Only	Milne Road	1002 Milne Road	4 bins located on the west side of Milne Road within road allowance No water bodies or wetland within the vicinity Topography slopes radially around bins towards roadway and treed land Bins not located within well head or intake protection area	North: Residential treed land South: Residential treed land East: Residential treed land West: Milne Road followed by residential treed land
67 Summer Only	Prospect Lake Road	1347 Prospect Lake Road	Reportedly 4 summer bins located on the north side of Prospect Lake Road Approximately 100 metres east of wetland Bin Site located on top of hill Bins not located within well head or intake protection area	North: Vacant treed land South: Prospect Lake Road followed by residential treed land East: Vacant treed land West: Vacant treed land
42 Winter Only	Leech/Pine Lake Road	Fraserburg Road at Lorne Road	5 bins located on the southeast corner of intersection Fraserburg Road and Lorne Road within municipal road allowance Topography is relatively flat Wetland approximately 25 and 15 metres to the north and west respectively Bins not located within well head or intake protection area	North: Fraserburg Road followed by vacant treed land South: Vacant treed land East: Vacant treed land West: Lorne Road followed by vacant treed land
68 Winter Only	Purbrook Road	Staunton Road and Purbrook Road	 3 bins located on the northeast corner of Purbrook Road and Staunton Road within municipal road allowance No water body or wetland within the vicinity Topography is relatively flat with a gradual downward slope to the east along Staunton Road Bins not located within well head or intake protection area 	North: Residential properties South: Staunton Road followed by residential properties East: Residential properties West: Purbrook Road followed by residential treed land
83 Winter Only	Strawberry Bay	Strawberry Bay Road and Stephens Bay Road	3 bins located on the southwest corner of Stephens Bay Road and Strawberry Bay Road No water bodies or wetland within the vicinity Topography slopes towards treed land Bins not located within well head or intake protection area	North: Strawberry Bay Road followed by vacant and agricultural treed land South: Vacant treed land East: Strawberry Bay Road followed by vacant treed land West: Vacant treed land
64 Year Round	Pride of Muskoka (Browning Island Residents)	1770 Beaumont Drive	4 bins located within Town of Bracebridge parking lot Over 200 metres northeast of Lake Muskoka Low• lying saturated area adjacent to the west Topography is relatively flat Bins not located within well head or intake protection area	North: Marina storage yard South: Marina storage yard followed by residential treed land East: Beaumont Drive followed by residential treed land West: Vacant field owned by marina. Low lying and saturated

3 Year Round 8 Winter Only	Allport Marina Beaumont Farm Road Pvt	1640 Beaumont Drive 1082 Beaumont Farm Road	6 bins located on the south side of Beaumont Drive at Allport Marina Approximately 25 metres southwest of wetland and 70 metres south of Lake Muskoka Topography is relatively flat Bins not located within well head or intake protection area 3 bins located at the northwest corner of Beaumont Farm Road and Alport Bay Road No water bodies or wetland within the vicinity Topography is relatively flat Bins not located within well head or intake protection area	North: Beaumont Drive followed by marina parking area South: Marina storage yard East: Marina storage yard followed by wetland West: Marina storage yard followed by residential treed land North: Residential/farm property South: Alport Bay Road followed by vacant treed land East: Herbert Court followed by residential/farm land
39 Year-Round	Spirit Bay (formerly Indian Head Harbour)	1048 Cedar Beach Road	6 bins located within a private marina (private property) Approximately 40 metres north of Lake Muskoka Topography within the waste bin Site is relatively flat Bins are located to the north of the marina buildings, adjacent to a trailer storage area, and not immediately adjacent to Lake Muskoka Bins not located within well head or intake protection area	West: Vacant treed land North: Treed area, Boyd Bay Road, residential area South: Marina and Lake Muskoka East: Treed area to the east and northeast, and marina to the southeast West: Boyd Bay which leads into Lake Muskoka
