

TECHNICAL MEMO

Building upon the framework of the 2017 MSP, this memo provides guidance on implementing the next phase of the planned work described in the 2017 MSP. The goal is to review the previous alternatives and determine the appropriateness of each, identify new alternatives and prioritize the works within the new planning horizon.

1.0 2017 Master Servicing Plan Proposed Works

1.1 WATER SERVICING

Phase 1-1. Village of Markdale

The proposed works included:

- 1) New elevated water tower (completed in 2021)
- 2) Extension of water servicing into West Grey (Phase 1A) along Grey Road 12 and Highway 10 west. (outstanding)

Phase 1-2. Kimberly, Amik and Talisman

The MSP originally proposed works included decommissioning the Water Treatment plant, maintaining storage and booster and supplying treated municipal water to be sourced from Markdale. Construction of a new booster station in Kimberly was required. The recommendation to decommission the Kimberly-Amik treatment plant was removed from the final recommendations. The Markdale upgrades are therefore to service only Markdale, keeping the Amik-Talisman water treatment facility in use.

Phase 1-3. Beaver Valley Ski Club to Grey Road 13

The proposed works included extending municipal water services from Markdale, however with the revised preferred alternative had Markdale only servicing itself. Further study of the servicing of this area was completed in 2016 to determine the benefit of increased users from Beaver Valley to the Amik-Talisman water system (without the Ski Resort operating). It was determined to have capacity to service the additional units.

Phase 1-4. Grey Road 12 and 30 Corridor from Markdale to Grey Road 32

This area is not proposed to receive services.

Phase 1-5. Grey Road 30 Corridor from Beaver Valley Ski Club to Grey Road 13

The proposed works included extending municipal water services from Markdale.

Future phase of the 2017 Master Servicing Plan recommended the following:

Phase 2. Flesherton

The proposed works included a new water treatment plant in Flesherton, associated wells and a new ground storage facility at some point in the future.

Phase 3. Eugenia and Lake Eugenia

This area was recommended to be serviced from Flesherton and was not included in the implementation plans as it was to be reviewed in the future.

1.2 WASTEWATER SERVICING

Phase 1-1. Village of Markdale

The proposed works included upgrading the wastewater treatment facility (optimization of the facility requires a Municipal Class EA Study which is underway).

Phase 1-2. Kimberly, Amik and Talisman

It was proposed to expand the existing wastewater treatment facility and construct two (2) sanitary pumping stations to service Kimberly, Amik, Talisman and Beaver Valley Ski Club, Lower Beaver Valley Area. Bowles Bluff Road, Windy Lane Drive and Grey Road 30 residents.

Phase 1-3. Beaver Valley Ski Club to Grey Road 13

This phase required construction of a sanitary pumping station, and treatment at the Amik-Talisman Treatment Facility. Further study of the servicing of this area was completed in 2016 to determine feasibility of servicing to the Amik-Talisman Treatment Facility, which appeared to have capacity with Talisman Ski resort operating to provide services to Beaver Valley Ski Club and surrounding residences.

Phase 1-4. Grey Road 12 and 30 Corridor from Markdale to Grey Road 32

This phase is not to be serviced.

Phase 1-5. Grey Road 30 Corridor from Beaver Valley Ski Club to Grey Road 13

Construction of a collection system with individual grinder pumps was recommended in this phase, with wastewater to be treated at the Amik-Talisman Facility.

Phase 2. Flesherton

Expansion of the servicing area within the settlement area and upgrades to the existing wastewater treatment facilities were recommended to accompany growth demands and was not included in the implementation plan.

Phase 3. Eugenia and Lake Eugenia

This area was recommended to be serviced from Amik-Talisman and was not included in the implementation plans as it was to be reviewed in the future.

2.0 2024 Master Servicing Plan Update

With the 2024 Master Servicing Plan Update, public consultation was carried out as well as targeted meetings with residents of Beaver Valley Ski club and municipal staff. From these discussions, a revised list of alternatives was established, and services areas prioritized.

