

**REPORT TO ELECTORAL AREAS COMMITTEE
MEETING OF WEDNESDAY, SEPTEMBER 13, 2023**

SUBJECT **Household Hazardous Waste Pickup in Electoral Areas**

ISSUE SUMMARY

At the June 14, 2023 Capital Regional District (CRD) Board meeting, staff were asked to investigate the cost and feasibility of Hartland funding a one-time household hazardous waste (HHW) pickup on the four islands in the Southern Gulf Islands, Juan de Fuca and also on Salt Spring Island.

BACKGROUND

In 2004, the CRD launched a HHW collection program at the Hartland Depot to support residents of the region with safe end-of-life management of their unwanted and expired HHW products. This no-charge program includes both products covered under Extended Producer Responsibility (EPR) through the *BC Recycling Regulation*, such as paint and motor oil, as well as non-EPR products (orphans) like propane tanks and pool chemicals.

Subsequently, the HHW collection area at the Hartland Depot was retrofitted in 2009 to support this growing service, with a focus on safety for the public, staff and contractors and improvements for receipt, sorting, storage and subsequent transport of material. The ability to receive and manage orphan materials at the Hartland Depot is a unique service our region provides to residents and is heavily reliant on the infrastructure investment, staffing and contractor services to support this operation. The cost for delivery of this service is approximately \$800,000 per year (2023 numbers) net of revenue from the services agreements for products covered under EPR. A complete list of HHW items currently accepted at the Hartland Depot is included as Appendix A.

In addition to the Hartland Depot program, and in support of a proactive strategy to remove additional residual HHW products from the waste stream, the CRD had also facilitated and funded collection of HHW from municipal yards, non-profit reuse organizations and gulf island recycling depots. Between 2006 and 2015, the CRD provided 26 mobile round-up events in Electoral Area communities. These ancillary collection programs were discontinued in 2016. This decision was made due to a number of factors, including: concerns around safety at these collection sites; decreasing volumes collected; a decision to focus resources towards the collection infrastructure available for residents region-wide at the Hartland Depot; and expansion of provincial EPR programs providing collection for many HHW products in Electoral Area communities, making the mobile round-up events somewhat redundant.

Education materials were developed and distributed in 2016 to communities impacted by the discontinuation of the biennial mobile HHW round-up events on the Gulf Islands. Residents were encouraged to take a “pack-in, pack-out” approach to managing their unwanted HHW products, as most of these items would have been purchased from off-island locations. This communication also included information about allowances and restrictions for both regular and dangerous goods sailings on the BC Ferries.

The range of products included in provincial EPR programs, and the associated collection of these materials within Electoral Areas, has expanded over the years, as well as the number of collection points throughout the province and in our region. A list of locations within Electoral Area

communities that accept this material on an ongoing basis can be found in Appendix B. Through expansion of the *BC Recycling Regulation*, it is expected that by 2025, collection programs will be operational in the province for orphan items such as compressed canisters (fuel, adhesives, bear spray) propane tanks, fire extinguishers and more aerosols, battery types and electronic accessories, providing additional return opportunities for consumers.

Reinstatement of mobile HHW collection service within the Electoral Area communities would involve the following key items:

- securing locations and dates for events
- hiring a contractor to manage the events including all aspects of collection, packaging, transportation and processing as well as site safety
- advertising and promotion

Preliminary estimates provided by a qualified third party to conduct mobile collection events in these communities range from \$20,000 to \$50,000 per community, depending on volume and type of products received, as well travel logistics and subsequent transport of material to sorting and processing facilities. The Environmental Resource Management (ERM) budget for the HHW service is limited to the Hartland Depot operation and community education; costs for mobile collection events are not currently included in the ERM budget. The total cost to provide one-time HHW events in the six Electoral Area communities is estimated to be \$200,000.

