



CITY OF RICHMOND

REPORT TO COMMITTEE

TO: Public Works and Transportation Committee

DATE: January 25, 2001

FROM: Jeff Day, P. Eng.
Director, Engineering

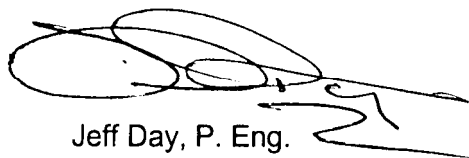
FILE: 6340-20-P.00306

RE: 11000 Block Granville Avenue North Side Ditch Infill

STAFF RECOMMENDATION

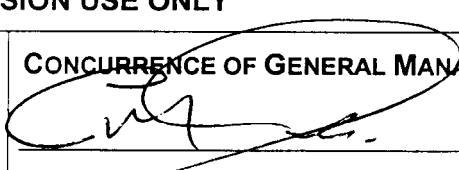
It is recommended that:

1. The ditch infill project for the north side of the 11000 block of Granville Avenue be removed from consideration as a candidate for funding in the Year 2001 Capital Budget; and
2. The ditch infill project for the north side of the 11000 block of Granville Avenue remain for consideration as a candidate for funding in the year 2004 within the proposed 5 year Capital Plan.



Jeff Day, P. Eng.
Director, Engineering

Att. 1

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	CONCURRENCE OF GENERAL MANAGER 

STAFF REPORTORIGIN

At the January 17, 2001, Public Works and Transportation Committee Meeting, it was moved:

That the report (dated December 11th, 2000, from the Director, Engineering), regarding the 11000 block Granville Avenue North Side Ditch Infill, be referred to staff to contact residents in the area regarding the proposed change in plans to infill the north side ditch, and report to Committee at a future meeting on the response of the residents.

The original report presented at the January 17, 2001, Public Works and Transportation Committee Meeting is appended herewith for reference.

ANALYSIS

A letter from the Engineering Department dated January 18, 2001 was hand-delivered on the morning of January 19, 2001, to all 17 residences along the north side of Granville Avenue by staff. The letter informed the residents about staff's recommendation to the Public Works and Transportation Committee that infill of the 11000 block Granville Avenue north side ditch remain for construction in 2004 as currently proposed in the 5 Year Capital Plan, subject to Council approval of the annual capital construction program. The letter requested comments from residents on or before the end of Wednesday, January 24, 2001.

As of Wednesday, January 24, 2001, two telephone calls and one letter had been received from residents. The telephone calls are as follows:

- (Monday, Jan 22/01) One resident refused to leave his name or address, but was concerned about his garbage cans falling in the ditch. He said that he would likely write in with his concern.
- (Tuesday, Jan 23/01) The second resident is a lady from 11311 Granville. She did not want to leave her name. Her concern was regarding the lack of a sidewalk. She said she did not want to write in.

The letter is from Ms. Margaret Stuart of 11231 Granville Avenue and is appended herewith. In summary, the letter indicates concerns as follows:

- Insufficient time was provided for residents to respond.
- The north side ditch infill should have been done concurrently with the south side infill.
- The north side ditch is filthy, the odour from the ditch is offensive, and children may fall in to the ditch.

Staff comment on the concerns as follows:

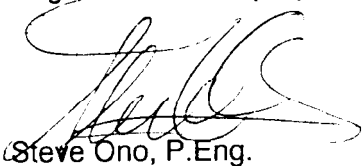
- There is potential for children or garbage cans to fall into the ditch, but this is similar to many other areas in Richmond serviced by undeveloped roads.
- The infill of the south side ditch has provided a prominent gravel shoulder which, while not as convenient as a sidewalk, does provide a safe haven for pedestrians during passage of vehicles. This condition is better than many areas of Richmond serviced by undeveloped roads.
- The letters were hand delivered by staff to ensure six days were provided to residents to raise questions or comments.
- As reported to Committee on April 19, 2000, concurrent infill of the north and south ditches may have resulted in minor savings. However, these savings are insignificant compared to potential savings from coordination of drainage and watermain works with proposed GVRD waterworks in 2004.
- Certain odours and debris may be associated with the Granville Avenue ditch but this is similar to many other areas of Richmond drained by ditches.
- Monitoring of the north side ditch water levels by staff following infill of the 11000 block Granville Avenue south side ditch indicates the south side infill successfully alleviates drainage and flooding problems in the area.

