

**To:** Electoral Area Directors Committee**Report Number:** ENV-EADC-004**From:** Paulo Eichelberger, GM of Environmental Services**Date:** June 8, 2020**Subject:** Charlie Lake Sewage Collection Network Feasibility Study**RECOMMENDATION:**

That the Electoral Area Directors Committee recommend that the Regional Board authorize compilation and issuance of a Request for Proposal (RFP) for qualified professionals to conduct a feasibility study to expand sewage collection capacity along the eastern portion of Charlie Lake.

BACKGROUND/RATIONALE:

The Charlie Lake Sewage Service Area services approximately 400 residences/businesses with capacity for other properties to be connected along the western and southern portions of the lake.

Historically, the eastern portion of the lake has had no ability to add connections to the network due to limited sewer handling capacity. With development focused in the south and west of Charlie Lake, upgrades in the collection network were built elsewhere accordingly.

There has been renewed interest in re-visiting the eastern branch to address these capacity issues and to establish an ability to add new connections. To move forward with investigating the eastern branch of the current service area, a feasibility study must be undertaken to determine:

- a. what the limits of sewage collection capacity are currently on the eastern portion of the lake;
- b. what the opportunities are to expand collection capacity into the network; and
- c. what the estimated cost is to expand the network based on those opportunities.

The intent of this feasibility study is provide options for possible upgrades on the eastern portion of the lake. This study will support future RFP's for design and construction of those upgrades and provide a Class D¹ cost estimate for budgeting purposes.

Funding of future upgrades will be pursued by grant application and/or the Federal Gas Tax Fund.

ALTERNATIVE OPTIONS:

1. That the Electoral Area Directors Committee provide further direction.

STRATEGIC PLAN RELEVANCE:

- ☒ Not Applicable to Strategic Plan.

¹ Class D construction cost estimates factor in 15% engineering and 30% construction contingencies.

FINANCIAL CONSIDERATION(S):

Estimated costs for assessing options to expand capacity on the eastern portion of Charlie Lake are

\$45,000 (based on similar studies on the Charlie Lake System).

COMMUNICATIONS CONSIDERATION(S):

None identified.

OTHER CONSIDERATION(S):

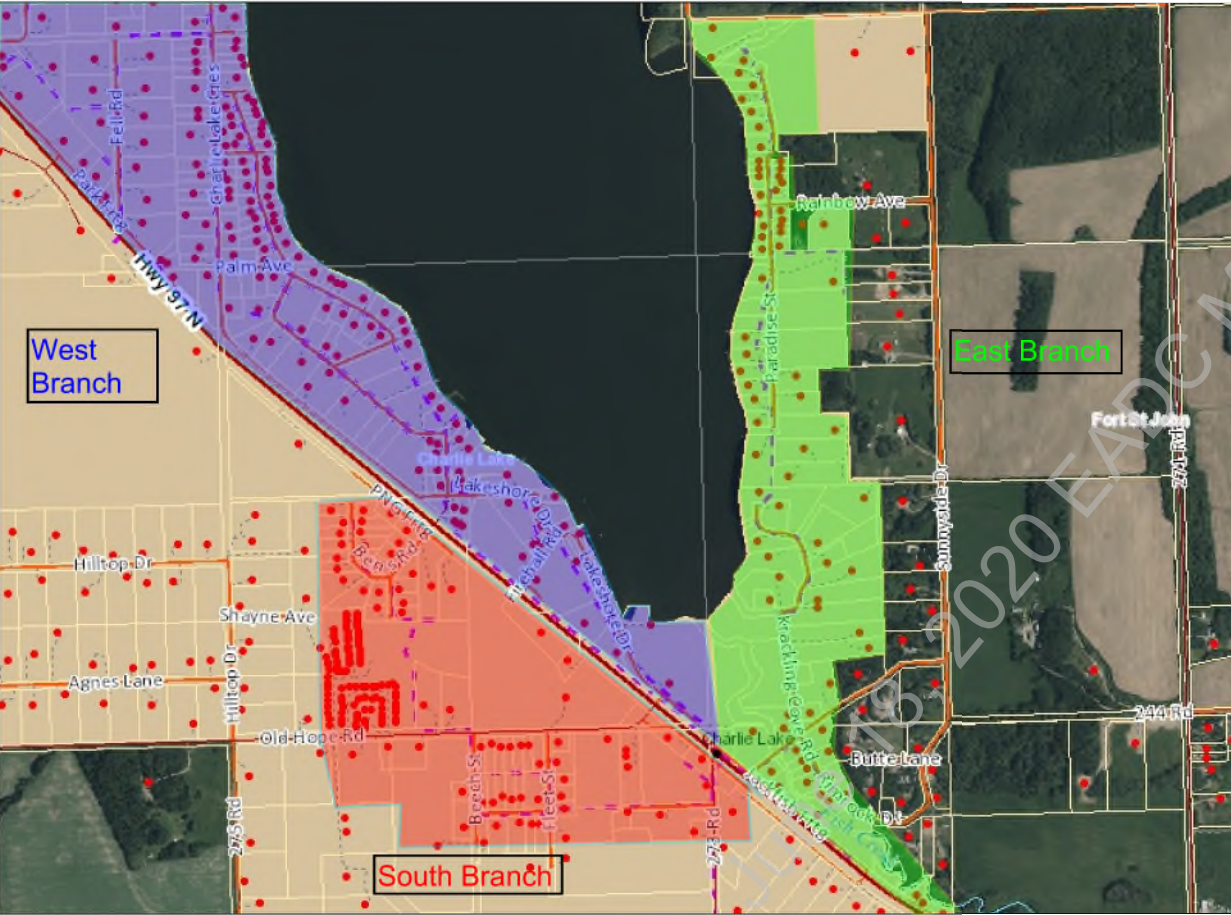
Committee will need to confirm if the planned area of study will include area outside the eastern arm of the Charlie Lake Sewage Service Area for the purpose of the RFP. Branches of the network are shown in the attachment for reference (green is the eastern branch, containing 65 connections).

Attachments:

1. CL Sewer Service Area Reference Map.



CL Sewer Service Area



Legend

- Hwy Mile Marker
- Rural Community
- 911 Civic Address Rural
- 911 Civic Address Municipal
- Regional Park
- Parks
- Parcel / District Lot
- Highway
- Municipal Road
 - Hard Surface
 - Gravel
- Rural Road >1:250k
 - Hard Surface
 - Gravel
 - Seasonal
- Driveway
- PRRD Sewer Systems
 - Sewer Line
 - Storm Water Drainage
- PRRD Water Systems
 - Charlie Lake Sewage SA
 - Friesen Area Sewage SA
 - Harper Imperial Sewage SA
 - Kelly Lake Sewage SA
 - Rolla Subdivision Sewage SA
- Sections
- Streams/Rivers
- Locality

1:20,000

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