

Mountain Ash Limited Partnership
NW and SW 31-26-W5M
Rocky View, Alberta

April 22, 2021
Our File No: 3865.E01

Attention: Tige Brady

To: Tige Brady
Re: Summit Pit Haul Routes Plan

WATT Consulting Group Ltd. (WATT) was retained by Mountain Ash Limited Partnership (MALP) to summarize the proposed haul routes for the newly approved Summit Gravel Pit located at NW and SW 31-26-3-W5M, at the intersection of Highway 567 and Range Road 40. Access to the site will be provided via Range Road 40. **Figure 1** illustrates the location of the site.

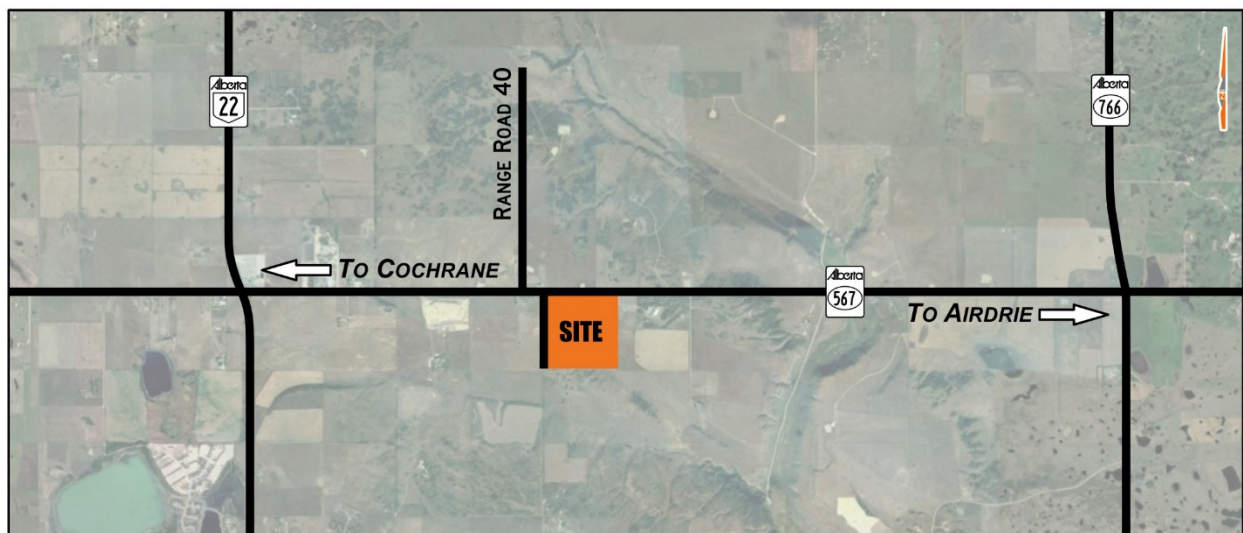


Figure 1: Site Context

WATT completed a Transportation Impact Assessment (TIA) in 2014 and an update to the TIA in 2020. At the time the original TIA was completed, the results indicated with an upgraded access, the traffic generated from the site would not produce any adverse effect on the existing infrastructure for opening day, 10-year and 20-year horizons. The update in 2020 confirmed that further analysis was not necessary as background volumes have not shown a significant change and the 2014 analysis and recommendations were still valid. All movements at Highway 567 and Range Road 40 at the 20-year horizon will be operating at a Level of Service (LOS) A for eastbound right/through movements, LOS A for westbound left/through movements and LOS B for northbound left/through movements.

Due to the size and weight of the haul vehicles, and their acceleration and deceleration properties, the 2014 TIA recommended a Type IIa intersection be constructed for the opening day scenario, a Type IIIa for the 10-year horizon and a Type IVa for the 20-year horizon. Mountain Ash Limited Partnership has committed to constructing the ultimate Type IVa intersection upon opening day.

This Haul Route Plan contains the anticipated haul routes as determined by market demand. It has been estimated that ~60% of the truck traffic (green) will service the Airdrie, Balzac and North Calgary market, while 30% (Blue) will utilize Lochend Road or Secondary 766 to service northwest/west Calgary areas. It is estimated that only 10% (yellow) of trips generated from the Summit Pit will service Cochrane or areas north and west of the Summit Pit. Truck configurations vary. The largest configuration is truck and quad trailer which carries approximately 36 tonnes. Other configurations include truck and pup (24 tonnes), truck and tri-pup (27 tonnes), tri-axle trailer/end-dump (29 tonnes), tandem trucks (14 tonnes), foundation slinger trucks (4 tonnes), and local pick-ups with 2 tonne dump trailers.

Through discussions with Mountain Ash Limited Partnership, the following conditions will apply:

- Hauling hours are Monday through Friday from 7am to 7pm, Saturday from 7am to 5pm, and no hauling activities on Sunday's or Statutory Holidays.
- All commercial vehicles hauling from the Summit Pit, for MALP, will be enrolled in the Alberta Sand and Gravel Association's truck registry program. All commercial vehicles hauling for MALP will be required to produce valid licence, registration, insurance, and a current/valid Commercial Vehicle Inspection Report.
- All complaints regarding driver behaviors will be investigated and dealt with in an appropriate manner. Drivers/vehicles with repeat complaints, more than two complaints, will no longer be able to deliver aggregates from the Summit Pit. All complaints and supporting documentation regarding the driver and truck will be filed and stored for future reference.
- Any incidence regarding school buses is cause for immediate suspension and has the potential for permanent termination, based on the findings contained in the investigation.
- Any incident causing death results in immediate termination.
- Incidents related to driver behavior will be investigated and reviewed. Always results in immediate suspension and may be followed by a termination.
- There will be no staging of trucks on Highway 567, RR40, or the pit. Dispatch will ensure trucks are properly spaced apart to ensure staging does not occur. Trucks that arrive early will not be loaded and told to leave.

- Trucks owned, purchased, or in exclusive contract with MALP will be required to equip their truck with a GPS tracking unit so that MALP can review and reference driving related behaviors.

All trucks prior to leaving the site will ensure loose debris (sand and gravel) is removed from surfaces to prevent track out onto public roadways. Range Road 40 and the intersection will be routinely inspected for loose debris. Paved roadway surfaces containing loose debris will be cleaned/swept immediately using a skid steer equipped with a sweeping broom. Surface prior to being swept will be watered with a water truck, to ensure fine sand, silt and clay particles are removed.

Attachment 1 illustrates the haul routes, distribution of traffic and destinations.

We hope that this plan sufficiently outlines the hauling operations for the Summit Gravel Pit.

Sincerely,
WATT Consulting Group



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SUMMIT PIT HAUL ROUTES