

SEWAGE TREATMENT

Massillon Sewage is now discharged, untreated into the Tuscarawas River through two outlets located upon the line of Maple Street extended to the River. The measures recommended by this report contemplate continued discharge of raw sewage into the River.

The Tuscarawas River is used for power purposes and to carry off wastes from municipalities and industries bordering its course. At Massillon it has a water shed of 516 square miles. Owing to its rise in the lake region of Summit County, the Tuscarawas River is semi-regulated, as these lakes serve as feeders to the Ohio Canal which is a source of industrial water supply. The possible creation of another reservoir by the projected Tuscarawas Dam below Akron would further regulate the river flow. Present mean discharge may be taken as proximate to 250 second feet $\times$ which is increased by the return of the Canal at Lock No. 6 below the city. The river has pronounced color, but nuisance does not generally exist and fish life is still supported.

It is more than probable that continued development of the watershed with the consequent increase of burden upon the river as a carrier of wastes will entail treatment of sewage at Massillon. Treatment is not contemplated as a present measure but the projects presented herein are designed to conform with treatment requirements.

The site tentatively chosen for treatment lies about one half mile south of the city and it is located between the Canal and the River and consists of a strip of land 400 feet wide and of any necessary length. It lies about 3 or 4 feet above normal river stage. The area available is sufficient for primary and secondary treatment and auxiliary processes. Diked protection against high water will be necessary and pumping will be unavoidable. Electric power is available. Railroad connection can be secured but only by bridging the river. The general situation is shown in the accompanying site map.

Treatment being regarded as of the future, no effort has been made to determine the characteristics of the sewage. It is however, strong domestic sewage. Industrial influence is exhibited by the discharge of pickling liquor (Sulphuric Acid) and by lime. At infrequent intervals straw board wastes are to be anticipated. Present discharge to the river is about 7/c.f.s.

The Central Steel Company and allied concerns are situated outside the city and to the southwest. They are not included in this study of city drainage, as it appears certain that this territory will be specifically excluded in any program of expansion. Treatment of industrial wastes if required, is left as an individual problem. The trunk sewers proposed herein are proportioned to carry domestic wastes from the plant if separation be effected. Wastes from the Central Steel Company now include