

165-0-5

INDIAN COMMISSIONER  
BRITISH COLUMBIA



CANADA  
DEPARTMENT  
OF  
MINES AND RESOURCES

INDIAN AFFAIRS  
BRANCH

IN YOUR REPLY REFER TO  
NO 7-11-4  
ALSO TO DATE OF THIS LETTER

P.O. BOX 70  
VANCOUVER, B.C. October 23, 1946

AIRMAIL

EX'D.  
A.

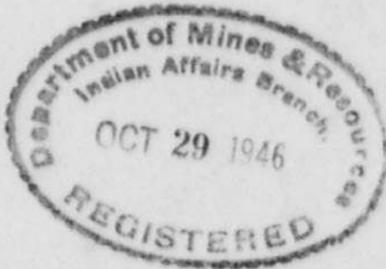
Indian Affairs Branch, Dept. of Mines & Resources,  
Ottawa.

I have received from the Surveys and Engineering Branch a copy of Mr. A. Unsworth's report dated September 11th in connection with the domestic water supply for St. Georges Indian Residential School. This report, a copy of which you have no doubt received, indicates that the condition of the present supply system is far from satisfactory and as it will not likely be possible to have the work carried out this year I would recommend that an amount of \$1,930 be provided in the 1947-48 estimates for this work in accordance with Mr. Unsworth's report.

These estimates have already gone forward to the Department but if this suggestion is approved a note will be made on the copies retained at this office.

D. M. MacKay,  
Indian Commissioner for B.C.

-mh



Indian Affairs (RG 10 Volume 6465, file 888-5, part 5)

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BRITISH COLUMBIA



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DEPARTMENT  
OF  
MINES AND RESOURCES

IN YOUR REPLY REFER TO  
NO 7-11-4  
ALSO TO DATE OF THIS LETTER

*W.K.*

P.O. BOX 70  
VANCOUVER, B.C. November 28/46

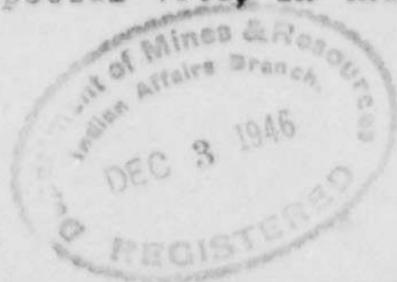
Indian Affairs Branch, Dept. of Mines & Resources,  
Ottawa.

I am in receipt of a communication from Reverend C.F. Hives, Principal of the St. George's Indian Residential School advising that the twelve sewing machines at the school require a complete overhaul, and suggesting that they all be shipped to Vancouver for this purpose. I have contacted the Singer Sewing Machine Company who are prepared to undertake the work, but are not, of course, in a position to give even an estimate of the cost.

Mr. Hives, in his letter, does not indicate that he would be prepared to meet the cost of the work from school funds and before taking any action in the matter it would be appreciated if you would advise if the Department has funds available from appropriation for this purpose.

I may say that four of the machines are tailor Singers which are used to a large extent in repairing and remodelling clothing for the children, but the other eight machines are household Singers and are used for instructional purposes, and the cost of the repairs might be met from the technical education division of the B.C. Special Vote, in the latter case.

-mh



*D. M. Mackay*

D. M. Mackay,  
Indian Commissioner for BC

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165-0-5 (W.T. 1)

Ottawa, 4 December 1946.

*E.B.D.*  
Major D.M. MacKay, Indian Commissioner,  
P.O. Box 70, Vancouver, B.C.

With reference to your letter of  
the 23th ultimo, it is felt that the cost of  
repairing the sewing machines should be paid by  
the Reverend Mr. Hives from school funds.

