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**TO:** CITY MANAGER **DATE:** 2014 October 16

**FROM:** DIRECTOR ENGINEERING **FILE:** 36000 09  
*Reference:* VSA/FSA, EW-MVVA-13

**SUBJECT: WILLINGDON & BETA PUMP STATION, BRENTLAWN DRIVE  
PROPOSED CHANGE TO REGIONAL SANITARY SEWERAGE AREA  
BOUNDARY**

**PURPOSE:** To seek Council approval for a proposed amendment to Metro Vancouver's Regional Sewerage area boundaries, and proceed with a formal request to Metro Vancouver to approve the amendment.

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**RECOMMENDATIONS:**

1. **THAT** Council approve the proposed amendment of the Regional Sewerage area boundaries as detailed in this report.

**REPORT**

Engineering staff have recently completed a sanitary servicing review for the Central Valley area of Burnaby that includes requirements for upgrading pump stations and sewers. The servicing review was conducted to determine if works were required to support future growth and to integrate these works into capital renewal and rehabilitation plans.

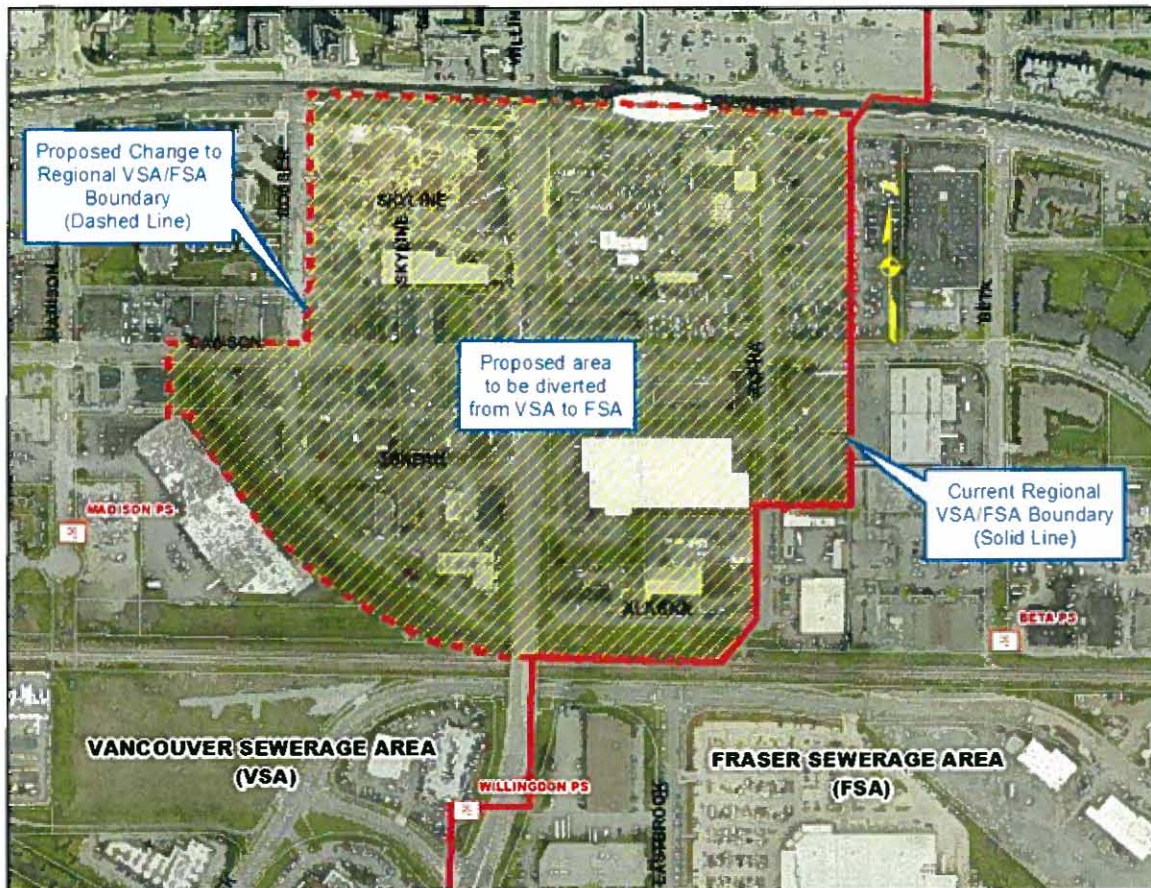
Willingdon & Beta Pump Stations

The review identified that infrastructure improvements to the Willingdon and Beta pump stations are needed in order to support growth in the Central Valley area. The Beta pump station is located east of the Willingdon pump station and due to operational demands and development demands needs to be upgraded first.

Upon review, staff identified an opportunity to divert a portion of the sewerage area currently serviced by the Willingdon pump station to the Beta pump station in order to alleviate the demands on the Willingdon pump station and associated forcemains. This proposed diversion would provide the opportunity to upgrade only the Beta pump station rather than both the Willingdon and Beta pump stations. This strategy should lead to overall cost and time savings. The area proposed to be diverted is shown in **Figure 1**.



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**Figure 1. Proposed Sewerage Area Boundary Change for Willingdon and Beta Pump Stations**

The diverted sewerage area is within the Regional Vancouver Sewerage Area (VSA) and would therefore be re-directed to the Regional Fraser Sewerage Area (FSA). As such, this will require an amendment to the Regional VSA/FSA boundary and, consequently, approval from Metro Vancouver for this amendment.

### Brentlawn Drive

Lots fronting Brentlawn Drive within the 4700 block are currently being serviced by a sanitary sewer that is within the Vancouver Sewerage Area (VSA). With the exception of lot 4708 Brentlawn Drive, all lots pump sanitary flows into this sewer due to topography constraints.

Previously, the City received a request from the homeowner at 4748 Brentlawn Drive to extend the sanitary sewer in the lane south of the property in order to facilitate a gravity sewer connection and eliminate the need for a pump, and would entail the lot to be within the Fraser Sewerage Area (FSA). This proposed sewer extension would be paid for by the homeowner. Staff have reviewed the proposal and concur with the request. In addition, this sewer extension will allow all lots along the south side of Brentlawn Drive to be serviced via gravity connection upon re-development.



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As such, this proposed servicing strategy requires a change to the Regional Sewerage boundary as shown in **Figure 2**. An amendment to the Regional VSA/FSA boundary is needed and, consequently, approval from Metro Vancouver for this amendment.



**Figure 2. Proposed Sewerage Area Boundary Change for Brentlawn Drive**

City staff has reviewed the proposed Regional Sewerage boundary change and sanitary infrastructure upgrades with Metro Vancouver staff. Metro Vancouver staff is in support of this proposal and requires Council approval of the recommended change in Sewerage area prior to preparing a formal report to the Metro Vancouver board for approval. City staff is recommending that Council approve these changes to the sewerage areas. With Council approval, staff will prepare a formal request to Metro Vancouver for the adjustment to the Regional Sewerage Area boundary.

  
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Director Engineering

MP/ac

Copied to: Infrastructure Planning Engineer  
Water & Sewer Engineer