DUPLEX SYSTEM IN FAVOR WITH ALDERMEN

Special Meeting Last Night Discussed Water -- Scheme Only Laid Before Board After Opening of Meeting.

that we have been discussing some- latter has not yet been made public. thing all evening that has not been conclusion of the special meeting of ing would not discuss water-there the council last night. "We only re- would be no time. Ald. Davey pointed provements after this meeting opened. peal if the new scheme were decided and have had no chance to look into

This statement was absolutely true, the table and considered. The estimates, dated July 23rd, were posted to the aldermen late on Thurs- there was no seconder to the motion. day, July 26th, with the following let-

Dear Sir:-I beg to enclose herewith low this all the time. Ald. after such time as they have been discussed by the council.

> JAS. L. RAYMUR, Water Commissioner.

The other resports, that of suggested improvements and actual cost of water under present circumstances, were handed to the aldermen after last night's meeting had well started. All these are given in full at the end of this report. With reference to the suggested improvements it is believed they do not meet with the approval of the city engineer, and that he only signed them under pressure from the Mayor.

The air was heavy with potentialiwhen the board of aldermen met to without prejudice: discuss the water question, and receive the hall of the solons was filled with Thetis lake? animal magnetism. The Mayor had (b) At what figure the company will sell and city engineer to be joined in his waste? tered behind him carrying a portentious trators? looking bundle of plans and charts. That the commissioner also ask the When the aldermen started they came water company to state the lowest price gether at 7 cents. triumph, but some of the others were stream to the city: slightly bored. Ald. Fell was the only

absentee, but he came in later on. Two small matters were taken up before the business of the evening. The main? finance committee reported recomfrom buildings and surveys, but no dealt with. vote existed whereby a grant could be given to the Dominion Trades Con-

that part of the money proposed to be should be asked and the new propos- pill and a draft, too. spent was voted for a fire hall in con- als could then be discussed with the

grant to the Dominion Trades Con- them for water. He had made a very want to raise the wages of city em- should go down on its knees to them. ployees. Ald. Goodacre explained the Ald. Vincent stated the figures profinance committee would be glad to see posed could not be considered at all. the grant made if there was money They were quite beyond the city's available. Ald. Stewart suggested the ability to finance. cutting of the proposed grant of \$500 Ald. Yates thought a decision should Goodacre stating that the amount be object of the report just read. In his priation.

Ald. Yates thought it would look small to cut a \$500 note. Ald. Vincent also thought it would look small to take the proposed action, and stated that when the delegation waited on the council it was practically stated that given. Seeing general opinion against him Ald. Stewart with drew his motion. The motion for a

The Mayor stated that three vessels of the United States navy would be in the city for some days, coming back to-night, and he had promised Admiral Goodrich that the city would try and make it pleasant for both officers and crew. He suggested an impromptu regatta in connection with the annual

Water Works Company and the sec- trict at once the water would be short spent at present.

"I want it pointed out in the press | posed appeal in the water case. The Ald. Vincent suggested the appeal be studied at all," said Ald. Hall at the sented saying if it were done the meetceived the suggestions regarding im- out there would be no necessity to apupon. He, therefore, moved that the report on questions to be submitted to the Esquimalt company be taken from

Water Commissioner Raymur, as the cemetery. He stated permission estimates of various schemes for improv- pointed out that people liked to see ing the water supply of the city, and I the graves kept green, although he that you do not make them public until Finally it was left with the water commissioner with power to regulate the sprinkling hours,

Ald. Fullerton also offered the suggestion that sprinkling be stopped during the fires. The water commissioner stated the alarm could not be heard in many parts of the city. This was left in the hands of the water committee. stairs getting the report on questions, arrived with it from the table. It was originally submitted a couple of weeks