*[Handwritten initials]*

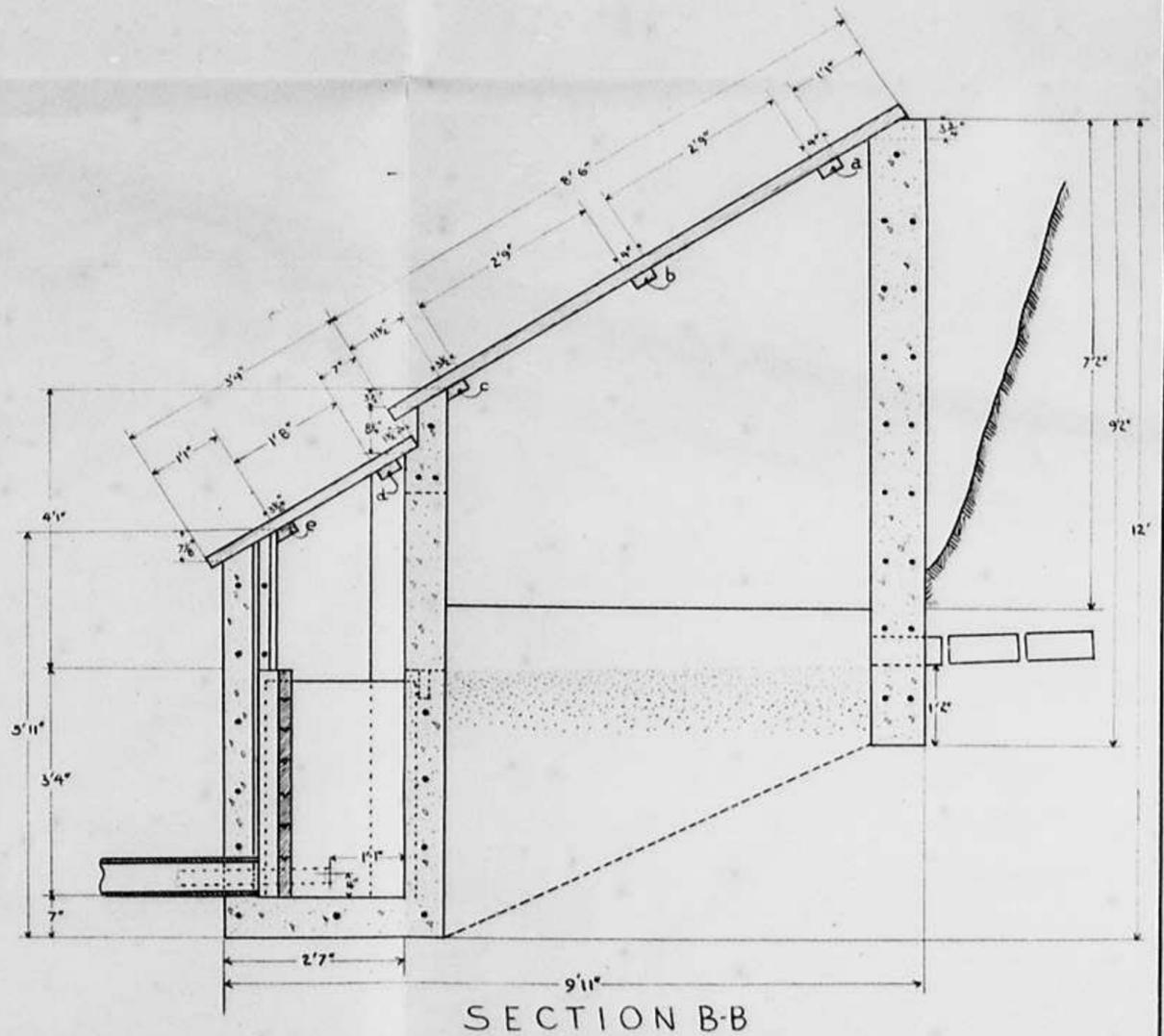
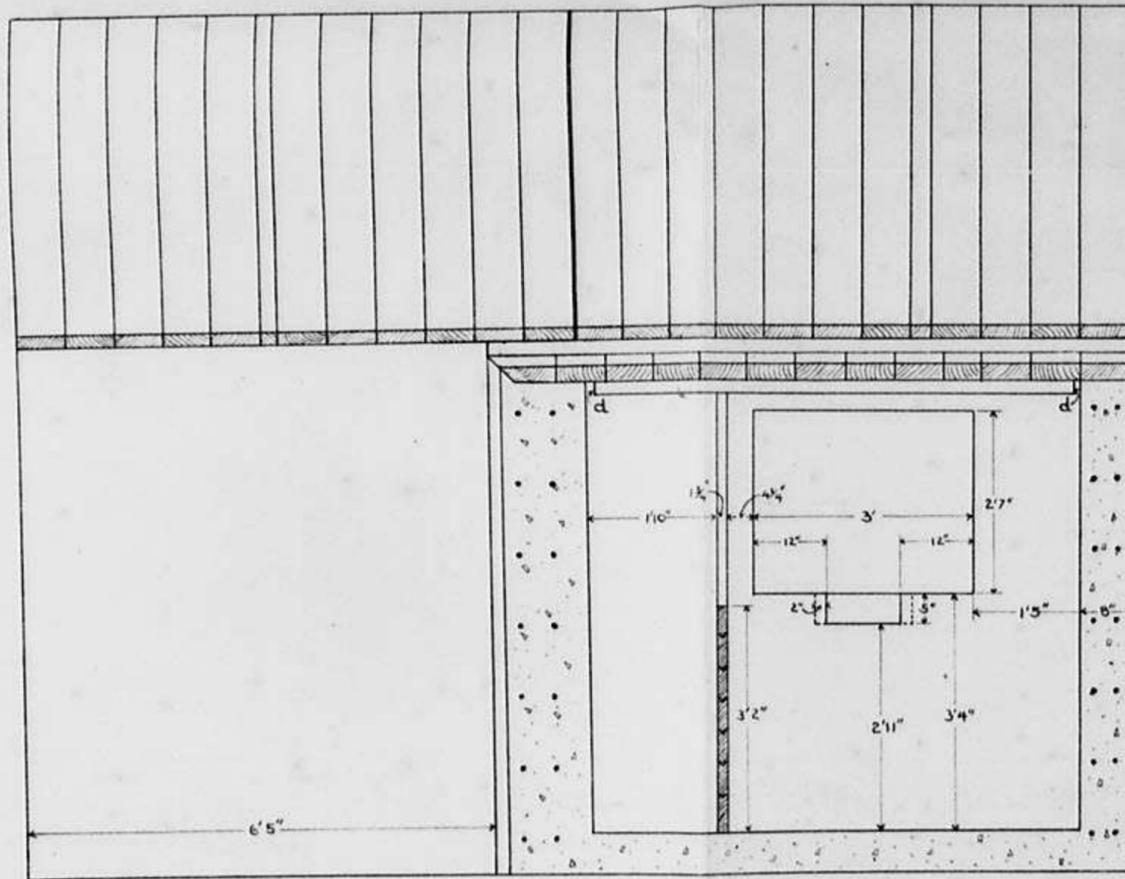
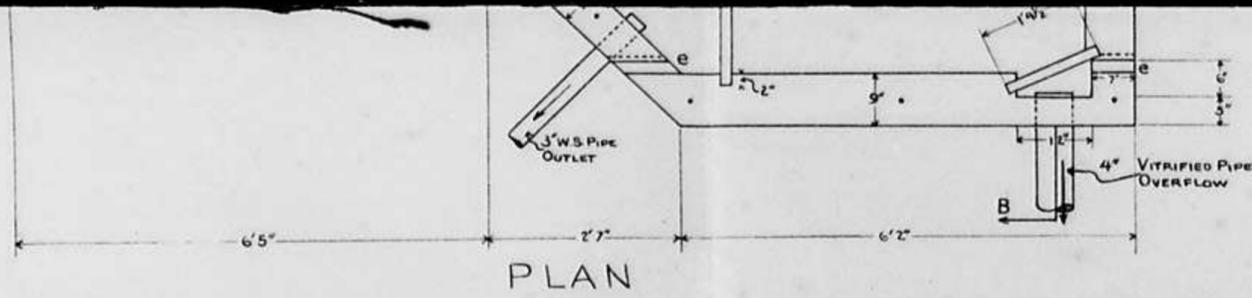
*[Handwritten signature]*  
Bernard F. Neary,  
Supt. of Welfare & Training.

