

Policy: Otter Lake Construction and Demolition Debris Policy (DRAFT)

Version: 1

Date: March 21, 2024

Issued by: Andrew Philopoulos P.Eng. M.Sc., Director of Solid Waste Resources, Halifax Regional Municipality

Construction and Demolition (C&D) debris refers to material such as drywall, plaster, cellulose, fibreglass fibres, gyproc, lumber, wood and asphalt shingles.

HRM established By-Law L-200 Respecting Licensing of C&D Recycling and Disposal Operations in 2001 with the overarching goals of maximizing diversion of C&D debris from landfill disposal, as well as to increase value-added processing through recovery of materials. By-Law L-200 requires C&D Processing Facilities, Transfer Stations, and Disposal Sites within HRM to obtain a license from the municipality and includes provisions that operators achieve an annual diversion rate of 75% in order to maintain their license in good standing.

Most recently, in July 2023, NS Environment and Climate Change (NSECC) confirmed that the Otter Lake Waste Management Facility (Otter Lake) is permitted to accept C&D debris for disposal as part of the current Environmental Approval. Given the goals of By-Law L-200, HRM generally does not permit the disposal of C&D debris at Otter Lake, with the exception of small amounts collected as part of the residential collection program or incidental amounts commingled in Institutional Commercial & Industrial (ICI) loads¹.

Given the increase in extreme weather events and with consideration for emergency management, moving forward HRM will consider accepting dedicated loads of C&D debris at Otter Lake under emergency management situations. This includes in response to major emergency management situations such as hurricanes, floods, and wildfires that cause catastrophic damage to public or private property, resulting in existing licensed C&D Processing Facilities, Transfer Stations and Disposal Sites located within HRM not being able to accommodate the resulting volumes of C&D debris.

The Director of Solid Waste Resources has the authority to designate the conditions and guidelines relating to the acceptance of waste materials at waste management facilities per By-Law S-600 Solid Waste Resource Collection and Disposal By-Law. If the decision is made to allow C&D debris to be landfilled at Otter Lake, the Director will notify the Otter Lake Community Monitoring Committee (CMC) within 48 hours. The CMC is entitled to gain access to information or access and inspect Otter Lake per the latest version of the HRM – Halifax Waste Society Agreement.

¹ Warnings are issued when inspections reveal small amounts of C&D in ICI loads. Any loads full loads of C&D are rejected.

CMC Agenda Attachment

2022- before shutdown of FEP/WSF						
Collection area	Feb'22 Audit	May'22 Audit	Aug'22 Audit	Nov'22 Audit	Average	
Halifax, Spryfield	N/A	15.40%	13.10%	18.60%	15.70%	
Dartmouth	N/A	10.44%	20.50%	16.70%	15.88%	
Bedford, Hammonds Plains, Pockwock	N/A	3.86%	19.30%	14.80%	12.65%	
Beechville-Timberlea, Herring Cove, Prospect	N/A	3.26%	12.40%	11.60%	9.09%	
Peggy's Cove, St. Margarets Bay	N/A	6.34%	12.00%	14.00%	10.78%	
Wellington, Dutch Settlement	N/A	3.39%	5.90%	15.60%	8.30%	
Cole Harbour, Westphal, Cherry Brook, Eastern Passage, Cow Bay area	N/A	3.96%	7.80%	17.80%	9.85%	
Porter's Lake, Lawrencectown, Chezzetcook, Lake Echo, Prestons area	N/A	6.90%	16.40%	8.00%	10.43%	
Middle Musq., Elderbank, Musq. Harbour, Sheet Harbour, Eastern Shore	N/A	10.38%	13.20%	12.20%	11.93%	
Condos	N/A	7.10%	13.40%	14.37%	11.62%	
Total Compostable Averages						