Dear Sirs:-Your water committee beg to make the following recommendation: That the water commissioner be instructed to communicate with the Esquities in the council chamber last night malt Waterworks Company, asking them

ago, and reads as follows:

the long promised report. Outside the sell to the corporation of the city of Vic- was being dredged. His Worship, in side. sky was darkened with quick rushing toria the whole of their holdings and unclouds charged with electricity; inside dertakings, both at Goldstream and

parlor thereafter by Ald. Yates and (c) In the event of the water company's others interested in the scheme that is figure being considered too high by the round the intake. proposed to save Victoria from a city, will the company be willing to sub-

threatened water famine. Eight mit to arbitration in the usual way, the and the water commissioner en- purchase, at the price fixed by the arbi- given below cost at 7 cents?

quickly. Ald. Stewart wore a look of at which they will sell water from Gold-1. The company putting down the water main?

2. The city putting down the water

Ald. Davey again moved its adoption mending that \$700 be spent on the elec- saying the questions must be answered tric light station, and appropriated before the matter could be intelligently

Ald. Fullerton moved the report be the prices asked last year, but no one regarding Goldstream were based on When the first clause came up Ald. now. He had been led to believe they but not raising water. Yates objected to its adoption stating were higher this year. The questions

Upon a vote being taken all the The Mayor did not wish his word to aldermen but Yates voted for the ap- be taken, but thought it would be well rates for some of the meters? to give the water company a chance The recommendation regarding the to see the city was not dependent upon gress was rather obscure and Ald. searching investigation of the feeling Davey explained that the finance com- of the directors and from those who. mittee would be glad to assist the con- he expected, the city would get the gress, but could find no special vote best figures, the price would be about from which it could be spared. The \$800,000, or twice what the property Mayor wanted to know if the city was worth. The other directors would would gain anything if a grant were not consider anything less than the given. Ald. Yates thought there was previous figures, and did not want nor danger in the congress as it might care to sell. He did not think the city

into half and making it \$250. He made first be arrived at regarding the Elk this as a motion, and seconded by Ald. lake scheme. He wanted to know the taken from the miscellaneous appro- opinion the present system could be made good enough for some time to come, but may be the scheme outlined His Worship, in reply, said the report

was signed by a trio who had studied the question more than the aldermen. It followed up lines of development at Elk lake, and on top of that came the Highland district scheme. With the exception of the new 30-inch main to Elk lake, the other work had to be done in any event-even if another scheme were adopted. Clauses 1 and 4 were outside such expenditure. If this work was carried out the high levels would not, however, be safe at night, without pumping, until the Highland district water was introduced idea was to meet the present demand for more water without wasting any- and 16-inch pump mains. This would am certain there would be a sufficient thing. He did not think Victoria would for the officers. The matter was left be foolish enough to throw away the time. With the proposed 30-inch main sion of lighting system were then to connect with the 24-inch one in the taken up. Hutchison Bros. offered to city a pressure of 65 pounds, and possupply it at \$410; Hawkins & Haysibly more, could be obtained pretty cleaning the lake; this work is certhree years will have passed and we ward for \$389.75; Hinton Electric Co. giving figures in detail. Ald. Stewart, ent pump relieved of two-thirds of its moved the tender be awarded the low-work. The intention was to use the present stage. No water has overflown with one season's rain, and this might est bidder after Ald. Hall explained the Dairy Farm pump one-third of the within the past two years. I am permaterial was required for erecting time until such time as the Highland sonally satisfied there is plenty of pens in Highland district we will still lamps already authorized. Upon resodistrict supply could be sufficiently water in the Highland district, and we have to use Elk lake with the former lution it was referred to the purchas- developed to serve the higher levels in should not spend money at Elk lake. as an auxiliary. ing agent with instructions as embod- conjunction with the present supply The Goldstream property is, of course, Ald. Hall next got philosophic. He for the lower ones. This would effect the best, but the price is beyond the remarked that whatever was done at Then decks were cleared for action.

The city clerk read the suggestions for detrimental to anything. If a better half we would be paying all it is worth.