Indian Affairs (RG 10 Volume 6465, file 888-5, part 5)

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*POOR-COPY*





2 of 2

DEPARTMENT OF MINES AND RESOURCES - SURVEYS AND ENGINEERING BRANCH DOMINION WATER AND POWER BUREAU VANCOUVER, B. C.		
Surveys A.U.	<b>SKETCH 3.</b> <b>INTAKE AT SPRING E 2.</b> <b>ST. GEORGES'</b> <b>INDIAN RESIDENTIAL SCHOOL</b> <b>LYTTON B.C.</b>	Report No. 813
Plan A.U.		Corres. file 24700
Checked		Date July 31 <sup>st</sup> 1946
Traced P.M.H.		Scale
Approved <i>[Signature]</i>		1" = 20"
District Chief Engineer		PLAN No. 173

1 of



SPRINGS

E.3.

E.1.

INTAKE DAM

IRRIGATION DITCH  
overflow from dam & reservoir to

LYTTON I.R. N° 21.

RESERVOIR

LOT. 12.

FRASER

LILLOETT

LYTTON I.R.N° 21.

RESERVOIR  
PROPOSED VALVE  
e  
f

LOT. 12.

FRASER RIVER

FARM

LILLOETT HIGHWAY  
NOLLA

LOT. 11.

SCHOOL

HYDRANTS

2 of 2

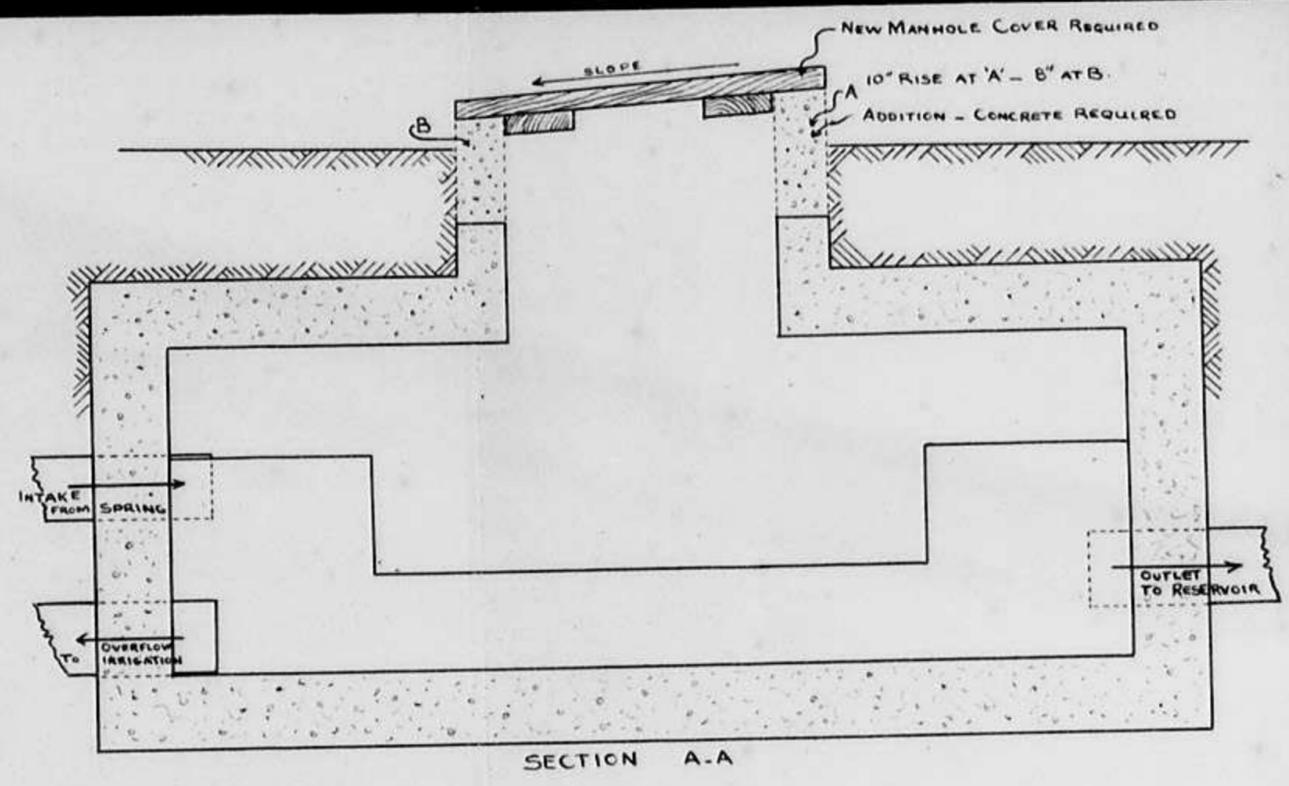
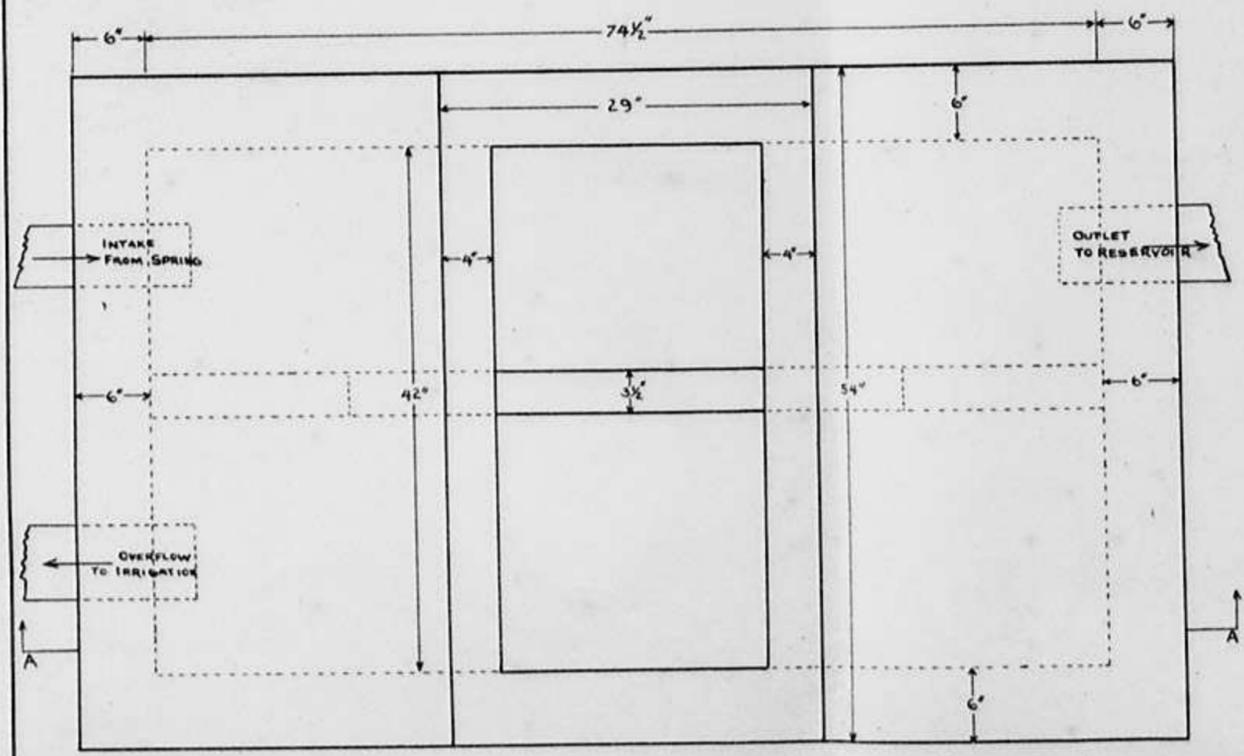
DEPARTMENT OF MINES AND RESOURCES SURVEYS AND ENGINEERING BRANCH  
 DOMINION WATER AND POWER BUREAU  
 VANCOUVER, B. C.