2023- after shutdown of FEP/WSF						
Collection area	Feb'23 Audit	May'23 Audit	Aug'23 Audit	Nov'23 Audit	Average	
Halifax, Spryfield	9.02%	13.70%	4.10%	9.67%	9.12%	
Dartmouth	8.04%	10.10%	4.27%	14.58%	9.25%	
Bedford, Hammonds Plains, Pockwock	17.45%	15.90%	5.08%	18.72%	14.29%	
Beechville-Timberlea, Herring Cove, Prospect	9.90%	26.50%	9.63%	10.79%	14.21%	
Peggy's Cove, St. Margarets Bay	13.65%	6.30%	4.33%	13.00%	9.32%	
Sackville, Beaverbank, Fall River, Waverley, Wellington, Dutch Settlement	12.66%	6.70%	4.40%	8.71%	8.12%	
Cole Harbour, Westphal, Cherry Brook, Eastern Passage, Cow Bay area	5.95%	5.00%	6.26%	16.49%	8.43%	
Porter's Lake, Lawrencectown, Chezzetcook, Lake Echo, Prestons area	10.87%	5.40%	12.47%	7.23%	8.99%	
Middle Musq., Elderbank, Musq. Harbour, Sheet Harbour, Eastern Shore	19.01%	39.30%	18.52%	17.98%	23.70%	
Condos	11.84%	14.32%	7.67%	13.02%	11.71%	
Total Compostable Averages						

Collection area	2022		2023		Difference Average
	Average	Average	Average	Average	
Halifax, Spryfield	15.70%	9.12%	9.12%	-6.58%	
Dartmouth	15.88%	9.25%	9.25%	-6.63%	
Bedford, Hammonds Plains, Pockwock	12.65%	14.29%	14.29%	1.63%	
Beechville-Timberlea, Herring Cove, Prospect, Peggy's Cove, St. Margarets Bay	9.09%	14.21%	14.21%	5.12%	
Sackville, Beaverbank, Fall River, Waverley, Wellington, Dutch Settlement	10.78%	9.32%	9.32%	-1.46%	
Cole Harbour, Westphal, Cherry Brook, Eastern Passage, Cow Bay area	8.30%	8.12%	8.12%	-0.18%	
Porter's Lake, Lawrencectown, Chezzetcook, Lake Echo, Prestons area	9.85%	8.43%	8.43%	-1.43%	
Middle Musq., Elderbank, Musq. Harbour, Sheet Harbour, Eastern Shore	10.43%	8.99%	8.99%	-1.44%	
Condos	11.93%	23.70%	23.70%	11.78%	
Total Compostable Averages	11.62%	11.71%	11.71%	0.09%	

HRM Number Correction						
2022- before shutdown of FEP/WSF						
Collection area	Feb'22 Audit	May'22 Audit	Aug'22 Audit	Nov'22 Audit	Average	
Halifax, Spyrifield	1	N/A	15.40%	13.09%	19.11%	15.87%
Dartmouth	2	N/A	10.44%	20.52%	16.75%	15.90%
Bedford, Hammonds Plains, Pockwock	3	N/A	3.87%	19.32%	14.84%	12.68%
Beechville-Timberlea, Herring Cove, Prospect, Peggy's Cove, St. Margarets Bay	4	N/A	3.27%	12.39%	11.74%	9.13%
Sackville, Beaverbank, Fall River, Waverley, Wellington, Dutch Settlement	5	N/A	6.34%	12.03%	14.01%	10.79%
Cole Harbour, Westphal, Cherry Brook, Eastern Passage, Cow Bay area	6	N/A	3.39%	5.98%	15.66%	8.34%
Porter's Lake, Lawrencectown, Chezzetcook, Lake Echo, Prestons area	7	N/A	3.96%	7.80%	17.87%	9.88%
Middle Musq., Elderbank, Musq, Harbour, Sheet Harbour, Eastern Shore	8	N/A	6.90%	16.40%	8.02%	10.44%
Condos	9	N/A	10.54%	13.20%	12.23%	11.99%
Total Compostable Averages			7.12%	13.41%	14.47%	11.67%

2023 - after shutdown of FEP/WSF						
Collection area	Feb'23 Audit	May'23 Audit	Aug'23 Audit	Nov'23 Audit	Average	
Halifax, Spyrifield	1	9.02%	11.23%	4.11%	9.67%	8.51%
Dartmouth	2	8.04%	10.10%	4.27%	14.58%	9.25%
Bedford, Hammonds Plains, Pockwock	3	17.45%	15.89%	5.08%	18.72%	14.29%
Beechville-Timberlea, Herring Cove, Prospect, Peggy's Cove, St. Margarets Bay	4	9.90%	26.53%	9.63%	10.79%	14.21%
Sackville, Beaverbank, Fall River, Waverley, Wellington, Dutch Settlement	5	13.06%	6.28%	4.33%	10.86%	8.63%
Cole Harbour, Westphal, Cherry Brook, Eastern Passage, Cow Bay area	6	12.66%	6.75%	4.40%	16.49%	10.08%
Porter's Lake, Lawrencectown, Chezzetcook, Lake Echo, Prestons area	7	5.95%	5.00%	6.26%	7.23%	6.1%
Middle Musq., Elderbank, Musq, Harbour, Sheet Harbour, Eastern Shore	8	10.87%	5.37%	12.47%	17.98%	11.67%
Condos	9	19.01%	39.25%	18.52%	19.49%	24.07%
Total Compostable Averages		11.77%	14.04%	7.67%	13.98%	11.87%

