

RRFB HHW SUMMIT  
JANUARY 2016

**Battery Recycling**  
**Municipality of Colchester**  
**Darlyne Proctor – January 2016**

# Municipality of Colchester



Program started through public taking action.



# Municipality of Colchester



Collection began at  
MacQuarries Drug Store in  
Brookfield, Nova Scotia.

Community residents  
demand.

Pettis Plumbing Radio Ad

Started Year of 2011  
19 Drop Offs





## 26 Public Drop Off Sites – Percent by Weight

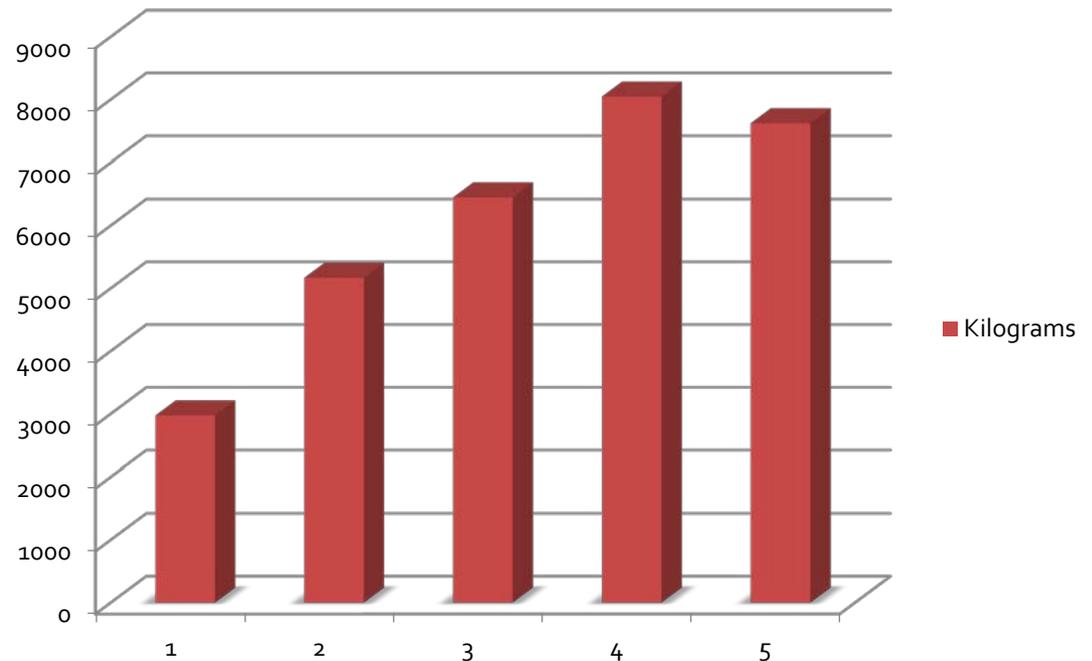
- 10 Drop Off make up 92%
  - Subway Enviro Depot 34%
  - Colchester Workshop 11%
  - 4 Drug Stores 30%
  - Retail Stores/Markets 17%
- 16 drop offs make up 8%

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- 2011 – 2.9 MT
- 2012 – 5.2 MT
- 2013 – 6.4 MT
- 2014 – 8.0 MT
- 2015 – 7.6 MT

Kilograms of Batteries/Year



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Collected – Half Tonne Truck –  
Waste Management Officer

Weigh and record

Some Biweekly – Monthly

Some call and make appointments

MRF Sorting Station



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Primary Person Responsible for proper sorting and labeling.



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**Battery Type:** Small Sealed Lead Acid (SSLA)

**Commonly Found In:** Mobility scooters, Fire emergency devices, Emergency exit signs, UPS back-up batteries

**Pros:** Moderate energy density

**Cons:** High discharge rate, Toxic

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**Battery Type:** Lithium Ion (Li-Ion)

**Commonly Found In:** Cellphones, Cordless power tools, Cordless phones, Digital cameras, Laptop computers, Tablets and e-readers, Two-way radios

**Pros:** High energy density, Moderate discharge rate, Performs well in high drain devices, Excellent performance, Lighter weight