The city clerk read the suggestions for detrimental to anything. If a better half we would be paying all it is worth. temporary improvements, and men-system were found later on the present Clearing out is certainly necessary if lower than ever before. If the new big tioned that lying on the table were two supply could be sold for irrigating purreports from the water committee. poses. He did not look for the city to ply. The logs and weeds should have that more water would be taken out desert Elk lake. If there was an at- been cleared out years ago, but no than came in. As business men, there-

Ald. Fullerton thought it would be it be considered well to abandon Elk trict in the 1 useless to spend \$50,000 raising Beaver lake? and Elk lakes when only 300,000 galdistrict this would be wasted.

Worship retorted that raising the building this larger pipe. ank was only a small part of the prohelp build the banks higher. Ald. Fullerton believed in bettering

the distribution, but thought the other ers for irrigation. roposed expenditures premature. The Mayor said this had already been at once. "If we go before the people anything from Millstream or Gold-Mill stream (Highland district) one or two reservoirs would have to be con- good water for two or three years? structed. The idea was to make Elk largely increased by the improvements. Most of the filtering was necessary by the intake being too near the bed of the lake. This would be dredged out and the streams flowing in cleared of logs and vegetable matter. It was also proposed, after cleaning these streams. to lay down beds of gravel over which the water might filter before entering

Ald, Vincent commenced questioning about the proposed wooden main. Had had been given some years ago to al- that been thoroughly thought out. The Mayor said it had been to his satisfac Wooden mains were more economical and able to stand as high a am requested by His Worship the Mayor wished no water should be wasted. pressure and lasted as long as steel

Ald. Vincent, continuing, admitted they were used for irrigation in other places, but not for water works. He thought the installation of meters all over, at a cost of \$51,000, would largely remove the present/shortage. (Water Commissioner: "I think so, too,") The waste would go on and a shortage felt The city clerk, who had been down- if an 110-inch pipe were used. He strongly believed in meters. Not only would owners be more careful about using water, but keep their plumbing

n better shape. Ald. Fell inquired as to whether the water ran over the Elk lake dam last year or the year before. The water commissioner said "None at all"; but by that time and the Elk lake supply the Mayor stated the last two winters were exceptionally dry.

Ald. Vincent then asked where water would be got while Beaver lake four months in the year at the out- meantime the water company were imreply, said it would be done in winter, when the water had settled. Fermentation departed from the bottom by the cil. They were arrived at only after able to say there was none. been for some time in anxious consul- to the city of Victoria the waste water months of the year the lake could be passed upon to-night. end of September, and in the two last tation with the water commissioner below the power house, now running to dredged without much dirt mixing with the water. The great thing was to remove the weeds and sidiment all

Ald. Fullerton pointed out that in the estimated cost submitted Elk lake o'clock came, but the council chamber question of the price to be paid the com- water cost 5 cents per 1,000 gallons, was still empty. The Mayor came pany; the city on its part agreeing to and with improvements between eight along a few minutes afterwards, how- submit to the ratepayers a by-law to and nine. Was not the meter service The Mayor-Metering is the cheapest

of the whole lot, but taking them to-Ald. Davey-Is it intended to meter

The Mayor-As quickly as possible Ald. Vincent-If meters were tried right off I believe they would meet the

Ald. Fell-I believe in meters, but they would not solve the difficulty. The No matter where the water was got rates are too low. People can afford from this should be carried out. One to pay the present rates and waste perfect main from Elk lake was also water. If the rates were raised a required. There were two at presentgrievance in Victoria West would be both botched. The last one was often mittee agreed with this. The estimates removed. There would not only be a called a store pipe and the other went great saving of water, but an increase in many different sizes. If the sugges-

Ald. Yates-That is raising money, The Mayor-Offering the people a nection with the pumping station, and figures now offered by the Esquimalt They run the sprinkler night and day fall. The city engineer produced and only pay \$5 or \$6 per month.