Collection area	2022		2023		Difference
	Average	Average	Average	Average	
Halifax, Spyrifield	1	15.87%	8.51%	-7.36%	
Dartmouth	2	15.90%	9.25%	-6.66%	
Bedford, Hammonds Plains, Pockwock	3	12.68%	14.29%	1.61%	
Beechville-Timberlea, Herring Cove, Prospect, Peggy's Cove, St. Margarets Bay	4	9.13%	14.21%	5.08%	
Sackville, Beaverbank, Fall River, Waverley, Wellington, Dutch Settlement	5	10.79%	8.63%	-2.16%	
Cole Harbour, Westphal, Cherry Brook, Eastern Passage, Cow Bay area	6	8.34%	10.08%	1.73%	
Porter's Lake, Lawrencectown, Chezzetcook, Lake Echo, Prestons area	7	9.88%	6.11%	-3.77%	
Middle Musq., Elderbank, Musq, Harbour, Sheet Harbour, Eastern Shore	8	10.44%	11.67%	1.23%	
Condos	9	11.99%	24.07%	12.08%	
Total Compostable Averages		11.67%	11.87%	0.20%	

HRM Correction

2022 - before shutdown of FEP/WSF						
Collection area	Feb'22 Audit	May'22 Audit	Aug'22 Audit	Nov'22 Audit	Average	
Halifax, Spyryfield	N/A	15.40%	13.09%	23.22%	17.24%	
Dartmouth	N/A	10.44%	20.52%	15.58%	15.51%	
Bedford, Hammonds Plains, Pockwock	N/A	3.87%	19.32%	14.84%	12.68%	
Beechville-Timberlea, Herring Cove, Prospect, Peggy's Cove, St. Margarets Bay	N/A	3.27%	12.39%	11.74%	9.13%	
Sackville, Beaverbank, Fall River, Waverley, Wellington, Dutch Settlement	N/A	6.34%	12.03%	14.01%	10.79%	
Cole Harbour, Westphal, Cherry Brook, Eastern Passage, Cow Bay area	N/A	3.39%	5.98%	15.66%	8.34%	
Porter's Lake, Lawrencetown, Chezzetcook, Lake Echo, Prestons area	N/A	3.96%	7.80%	17.87%	9.88%	
Middle Musq., Elderbank, Musq. Harbour, Sheet Harbour, Eastern Shore	N/A	6.90%	16.40%	8.02%	10.44%	
Condos	N/A	10.54%	13.20%	12.23%	11.99%	

2023 - after shutdown of FEP/WSF

Collection area	Feb'23 Audit	May'23 Audit	Aug'23 Audit	Nov'23 Audit	Average	
Halifax, Spyryfield	9.02%	11.23%	4.11%	9.67%	8.51%	
Dartmouth	8.04%	10.10%	4.27%	14.58%	9.25%	
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Beechville-Timberlea, Herring Cove, Prospect, Peggy's Cove, St. Margarets Bay	9.90%	26.53%	9.63%	10.79%	14.21%	
Sackville, Beaverbank, Fall River, Waverley, Wellington, Dutch Settlement	13.06%	6.28%	4.33%	10.86%	8.63%	
Cole Harbour, Westphal, Cherry Brook, Eastern Passage, Cow Bay area	12.66%	6.75%	4.40%	16.49%	10.08%	
Porter's Lake, Lawrencetown, Chezzetcook, Lake Echo, Prestons area	5.95%	5.00%	6.26%	7.23%	6.11%	
Middle Musq., Elderbank, Musq. Harbour, Sheet Harbour, Eastern Shore	10.87%	5.37%	12.47%	17.98%	11.67%	
Condos	19.01%	39.25%	18.52%	19.49%	24.07%	

