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CORPORATE REPORT

NO: R041 COUNCIL DATE: March 12, 2018

REGULAR COUNCIL

TO:	**Mayor & Council**	DATE:	**March 8, 2018**
FROM:	**General Manager, Engineering**	FILE:	**6520-20 (West Clayton) 0455-01**

SUBJECT: **Cost Contribution for the Relocation of a Metro Vancouver Water Main**

RECOMMENDATION

The Engineering Department recommends that Council authorize the expenditure authority for a payment, up to a maximum upset limit of $650,000, to Metro Vancouver for the relocation of the Metro Vancouver feeder water main on Fraser Highway. This is required to facilitate construction of the North Cloverdale Trunk Sanitary Sewer.

INTENT

The purpose of this report is to seek expenditure authority for the relocation of Metro Vancouver feeder water main on Fraser Highway, as part of the North Cloverdale Trunk Sanitary Sewer project.

BACKGROUND

At the Regular Council Meeting in July 27, 2015, as part of Corporate Report R168; 2015, Council adopted the West Clayton Neighbourhood Concept Plan ("NCP"). The NCP outlines the City's vision for future growth and development in the area located predominantly west of 188 Street, north of Fraser Highway, east of the Agricultural Land Reserve ("ALR") boundary and south of 80 Avenue.

The proposed sanitary servicing strategy for the NCP area consists of a network of gravity sewers that will convey flows west towards the North Cloverdale Trunk Sanitary Sewer ("NCTS") that will be situated along the toe of the slope at the ALR boundary. The NCTS will cross the Fraser Highway just west of 180 Street and connect to the existing trunk sanitary sewer in the 7100 block of 177A Street. This sewer, in turn, conveys flows south to the City's North Cloverdale Lift Station at 176 Street and 68A Avenue, as illustrated in the map attached as Appendix "I".

In order for the NCTS to cross the Fraser Highway the existing 900mm diameter Metro Vancouver feeder water main needs to be relocated.

DISCUSSION

Development interest in the NCP area has been strong since the adoption of the NCP. Several development applications are in process and it is anticipated that the NCTS will need to be in completed by 2019 to service these pending developments. The NCTS is a Development Cost Charge ("DCC") eligible work; therefore, it is anticipated that a developer or group of developers will come forward shortly to enter into a DCC Front Ending Agreement with the City to construct the NCTS.

In an effort to eliminate a barrier to constructing the NCTS, City staff have worked with Metro Vancouver staff on a plan to relocate their feeder water main. Due to the pipe size and service area of the feeder water main, as well as the anticipated timing of in-stream development applications, the water main relocation work must be conducted in the Spring of 2018 prior to water demand increases in the summer months.

Metro Vancouver requires that certain works such as water main isolation, draining and disinfection, tie-ins and restoration of service, be completed by Metro Vancouver staff. Metro Vancouver has provided a cost estimate of $650,000 to complete the work.

Staff are continuing to negotiate with Metro Vancouver to ensure fair value for the City in the provisions of these services, and anticipate that the final cost to the City for the water main relocation works will be less than the estimated amount.

Should Metro Vancouver's feeder water main not be relocated in the Spring of 2018, the next available opportunity to complete this work is Spring 2019.

FUNDING

Development Cost Charge ("DCC") funding for this work is available in the approved 2018 Sanitary Sewer Budget.

SUSTAINABILITY CONSIDERATIONS

This report relates to the Sustainability Charter 2.0 theme of Infrastructure. Specifically, the construction of the NCTS supports the following Desired Outcomes:

- Infrastructure DO1: City facilities and infrastructure systems are well managed, adaptable and long lasting, and are effectively integrated into regional systems;
- Infrastructure DO2: Infrastructure systems provide safe, reliable and affordable services; and
- Infrastructure DO3: Infrastructure systems are designed to protect human health, preserve environmental integrity, and be adaptable to climate change impacts.

CONCLUSION

Based on the above discussion, it is recommended that Council authorize the expenditure authority for a payment up to a maximum upset limit of $650,000 to Metro Vancouver for the relocation of the Metro Vancouver feeder water main on Fraser Highway as required to facilitate construction of the North Cloverdale Trunk Sanitary Sewer.