The Mayor-We might raise them to ins.; 98-99, 32.08 ins.; 99-1900, 42-10 ins.; women and not to men.

for a reservoir on the ridge between ten years, 36.47 ins. Then the counci Rockland avenue and St. Charles grew reminiscent. Ald. Fell recalled street. Is any amount included for the time when there was sleighing in To Buy Out Esquimalt Waterworks Co. right-of-way and purchase of site? figures given will cover that. Ald. Hall-Anything for damage to wagon. The Mayor advised the study surrounding property?

e ornamental. The Mayor-I wish-

the cost of an injunction fight? To appease Ald. Fell the water com- Mayor wanted to set Ald. Stewart's missioner went over and showed him mind at rest. The matter taken out by the design for the proposed orna- dredging would assist in raising the mental reservoir. The former remark- dam at Elk lake and clearing round ed: "It might be ornamental in a farm the edges would do away with the

Ald. Stewart questioned the wisdom | bred.

that in any case. any other kind, but the water commis- Fullerton then said: "By that time we sioner, city engineer and myself would be sure what Highland district

that I question the wisdom of such an ed." expenditure at Elk lake at the present | His Worship-The water supply from time. The 30-inch main would be able the Highland district is unknown. It to give us almost double the amount at | will take three years, anyway, to depresent given by the 12-inch gravity devlop enough to supply the city. I mean spending \$95,000 when not so amount of water there to give enough two million gallons at Elk lake at any sides, if we get a vote for the \$300,000 one is certain of the total supply availrequested the people would turn down able. In addition to this, by the time submitted to the Esquimalt tempt made to develop Highland dis-

Ald. Stewart-No, we should keep it | were not rat ons extra could be obtained. If a good for all time to come. But if there are would have to supply were obtainable from Highland five or seven million gallons in High- had conclude land district there is no necessity for ed for to

The Mayor-Certain parts of the city posed expenditure. It covered dredg- have lots of water and others not ing and cleaning round the edges that enough. When we get better distribuwere at present in a disgraceful con- tion there will be an ample supply. If lition. The stuff dredged out would eventually the 30-inch main was not required for the city the water could the facts and be sold at a good profit to fruit grow-

liscussed. A part of the supply would asking to spend \$150,000 on Elk lake at always be taken from Elk lake, and present and afterwards wanted close on another \$500,000 for the Highland stream would add dam on dam. At district I do not think we could get it. he might do The Mayor-Would not people like Ald. Stewart-Yes, we could get the ever, vote for lake the present supply, and add from \$150,000, but not the half million after-Highland district as required. Already wards. I am looking at the financial the city had the greater part of the end. The people would turn down the proposal for a large additional expenditure.

> people think-it is what we know. Ald. Hall-We were told we would have several days to look this matter this unless there was water to fill the over but, although we received one lot | pipes.

on this. City Engineer-It depends on the time spent getting the money before Water Commissioner-It took seven

nonths to lay the 12-inch main. The Mayor-I went into the matter with an authority and he said it can be done in plenty of time. Ald. Hall-That is an evasive answer.

The Mayor-If we get the by-law ssed it will require two months to et the pipe from the old country. Ald, Hall continuing-Why should for two years when we might get 6,- iron was by far the best. 000,000 gallons from Highland district

His Worship-We have no idea of pressing our suggestions on the coun- surplus water applied for, would be close study, and we do not ask they be

use meters. The water is only short

Ald. Hall understood that the city engineer had been opposed in the past asked what was his position on the present proposition.

City Engineer-I am opposed to it, case. but we can get water for next year there and more quickly than any other

Ald. Vincent-It appears to me the proposal is to spend \$145,000 to get 300,- a few things concerning the future of 000 gallons of water extra for four months each of two years. For eight months we have altogether too much giving out his ideas as, it would be