**SKETCH 2.**

GENERAL SKETCH PLAN  
 DOMESTIC WATER SUPPLY  
 ST. GEORGES' INDIAN RESIDENTIAL SCHOOL  
 LYTTON, B.C.

Report No. 813  
 Corres. file 24708  
 Date JULY 26<sup>th</sup> 1946  
 Scale 1" = 160'  
 (Approx)  
 PLAN No. 173

Surveys A.U.  
 Plan A.U.  
 Checked  
 Tracer P.W.B.  
 Approved *[Signature]*  
 Chief Engineer



DEPARTMENT OF MINES AND RESOURCES - SURVEYS AND ENGINEERING BRANCH  
 DOMINION WATER AND POWER BUREAU  
 VANCOUVER, B. C.

SKETCH I.  
 OVERFLOW CHAMBER  
 ST. GEORGES' INDIAN RESIDENTIAL SCHOOL  
 LYTTON B.C.

Report No. 813  
 Corres. file 2470B  
 Date July 29<sup>TH</sup> 1946  
 Scale 1" = 10"  
 PLAN No. 173

Surveys A.U.  
 Plan A.U.  
 Checked  
 Traced P.M.R.  
 Approved  
 District Chief Engineer

Indian Affairs (RG 10 Volume 6465, file 888-5, part 5)

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A P P E N D I X

Cost for Water Collecting Box.

	<u>Labour</u>	<u>Material</u>
18 cu. yds. gravel	\$48.60	
98 sack cement @ \$1.25		\$ 122.50
2680 f.b.m. Lumber for forms & covers as follows		110.00
1450 f.b.m. shiplap #1 common fir @ \$40/m		
723 f.b.m. 2" x 4" #1 common fir @ \$40/m		
42 planks - 9' long		
2" (or better) x 8" rough cedar #1 common		
@ \$45/m for covers		
Labor on forms and steel, etc.	40.35	
Mixing concrete by hand	155.50	
Steel 840' - 1/2" DIA @ 7¢/ft.      \$41.20		46.80
212' - 3/8" DIA @ 7¢/ft.      5.60		
Sewer pipe, agricultural tiles		5.70
Nails, wire, creosote		9.35

Pipe Line

1100' ft. of 3" - 100' Head.-Press Creosoted Double paper wrapped wood stave pipe @ 50¢ per ft. and freight to Lytton & trucking to school		605.00
45 lineal ft. Tongue & Groove 2" x 6" #1 clear press creosoted		
1 - 5" to 3" reducer      \$4.50 + 8¢		
Labor for trench 3-6" deep @ 35¢ ft. 1100' long = \$385.00		
Labor for laying pipe @ 4¢ ft.		44.00

Fencing

Labor for clearing and fencing	\$ 25.40	
Wire fencing, posts & hinges		55.20
Labor for gates, covers & on overflow chamber	18.60	
TOTAL	\$717.45	\$954.55
		1672.00
Supervision and Contingencies 15%		258.00
TOTAL		\$ 1930.00

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(g) (Cont'd) school at food locker room. Here it branches into 2 - 2" iron pipes; one for fire line under full pressure of 74 pounds per square inch, the other through reduction valve to 54 pounds per square inch for domestic use.

