

of July and August, when the minor streams are to all significance dry, and the Don scarcely affords water enough to keep open even its own channel, that of the port is better, and deeper than at any other season of the year.

But, if an actual example of the theory I have laid down be necessary to support my argument, I adduce, as immediately to the point, the harbour of Burlington Bay. It contains about the same area as that of York; it has the Dundas Creek falling into it, of equal consequence with the Don. Before the present cut was made that converted the bay into a navigable port, the superfluous waters of the creek dribbled forth at a natural outlet in the beach, varying from six inches to two feet in depth, according to the supply, with a descent of channel sufficient to keep out the waters of the lake. No sooner was the present cut made and dredged down to eight and nine feet, admitting the free passage of the waters of the lake, than it deepened of itself to thirteen and fourteen feet, and the current flowed as often in, as out; proving thereby, that the channel was entirely due to the fluctuating levels of the two waters.

Now if my positions be correct, that we owe the open channel of our harbour entirely to the varying levels of the lake, and the decay of our harbour chiefly to the Don; what are the means that here suggest themselves of improvement and preservation?

The improvement must be to contract the channel; the the grand work of preservation to shut out the Don.

By contracting the channel, no water will be allowed to escape over the shoal, even in calms; and the motion of bodies of water in passing in and out of the channel will be accelerated, and their action felt at greater depth.

In speaking of calms, I have stood upon the lake shore in a perfect calm, and seen the water, by a certain mark, gradually rise and fall seven inches; each returning flux being at the period of a quarter of an hour. This undulation of the lake, I attributed to a partial and violent wind or squall at the east end of the lake, disturbing the equilibrium of the whole.

The process of contracting the channel will not be attended with any difficulty, nor with any expense commensurate to the value of the benefit to be derived therefrom. The first part of the plan is already provided for by the liberal provin-