Ald. Fell pointed out there was one part of the suggestions that must be met. Whatever pipe was finally chosen redistribution was an absolute necessity, and should be attended to at once. tion to make one large were adopted it would go very far to- sit every night until the water queswards meeting the requirements at Elk lake as far as carrying water was

figures showing it for ten years, run-Ald. Vincent-Is it proposed to raise ning from August to August-95-96, 32.96 ins.; 96-97, 41.41 ins.; 97-98, 34.91 1900-01, 39.57 ins.; 01-02, 33.22 ins.; 02-03, Ald. Fell-I see there is a proposal 33.08 ins.; 03-04, 38-88 ins.; average for Victoria every other year, sometimes Water Commissioner-I think the for five or six weeks, and told how he had finally to sell his sleigh for a coal of English weather and Ald. Yates Mr. Raymur-The reservoirs would pointed out that this year cricket matches had been postponed on account of the rain. Water Commissioner (Ald. Fell-This is not your put in. I Raymur closed the symposium by menwas talking to the water commission- tioning that one July there was precier). (To Mr. Raymur). What about pitation of 9.1 inches in London,

Getting down to business again the shallows where vegetable matter was

of the whole report. It proposed a Ald. Fullerton asked what was the wooden main from the lake to the city latest date on which the data asked at a cost of \$95,000. He objected to for by clause 5 could be obtained. The Mayor said at the end of the rainy The Mayor-There is no objection to season; probably April or May. Ald. thought the wooden one most econo- can produce, and it would be foolish to force a by-law spending \$145,000 know-Ald. Stewart-My chief objection is ing these particulars could be obtain-

and gave suggestions as to the pro- next year, unless improvements were His Worship-If the Highland dis- it advisable to spend less money at Elk

voters would that if the pe

money they will do? Ald. Hall-L Ald. Stewart-The water is wanted redistribution His Worshie get water if y scheme sugge Ald. Hall w would do. He

less all the w Ald. Yates did not think the Highland district scheme could be completed for three years and wanted some His Worship-I do not mind what water in the meantime. It was necessary to have the distribution service supplemented, but it was useless to do

Ald. Goodacre broke through his an entirely different nature is put in usual silence and expressed himself a front of us to-night. I consider this great believer in Elk lake. For years there had been talk, he said, of its dryection to it is that if the by-law ask- ing up, but it had not done so yet. An ed for is passed we would whistle for engineer named Summerfield had preyears for another one. Even if the by- dicted sixteen years ago that the sup law passes I question whether we can ply would dry up in fifteen years, but get water in time for next year. I it was nothing like the case. The old should like the city engineer's opinion | road was level with the lake before the banks were raised but after raising there was still enough water sometimes to overflow into the roadway.

Ald. Hall gave an instance of pollut ing the supply. He said he had heard of a party who had washed a drove of hogs in Elk lake and also that people drove cattle through the water. mayor admitted things of this kind

were done. There was quite a discussion as the type of pipe to be used. The mayor strongly supported wood, some of the aldermen were for steel, but all agreed we spend \$150,000 improving Elk lake that if the expense could be met cast And then the question of appea

came up. Ald. Yates thought it was be unnecessary. The best method of being lost sight of. If the city were getting temporary relief would be to proved to have the rights contended it would be a most valuable asset. In the proving weak spots in their case and probably, when the city wanted the

first decide on improving Elk lake, There was 23 days in which to perfec the appeal and the matter could lay to spending money at Elk lake, and over for a short time. Ald. Yates sthought, however, the lawyers should have enough time to prepare the city's

Ald. Douglas broke his silence of the evening when everyone else was about through. He said he had listened very carefully to the discussion and knew the city, but did not intend to disclose them in public. He did not believe in throwing away valuable cards. This mysterious communication was his sole contribution to the debate.

Ald. Davey's motion, propsed at the opening of the discussion, was then After Ald. Fullerton had taken up. registered his unalterable hostility to buying water from the Esquimalt Company, under any consideration, it was decided to ask the company ene questions suggested by the water committee after eliminating anything dealing with the purchase of water.