In regard to Item 1 - condition of 6" pipe line. Three lengths of pipe have been replaced in the past two years, and the wood in these was apparently quite poor. However, a careful examination of the growth along the pipe line would indicate no further leaks. A check was made of the pipe in one place and the wood fibre and wire binding were still in good condition. According to the manufacturers (Canadian Wood Pipe and Tank Company) a pipe line like this could be expected to last 25 to 30 years, or a further five to ten years. However, they pointed out that the odd stave may rot and leak, and hence require replacement of such a length from time to time.

Recommendation

In regard to Item 1, pipe line from reservoir to school, it is recommended that the pipe line be left as it is, a yearly check be made for signs of leaks and 25 feet of 6" double wrapped wood stave pipe be kept on hand at the school, together with instructions on how to replace pipe. This pipe would be in the following lengths: one each of 3, 4, 5, 6, and 7 feet, which combination will replace any length from 3 to 18 feet.

Cost of pipe, plus couplings, plus four split couplings would be \$40. delivered to school. Labour

for such emergency replacement would have to be obtained by the school authorities.

In regard to Items 2 and 3 - sanitary and silting conditions. There are three springs shown on sketch 2 as E1, E2, and E3. These springs are shown as E on exhibit A Water Rights sketch with Final Licence No. 3140, order No. 2506. The water from these springs flows through a steep ravine heavily wooded with poplar, alder, willow, briars, and underbrush. The soil is a light clay and silt.

The flow from each spring is as follows:

E1 - 1" over 90° V-notch weir full contraction -  
1.96 gpm = .0052 cfs.

E2 - 2 9/16" over 6" rectangular weir full contraction  
= .16 cfs.

E3 - about 1 1/2 times E1 by estimate = .008 cfs.

Sanitary conditions at E2 are not good, especially when the water supply is for some 200 people. One hundred square feet of ground has been cleared close to the spring, and is used by an Indian family resident on the property, for laundry and bathing area. Water is heated over a small grate beside the stream. The used water is then turned out beside and into the stream.

On July 13, Mr. Hives, Principal of the School, told the son of this Indian (a man about 21 years) the importance of keeping the water supply clean. The man replied that he did not know that such was harmful as he was under the impression that the school had a purifier. However, he said he would keep the water supply clean. There was no change

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in the next few days, and Mr. Indian Agent Strang saw the conditions of this spring on July 18. He will endeavour to arrange that this area be kept clean.

Spring E1 is 46 feet north of E2, and was untouched by man.

Spring E3 is about 200 feet south of E2, and part of the flow has been diverted to a drinking trough for animals.

Sometimes the tail water from irrigation flows into the ravine above the present intake; such was the case on early morning of July 17, causing the water to be very muddy.

The dam at 'c' is fenced, keeping animals away, but it is accessible to man, and is often used as a source of supply for passing motorists and sometimes campers. I am told that in winter when other sources of water fail, local families get their water supply here.

The dam 'c' silts up quickly and must be cleaned at least once a week. Even though this is done, much silt collects in the reservoir and pipe lines, scoring valves and discoloring water. The reservoir is cleaned once a year. The water is drained through the pipe line to the school, leaving four or five inches of water in the reservoir. The silt is removed by buckets lifted through the manhole. Since water remains in the reservoir it is difficult to do a good job of cleaning.

On July 18 at 3 p.m. a standard sample of

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-5-

water was taken from a faucet in the school and another one taken at the spring E2. These were delivered to the Provincial Board of Health, Vancouver, on afternoon of July 19. The results of the tests were as follows:-

<u>Specimen</u>	<u>Coli-Aerogenes Test</u>		
	0.1cc.	1 cc.	10 cc.
No. 1 Faucet	0/2	3/5	5/5
No. 2 Spring (source of water)	0/2	0/5	1/5

These tests would indicate that the water at the spring is clean, but is contaminated by the time it reaches the school. From the foregoing observations of conditions along the line of flow, the contamination could be from man.

Recommendation

To improve existing conditions I would suggest that the total flow from spring E2 be collected by works shown on Sketch 3 and piped directly to the overflow chamber 'e' of the reservoir. The spring and adjoining land should be fenced, and to cover the riparian rights and good-will of the Indian occupant, conditions at E3 should be improved so as to collect more of the flow of this spring for his use. Water licence No. 3140 will have to be modified to cover new point of diversion and arrangements made to permit the fencing of the area around the spring. The reservoir area should be fenced and the overflow chamber be improved and provided with a new cover as a protection from contamination by animals or man.

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The direct pipe line from spring to reservoir should not only insure clean water, but should eliminate the necessity of cleaning the reservoir annually.

The estimated cost to install a suitable water collecting box; 3" wood stave pipe line to connect with the present pipe line at dam 'c'; to improve the overflow chamber 'e'; to raise the reservoir and spring B2 areas and improve connections at spring B3 is \$1,930.00.

Local Indian labour can be obtained, but in addition it would be desirable to have at least one white man from the school. The work can be done anytime the ground is free of frost - March 15 to October 1. Suitable gravel for concrete work can be obtained within 5 miles, and material can be delivered to site by truck or wagon.

It should be noted that the proposed 3" pipe line connects with the present 5" pipe line 'd' near dam 'c'. This 5" pipe line 'd' has been in use for 20 years and has a probable further life of 5 years. When replacement is necessary the 3" main should be continued to the overflow chamber and then to the reservoir.

The gate valve now installed at the intake dam site should be moved to the pipe line between the overflow chamber and the reservoir.

