



The Corporation of the Township of King Report to Council

From: Public Works – Transportation, Utilities and Fleet Services
Report Number: PW-TRP-2024-002
Date: Tuesday, October 15, 2024
Title: **Winter Maintenance Level of Service 2024/2025**

Recommendation

1. That Council receive Report PW-TRP-2024-002;
2. That Council endorse an interim solution to store winter materials off-site to support the implementation of the Township's new winter maintenance level of service; and
3. That Council approve an addition of \$18,000 to the 2025 Budget in advance of budget approval.

1. Report Highlights

- A new level of service will be provided for winter maintenance roadway treatment which includes the exclusive use of Thawrox treated salt in King Township's urban areas.
- Temporary storage of winter maintenance materials at Trisan Construction's works yard in Schomberg, until the new Township Joint Operations Centre is constructed and commissioned.

2. Purpose

The purpose of this report is to provide Council with a final recommendation based on the available options for a temporary winter material storage facility, to support the implementation of the new winter maintenance level of service for the 2024/2025 season and beyond.

3. Background

On May 27th, 2024, Council endorsed the Winter Maintenance 2023-2024 report ([PW-TRP-2024-001](#)) to modernize and implement sustainable practices for winter maintenance. The Township's winter maintenance level of service will now include the treatment of our roadways with winter material as follows:

- Gravel roads – 97% sand, 3% Thawrox treated salt
- Paved rural roads – 60% sand, 40% Thawrox treated salt
- Paved urban roads – 100% Thawrox treated salt

4. Analysis

The introduction and storage of the additional 100% Thawrox treated salt exceeds the existing operating limits of King’s Public Works Yard. If stored at the Public Works yard, the Township would be subjected the following risks:

- Cross-contamination of materials, reducing effectiveness;
- Space constraints to organize and access materials efficiently;
- Increased costs to refill the facility more frequently;
- Increased risk for structural stress and overloading of the facility;
- Safety hazards for staff working within a confined and restricted area;

To mitigate these risks, additional material storage space is required to support the new service level. A comprehensive review was undertaken to explore storage options. Township-owned and external sites were reviewed in consideration of the most efficient and effective storage solutions. The evaluation criteria for these sites included:

1. **Accessibility** – ensuring easy access for vehicles and equipment, especially during adverse weather conditions;
2. **Capacity** – Assessing the ability of each site to accommodate the required volume of winter materials;
3. **Proximity** – Considering the distance from the key operational areas to minimize transportation time and costs;
4. **Environmental Impacts** – Evaluating potential environmental effects and ensuring compliance with the applicable regulations;
5. **Security** – Ensuring the safety and security of stored materials to prevent theft or damage;
6. **Cost** – Analyzing financial implications, including any necessary site modifications or maintenance ;
7. **Availability** – Confirming the site’s readiness and suitability for immediate or timely use.

Location	Accessibility	Capacity	Proximity	Environmental Impacts	Security	Cost	Availability
Public Works Yard	✓		✓		✓		
Lions Barn (KCE)	✓		✓				

Location	Accessibility	Capacity	Proximity	Environmental Impacts	Security	Cost	Availability
251 Western Ave (Arena)	✓		✓		✓		
3665 King Rd	✓	✓	✓				
Centennial Park			✓				
Wellesley Park			✓				
Hoop Street			✓				
Trisan Construction	✓	✓	✓	✓	✓	✓	✓
Ministry of Transportation	✓		✓				
York Region	✓						

Ten (10) sites were evaluated based on the above criteria. Upon evaluation of all options, Trisan Construction was the only site that met all criteria. As such, Trisan Construction is proposed as the recommended option for the temporary storage of additional winter maintenance material.

5. Financial Considerations

The cost to utilize Trisan Construction for storing winter materials is \$3,000 per month. The storage period covers November 2024 to April 2025, totalling six months. The total cost for this period is:

$$\$3,000 \text{ (monthly cost)} \times 6 \text{ (months)} = \$18,000$$

If approved, the additional cost will be included as part of the 2025 budget as a pre-approved council initiative. Any costs impact for 2024 will be offset by other variances within the year with various departments. If needed, the Township can draw from its reserves at year-end if a deficit has occurred for 2024.

6. Alignment to Strategic Plan

The 2023-2026 Corporate Strategic Plan (CSP) was adopted by Council on June 12, 2023. The CSP reflects the priorities of utmost importance to the community and defines the obligations and commitments of the Township of King to its citizens and to the public. The CSP is aligned with the Township's long-term vision defined in the "Our King" Official Plan. The CSP also aims to ensure that staff initiatives focus on and work towards supporting King's Vision, Mission and Values.

This report is in alignment with the CSP's Priority Area(s), and/or associated Objective(s) and/or Key Results(s):

Priority Area: Sustainable Asset Management

Objective: Improve our linear (transportation and environmental) and non-linear (facilities and parks) assets for continued community use and enjoyment.

Key Result: Establish the levels of service for all linear and non-linear assets by 2025.

This report is directly aligned with the Key Result of establishing levels of service for King's linear assets, specifically, to maintain them for safe and effective usage during the winter seasons.

7. Conclusion

In conclusion, the Public Works team is proposing a new level of service for winter maintenance roadway treatments. In order to accommodate the additional materials required to sustain this new level of service, Public Works also recommends the temporary use of Trisan Construction's works yard for material storage. Trisan Construction was the only option that met all evaluation criteria, compared to the various other internal and external sites being considered. This site offers the necessary accessibility, capacity, proximity, environmental compliance, security, cost effectiveness, and availability required to ensure operational efficiency during the winter season until such time that the Township's new Joint Operations Centre is constructed and commissioned.

8. Attachments

Not Applicable.

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