



Memorandum

To: Peter Thomas, CAO
From: Dolan Isaac, Public Works Foreman
Date: April 11, 2024
Re: Information regarding replacing the Dodge 3500 with dump box, and Snow-Ex Sander at Public Works

History: During the December 2023 Strategic Planning Meeting, it was suggested to buy a new 5500 (or equivalent) cab and chassis with a dump box in addition a new street sander. This purchase would replace Public Work's existing 2010 Dodge 3500 with dump box and the existing Snow-ex sander.

Presently the **2010 Dodge 3500 with dump box** is being used year-round with **32,380km** on it at present.

The uses of this unit are:

- Hauling clay, gravel, and soil, to and from dig sites and any other landscaping projects within the Village limits only.
- The unit set up at present allows a safe load and dump of 3 tonne of dry/semi dry material. Wet or saturated material requires smaller loads.
- The unit is operated within a 10 km radius of the Village as a maximum average daily distance.
- It is used during parade events for a Village float; thus, it gets a through wash and touch-up paint on the box yearly.
- It is used for eight days a year for hauling trash during curb side clean up while the spring and fall Village clean ups are active.
- Primarily during the winter season, used to carry the Snow-ex sander, for sanding the Village streets as needed.
- Haul water/sewer/drainage/building materials, 20' pipe and culverts of varying diameter.
- Hauling equipment, such as zero turns and such.

Cons:

- The unit is 14 years old
- Engine is a 5.7 hemi gas engine
- Only a 2x4
- No hitch

Pros:

- Transmission replaced in 2022
- Adequate for doing all the jobs required, we only have need for small spot loads of gravel anymore. Thus handles all loads timely and efficiently
- Body and frame in great condition
- Low kms

Cost to replace and with a 5500 cab and chassis plus dump box to fit:

- 2024 cab and chassis **\$89,000 plus**
 - Dump box **\$20,000 approximate** dependent on size and make of cab and chassis
- TOTAL \$110,000**

The **2009 Snow-ex 8500 Sander** is used only during the winter months for sanding as needed through out the Village. It is mounted in the back of the Dodge 3500 box in the late fall and stays on the truck until risk of icy roads has gone in the spring. The unit holds 1.5 yds of pickle sand, which allows Public Works to sand all intersections and high traffic roads with asphalt when and as needed. The auger was replaced 2 years ago, along with all wear components as needed during it's ownership.

Cons:

- the auger drive can be finicky is lumps in the material.
- Only one vibrator on the hopper, could use one front and back instead just at the rear.
- Controller box heats up after extended run time
- Could use a bigger hopper for loading as its size is easily overloaded by large loader bucket
- Product does not flow well at front of unit, mainly due to lack of vibration in the area, does need to shovel forward once or twice during a full load
- Dealership of parts have thinned since purchase

Pros:

- Poly hopper does not rust and handles abrasive and corrosive nature of the spread product
- Very few moving parts to maintain or repair
- Have been able to fabricate some of our own parts for the unit
- We do carry wear parts in stock at present
- Hopper big enough to do what needs to be done normally in a day.

Cost to replace:

- Like size or bigger (max 3cu yd) **\$12,000 to \$20,000** as per advertised pricing of different makes and models

Total cost for all above is estimated at \$130,000

Recommended actions:

- Do not replace the Dodge 3500/ dump box and sander in 2024/2025 as the Public Works Department can maintain our level of service in a manageable time with no upgrades or upsizing needed to these units at present.
- Do advertise for tender the purchase of a self-propelled Vacuum Street Sweeper in 2025 (average advertised cost \$80,000 budget quotes required)
- Invest in present equipment (grader, backhoe, etc.) that is too costly to replace at present and with high wait times due to shortages.