*A. Unsworth*  
A. UNSWORTH

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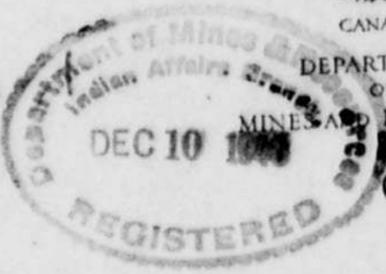
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OFFICE OF THE DIRECTOR

*[Handwritten signature]*



CANADA  
DEPARTMENT OF  
MINES AND RESOURCES

SURVEYS AND  
ENGINEERING BRANCH

Ottawa, December 2, 1946.

Mr. Hoey.

Re: St. George's Indian Residential School, Lytton, British Columbia.

In reply to your memorandum of May 30th, 1946, requesting a report on certain works at the above mentioned school, a report in connection with the domestic water supply has been submitted by the Engineering and Construction Service, a copy of which is attached. The recommendations contained therein are concurred in. It will be noted that the cost of the proposed work is \$1930.

At the time Mr. Unsworth visited the school to investigate the water supply he also made a very extensive report on the domestic water supply system within the school, apparently at the request of the Indian Commissioner.

From a report of Mr. Unsworth dated September 12th and from subsequent data, analysis shows that the failure of the domestic water supply system is due mainly to two causes; firstly, the evident lack of a full appreciation of the hot water requirements in a building of this kind; and secondly, trouble caused by untreated water, which has resulted in a rapid deterioration of equipment by scaling.

*webb*

It is pointed out that several methods of heating water have been tried and all have failed for varying reasons. After a full consideration of the requirements and taking into account existing equipment which could be used to better advantage, it is recommended that the following operations be carried out:

- (a) Provide water softening equipment, of an approved design, which will neutralize the effect of hard water.
- (b) Provide new indirect steam fed heater of tube and shell design and connect to present heating boilers, in a method to be outlined later.
- (c) Clean existing storage tank; remove existing

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submerged coil, and examine present temperature regulating valve. If same is found to be unsatisfactory, and unequal to the work required, remove and replace with new valve of proper capacity.

- (d) Disconnect high pressure boiler from domestic hot water service.
- (e) Make necessary piping revisions, as may be required, to carry out the above work.

The estimated cost of the above operations at this time can only be approximated as conditions discovered when work is actually undertaken may reveal the necessity for additional operations. However, an amount of not less than \$4,500.00 should be available at the outset.

It should be mentioned that Mr. Unsworth has strongly recommended water softening equipment and has gone into considerable detail regarding capacities and performances. We concur fully with him regarding the urgent need of this equipment.

If you wish to proceed with the installation as outlined above, plans and specifications can be prepared by our Engineering and Construction Service. Your further advice in this regard is awaited.

We have been unable as yet to have a report prepared on the irrigation system, but as soon as one is available you will be advised.

*J. M. Wardle, P.*

Director.

Enc.

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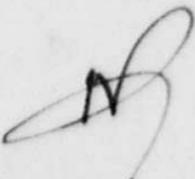
Ottawa, 14 December 1946.

~~E.D.~~

Major D.M. MacKay, Indian Commissioner,  
P.O. Box 70, Vancouver, B.C.

With reference to your letter of May 14, 1946 in connection with repairs and improvements at St. George's Indian Residential School, I enclose for your information a copy of the memorandum received from the Surveys and Engineering Branch. I understand that you can obtain a copy of Mr. Unsworth's report from Mr. Webb's office.

When you have had an opportunity of studying the report and memorandum, I would appreciate having your comments.

  
Bernard F. Neary,  
Supt. of Welfare & Training.

Indian Affairs (RG 10 Volume 6465, file 888-5, part 5)

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Rev. Canon C. F. Hives  
Principal

Dec. II, 1946

Lytton, B. C.

Dear Major MacKay:

I have your letter of the 10th. inst., relative to Singer Sewing machines. This I have read over very carefully, and feel very disappointed with the decision made by the Department. I am finding it daily increasingly difficult to meet even ordinary financial obligations connected with the administration of this institution. In fact, unless prices subside, or the maintenance grant increased, I cannot see how we can continue to function. It might be possible to find someone with more business ability, or someone less conscientious to administer under the present financial arrangement; but I doubt if you'll find one more sincere in endeavour, or one who works harder at his job.

The machines were bought by the Department some years ago. During the war years, five of which I have seen here at St. George's, our slogan has been to economize as much as possible; always living in hopes that at the end of the war, proper adjustments would be made as a reward for doing our best during those difficult times. These machines are used by classes of girls as part of their domestic training. These classes of girls make all dresses and garments for 100 girls enrolled in the school. We have no auxiliary to send us bales of clothing or goods to help us out. This is a Department school. Its equipment and its maintenance, is, or should be, I would think, the responsibility of the Department.

Believe me, sir, this is not, by any means an easy letter to write; and I certainly would not attempt it, were I not quite certain of my duty and also of the justification for doing so.

I have to say, therefore, that our finances do not permit of my sending in the machines

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to Vancouver to have the extensive and necessary  
repairs required in order to put them in first class  
condition.

Yours faithfully.

*Chas F Hives*

Principal.

Major D. M. MacKay,  
Commissioner of Indians for B.C.,  
Vancouver, B.C.

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165-0-~~4~~  
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IN YOUR REPLY REFER TO  
NO 7-11-4  
ALSO TO DATE OF THIS LETTER

P.O. BOX 70  
VANCOUVER, B.C. December 14, 1946

AIRMAIL

Indian Affairs Branch, Dept. of Mines & Resources, Ottawa.

Reverend C.F. Hives was advised of the content of Mr. Neary's letter of December 4th regarding payment of the cost of repairing the sewing machines at St. Georges School from school funds and in reply has forwarded me the attached letter.