62 Summer Only	Pier 100 Marina, Spirit Bay (second entrance past Indian Head Harbour entrance)	Road Road	Reportedly 4 bins within private marina during summer season (private property) Approximately 35 metres south of Lake Muskoka Topography within waste bin Site is relatively flat with a gentle slope to the west Bin Site located within yard and parking area of private marina Bins not located within well head or intake protection area	North: Marina and Lake Muskoka South: Marina yard and treed area East: Treed area West: Marina and Lake Muskoka
81 Winter Only	Springdale Park Road	1133 Springdale Park Road	 3 bins located on the south side of Springdale Park Road Over 80 metres east of the Muskoka River Topography slopes gently to the west Bins not located within well head or intake protection area 	North: Springdale Park Road and treed land South: Treed land East: Residential Property West: Residential Property
27 Winter Only	Forrester Trail Road	1029 Forrester Trail Road	 3 bins located on the east side of Forrester Trail Road Approximately 85 metres east of the Muskoka River Slopes to the north along Forrester Trail Road Bins not located within well head or intake protection area 	North: Treed land South: Treed Land East: Treed land followed by sand and gravel pit West: Forrester Trail Road followed by residential property
34 Winter Only	Holiday Park Road	Holiday Park Drive	3 bins located on north of Holiday Park Drive off of MNRF owned access road to park. Approximately 100 metres north of Muskoka River and 100 metres west of wetland Relatively flat with gradual slope to the east along Holiday Park Drive and to the north towards the park Bins not located within well head or intake protection area	North: MNRF Park South: Holiday Park Drive East: Treed land West: Treed land followed by Highway 11

Appendix A5: Town of Gravenhurst

Bin Site	Site Name	Location	Site Description	Surrounding Properties
41 Summer Only	Lantern Marina	1336 S Morrison Lake Road	 Reportedly 4 summer bins located on the south side of Lantern Bay Way Approximately 40 metres south of Severn River Topography slopes to the north towards resort properties then the river Bins not located within well head or intake protection area 	North: S Morrison Lake Road followed by resort property and Severn River South: Resort property East: Resort property West: Resort property
55 Summer Only	North Morrison Lake Road	1177 North Morrison Lake Road	 Reportedly 4 summer bins at the end of North Morrison Lake Road Adjacent to the east of wetland Topography is relatively flat Bins not located within well head or intake protection area 	North: Wetland and vacant forested land South: Wetland and vacant forested land East: Wetland West: Residential land and vacant forested land
80 Summer Only	South Muldrew Lake Road	1061 S Muldrew Lake Road	 Reportedly 4 bins on the west side of S Muldrew Lake Road allowance No water bodies or wetland within the vicinity Rolling topography Bins not located within well head or intake protection area 	North: Vacant and residential treed land South: Vacant and residential treed land East: S Muldrew Lake Road followed by vacant treed land West: Residential house under construction
76 Summer Only	Sopher's Landing	1045 Sopher's Landing	Reportedly 4 bins on the east side of Sopher's Landing Road Approximately 30 metres southwest of a tributary of Sparrow Lake and 90 metres north of Sparrow Lake Rolling topography Bins not located within well head or intake protection area	
36 Summer Only	Franklin Park	1315 Kilworthy Road	Reportedly 3 bins on the west side of Kilworthy Road Approximately 25 metres north of Sparrow Lake Topography is relatively flat Bins not located within well head or intake protection area	North: Franklin park South: Sparrow Lake East: Franklin park West: Resort property
65 Year Round	Villas Marina	2194 Muskoka Road 169	4 bins located within parking lot of restaurant and marina (private property) Approximately 15 metres northeast of tributary to Lake Muskoka and 90 metres southwest of Lake Muskoka Topography slopes to the south residential treed land and tributary Bins not located within well head or intake protection area	North: Marina parking area and storage yard South: Residential treed land East: Residential properties West: Frank Miller Memorial Route followed by residential treed land