FINANCIAL IMPACT

The infill of the north side ditch along Granville Avenue 11000 block is currently proposed to occur in 2004 in the 5 year Capital Plan. Staff identified the project in the draft 2001 capital plan to provide the required funding to complete the north side should the south side improvements not address drainage and flooding on the north side. Monitoring of the performance of the recently completed 11000 block Granville Avenue south side ditch infill indicates the north side ditch infill and associated funds are not required at this time, so there will be no financial impact.

CONCLUSION

The infill of the south side ditch has successfully improved drainage along the 11000 block of Granville Avenue, and cross connections have lowered water levels in the north side ditch. Accordingly, infill of the Granville Avenue north side ditch can remain tentatively scheduled for construction in 2004 as originally proposed in the 5 year Capital Plan. This will enhance potential to co-ordinate construction along Granville Avenue with the Greater Vancouver Regional District's proposed watermain along this corridor.



Steve Ono, P.Eng.

Manager, Engineering Design & Construction

SO:so



CITY OF RICHMOND

REPORT TO COMMITTEE

TO: Public Works and Transportation Committee

DATE: December 11, 2000

FROM: Jeff Day, P. Eng.
Director, Engineering

FILE: 6340-20-P.00306

RE: 11000 Block Granville Avenue North Side Ditch InfillSTAFF RECOMMENDATION

It is recommended that:

1. The ditch infill project for the north side of the 11000 block of Granville Avenue be removed from consideration as a candidate for funding in the Year 2001 Capital Budget, and
2. The ditch infill project for the north side of the 11000 block of Granville Avenue remain for consideration as a candidate for funding in the year 2004 within the proposed 5 year Capital Program.

Jeff Day, P. Eng.
Director, Engineering

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ROUTED TO:	CONCURRENCE	CONCURRENCE OF GENERAL MANAGER
Public Works Drainage.....	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

STAFF REPORT

ORIGIN

At the April 19, 2000, Public Works and Transportation Committee meeting, it was resolved:

- (1) *That infill of the ditch along the south side of the 11000 block of Granville Avenue, along with selective regrading and cross drainage of the north side ditch, proceed in the year 2000 in accordance with the approved 2000 capital plan, and*
- (2) *That the performance of the south side ditch infill be monitored to assess any need to accelerate the infill of the ditch along the north side of the 11000 block Granville Avenue in the 5 year capital plan, and*
- (3) *That the ditch infill project for the north side of the 11000 block of Granville Avenue, be considered as a candidate for funding in the Year 2001 Capital Budget.*

Item (1) of the resolution was completed in July of 2000. This report addresses items (2) and (3) of the resolution.

ANALYSIS

On April 19, 2000, staff presented a report to the Public Works and Transportation Committee regarding the infill of the ditch on the south side of the 11000 block Granville Avenue (Shell Road/CN Right of Way to No. 5 Road). At the same meeting, a delegation of residents from the north side of Granville Avenue requested that the City infill the ditch on the north side of the 11000 block of Granville Avenue concurrent with the south side ditch infill to address local drainage concerns. Rather than proceed immediately with infill of the north ditch, staff proposed to monitor the effectiveness of the south side ditch infill for alleviating local drainage problems. This monitoring was to determine if there was any need to accelerate infill of the north side ditch to occur in 2001 rather than 2004 as originally planned.

The ditch infill on the south side of the 11000 block of Granville Avenue, including cross drains interconnecting the north side ditch to the new south side storm sewer, was completed by the end of July, 2000. During the summer of 2000, the Ministry of Transportation and Highways also completed drainage improvements at the Steveston Highway and No. 5 Road interchange, which ultimately resulted in lower water levels in the 11000 block Granville Avenue north side ditch.

Historically, rainfall has tended to increase during the months of October and November and continue through the winter months. Accordingly, in October 2000 staff began monitoring water levels in the 11000 block Granville Avenue north side ditch. While the 2000 fall and winter rainfall has been lower than average, there have been periods of heavy rainfall during which meaningful monitoring could occur. At no time did the water level in the ditch exceed 0.3 metres (1 foot) depth at any of the six monitoring locations along the north side ditch of the 11000 block of Granville Avenue. The recorded water levels are substantially lower than those

observed prior to the improvements when water levels were typically high with standing water deeper than 0.6m (2 feet) in places, and occasionally near the top of the ditch bank. The ditch monitoring record information is appended herewith. Furthermore, no drainage related flooding complaints have been received in the area since completion of the south ditch improvements in July 2000.