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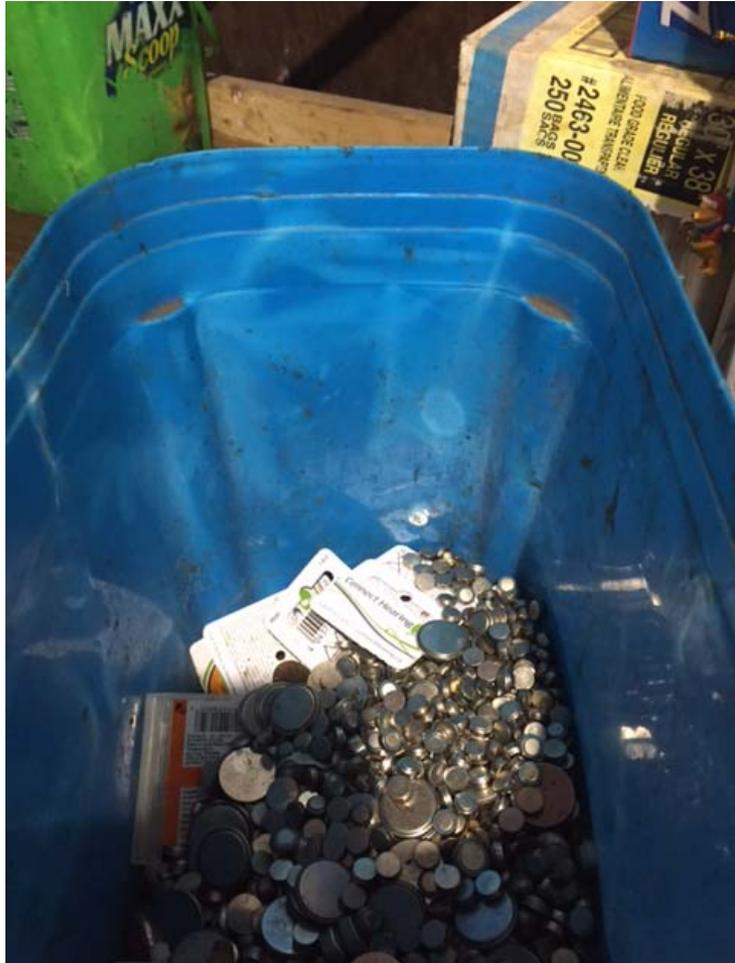
**Battery Type:** Lithium Primary

**Commonly Found In:** Car keyless entry remotes, Watches, Pacemakers, Fire alarm devices

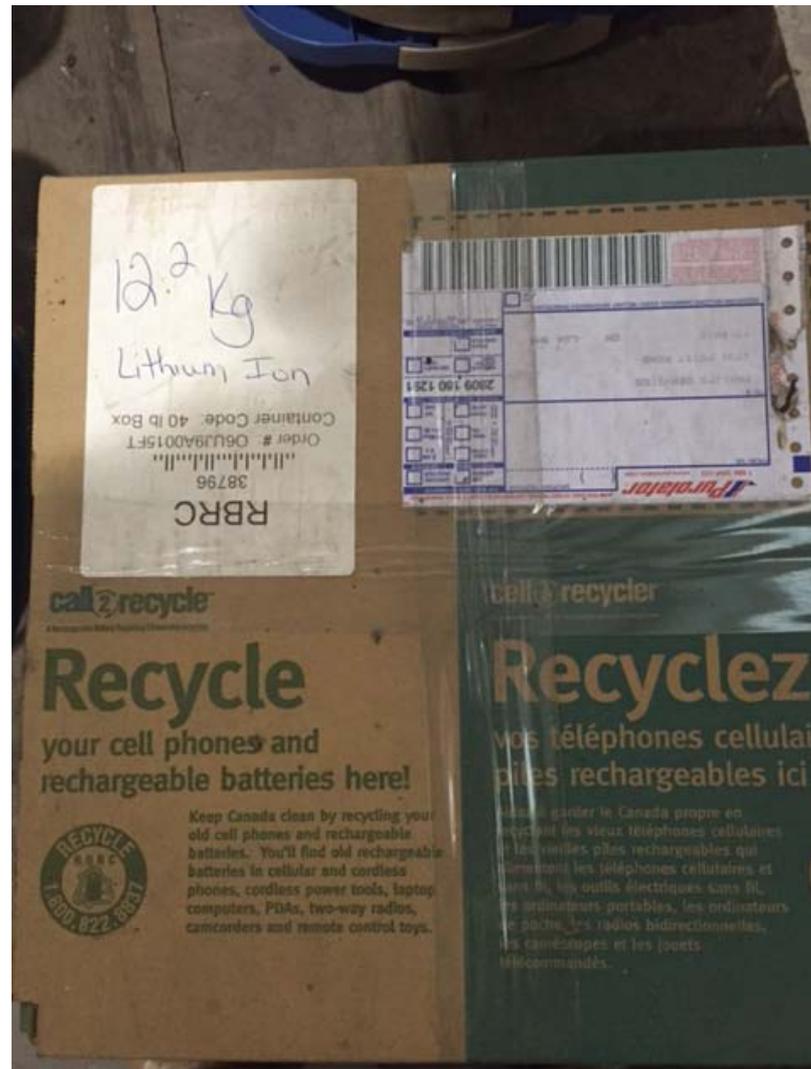
**Pros:** High energy density, Long shelf life

