



# OVERVIEW

- > Purpose of Service Review
- Existing Service
- Benefits of the Service
- Challenges to Address
- ► Recommendations to Consider

✓ 2021 fiscal year

✓ beyond 2021







#### **EXISTING SERVICE**

- Cart-based service
- Public health, environmental and community goals
- Bylaw No. 7128 sets out service level and requirements
- In-house service delivery





#### **EXISTING SERVICE**

- CNG vehicles + back-ups
- Split-load vehicles, 60-40
- Mid-Island Co-op for fuel





# **EXISTING SERVICE**

- CNG vehicles + back-ups
- > Split-load vehicles, 60-40
- Mid-Island Co-op for fuel
- Consistent growth in households

35,000					
30,000	27,445				29,200
25,000					
20,000					
15,000					
10,000					
5,000					
	2016	2017	2018	2019	2020



#### **EXISTING SERVICE**

- Service Revenues
  - ✓ user fees
  - ✓ Recycle BC contract





# EXISTING SERVICE Service Revenues user fees Recycle BC contract

- Service Expenses
  - ✓ tipping fees
  - labour
  - ✓ fleet charges
  - ✓ debt servicing







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# BENEFITS

- > Worker safety
- Service scope
- ► GHG emissions
- Data collection





# **BENEFITS**

- Worker safety
- Service scope
- ► GHG emissions
- Data collection
- Convenience
- Cleanliness





# **BENEFITS**

- Worker safety
- Service scope
- ► GHG emissions
- Data collection
- Convenience
- Cleanliness
- Efficiency







- Collection drivers
  - ✓ considerable pride in work; esprit de corps





- Collection carts
  - administrative assistance needed





- Resident education
  - ✓ cart hold-backs





- Resident education
  - ✓ cart placement





- Resident education
  - ✓ cardboard volumes
  - ✓ contamination





- Resident education
  - ✓ cardboard volumes
  - ✓ contamination
  - demand management







Route Optimization

- ✓ maximize capacity given fleet, labour, shift constraints, volumes of material, household numbers, participation, driving distances
- minimize need for additional vehicles, labour, overtime, tipping

Question every item before you place it in you can either be downed for more, mcycled, con	e Black Cart. NPH of Dens
	sported or talen to e depot
58% of your waste was diverted from the landfill. us get closer to 250 waste. 2020 GOAL: 70%!	70%



- Route Optimization
  - City has collected and analyzed two years' of data
  - proposed route configuration and number make sense





- THAT Council endorse the ten-zone route optimization proposal developed by staff for implementation in January, 2021
- THAT Council direct staff to advance the hiring of an additional Refuse Collector/Operator (1.0 FTE) from July, 2022, to January, 2021



- Cart Management
  - all municipalities have realized the need for ongoing cart management





 THAT Council direct staff to create an administrative position (0.5 FTE) to manage the collection cart inventory.



- Driver Training
  - some training done already; some ongoing
  - ✓ further targeted training would be helpful to address range of needs





- THAT the City develop and provide targeted training to Refuse Collector/Operators on a variety of topics, including:
  - ✓ the proper use of the collection vehicles' on-board computers to bolster the City's data collection efforts
  - the proper operation of the vehicles to reduce wear-andtear, and to better manage vehicle repair and maintenance costs
  - the inspection of vehicles at the end of each shift to identify issues for mechanics to address prior to the start of the next shift



#### RECOMMENDATIONS

 THAT Council direct staff to add one non-collection day to the collection schedule each year to allow for Refuse Collector/Operator training.



- Data Collection
  - ✓ good data collection is critical to system efficiency





# RECOMMENDATIONS

 THAT Council direct staff to purchase and install an onboard computer for Truck 317.



- Resident education
  - ✓ residents have a big role to play in making the system work, and making the service efficient





- THAT the City develop and provide targeted education and information resources to guide residents in:
  - ✓ determining when to hold-back carts until the following collection day
  - ✓ placing carts for pick-up
  - ✓ preparing cardboard for collection
  - ✓ reducing contamination for collection
  - ✓ reducing the amount of household waste generated



# **BEYOND 2021**

- THAT the City examine the potential to diversify its collection fleet by including single-load vehicles in future years, either in addition to or in place of end-of-life spit-load vehicles, for the collection of high-volume streams such as recycling.
- THAT the City use a seven-year amortization period in its capital planning for new collection vehicles.
- THAT the City incorporate into its future re-design of the Public Works Yard a fleets facility that can accommodate the City's CNG collection vehicles.



#### **BEYOND 2021**

- THAT the City incorporate into its future re-design of the Public Works Yard a slow-fill CNG fueling facility with sufficient capacity to fuel the City's entire CNG collection fleet.
- THAT the City explore the potential to alter shift times for vehicle mechanics to enable collection vehicles to be consistently maintained and repaired outside of collection times.