His Worship wanted the o tion was disposed of. This was met Tunnel between Lost lake and with a storm of disapproval, all the aldermen saying they wanted time to High level tank and connecconsider the suggestion brought to their notice for the first time last 17,000 feet 30-inch wood stave

night. It was decided to hold a meeting on 25,000 feet 24-inch steel pipe 125,000 00

Thursday at 8 p.m., to further consider Distribution water and the council adjourned about | Incidentals, surveys, etc. ESTIMATES OF VARIOUS SCHEMES. Estimate as Per Mr. Adams' Report. 55,800 feet 24-inch steel pipe, from Goldstream to Victoria Arm, opposite Henry street .. 600 feet 24-inch submerged pipe, across Victoria Arm 24-inch steel pipe from end of submerged pipe to proposed reservoir .

Right of way Reservoir on Smith's Hill ... Elevated tank for high levels. Electric pump for above 3,000 feet 27-inch steel pipe from reservoir to corner of Hillside avenue and Cook street . 4.000 feet 24-inch steel pipe from corner Cook street and Hillside avenue to corner Douglas street and Hillside Surveys, incidentals, etc Not Included in Report Connecting reservoir and high level tank Distribution-5,700 feet 10-inch C. I.

pipe dug up and re-13,500 feet 8-inch wood .. 10,400 00 2,000 feet 8-inch C. I. 8,650 feet 6-inch C. I. 49.000 feet 6-inch wood 20,000 feet 4-inch C. I. pipe dug up and re-7,500 00 70,000 feet 4-inch wood Improvements toria West (estimat-_\$ 134,910 00

by Esquimalt Waterworks Interest on \$2,009,410 00 at 4 per cent \$80,376 00 Annual payment to

ost had Estimated mainten-Goldstream if taxes and Victoria West.. 6,000 00 Estimated Goldstream 321,000 00 Estimated revenue, Victoria West t of the Present cost filters and pumping stafor the tions 12,000 00 Total amount to provide annually \$ 56,537 00 opose to ESTIMATE B. To Buy Out Esquimalt Waterworks Co. Distribution to Be Direct from Main, to say, Eliminating Reservoir. bluow h Diverting works at Goldstream.\$, 38,000 00 22.600 feet 30-inch wood stave pipe essary was ob-33,800 feet 24-inch steel pipe to Victoria Arm, opposite Henry across Victoria Arm 12,000 feet 20-inch steel pipe from end of submerged main

on Henry street to corner of Edmonton road and Richmond Distribution 6,200 feet 12-inch wood 5 700 feet 10-inch C. L. pipe dug up and re-13,500 feet 8-inch wood 10,400 00 2,000 feet 8-inch C. I. 8,650 feet 6-inch C. I. 49,000 feet 6-inch wood pipe 29,700 00 20,000 feet 4-inch C, I. pipe dug up and repipe

Improvements in Victoria West (estimat-Right of way, incidentals, etc.. 39,090 00 Price asked for entire holdings

by Esquimalt Waterworks Co. 1,271,000 00 Total estimate Interest on \$1,821,000 00. at 4 per cent.\$72,840 00 Annual payment to sinking fund ... Estimated mainten-Goldstream and Victoria West., 6,000 00

Estimated revenue, Goldstream \$21,000 00 revenue, Victoria, West 10,000 00 Present cost filters and pumping stanually\$ 47,767

ESTIMATE C. Dams at Lost lake and Lavender's swamp ... Cleaning Lost lake and Lavender's swamp ... Clearing course of Millstream. Moving road ... Land and compensation ... Right of way for pipe line and clearing Reservoirs in upper part of val-

Lavender's swamp pipe ...

Total estimate Interest on \$490,000 00

at 4 per cent \$19.600 00 Annual payment to sinking fund 3.210 00 \$22,810 00 Present area Lost lake 9.46 acres Area of Lost lake when raised 26.21 acres 25 feet Elevation of Lost lake 337 feet 12,000 00 Elevation of Lost lake when raised Area of Lavender's swamp.... 8.92 acres 33,800 00 Area of Lavender's swamp 1 son no when raised 25 feet 99,000 00 | Elevation of Lavender's swamp when raised ESTIMATE D. Elk Lake Improvements. Mr. Adams Recommendations.