CONCLUSION

The acceptance of both provincially-regulated (Extended Producer Responsibility) and non-regulated household hazardous waste at the Hartland Depot offers residents a one-stop drop for their unwanted products, and provides for safe and efficient collection, consolidation and packaging for transportation to processing. Cost for delivery of the service is approximately \$800,000 per year. Off-site Capital Regional District collection programs were conducted between 2006 and 2015, but discontinued due to concerns around site safety, reducing volumes and a renewed focus on the centralized collection infrastructure at the Hartland Depot. Through expansion of the *BC Recycling Regulation*, it is expected that by 2025, collection programs will be operational for items such as compressed canisters (fuel, adhesives, bear spray) propane tanks, fire extinguishers and more aerosols, battery types and electronic accessories.

RECOMMENDATION

There is no recommendation. This report is for information only.

| | |
|---------------|--|
| Submitted by: | Russ Smith, Senior Manager, Environmental Resource Management |
| Concurrence: | Larisa Hutcheson, P. Eng., General Manager, Parks & Environmental Services |
| Concurrence: | Ted Robbins, B. Sc., C. Tech., Chief Administrative Officer |

ATTACHMENTS

Appendix A: Hartland Depot – Accepted Household Hazardous Waste Products

Appendix B: Household Hazardous Waste Collection Locations within Electoral Areas

Appendix C: BC Ferries – Dangerous Goods Information

What is Household Hazardous Waste?

Household hazardous waste (HHW) is any waste from your home that you consider to be dangerous or unsure of. It includes any leftover household products that are marked flammable, corrosive, explosive or poisonous. Common examples include pesticides, varnishes, paints, cleaners, and batteries.

Items accepted at the Hartland HHW facility:

Automotive Products

Air conditioning refrigerants
Antifreeze
Autobody filler
Automobile batteries – lead acid
Brake fluid
Carburetor cleaner
Car wax with solvent
Diesel fuel
Chrome polish
Engine degreaser
Fuel additives
Gasoline (in ULC approved container)
Grease
Hardeners (MEKP)
Oil filters
Starter fluids
Transmission fluid
Used motor oil and containers
Windshield washer fluid

Batteries

General household batteries
Lead acid batteries
Lithium-ion Batteries
Small Ni-Cad batteries (re-chargeable)
E-mobility batteries

Glues & Cements

Liquid glues only
(dispose of hardened glue as regular garbage)

Hobby Supplies

Chemistry sets
Kerosene
Photography chemicals

Household Products

Abrasive cleaners
Aerosol products
All-purpose cleaners
Ammonia
Disinfectants
Bleach
Drain cleaner
Floor wax strippers
Furniture polish and waxes
Linseed oil
Metal cleaners
Oven cleaners
Rust remover
Shoe polish (liquid)
Spot and stain remover
Toilet bowl cleaner
Upholstery and rug cleaners
Lighter fluid
Muriatic acid
Tub and tile cleaners
Window cleaners

Tanks & Containers

Butane tanks
Gas tanks
Helium tanks
Kerosene containers
Pesticide containers
Propane tanks
Fire extinguishers

Gardening and Pest Control

All fungicides
All herbicides
All insecticides
Chemical fertilizers
Flea/tick pet products
P.C.P Act
Rat poison
Slug bait
Wood preservatives

Mercury Items

Compact fluorescent light bulbs (CFLs)
Fluorescent tubes/ballasts
Metal halide lamps
Thermometers
Thermostats
Ultraviolet lamps
Pure Mercury

Miscellaneous

Barbecue starters
Smoke detectors
Swimming pool and spa/hot tub chemicals
Cell phones
Electronics with re-chargeable batteries
Home heating oil

Paints & Solvents

Acetone
Empty containers
Latex paint
Lead based paint
Marine paint
Oil-based paint
Paint thinner and strippers
Plastic
Spray paint
Varnish or lacquer
Other solvents

Personal Care Products

Antibacterial soap
Foot powder
Hair dye
Hairspray
Hydrogen peroxide
Jewelry cleaner
Nail polish and remover
Perm lotion or solution
Rubbing alcohol

Items NOT accepted at the Hartland HHW facility:

Ammunition

Call your local police/
fire department
for information.

Flares

Visit myrecyclopedia.ca and
search flares for events and
facilities that accept flares.

