

seven miles from the city, and which collects the water as it comes falling over the rocks from its glacial source above the Golden Eagle basin. The retaining wall, which is a solid, massive piece of work, is constructed of huge, cribbed logs, filled in between with rocks. The building of this wall was a long, costly operation, as owing to floods the work was arduous, and delay was occasioned by the half-built wall being swept away when a sudden flood, caused by heavy rains, undid in a night the labor of weeks. The wall was built up again and is substantial enough to resist any pressure that can be brought to bear upon it. The water enters the intake pipe through the latest system of cleaning and screening chambers, which collect all small debris which would have a tendency to enter the pipe. Five miles of 16-inch continuous wood stave pipe, discharging three and a half million gallons a day, and capable of providing for 25,000 people, convey the water to the city limits, after which 10 and 12-inch steel pipes are used through the main streets, smaller wire-wound pipe, tapping the mains, being used for laterals. The average pressure on the mains is 70 pounds to the square inch, thus allowing a good head for fire-fighting purposes.

### PERSONAL.

STANLEY M. OBORN, A. M. Can. Soc. C.E., A. M. Inst. C.E., has resigned from the Toronto City Engineer's office and has begun practice as a consulting civil engineer and architect.

SIR ALEXANDER BINNIE, whose recommendations Ottawa is acting upon in connection with her water supply, has been asked by the city to assume the duties of chief engineer of the accepted Thirty-one Mile Lake proposal.

CHAS. MURPHY, general superintendent of the Canadian Pacific Railway Company, at Winnipeg, and formerly general master of transportation, and local superintendent at Toronto, will likely accept an appointment to the Dominion Railway Commission, to begin duties January 1st, 1914.

W. G. MILLER, Provincial Geologist and Inspector of Mines for Ontario, was entertained by a dinner in his honor at the Toronto Club recently, in recognition of his scientific accomplishments and the public service he is rendering to Canada in connection with his administration of Provincial duties respecting geology and mining.

J. G. McMILLAN, B.A. Sc., has been appointed Inspector of Mines for the Cobalt district, succeeding T. F. SUTHERLAND, who, as reported in our issue of June 26th, 1913, became Chief Inspector of Mines for Ontario on July 1st, succeeding E. T. CORKILL. Mr. McMillan returned recently from Hudson Bay, where he conducted harbor surveys for the Dominion Government. He is a graduate in mining of the University of Toronto.

### OBITUARY.

The death occurred, recently, of Sir William Henry Preese, known in England as the "father of wireless telegraphy." He was in his 80th year. Sir William introduced both the telephone and talking machine into England and was the inventor of many patents connected with the telegraph and telephone. For several years he was engineer-in-chief and electrician to the British Post Office and was at one time president of the Institute of Civil Engineers.

The death is also reported of Alfred Russel Wallace, one of the leading British scientists, in his 91st year. During his life he made unusually large and valuable contributions to natural science and economics, and travelled in

every part of the world in pursuit of his studies. He was a prominent authority on the land question and a strong advocate of land nationalization.

### CANADIAN SOCIETY OF CIVIL ENGINEERS, OTTAWA BRANCH.

Mr. G. R. G. Conway, chief engineer of the British Columbia Electric Railway, addressed the Ottawa Branch recently, on the construction of the Coquitlam Dam. This work, which has just been completed, is of special interest to engineers from the fact that in the construction hydraulic process was used. By this process streams of water under great pressure are turned on the hillsides, washing out the stones, clay, etc., which flow through flumes to the place where the dam is under construction. This continual falling builds up the dam which is packed solid by the great weight of water coming over the falls into it. The water in this particular lake has been raised about 60 feet.

This work proved to be exceedingly expensive, as the water supply for New Westminster comes from the same lake, and for this fact the land which was to be flooded by the raising of the water had to be cleared of all vegetable matter that might contain microbes. The total cost of clearing the land was about \$666,000. This was of particular interest to Ottawa engineers, because in raising the level of Thirty-One Mile Lake the ground to be flooded must also be cleared of all vegetable matter.

### COMING MEETINGS.

UNITED STATES GOOD ROADS ASSOCIATION.—Convention will be held at St. Louis, Mo., November 10th to 15th. Secretary, J. A. Rountree, Lo21 Brown-Marx Building, Birmingham, Ala.

NATIONAL MUNICIPAL LEAGUE.—Annual Meeting will be held in Toronto, November 12th to 15th. Secretary, C. R. Woodruff, 705 North American Building, Philadelphia, Pa.

AMERICAN INSTITUTE OF ARCHITECTS.—Forty-seventh Annual Convention, to be held in New Orleans, La., December 2nd, 3rd and 4th.

AMERICAN SOCIETY OF REFRIGERATING ENGINEERS.—Annual Meeting will be held in New York, December 2nd to 5th. Secretary, W. H. Reed, 154 Nassau Street, New York City.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS.—The Annual Meeting will be held in New York, December 2nd to 5th, 1913.

AMERICAN ROAD BUILDERS' ASSOCIATION.—Tenth Annual Convention to be held in First Regiment Armory Building, Philadelphia, Pa., December 9th to 12th. Secretary, E. L. Powers, 150 Nassau Street, New York, N.Y.

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS.—Annual Meeting to be held in New York, December 10th to 13th. Secretary, C. D. Odsen, Polytechnic Institute, Brooklyn, N.Y.

AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS.—Seventh Annual Convention will be held at Great Northern Hotel, Chicago, December 29th to 31st. Secretary, I. W. Dickerson, Urbana, Ill.

AMERICAN CONCRETE INSTITUTE.—Tenth Annual Convention to be held in Chicago, February 16th to 20th, 1914. Secretary, E. E. Krauss, Harrison Building, Philadelphia, Pa.