## POOR DOCUMENT

THE EVENING TIMES AND STAR, ST. JOHN, N. B., SATURDAY, JULY 2, 1921.

### RAPID PROGRESS IN WATER POWER DEVELOPMENT ON THE MUSQUASH; THE GREAT STORAGE POSSIBILITIES

THE MUSQUASH DEVELOPMENT.

Much Concrete Poured for Two Big Dams and Work Being Rushed Over Whole System

Contracts for Storage Dams, Generating Station, Hydraulic Turbines, Generators, Surge Tanks, Transmission Line, and Other Equipment Call for Completion and Delivery Before End of This Year—The Wide Drainage Area and Its Possibilities—Salient Features.

Although a great deal has been written about the work of developing the water powers of New Brunswick now going on under the direction of the New Brunswick Electric Power Commission, comparatively few people realize that so much has been accomplished in the short time that has elapsed since the commission was created. It was only a year ago, for instance, that C. O. Foss, chief engineer of the commission, found that it was possible to divert the water of the west branch at Musquash to a power house on the east branch and use a single set of operators. Today a great number of men are rushing to completion two huge dams, one on the east branch, the other on the west branch, to say nothing of numerous smaller dams at different places in the area of supply, and the contracts which were let for the generating station with its complex machinery, the surge tanks, the hydraulic turbines, the wood stave pipe, the steel towers and transmission cables, the receiving station at Fairville and for various other equipment, call for completion and delivery before the end of the year. All this work, the chief engineer says, is well in hand, and he expects no delay whatever in getting the whole Musquash and he expects no delay whatever in getting the whole Musquash system connected up.

giving close attention to the falls on the Tetagouche, Shogomoc, Magagune, Tobique, St. John, South West Miramichi, Upsalquitch, Kennebeccasis and
Lepreau rivers, and on other streams. The policy of the Foster government
is to develop the water powers of the province wherever it is possible and in the
interests of the people to do so, and as rapidly as the work can be carried on.
This year the Musquash power plant is being constructed, and the public will
watch the results with keen interest, for it shows that the policy of water power
development for reducing the cost of power and at the same time conserving
coal for other and more necessary purposes has been well established in New
Brunswick. For the present the Musquash supply will be disposed of in St.
John and vicinity, but it may well follow that before long the power from the
Lepreau will be linked up and a transmission line constructed from St. John
to Moncton, supplying Sussex and other towns on the way.

THE MUSQUASH DEVELOPMENT.

Engineers Pleased.

Henry Holgate, consulting engineer for New Brunswick Electric Power Commission, inspected the Musquash work this week along with Mr. Foss, and he assured Premier Foster and Lieut.-Governor Pugsley who visited the site of the big dam while he was there that he was greatly pleased with the progress which has been made and most optimistic regarding the added power which may be derived on the Musquash by means of storage dams affecting a wide area. A very important feature of the Musquash territory is found in the large number of lakes in the drainge area which, by means of added storage area which area for added storage area which area for added storage area which will read to the fart and the first and the was a that time chairman of the New Brunswick Water Power Commission, a commission appointed by of diverting the west branch of the Mu

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"the rapidly increasing personal interests of Mr. Holgate made it quite impossible for him to attend to the details of designing the necessary hydraulic and electric machinery, so on his recommendation C. H. & P. H. Mitchell were engaged. After much consideration and consultation with Mr. Holgate and the Mitchells it was decided to change the dam construction from earth to concrete; and accordingly new tenders were called for Nov. 8, and this having been approved by order-in-council a contract was signed

on Nov. 25 with the New Brunswick Contracting Company, Ltd., for the construction of the cast and west branches and west branches S. Morgan Smith Company for the hydraulic and generating equipment and on Dec. 6 contracts were signed with S. Morgan Smith Company for the hydraulic and generating equipment and on Dec. 6 contracts were signed with the Canadian General Electric Company for the generators. On Feb. 9, 1921, a further common power house. Work was begun the wing proposed the work of grading the pipe lines was of such a character that accordingly new tenders were called for Nov. 8, and this having been approved by order-in-council a contract was signed with the Pacific Construction of storage dams at the outlet of Loch Alva on the east branch and at considerable loss to the contractor.

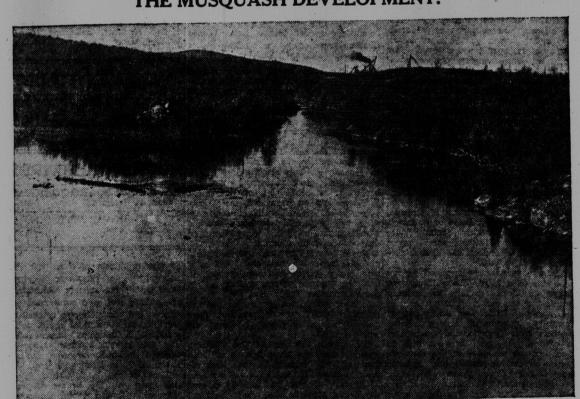
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### THE MUSQUASH DEVELOPMENT.



The east branch dam site, looking north. This picture shows the water below the dam, the gorge being seen in the

### PowerAdvantages of the Musquash

The immense drainage area. This is between 140 and 170 square miles in extent.

The numerous lakes available for storage purposes.

Loch Alva alone, by means of dams being constructed at its outlet, will impound 1,500,000,000 cubic feet of water. The dams will raise the water in Loch Alva about twenty feet.

The water of the west branch of the Musquash is being diverted to the east branch power house by means of an 8-foot wood stave pipe, 7,420 feet long.

No danger of minimum supply of water at any season of year falling below the conservative estimates made by experts.

Power house only twelve and a half miles from the ersing Falls at St. John.

tion of the necessary wood stave pipe. On April 1 a contract was signed with the Maritime Construction Company for clearing the transmission line right-of-way and for constructing the foundations for the steel towers. On April 8 a contract was signed by the Canadian Westinghouse Electric Company for the switching and metering equipment for the generating station at Musquash and the receiving station at Fairville. On May 10 a further contract was signed with the New Brunswick Contracting Company for the construction of the generating station. On May 11 a contract was signed with the Canadian Chicago Bridge Company for the necessary surge tanks. In addition to the foregoing contract or company for the transmission cables and other orders have been placed with the Canadian Bridge Company for the steel towers and with the Northern Aluminum Company. For the transmission cables and other orders have been given for small incidental requirements. All these contracts and orders are for completion and delivery before the end of the year, and the work is fully up to schedule requirement to meet these dates.

Salient Features.

"The salient features of the Musquash reposition are as follows: The water from the west branch will be delivered through an 8-ft wood stave pipe 7,420 feet long to the power house under a static head of 118 etc. The water of the east branch will be delivered through as 8-ft wood stave pipe 7,420 feet long to the delivered through as the first of the

### THE MUSQUASH DEVELOPMENT.



Concrete Pouring Tower at the East Branch Dam,

# The east branch dam site, looking south. This picture shows the water above the big dam, which is being constructed at the high bluff. At present the water is shut off by a coffer-dam near Loch Alva.

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