Pharmaceuticals

Return all unused medication to
pharmacies participating in the
return program, free of charge.



Flammable



Corrosive



Explosive



Poison

For more information on
Household Hazardous Waste
please visit our website at
www.crd.bc.ca/hhw or call the
CRD Infoline at 250.360.3030.

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**HOUSEHOLD HAZARDOUS WASTE COLLECTION
LOCATIONS WITHIN ELECTORAL AREAS**

| Electoral Area | Household Hazardous Waste – Extended Producer Responsibility Materials | Household Hazardous Waste – Non-Extended Producer Responsibility |
|--------------------------------|---|---|
| SOUTHERN GULF ISLANDS | | |
| Galiano Island | | |
| Galiano Island Recycling Depot | <ul style="list-style-type: none"> • Paint • Light bulbs/tubes • Smoke and CO Alarms • Single-use batteries • Rechargeable batteries • Oils/filters/containers (2024) | |
| Mayne Island | | |
| Mayne Island Recycling Depot | <ul style="list-style-type: none"> • Paint • Light bulbs/tubes • Smoke and CO Alarms • Electronics • Single-use batteries • Rechargeable batteries • Empty oil/antifreeze jugs | <ul style="list-style-type: none"> • Inkjet/toner cartridges |
| Pender Island | | |
| Pender Island Recycling Depot | <ul style="list-style-type: none"> • Paint • Light bulbs/tubes • Smoke and CO Alarms • Single-use batteries • Rechargeable batteries • Oils/filters/containers • Antifreeze • Automotive batteries • Thermostats | |
| Pender Island Firehall | | <ul style="list-style-type: none"> • Propane cylinders/tanks |
| Saturna Island | | |
| Saturna Island Recycling Depot | <ul style="list-style-type: none"> • Paint • Electronics • Household batteries • Lightbulbs/tubes • Motor oil/antifreeze | <ul style="list-style-type: none"> • Inkjet/toner cartridges |
| Darryl's and James's Digs | <ul style="list-style-type: none"> • Automotive batteries • Antifreeze • Smoke and CO Alarms • Thermostats | <ul style="list-style-type: none"> • Propane cylinders/tanks |

| Electoral Area | Household Hazardous Waste – Extended Producer Responsibility Materials | Household Hazardous Waste – Non-Extended Producer Responsibility |
|--|--|---|
| SALT SPRING ISLAND | | |
| Salt Spring Island Recycling Depot | <ul style="list-style-type: none"> • Paint • Pesticides, solvents, gasoline • Light bulbs/tubes • Smoke and CO Alarms • Electronics • Single-use batteries • Rechargeable batteries • eMobility batteries • Automotive batteries • Thermostats | <ul style="list-style-type: none"> • Inkjet/toner cartridges |
| Pharmasave/Lower Ganges | <ul style="list-style-type: none"> • Single-use batteries • Rechargeable batteries | |
| Harbour Authority Salt Sprint Island | <ul style="list-style-type: none"> • Oils/filters/containers | |
| Salt Spring Garbage & Recycling | | <ul style="list-style-type: none"> • Propane cylinders/tanks |
| JUAN DE FUCA | | |
| Port Renfrew Garbage & Recycling Depot | <ul style="list-style-type: none"> • Paint • Paint plus • Electronics • Light bulbs/tubes • Motor oil • Cooking oil | <ul style="list-style-type: none"> • Propane tanks and canisters • Fire extinguishers |

**Travel advisory:**

All Routes Status

[Home](#) / [Travel and boarding](#) / [Dangerous goods](#)

Common dangerous goods

Carefully review the list below. If you plan to travel with dangerous goods, or you're shipping a trailer with dangerous cargo, you need to complete a dangerous goods shipping document ahead of travel. Print your completed document and present it to the ticket agent when you arrive at the terminal.



Diesel, gasoline and propane do not require dangerous goods documentation if within the limits described in the list below.

[Complete dangerous goods shipping document](#)

PDF 77 KB | 2 pages

If your particular product is not listed or you have any questions about travelling with dangerous good, you can email us at dg.bcf@bcferries.com, call 250-978-1152, or fax 250-386-1652.