2.1 WATER SERVICING

The following alternatives are listed in order of priority, based on the current development proposals and construction projects.

Kimberly, Amik and Talisman

A new development proposal for the former Talisman Ski Resort has been submitted to Grey County and helps to prioritize this area for servicing upgrades.

The alternatives for Kimberly, Amik and Talisman are:

- 1) Do nothing
- 2) Upgrade the Kimberly-Amik Water source, treatment and distribution only for the proposed development at Talisman Ski Resort and existing users
- 3) Upgrade the Kimberly-Amik Water source, treatment and distribution system for the proposed development at Talisman Ski Resort, existing users and extend the service to the Beaver Valley Ski Club (including surrounding residences)

- 4) Construct a new Kimberly-Amik Water source, treatment and distribution system for the proposed development at Talisman Ski Resort, existing users and extend the service to the Beaver Valley Ski Club (including surrounding residences)

Beaver Valley Ski Club and Surrounding Residences

An area specific study was carried out in 2016 investigating the potential of water services to this area. Alternatives available to service it are:

- 1) Do Nothing
- 2) Extend municipal water from Kimberly-Amik

Markdale

As part of Phase 1, the majority of the works have been completed, save and except the extension of services into West Grey and some isolated properties within Grey Highlands.

Alternatives for Markdale include:

- 1) Do nothing
- 2) Extend water services to West Grey and enter into a servicing agreement to supply treated municipal water to the neighboring municipality.

Flesherton

The Official Plan policies, and the municipality's desire for fire protection and environmental protection from justify the consideration of water servicing within Flesherton, however public support was not supportive during the consultation. The resulting alternatives are:

- 1) Do Nothing
- 2) Construct a water supply, treatment and distribution system within the Settlement boundary of Flesherton
- 3) Construct a water supply, treatment and distribution system for Flesherton, Eugenia and Lake Eugenia
- 4) Include a separate water and wastewater servicing strategy for Flesherton in conjunction with the next update to the Grey Highland's Official Plan(s)

Eugenia and Lake Eugenia

Servicing alternatives for this area include:

- 1) Do Nothing
- 2) Receive water from Kimberly-Amik and construct a distribution network.
- 3) Receive water from Flesherton and construct a distribution network.

2.2 WASTEWATER SERVICING

Markdale

As part of Phase 1, the majority of the works have been completed, save and except the extension of services into West Grey and some isolated properties within Grey Highlands.

Alternatives for Markdale include:

- 1) Do nothing
- 2) Extend water services to West Grey and enter into a servicing agreement to collect and treat wastewater from the neighbouring municipality.

Amik, Talisman, Kimberly

A new development proposal for the former Talisman Ski Resort has been submitted to Grey County and helps to prioritize this area for servicing upgrades.

The alternatives for Kimberly, Amik and Talisman are:

- 1) Do nothing
- 2) Upgrade the Amik-Talisman Wastewater treatment and collection system only for the proposed development at Talisman Ski Resort and existing users
- 3) Upgrade the Amik-Talisman Wastewater treatment and collection system for the proposed development at Talisman Ski Resort, existing users and extend the service to Kimberley
- 4) Construct a new Amik-Talisman Wastewater treatment and collection system for the proposed development at Talisman Ski Resort, existing users and extend the service to the Beaver Valley Ski Club (including surrounding residences)
- 5) Upgrade the Amik-Talisman Wastewater treatment and collection system for the proposed development at Talisman Ski Resort, existing users and extend the service to the Beaver Valley Ski Club (including surrounding residences) and Eugenia and Lake Eugenia

Beaver Valley Ski Club and Surrounding Residences

An area specific study was carried out in 2016 investigating the potential of water services to this area. Alternatives available to service it are:

- 1) Do Nothing
- 2) Extend sanitary sewers from and provide treatment at the Amik-Talisman Treatment Facility

