

# Potential Regional Service Descriptions

## Potential Water Service to Prairie Gateway ASP

The City does not currently have a Master Servicing Agreement (MSA) for water services with Rocky View County.

The majority of the Prairie Gateway Area Structure Plan (ASP) falls within the City of Calgary Ogden water pressure zone, with a portion located within Foothills pressure zone. Development within the plan area would require a new feedermain loop to connect to the City of Calgary water network at two tie-in locations: one at Glenmore Trail and 52<sup>nd</sup> Street SE, another at 146<sup>th</sup> Avenue SE and Stoney Trail to service the plan area. Upgrades to existing City of Calgary water infrastructure would also be required. Development within the City, as well as contributions from the Gateway area and other regional customers, would also require treatment plants upgrades.

Water licencing would be resolved before a servicing agreement is finalized. This would include forecasting annual, daily and instantaneous flow rates for the service area and securing Alberta Environment and Protected Areas (APEA) approval under the *Water Act* for the necessary water licence allocation.

The City has a Council-approved approach for setting regional water and wastewater rates. The City would work with The County to consider rate setting options, including the City's standard regional rate setting approach, for the water service to achieve the appropriate revenue requirement based on the associated investment and operating costs.

## Potential Wastewater Service to Prairie Gateway ASP

The City currently has a Master Servicing Agreement with Rocky View County for wastewater service for specific service areas in The County, not including the Prairie Gateway ASP area:

The sanitary servicing of Prairie Gateway ASP area would be provided through a combination of public sanitary sewer gravity mains and pressurized force mains to a central lift station at the City boundary. The centralized lift station would convey the sanitary flow to the existing City of Calgary sanitary sewer network. Development within the plan area would require a new force main connection to the City of Calgary sanitary system. Two options are being evaluated – connection to Shepard trunk, located at 52<sup>nd</sup> Street SE and 114<sup>th</sup> Avenue SE or connection to Rangeview sanitary trunk at 212<sup>th</sup> Avenue SE. Upgrades to existing City of Calgary sanitary sewer infrastructure would also be required. Development within the City, as well as contributions from Gateway and other regional customers, would require treatment plants upgrades. Under no circumstance, whether on the interim or permanent basis, shall wastewater be allowed to enter into the stormwater system.

The City has a Council approved approach for setting regional water and wastewater rates. The City would work with The County to consider rate setting options, including the City's standard regional rate setting approach, for the wastewater service to achieve the appropriate revenue requirement based on the associated investment and operating costs.

## Potential Stormwater Service to Prairie Gateway ASP

Figure 1: Potential Prairie Gateway Stormwater Servicing Concept

The City does not currently have a Master Servicing Agreement for stormwater services with Rocky View County nor any regional customer.

Stormwater service would include discharge of treated stormwater and emergency overland spills from Stormwater Management Facilities (SWMFs) in a specified service area (shown in Figure 1) into the Shepard Ditch at the City-approved discharge location(s). The cumulative collection and discharge of stormwater into the Shepard Ditch may alter water volumes, rates and quality in the Shepard and, consequently, in the Bow River, as well as impact the City's Total Loadings limits. City infrastructure (future storm trunk and existing Shepard Ditch) would be used to convey treated stormwater from Gateway to ultimately discharge into the Bow River.



All on-site stormwater infrastructure (including ponds, pipes, etc) would be built by Gateway developer(s). Stormwater discharge would comply with the runoff targets (peak flow rate, annual volume and water quality criteria) set in a Master Drainage Plan (underway) and City stormwater guidelines and policies. Staged Master Drainage Plans (SMDPs) would be prepared by the developer's consultant(s), prior to detailed design of the SWMFs. The County would be responsible for monitoring and reporting water levels and water quality in the Stormwater Management Facilities (inlet and outlet) and flow rate in the storm trunk, and at the outlet to the Shepard Ditch. Additional treatment, such as Oil & Grit Separators, may be required. Stormwater management facilities would be designed to comply with all applicable City of Calgary, provincial and federal standards and guidelines, and to contain hazardous spills until spill response protocols can be implemented.

A stormwater master service agreement would be developed and executed to support this service. It would borrow from the Water and Wastewater Master Service Agreements that The City currently has in place with regional customers and would be supported by The City's Stormwater Bylaw authority.

The City would need to establish a stormwater rate for this regional service to fulfill Council Policy direction to recover the cost from the regional customer. The City has a Council approved approach for setting regional water and wastewater rates. The City would work with The County to consider rate setting options, including the City's standard regional rate setting approach, for the stormwater service to achieve the appropriate revenue requirement based on the associated investment and operating costs. Rates would be developed and revised from time to time in consultation with the regional customer and approved by City Council, in the respective bylaw, and subject to any relevant MGA provisions.