15 Year Round	Campbells Landing Marina	1956 Muskoka Road 169	 5 summer bins and 3 winter bins within marina storage yard (private property) Located approximately 10 metres south of Lake Muskoka in the summer and over 60 metres south of lake in the winter Topography slopes to the northeast towards lake Bins not located within well head or intake protection area 	North: Lake Muskoka in the summer and marina storage yard followed by lake in the winter South: Marina storage yard in summer and winter East: Marina building in summer and marina storage yard in winter West: Lake in summer and marina storage yard in winter
56 Summer Only	North Muldrew Lake Road	1323 North Muldrew Road	 Reportedly 3 summer bins located on the west side of Indian Landing Road Located approximately 45 metres west of wetland Topography slopes to the northeast towards Indian Landing Road and wetland approximately 50 metres away Bins not located within well head or intake protection area 	North: Commercial treed land South: Trailer park East: Indian Landing Road followed by wetland West: Trailer park
20 Summer Only	Dennes Marina Dock	1186 N Kahshe Lake Road Unit 2	Reportedly 5 summer bins within boat launch area (private property) Located approximately 3 metres west of Kahshe Lake Topography slopes to the east towards lake Bins not located within well head or intake protection area	North: Residential property and lake South: Launch dock and lake East: Lake West: Marina building
21/22 Year-Round	Dennes Marina Office (winter)	1179 N Kahshe Lake Road	 4 bins located on the south side of North Kahshe Lake Road Located approximately 150 metres west of Kahshe Lake Topography slopes gradually to the southeast towards residential/cottage properties Bins not located within well head or intake protection area 	North: Commercial property South: Residential properties East: Residential properties West: Residential properties

0	Dennes Marina Parking Lot (summer)	1024 Nagaya Drive	Reportedly 4 summer bins located in parking lot of Dennes Marina (private property) Located approximately 20 metres north of wetland and 35 metres northwest of Kahshe Lake Topography slopes gradually southeast towards lake Bins not located within well head or intake protection area	North: Residential properties South: Marina parking lot followed by wetland East: Marina parking lot followed by lake West: Marina parking lot followed by wetland
72 Year-Round	Rockhaven Resort	1312 N Kahshe Lake Road	4 bins located within boat launch turnaround point Located approximately 15 metres west of Kahshe Lake Topography slopes to the east towards lake Bins not located within well head or intake protection area	North: Turnaround point followed by resort property South: Boat launch followed by lake East: Lake West: Residential property
79 Summer Only	South Kahshe Lake Road	Between West Bank Road and Road 1700	 Reportedly 3 summer bins located on the west side of South Kahshe Lake Road Located approximately 20 metres northeast of wetland and 40 metres west of tributary to Kahshe Lake Bin Site situated at top of hill Bins not located within well head or intake protection area 	North: Vacant treed land South: South Kahshe Lake Road followed by vacant treed land East: Vacant treed land followed by tributary West: South Kahshe Lake Road followed by wetland
18 Year-Round	Clear Road	Duggan Trail	 4 bins located on the northeast side of Clear Road and Duggan Trail Approximately 60 metres northwest of wetland Topography is relatively flat Bins not located within well head or intake protection area 	North: Vacant treed land South: Duggan Trail followed by vacant treed land East: Vacant treed land West: Clear Road followed by vacant treed land
33 Year Round	Hewitt Landing	1102 Hewitt Street	 4 bins located at the end of Hewitt Street Approximately 35 metres west of Gull Lake Topography slope to the east towards the residential/cottage properties and the lake Bins not located within well head or intake protection area 	North: Residential/cottage property followed by Gull Lake South: Treed land and commercial properties East: Residential/cottage property followed by Gull Lake West: Treed land and commercial properties
70 Year-Round	Riley Lake Road	1178 Riley Lake Road	 4 bins located on the east side of a municipal parking lot Approximately 20 metres northeast of Riley Lake Topography slopes to the south towards the lake Bins not located within well head or intake protection area 	North: Riley Lake Road followed by vacant treed land South: Parking lot and Riley Lake East: Residential property treed land West: Parking lot followed by boat launch area and Riley Lake