Corrected to Weighted Averages		2022	2023	Difference
Collection area		Average	Average	Average
Halifax, Spyryfield	1	17.24%	8.51%	-8.73%
Dartmouth	2	15.51%	9.25%	-6.27%
Bedford, Hammonds Plains, Pockwock	3	12.68%	14.29%	1.61%
Beechville-Timberlea, Herring Cove, Prospect, Peggy's Cove, St. Margarets Bay	4	9.13%	14.21%	5.08%
Sackville, Beaverbank, Fall River, Waverley, Wellington, Dutch Settlement	5	10.79%	8.63%	-2.16%
Cole Harbour, Westphal, Cherry Brook, Eastern Passage, Cow Bay area	6	8.34%	10.08%	1.73%
Porter's Lake, Lawrencetown, Chezsetcook, Lake Echo, Prestons area	7	9.88%	6.11%	-3.77%
Middle Musq., Elderbank, Musq. Harbour, Sheet Harbour, Eastern Shore	8	10.44%	11.67%	1.23%
Condos	9	11.99%	24.07%	12.08%
Total Weighted Compostable Averages		12.48%	10.79%	-1.68%

Waste Collection Area	Three Year Waste Average (tonnes)	Area's Portion of Total Waste	Average Total Compost per Area	Estimated Annual Compostable Waste
1	9,918.30	20.27%	17.24%	1709.58
2	6,866.42	14.04%	15.51%	1065.21
3	4,358.45	8.91%	12.68%	552.51
4	5,304.70	10.84%	9.13%	484.50
5	8,372.02	17.11%	10.79%	903.62
6	5,130.17	10.49%	8.34%	428.03
7	2,962.13	6.05%	9.88%	292.56
8	3,383.67	6.92%	10.44%	353.26
Condos	2,627.33	5.37%	11.99%	315.02
Total	48,923.19			6,104.28
Weighted Compostable Average: 12.48%				

Waste Collection Area	Three Year Waste Average (tonnes)	Area's Portion of Total Waste	Average Total Compost per Area	Estimated Annual Compostable Waste
1	10,130.91	20.71%	8.51%	861.89
2	6,958.87	14.22%	9.25%	643.52
3	4,479.73	9.16%	14.29%	639.93
4	5,415.09	11.07%	14.21%	769.62
5	8,615.57	17.61%	8.63%	743.74
6	5,242.25	10.72%	10.08%	528.16
7	2,989.28	6.11%	6.11%	182.65
8	3,408.18	6.97%	11.67%	397.82
Condos	2,493.20	5.10%	24.07%	600.05
Total	49,733.08			5,367.37
Weighted Compostable Average: 10.79%				

% Compostable Waste Comparison			
Area and Description	2022/23 Baseline	2023/24 Year 2	Trend
1 - Halifax	15.15%	10.90%	↓
2 - Dartmouth	14.50%	11.23%	↓
3 - Bedford/Hammonds Plains	14.59%	14.33%	→
4 - Western County	9.30%	14.98%	↑
5 - Sackville/Beaver Bank/Fall River/Waverley	11.70%	9.04%	↓
6 - Cole Harbour/Eastern Passage/Cow Bay	9.42%	9.03%	↓
7 - Porters Lake/Preston/Lake Echo	8.90%	6.14%	↓
8 - Eastern Shore/Musquodoboit Valley*	10.55%	13.09%	↑
Condominiums (Condos)	13.75%	22.72%	↑
Total Weighted % Compostable	12.41%	11.64%	↓

Currently Not Meeting Interim Target (11.61%)
Meeting Year 1 Interim Target (11.61%)
Meeting Final Target (10%)

Fiscal Year-End Update for 2023-2024*

2023-2024 Budget	Expenditures	Surplus
Administration	Administrator \$13,800 Chair \$4,000 <u>Meetings \$940</u>	
\$22,000	\$18,740	\$3,260
Communications	Media Technician \$2,684 <u>Publications** \$8272</u>	
\$12,000	\$10,956	\$1,044
Comm. Consultant \$10,000	\$7,087.00	\$2,913
Legal \$5,000.00	∅	\$5,000
Envir. Consultant \$18,000	\$12,413	\$5,587
Liaison Assist. \$9,000	\$8,836	\$164
Held in Reserve \$3,000	∅	\$3,000
Overall Budget \$79,000	Expenditures \$58,032.00	Surplus \$20,968

**This update covers the period, April 1, 2023-March31, 2024; the figures are unaudited and include the full amount of HST.*

*** Includes newsletters published in the Masthead News and two booklets posted for public download.*