In the last paragraph of my letter of November 28th in this connection I pointed out that a number of the machines were used for instructional purposes and recommended that the cost of repairs for these machines be met from the Technical Education Division of the B.C. Special Vote. It is thought that there should be funds available from this source and I can only reiterate my previous recommendation.



*D. M. MacKay*  
D. M. MacKay,  
Indian Commissioner for B.C.

-mh  
enc.

180  
15  
30  
225

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165-0-5 (WT1).

*E.D.*

AIR MAIL.

Ottawa, December 27, 1946.

Major D.M. MacKay, Indian Commissioner, P.O.Box 70,  
Vancouver, British Columbia.

Your letter of the 14th instant reached us today.

It is difficult for us to agree with the opinion expressed by Reverend Mr. Hives. Might I point out that the following payments have been made to him by the New England Company funds during the current calendar year: January, \$2,000.00, May, \$2,000.00, December, \$1,500.00, Total: \$5500.00. In addition, we have sent to him a cheque for \$1200.00 towards the expense of purchasing a new car.

*mp*  
The authorized pupilage of this school is one hundred and eighty and \$5,500.00 was forwarded to him for general expenses. This works out at approximately \$30.00 per pupil. In addition the school received a Per Capita of \$180.00 and also a special grant of \$15.00. This makes a total of \$225.00 a pupil which is more than is being paid to other Indian Residential Schools in British Columbia.

The amount required to repair sewing machines will not likely be excessive. In view of the information given in the first part of his letter, it is felt that it would be only fair to pay such expenditure from school funds. You should, therefore, notify the Principal of our decision in the matter. It is felt that he will arrange to have the machines repaired immediately and payment made as we desire.

*[Signature]*  
Bernard P. Neary,  
Supt. of Welfare & Training.

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Rev. Canon C. F. Hives  
Principal

Dec. II, 1946

Lytton, B. C.

Dear Major MacKay:

I am writing you in reference to the matter relative to our domestic water equipment. During the Summer and Fall, there have been several surveys made of the situation, and reports sent in regarding the need of repairs and extra equipment. One of the recommendations is that of an electrically driven pump that would send the condensate back ~~back~~ into the high pressure steam boiler against 110 lbs pressure. This is a very important matter.

As you are aware, the alkaline deposit on the inside of our boilers has ruined several jacket heaters and steam boilers during the past five years. While our domestic water was heated by jacket heater, the amount of water that had to be heated and therefore which had to go through the jacket heater system, was very great, and consequently left a great deal of deposit on the inside of the heater, resulting in the channels of the heater being filled up, and making the heater useless.

At the present time we are heating the water by means of a steam coil in the hot water tank, connected to the high pressure boiler. This has done very good and effective work. But the drawback of such a system is that the high pressure steam boiler requires so much additional water to make up for that used up in the steam coil, and each replenishment of water in the boiler means more alkaline deposit in the boiler tubes, which means, in the near future again, either a new boiler or new tubes. Both of which, or either of which are expensive replacements.

If we could have installed, a pump to handle the condensate water from the steam coils in the

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hot water tank, so that the condensate water, which is now devoid of any alkaline, could be returned to the boiler, I see no reason why much of our problem would not be solved, and the life of the boiler increased.

This matter is part of the responsibility of the Department. It has always been a problem, and a very difficult one. I believe a recommendation regarding this matter has been made, and I would like to know if there is any hope of that recommendation being carried out in the near future.

Yours faithfully.

*Chas. F. Howard*

Principal.

Major D. M. MacKay,  
Commissioner of Indians for B.C.,  
Vancouver, B.C.

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IN YOUR REPLY REFER TO  
NO 7-11-4  
ALSO TO DATE OF THIS LETTER

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DEPARTMENT

MINES AND RESOURCES



165-0-5

INDIAN AFFAIRS  
BRANCH

P.O. BOX 70  
VANCOUVER, B.C. Jan. 8, 1947.

Indian Affairs Branch, Dept. of Mines and Resources, Ottawa.

Your File 165-0-5 (W.T.1)  
St. George's Indian Residential School  
-----

I wish to refer to Mr. Neary's letter of December 14th regarding repairs and improvements at the above-noted school, and in particular the domestic water supply system within the school, a matter which has been the subject of discussion from time to time in recent weeks with the local office of the Surveys and Engineering Branch and the Principal, Reverend C.F. Hives.

In a letter to this office dated December 11th, 1946, a copy of which is attached, Mr. Hives suggests the installation of a pump to handle the condensate water from the steam coils in the hot water tank so that the condensate water, which is devoid of alkaline, could be returned to the boiler and thus obviate the necessity of using fresh water in the boiler with resulting heavy alkaline deposits. This suggestion has been referred to Mr. C. E. Webb, District Chief Engineer, who will no doubt pass same on to the Surveys and Engineering Division at Ottawa, for attention when the various proposals for meeting the problem that exists are being considered. I should appreciate being advised in due course of the views of the Engineering division with respect to Mr. Hives' proposal.

/EW

D. M. MacKay,  
Indian Commissioner for B.C.

Indian Affairs (RG 10 Volume 6465, file 888-5, part 5)

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165-0-5 (W.T. 1)

Ottawa, 13 January 1947.

~~E&D.~~

Memorandum:

DIRECTOR SURVEYS AND ENGINEERING BRANCH

Re: St. George's Indian Residential School,  
Lytton, B.C.

With reference to your memorandum of Dec. 2 and previous correspondence with reference to the domestic water supply at the above mentioned school, we are advised by Indian Commissioner MacKay that your District Chief Engineer, Mr. C.E. Webb, has been forwarded a suggestion made by the Principal of the school.

Enclosed is a copy of the Principal's letter in which he recommends certain specific action.

  
Director.