**Cons:** Can't be recharged

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**Battery Type:** Nickel Metal Hydride (Ni-MH)

**Commonly Found In:** Cellphones, Cordless power tools, Digital cameras, Two-way radios

**Pros:** Cadmium-free, Good performance, Can be recharged up to 1,000 times, Performs well in high drain devices

**Where to Recycle:** Please visit our [drop-off locator](#)

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**Battery Type:** Nickel Cadmium (Ni-Cd)

**Commonly Found In:** Cordless power tools, Cordless phones, Digital cameras and video cameras, Two-way radios

**Pros:** Good performance, Least expensive of rechargeable batteries, Can be recharged up to 1,000 times

**Cons:** Moderate energy density, Rapid discharge, Toxic

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**Battery Type:** Alkaline

**Commonly Found In:** Alarm Clocks, Calculators, Flashlights, TV remote controls, Remote control toys

**Pros:** Higher energy density, Moderate discharge rate, Inexpensive

**Cons:** Most of them are non-rechargeable

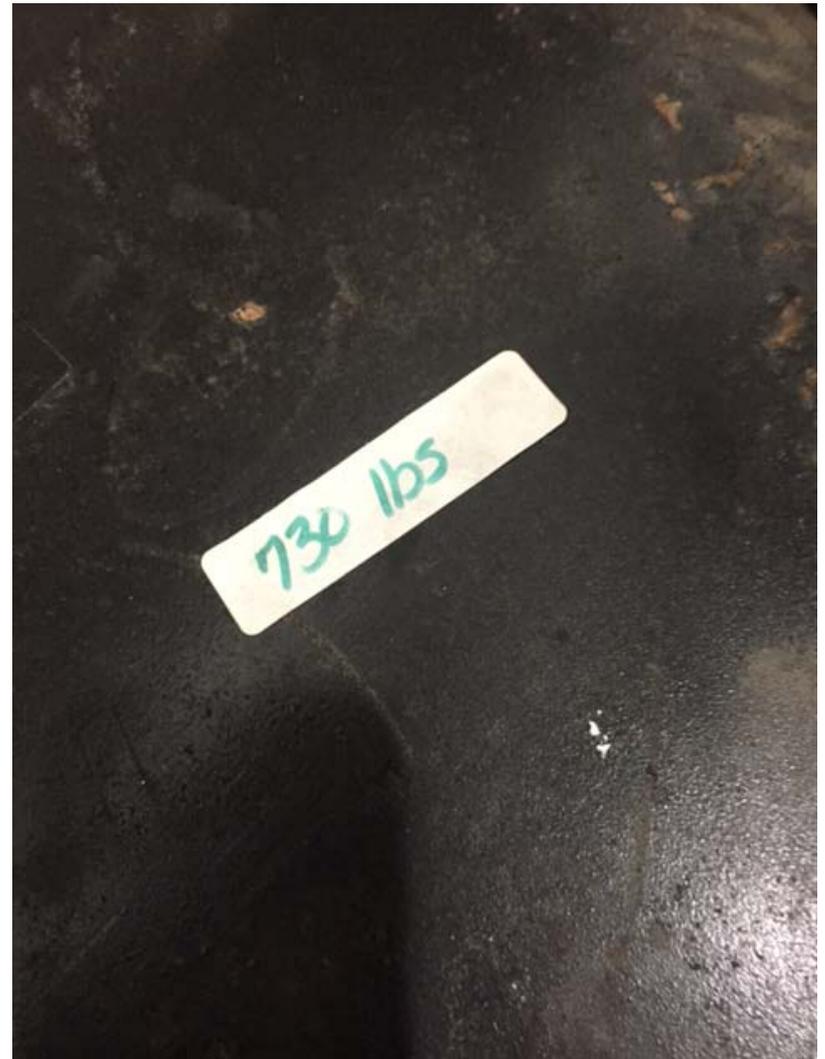
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Poly and Reconditioned Steel Drums are Purchased.



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## **Bulk Shipment To Date in 2015 Was Newalta – Now TerraPure**

<b>Mixed Quantity (kg)</b>	<b>7,203</b>
<b>Lithium (kg)</b>	<b>110</b>
<b>Small Sealed Lead Acid</b>	<b>150</b>

## Municipality of Colchester



- Average Monthly Weights – Year 2015
- Average 635 kg/month
- Low 404 kg's August
- High 904 kg's July
- Total 7,622 kgs – 7.6 Metric Tonnes

Municipality of  
Colchester



*Thank  
You*