Raising level of lake to secure

3.5 feet extra water\$ 16,000 00 9,350 feet 24-inch steel main

from filter beds to Nicholson's road 37,700 00 New pump at North Dairy sta-Reservoir on Smith's Hill 99,000 00 20,000 00 Elevated tank for high levels.. 12,500 00 Electric pump for above 3,000 feet 27-inch steel pipe from reservoir to corner of Cook street and Hillside avenue .. 16,200 00 To Buy Water From Esquimalt Water 1,000 feet 24-inch steel pipe from corner of Cook street and Hillside avenue to the corner of Douglas street and Hillside avenue 8,400 meters in place 51,000 00 Gates and special castings Incidentals, engineering, etc. .. Not Included in Report. Connecting reservoir and high level tank .. \$20,000 00 Cleaning lake and build-

ing gravel dam around intake 25,000 00 Enlarging filters and reservoir 25,000 00 Distribution 20,900 feet 12-inch wood pipe \$31,250 00 13,500 feet 8-inch wood 2,000 feet 8-inch C. I. 8,650 feet 6-inch C. I.

pipe

20,000 feet 4-inch C. I.

pipe dug up and re-70,000 feet 4-inch wood pipe 27,000 90 12-inch pipe to connect with Victoria West Total estimate Interest on \$510,160 00 at 4 per cent.\$20,406 00 Annual payment to sinking fund 3,375 00 Less estimated saving in pumping expenses, as per Mr Adams' report, page 3,000 00 Total amount to provide annually 20,781 ESTIMATE E. Elk Lake Improvements 25,000 feet 30-inch wood stave pipe from filter beds to end of present 24-inch main\$ 95,000 New pumping station at Beaver lake Raising level of lake to obtain

meters, \$51,000. However uniformity, the latter iso included in the Elk increasing the caps 3.5 feet extra water Cleaning lake and building lake, and building a gravel dam around intake ... the intake. In all Enlarging filters and reservoir .. scheme of distribution ame, wooden pipe is to practicable, so as to Connecting high level tank with cast iron is used, ther present pumping line have to be added to Twelve-inch pipes are 12-inch pipe to connect with Victhe corner of Douglas nue to the corner Digging up and relayand Richmond road, t ing 20,900 feet 12avenue, and on Oak inch C. I. pipe\$20,000 00 Foul Bay road to the Burdette avenue from 13,500 feet 8-inch wood way to Menzies, and 2,000 feet 8-inch C. I. 2.860 00 Belleville to Simcoe 8,650 feet 6-inch C. I. and on Rockland aver 49,000 feet 6-inch wood 4-inch pipe for the ba on the one for buying Commalt Waterworks pipe dug up and revices to be metered. laid ... 70,000 feet 4-inch wood water coming from the Arm, a 20-inch pipe is foot of Henry street to monton road and Rich Surveys, incidentals, etc. 11,230 em of distribution to

Total estimate

Interest on \$400,000 00

Annual payment to

Less estimated saving

in pumping expenses,

as per Mr. Adams

To be provided an-

at 4 per cent.\$16,000 00

sinking fund 2.620 00

report, page 56 3,000 00

New Pumping Station, Beaver

etc. 12,000 00

Reservoir to End of Present 24-

pipe 38,500 00

3.5 feet extra water

Cleaning lake and building

gravel dam around intake

.400 meters in place

C. I. pipe\$ 7,000 00

pipe 20,850 00

iron pipe 2,860 00

pipe 27,000 00

12-inch pipe to conect with Vic-

Incidentals, surveys, right of

way, etc.

at 4 per cent.\$21,600 00

sinking fund 3,535 00

ing in pumping 3,000 00

nually\$22,135 00

ESTIMATE G.

works Co.