Indian Affairs (RG 10 Volume 6465, file 888-5, part 5)

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DEPARTMENT OF MINES AND RESOURCES

Purchase Order

No 6996 A

THIS NUMBER TO BE SHOWN ON ALL PACKAGES AND INVOICES

St. George's Indian Res. School,  
Lytton, B.C.

P.O. Box 70,  
Vancouver, B.C., March 25th 1946.

Please forward the following materials to the address given below, and charge to the account of the Department of Mines and Resources.

Render a separate invoice for each order and send 3 copies to A. Strang, Esq.,  
Indian Agent, Lytton, B.C. when goods are shipped.

Quantity	DESCRIPTION	UNIT	TOTAL
	Construction of small residence for use of teachers at St. George's Indian Residential School		
	-----		
	Assistance in providing accommodation		\$341 18
			<hr/>

Prices F.O.B. School as per your of

Shipping Instructions

Upon instructions of Mr. Indian Agent Strang.

Chargeable to Appropriation

for INDIAN EDUCATION.

Vote 76 Primary 13-491.

Encumbrance No.

Copy for Head of Branch

Date to be delivered:

As instructed by Mr. Strang.

*D. H. Mackay*  
D. H. Mackay (Issuing Officer)  
Indian Commissioner for B.C.

Indian Affairs (RG 10 Volume 6465, file 888-5, part 5)

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165-0-5

DEPARTMENT OF MINES AND RESOURCES

INDIAN AFFAIRS BRANCH

TREASURY ONLY

CHEQUE No. ....

DATE.....

Pay to St. George's Indian Residential School

Address LYTTON, B.C.

76-13-491

DATE	SERVICE	AMOUNT
1946	Lytton Agency	
Dec. 28	To: Materials as per attached receipted invoices used in the construction of a small teachers' residence at St. George's Indian Residential School	541 18
	Dept. Auth. 165-0-5 dated Mar. 30, 1946	
	P.O. 6996A	
	<i>Pay from acct 460</i>	
	RECOMMENDED <i>[Signature]</i> Indian Commissioner for B.C.	

TRIPPLICATE FOR FILE  
Voucher in duplicate detached  
for Accountant in new



I HEREBY CERTIFY that this Voucher is correct, that the material has been supplied, the work performed and that the charges are fair and just, also that the expenditure has been incurred legitimately and that each item of the same is a fair and just charge against the Government of Canada. This expenditure was authorized by Departmental Letter, File No. 7-11-3 dated April 3, 1946

FORM No. I.A. 506  
Req. 1265

VOUCHER No. 22

*[Signature]*  
Agent  
DATE Jan. 7<sup>th</sup> 1947

Indian Affairs (RG 10 Volume 6465, file 888-5, part 5)

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C O P Y

ST. GEORGE'S INDIAN RESIDENTIAL SCHOOL

January 23, 1947  
Lytton, B.C.

Dear Sir:

I am again placing before you the matter of the urgent need of a high pressure pump for the purpose of forcing the condensate water back into the high pressure steam boiler.

Yesterday, we made an examination of the hot water tank after using the live steam coil in the tank for heating the water for a period of six months. After draining the tank, and taking off the man hole, we found an alkaline deposit on the outside of the steam coil, which immediately peeled off as it dried, leaving the copper pipe coil exposed and clean. This examination proved to us that the steam coil system of heating is a success, and better than any other system so far used during the last five years.

The only drawback to the system is the loss of the condensate water. A great deal of condensate water is made in the heating of water for a building with 200 residents. Every bit or drop of fresh water that goes into making that steam leaves an alkaline deposit on the tubes and crown of the boiler. This deposit will ruin the boiler as it has done in the past.

If we had the high pressure pump, electrically driven, to force the condensate water back into the boiler, I feel assured that the present boiler would stand in good repair for years. The cost of the pump was approximately \$400.00.

Yours faithfully,

"Chas F. Hives"

Principal

Major D. M. MacKay  
Commissioner of Indians for B.C.  
Vancouver, B.C.

Indian Affairs (RG 10 Volume 6465, file 888-5, part 5)

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POOR-COPY

INDIAN COMMISSIONER  
BRITISH COLUMBIA

IN YOUR REPLY REFER TO  
NO 7-11-4  
ALSO TO DATE OF THIS LETTER  
Air Mail

*[Handwritten initials]*



CANADA  
DEPARTMENT  
OF  
MINES AND RESOURCES

165-0-5

INDIAN AFFAIRS  
BRANCH

P.O. BOX 70  
VANCOUVER, B.C. Jan. 28, 1947.

Indian Affairs Branch, Dept. of Mines and Resources,  
Ottawa, Ont.

Further to my letter of January 8th in connection with the domestic water supply system at the St. George's Indian Residential School, I am enclosing a copy of a letter dated January 23rd from Rev. C. F. Hives in support of his recommendation for the installation of an electrically driven high pressure pump to handle the condensate water from the steam coils in the hot water tank.

*[Handwritten signature]*

D. M. Mackay,  
Indian Commissioner for B.C.

-EW  
Encl.



Indian Affairs (RG 10 Volume 6465, file 888-5, part 5)

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165-0-5 (WT1).

*Return to  
WTB*

Ottawa, January 31, 1947.

Memorandum:

DIRECTOR,  
SURVEYS and ENGINEERING BRANCH.

Re: St. Mary's Mission Indian  
Residential School.

On January 13th I forwarded to you a copy of a letter received from the Principal of the above mentioned school, with reference to the domestic water supply.

We have just received a further letter a copy of which I enclose.

We would appreciate it if you would give these two letters immediate attention and let us have your recommendation in the matter.

*MS  
H*

*[Signature]*  
Director

Encl:

Indian Affairs (RG 10 Volume 6465, file 888-5, part 5)

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