Fraser Smith, P.Eng., MBA
General Manager, Engineering

FS/JA/SLW/jma/ggg

Appendix I – Aerial Photograph of Site

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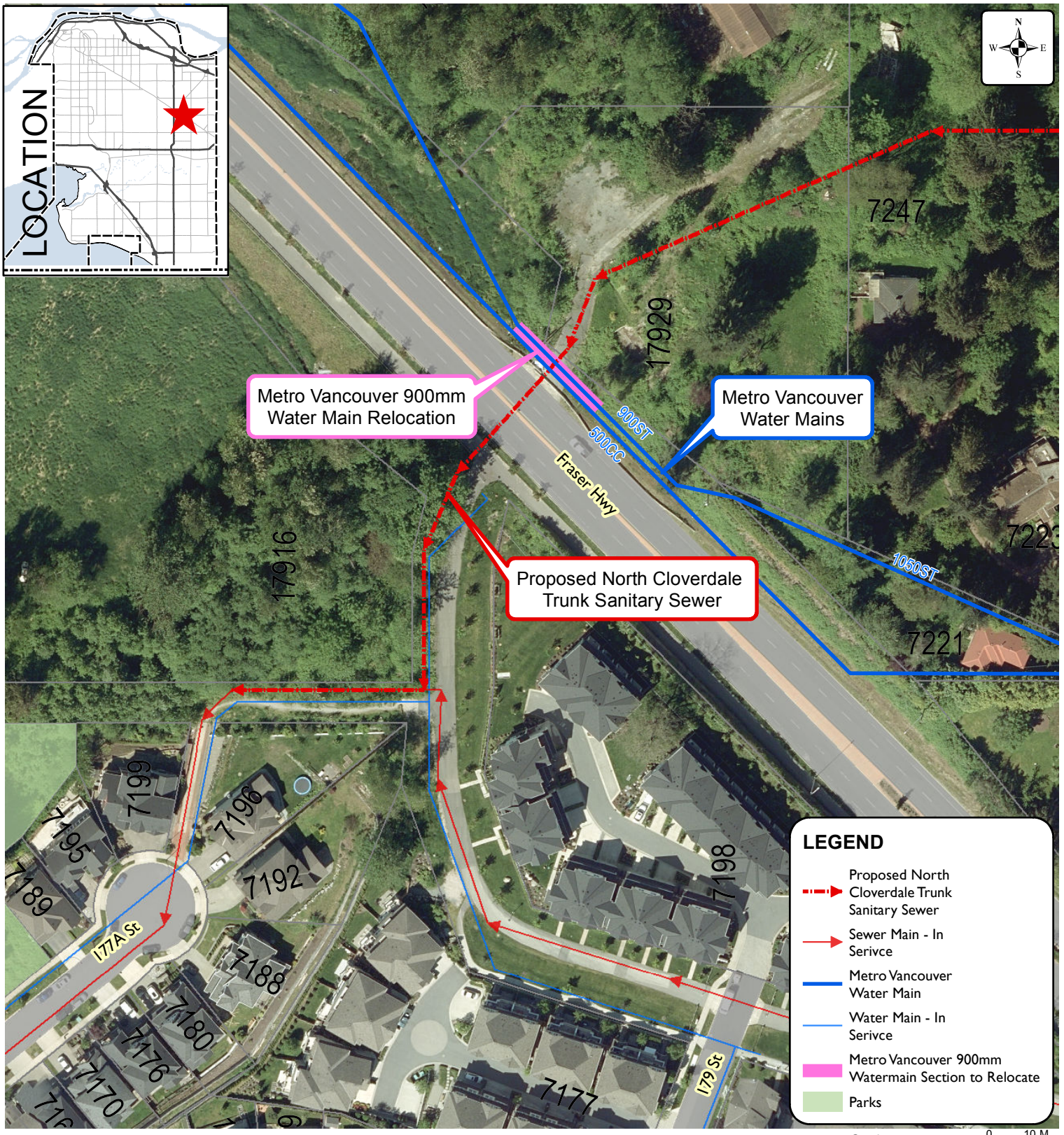
APPENDIX "I"



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Scale: 1:1,300

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Metro Vancouver - 900mm Water Main Relocation

ENGINEERING DEPARTMENT

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