Aerosols no larger than 1 litre are allowed.

Automotive antifreeze is not considered dangerous and can be carried in any amount.

Auxiliary fuel tanks that form an integral part of the vehicle, connected by a fuel line to the engine fuel system, and firmly secured and protected from external damage, are permitted. Auxiliary fuel tanks are not to be confused with spare gas tanks (see Gasoline).

Adhesive products containing flammable liquid, such as contact cement, have special

requirements. Check with the terminal staff for information on acceptable quantities.

Air bottles, scuba tanks and enriched air

- *Oxygen* for personal use is allowed in cylinders up to 5 litre water capacity. No transferring between containers is permitted.
- *Scuba tanks* (compressed air) for personal use is unlimited and must be declared
 - All full or partially-full tanks require a dangerous goods shipping document
 - All full or partially-full tanks are to be transported in closed, locked vehicles, or in open vehicles, provided the tanks are out of sight
- *Enriched air* must be declared and fully documented
 - The number of enriched air tanks may not exceed 8 per consignment (tank size not to exceed 20 kg). Enriched air tanks follow the same conditions of transportation as Scuba tanks for safe stowage in vehicles.
- Empty tanks not containing air are not considered dangerous goods under the *Transport of Dangerous Goods Regulations*, as long as the valves are open and not under pressure
- Foot passengers may take these tanks on board, provided the tanks are taken immediately to the main vehicle deck for stowage during the voyage. The vessel's officer will identify to foot passengers a safe stowage area on the vessel.
- These tanks are not considered baggage and our employees are not permitted to handle them or to transport them in our baggage vans

Ammunition for small arms, rifles and shotguns are permitted on our ferries in small quantities, provided they are securely packaged and carried separately from the firearm.

Batteries for automobiles are permitted. New vehicle batteries and up to 3 used batteries can be transported.

Boat/RV gas can be carried in spare tanks. See gasoline for the amounts of gas which can be carried in spare tanks.

Coleman's fuel, naphtha and white gas products used to fill camp stoves and lanterns are permitted in 5 litre metal containers in vehicles, but foot passengers are prohibited from carrying them.

Cleansers like bleach and other household cleansers may be carried on our ferries in a carton designed to keep them upright and secure to avoid spillage and harmful fumes.

Diesel fuel in tidy tanks of 450 litres or less is permitted. No dangerous goods documentation required if you travel with amounts of diesel fuel within this limit.

Firearms may be transported under strict conditions.

- Firearms must be transported in compliance with Canadian Firearms Regulations. Firearms transported in vehicles must be:
 - Unloaded
 - Not visible from outside the vehicle
 - Locked inside vehicle when unattended
- Foot passengers are not permitted to transport firearms, except on sailings between Port Hardy (Bear Cove) and Prince Rupert, and between Prince Rupert and Graham Island (Skidegate) on Haida Gwaii. On these routes, foot passengers with firearms must:
 - Declare firearms to the ship's officer once on board
 - Be responsible for securing the firearms in a locker designated by the ship's officer
- Airsoft guns, pellet guns, crossbows, bow and arrows, axes and similar items of concern are subject to restrictions, including:
 - Foot passengers are not permitted to transport any items of concern with them; if they have any, these must be stored in checked luggage
- Items of concern transported in vehicles must be:
 - Not visible from outside the vehicle
 - Locked inside the vehicle when unattended
- On-duty police officers, armoured car personnel, or peace officers authorized to carry restricted firearms in the performance of their duties are permitted by law to possess and transport firearms

Fire extinguishers can be carried on BC Ferries as long as they are firmly packaged or secured to prevent them from moving.

Fireworks are prohibited on BC Ferries. Some pyrotechnics are permitted if they are used as safety equipment for a vehicle or are equipment being transported. These pyrotechnics will normally fall under the category of Class 1 - 1.4S.

Foot passenger carry-on commodities are allowed on the car deck, as long as the deck officer gives their authority, and a suitable storage area is available on the car deck.