When the north side ditch infill does proceed, it should be scheduled concurrently with the watermain construction along the north side road shoulder of Granville Avenue. This watermain is soon due for replacement. Smart sequencing of these projects will minimise overall costs and construction related disruption for local residents.

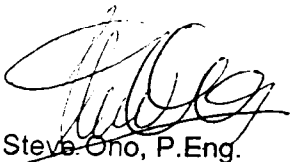
It should also be noted that the Greater Vancouver Water District (GVWD) has currently proposed the construction of a large transmission watermain along the Granville Avenue corridor with approximate scheduling from 2005 to 2008. The GVWD advises that they are not yet able to determine precisely which year this section of road will be impacted. However, delaying construction of the ditch infill at this time provides some flexibility for co-ordinating construction of the ditch infill with the GVWD transmission watermain.

FINANCIAL IMPACT

The proposed 2001 Capital Program currently includes the ditch infill on the north side of the 11000 block of Granville Avenue as a candidate for funding in order to ensure that sufficient funds would be available should immediate improvements be required for the north side Granville Avenue ditch. As improvements and funds are not required at this time, there will be no financial impact.

CONCLUSION

Staff initiated a water level monitoring program for the north side ditch in the 11000 block of Granville Avenue following completion of the south side Granville Avenue ditch infill. Monitoring results indicate that the infill of the ditch along the north side of Granville Avenue, 11000 block is not required at this time and as a result it is recommended that the ditch infill be considered for construction in 2004 as originally proposed in the 5 year Capital Program.