pipe\$ 100,000

33,800 feet 24-inch steel pipe 185,000

Total estimate \$ 540,000 00

... 8,950 00

Enlarging filters and reservoir. 25,000 0

Blasting, 60,000 cubic

Rubble masonry, 60,000

13,000 feet 30-inch steel

7.000 feet 24-inch steel

20,000 00 Raising level of lake to obtain

Digging up and relay-

ing 7,000 feet 12-inch

13,900 feet 12-inch wood

13,500 feet 8-inch wood

2,000 feet 8-inch cast

8,650 feet 6-inch cast

49,000 feet 6-inch wood

20,000 feet 4-inch cast

iron pipe dug up and

70,000 feet 4-inch wood

Interest on \$540,000 00

Annual payment to

Less estimated sav-

To be provided an-

22,000 feet 30-inch wood stave

across Victoria Arm to Henry

from Henry street to corner of

Edmonton road and Richmond

road

pipe 10,400 00

3,400 meters in place 51,000

... \$20,000 00

.... 2.860 00

19,200 00 600 feet 24-inch submerged pipe

43,000 00 12,000 feet 20-inch steel pipe

Distribution-

pipe

street

12,000 feet 12-inch wood

13,500 feet 8-inch wood

2,000 feet 8-inch C. I.

8,650 feet 6-inch C. I.

49,000 feet 6-inch wood

20,000 feet 4-inch C. I.

pipe dug up and re-

10.000 feet 4-inch wood

pipe 27,800 00

iron pipe

relaid

toria West

Site, gate house, valves,

vards at 80c

inch Main-

lake

at \$5

68,000 00 Distribution-

75,000 00

nually\$15,620 00

ESTIMATE F.

Elk Lake Improvements. Bald Hill

5,300 feet 16-inch steel pipe 15,900

Reservoir.

....\$48,000 00

already mentioned. Estimate This is to buy out th of the Esquimalt Water at the price mentioned August 16th, 1905, an water to a reservoir on pump thence to high leaving Seaview and the Work estate and plied, unless a second tion is resorted to. Mr have been followed thro

Interest on \$511,000 00

at 4 per cent. ...

annual payment to

ter at present con

lion gallons per day

at 31/2c. per 2M. gal

Less present pump

Minimum amount to

be provided an-

Remarks on Estim

The figures used are

taken from Mr. Adams'

in two cases he has no

the Elk lake sys

overestimate, namely,

ing and filtering

sinking fund ..

This is the same as mate, only it is propos water direct from the n instead of through a re means of pressure gauges pressure that it will no the lower parts of the o

To exploit an entirely supply, and obtain water district, by impounding Millstream, and bringin means of a 30-inch the present 24-inch street. Lost lake and l will be utilized as reserve bined capacity of appro gallons: other reserve have to be built furth

Mr. Adams' proposal is from the entire system Smith's Hill at an elev thence with a second ply the high levels. inch main is to be dug u distribution system, all pass through the pre pumping station, and be the present 16-inch main lake to Nicholson's road to a 24-inch, and the new pump to be place Dairy station alongside No provision is made f view and other portion and Oaklands, except b which will necessitate run continuously, instea the day, as outlined in there are a number of 12-inch main, Mr. Adan tion has been altered so pipe intact, buying wha necessary for distribut

Estimate I This contemplates la wood stave pipe from t the end of the present 2 ging up the 12-inch and distribution, eliminating Adams, placing an elevat city of 100,000 gallons on Rockland avenue and St using the new pumping lake to fill it, the Yates be kept as a reserve. station to be built at Be pump to be installed a North Dairy pump to lake and used as a res ing station to be used gravity flow when req high level tanks. Estimate !

To build a reservoir of Bald IIIII (elevation 475 f the northwest corner of district, near the north Broadmead farm. This be approximately 300x300 hold 12,375,000 gallons, days' supply in summe supply in winter. The pumped by a station a hrough a pipe line 5,300 and a 30-inch steel pip reservoir to where it w present 12-inch, interse en route and a 24-inch t present 24-inch. This v whole city by gravity water at least 100 feet point in the city. Mr. Ac rove of this scheme of distance from the town out no second pumping ed, and every portion of be supplied by gravity.

Estimate This estimate is based from the Esquimalt Wa