- Passengers may carry outboard motors, chain saws, etc. onto the car deck only. This type of equipment is not permitted in passenger areas.
- A foot passenger may carry no more than 1 cylinder of propane, not exceeding 15 kg (30 litres). The cylinder must be carried on board by the customer and must be stowed on the car deck in a location designated by the ship's officer.

Fuel oils in tank truck quantities can be transported as long as the flash point of products is not less than 37.8°C for the following fuels:

- UN 1202
- UN 1223
- UN 1267
- UN 1268
- UN 1300
- UN 1863

Gasoline in approved containers is permitted on BC Ferries in limited amounts, not exceeding 25 litres. However, foot passengers are not allowed to carry gasoline on board the ferry.

- The following may carry 1 spare container of gasoline:
 - RVs and vehicles
 - Vehicle carrying a boat on top
 - Vehicle carrying or towing jet skis or quads
- The following may carry 2 spare containers of gasoline:
 - Boat towed behind a vehicle

Note: No dangerous goods documentation required if you travel with amounts of gasoline within the limits above.

Gases, including most compressed gases and some liquefied gases, are acceptable. To prevent damage, cylinders must be properly secured within the vehicle.

Hay bales may be carried, but must be secured within a closed vehicle or the load must be completely tarped to prevent random ignition. A dangerous goods shipping document is required and is transported under UN 1327, and in addition Class 4.1 placarding must be displayed when transporting over 500kgs (1100lbs).

Helium can be transported aboard BC Ferries. All full or partially full tanks require a dangerous goods shipping document, and must be transported in closed, locked vehicles; or in open vehicles, provided the tanks are out of sight.

Kirpans are permitted for all of our passengers who are practicing members of the Sikh religion. All passengers travelling with Kirpans must do the following while aboard our ferries:

- Keep the Kirpan sheathed
- Keep the Kirpan worn underneath clothing
- Keep the Kirpan not visible to other passengers

Marine pollutants are hazardous to aquatic life and humans; therefore, all marine pollutants must be identified on a dangerous goods shipping document.

Methanol in the fuel tank of a race car is permitted up to a maximum of 25 litres. A maximum of 2 additional containers are permitted, but must be completely secured and labelled.

Oxygen for personal medical use is permitted, but cylinders may not exceed 5 litre water capacity.

- Cylinders that are not in a portable unit must be secured within the transport vehicle
- The transfer of liquid oxygen from the liberator or bulk container to the stroller or portable container on board the vessel is prohibited
- Please notify terminal staff if you are carrying personal medical oxygen

Paint and related paint products, including lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base, paint thinners or reducing compounds are allowed for personal use, and if purchased at a public retail outlet.

- If you're transporting commercial quantities, check with the terminal of departure for details of flash point limits for flammable products
- Latex or water-based paint is not subject to regulations

Propane valves must be closed and sealed with the tags issued at the ticket booth, and the cylinders must be upright and firmly secured to prevent tipping.

- Commercial vehicles are prohibited from carrying propane tanks
- RVs are permitted:
 - 2 x 25 kg cylinders (50 litre water capacity each) connected to a regulator and secured in or on the vehicle
 - 1 x 15 kg (30 litre water capacity) for a barbecue
- Passenger vehicles are permitted:
 - 1 x 15 kg (30 litre water capacity)

- *Important propane safety alert:*
 - The brass valve in a propane cylinder will be damaged if it comes in contact with anhydrous ammonia. This deterioration will lead to cracking of the valve body or its components and can ultimately result in a violent, unexpected expulsion of the valve from the cylinder, causing personal injury or death.

Note: No dangerous goods documentation required if you travel with amounts of propane within the limits above.

Service vehicles, including welding, refrigeration and plumbing vehicles, or any vehicle having a service repair function, may be classed as a service vehicle. Service vehicles travelling in marine mode are required to present a shipping document for dangerous goods. Call the terminal of departure for details on limits.

Wheelchairs (motorized) have no restrictions when they are in use, but there are some precautions when they are carried as cargo or freight:

- The battery must be securely in place, disconnected, with the terminals insulated to prevent short-circuiting
- The chair itself must be securely anchored so that it will not move