Steve Ono, P.Eng.
Manager, Engineering Design & Construction

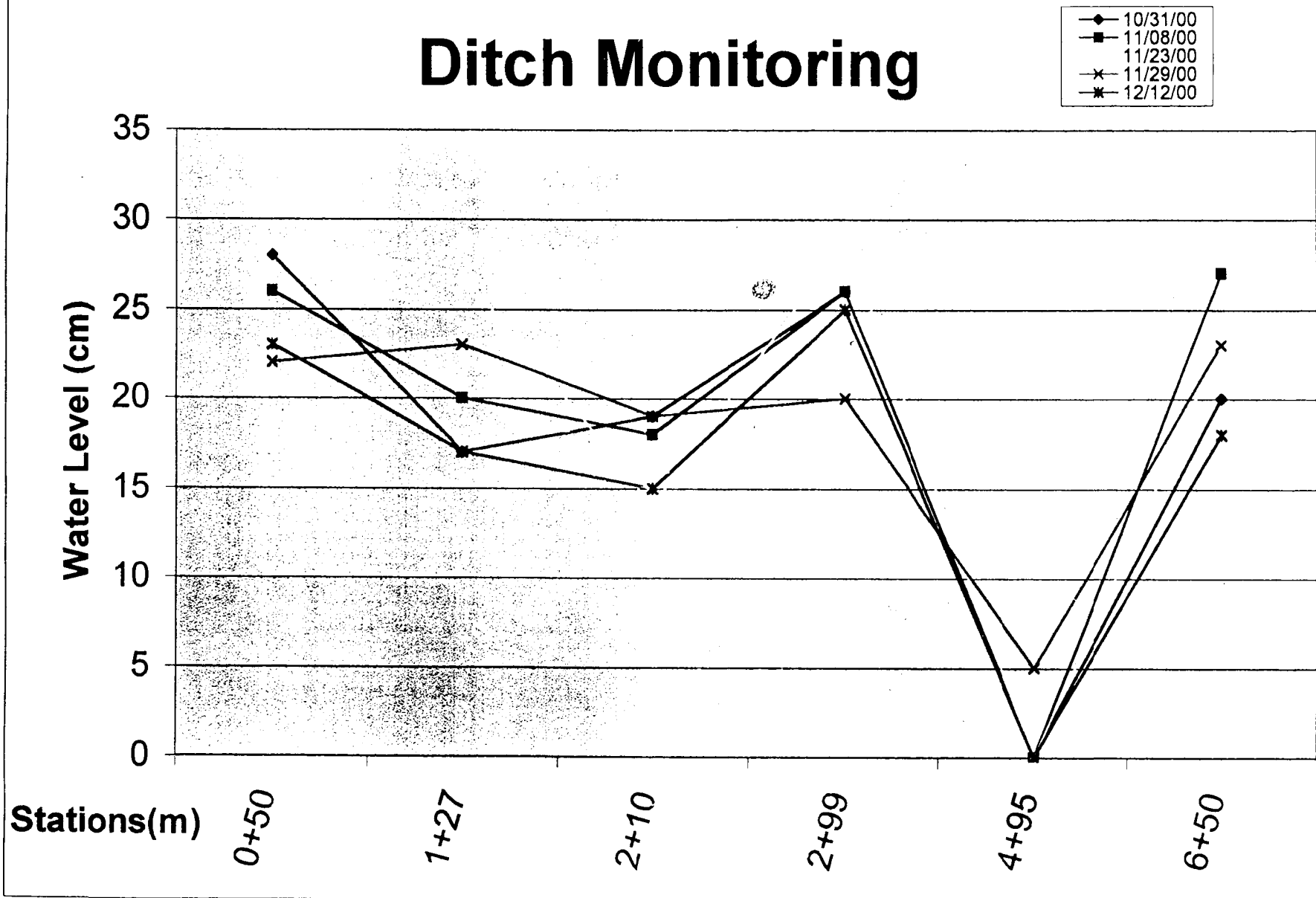
SO:rg

Appendix A

Ditch Monitoring Summary Results

Date /Time	Address on Granville	Sta.	Inv. Elev of culvert crossing (m)	Depth from top of water to top of stake (m)	Depth from top of water to top of bank (m)	Water Depth (cm)	Weather Condition / Comments
10/31/00 10:15	11001	0+50		1.400	1.350	28	*Med/Heavy rain overnight & morning. *Flow blocked at 11511 Granville east side culvert crossing (dirt covering culvert). *Ditch needs cleaning east of 11711. *Flow through cross-culverts is good.
	11111	1+27	0.998	1.510	1.450	17	
	11211	2+10	0.899	1.370	1.255	19	
	11291	2+99	0.927	1.540	1.380	26	
	11731	4+95	0.737	1.830	1.755	0	
	11871	6+50		1.650	1.595	20	
11/8/00 9:00	11001	0+50		1.400	1.350	26	*Med rain overnight. *Culvert cleared at 11511 Granville on 11/08/00. *Flow through cross-culverts is good.
	11111	1+27		1.510	1.450	20	
	11211	2+10		1.405	1.290	18	
	11291	2+99		1.400	1.240	26	
	11731	4+95		1.860	1.785	0	
	11871	6+50		1.700	1.645	27	
11/23/00 1:30	11001	0+50		1.380	1.330	29	*Moderate rain overnight & throughout the day. *Flow through cross-culverts is good.
	11111	1+27		1.390	1.330	27	
	11211	2+10		1.395	1.280	14	
	11291	2+99		1.520	1.360	29	
	11731	4+95		1.800	1.725	0	
	11871	6+50		1.720	1.665	23	
11/29/00 1:30	11001	0+50		1.370	1.320	22	*Moderate rain overnight & throughout the day. *Flow through cross-culverts is good.
	11111	1+27		1.440	1.380	23	
	11211	2+10		1.410	1.295	19	
	11291	2+99		1.540	1.380	20	
	11731	4+95		1.850	1.775	5	
	11871	6+50		1.670	1.615	23	
12/12/00 10:30	11001	0+50		1.410	1.360	23	*No rain. *Flow through cross-culverts is good.
	11111	1+27		1.480	1.420	17	
	11211	2+10		1.480	1.365	15	
	11291	2+99		1.560	1.400	25	
	11731	4+95		1.830	1.755	0	
	11871	6+50		1.720	1.665	18	

Ditch Monitoring



11231 Granville Ave
Richmond V6V1R7

Jan. 24/01

City of Richmond

Dear Sirs,

Today I Received your letter dated Jan 18 and it indicated that it was delivered by hand. I am to Respond no later than today. I arrived home at 10 PM. Just how does the city expect the Residents to Respond by the end of business on the same date the letter was delivered. Most of us work! Was it intentional to give us NO TIME to Respond! I am not impressed!

Firstly, it made a lot more sense to do both sides of the Road at one time. That would have cost substantially less than spreading it over two different periods.

Further, the Stench from the ditches
are Sickening in the heat of the Summer.

They are a cesspool of filth & I
worry sick that my grandchildren
might fall in.

This is not a third world country & I
find it hard to believe that these
ditches exist in urban areas.

Our Street has been Ripped apart
twice - once for the water mains & then
for the north side ditches to be filled in.
Who makes the decision to make the
project as spread out as possible. Has
no one there heard of Economies of Scale?
If it had all been done at once, it
would have cost the taxpayers less in the
long run. If you think it's clear & dry -
let me see the Mayor's children take a
dip in the ditches.

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Margaret Stuart