Flesherton

As part of Phase 2, the extension of services to the remainder of the Settlement Area was recommended. The resulting alternatives are:

- 1) Do Nothing
- 2) Extend sanitary sewers to the priority area within the Settlement boundary of Flesherton
- 3) Extend sanitary sewers to all residents and businesses within the Settlement boundary of Flesherton, which may require the construction of one or two sanitary pumping stations
- 4) Include a separate water and wastewater servicing strategy for Flesherton in conjunction with the next update to the Grey Highland's Official Plan(s)

Eugenia and Lake Eugenia

Servicing alternatives for this area include:

- 1) Do Nothing
- 5) Extend sanitary sewers from and provide treatment at the Amik-Talisman Treatment Facility

Further revision to the list of alternatives is proposed based on the feedback received to date, including the screening-out of proposing new municipal services to Eugenia and Lake Eugenia as well as the development of a municipal water supply in Flesherton.

Therefore, the final recommended list of alternatives to be reviewed, prioritized and costed for consideration are shown in the following sections.

3.0 2024 Master Servicing Plan Focused Alternatives

3.1 WATER SERVICING

Kimberly, Amik, Talisman and Beaver Valley

The alternatives for Kimberly, Amik and Talisman are:

- 1) Do nothing
- 2) Upgrade the Kimberly-Amik Water source, treatment and distribution only for the proposed development at Talisman Ski Resort and existing users

- 3) Upgrade the Kimberly-Amik Water source, treatment and distribution system for the proposed development at Talisman Ski Resort, existing users and extend the service to the Beaver Valley Ski Club (including surrounding residences)
- 4) Construct a new Kimberley-Amik Water source, treatment and collection system for the proposed development at Talisman Ski Resort, existing users and extend the service to the Beaver Valley Ski Club (including surrounding residences)

MARKDALE

The alternatives for Markdale are:

- 1) Do nothing
- 2) Extend water services to West Grey and enter into a servicing agreement to supply treated municipal water to the neighboring municipality.

FLESHERTON

The alternatives for Flesherton are:

- 1) Do Nothing
- 2) Include a separate Water and Wastewater Servicing Strategy for Flesherton in conjunction with the next update to the Grey Highland's Official Plan(s)

Wastewater Servicing

AMIK, TALISMAN, KIMBERLY AND BEAVER VALLEY

The alternatives for Kimberly, Amik and Talisman are:

- 1) Do nothing
- 2) Upgrade the Amik-Talisman Wastewater treatment and collection system only for the proposed development at Talisman Ski Resort and existing users
- 3) Upgrade the Amik-Talisman Wastewater treatment and collection system for the proposed development at Talisman Ski Resort, existing users and extend the service to the Beaver Valley Ski Club (including surrounding residences)
- 4) Construct a new Amik-Talisman Wastewater treatment and collection system for the proposed development at Talisman Ski Resort, existing users and extend the service to the Beaver Valley Ski Club (including surrounding residences)

MARKDALE

Alternatives for Markdale include:

- 1) Do nothing
- 2) Extend water services to West Grey and enter into a servicing agreement to collect and treat wastewater from the neighbouring municipality.

FLESHERTON

The alternatives are:

- 1) Do Nothing
- 2) Include a separate water and wastewater servicing strategy for Flesherton in conjunction with the next update to the Grey Hyland's Official Plan(s)

Next Steps

With direction from Council, analysis of the above noted alternatives will be carried out to determine the preferred alternative for each of:

- 1) Amik-Kimberly-Talisman Water and

2) Amik-Talisman Wastewater

Further studies required to implement the preferred alternative will be presented and the final piece of analysis for the preferred alternative will include the staging and costing of implementation.

Further direction is requested in:

- 1) Support for a single option in Markdale for water and wastewater to extend services to West Grey or not.
- 2) Support of a future Servicing Study for water and wastewater in Flesherton.