Spalding. 4th October 1940. Market Place,

FO the Chairman and Members of the River Welland Catchment Board.

Chairman, My Lords and Gentlemen,

Drainage proposal Clerk the water to District to dunc the in the River Board, water In accordance the River from we beg attains beg to present a joint report upon a the Bourne South Fen and Thurlby Fen Glen. with en. The pumping to the level of 14 fee instructions feet received from cease above

Liverpool Ordnance Datum.

-strictedly on to the lower levels of the to the tidal outfall, a distance of $15\frac{1}{2}$ m for the conveyance of upland water across No water from these Kates Bridge embankments et, below this point the flat section continues to the Outfall. course of the River below Kates Bridge is between artificial land above Kates erected to Sir Gilbert's Wilsthorpe Mill, are about 300 feet high tes Bridge, where it enters the Fen Area. Bridge, 0 The restrain the sources of Tunnel of whiles, it is the Fens. across the Rivers Glen flow of highland water unrethere is the Fenlands, and les, it is an enters a further higher than and Eden , which the River an aqueduct fall from From

and until about : of the River provided Pinchbeck Drainage welland, where the effluent from the above the outfall sluice into District closes automatically is discharged than in Fens into the the tidal former 1+ outfall when er Spalding
This outfall the drain.

the adopted in the early construction of height little -ance carried strongly supported clay or centuries which have level in the River Glen is higher than 1

There is no traceable rec doubt that carried out in the River and more definitely still by the of the breach in the Bourne North Fen bank in December adjoining land, which formed between the banks the gravel underlying the peat, beyond ne veight of the superimposed banks. supported by observations made duri they were has the been increased fine elapsed, but so earth of which the bank is made, formed in the by placing Tongue End area is PEAT. beyond the far as is known, record of len Banks, during works of mainte earth breach caused by compression nogn but the the method through there is no seal maintenlevel 1910.

River overpowering the erosion of bank and a our opinion, forced bodily outward and carried into the adjoining fenour opinion, it was caused by the pressure of water in the overpowering the resistance of the peat layer underneath the bank consequent The breach was not a top breach cause by overflow, for a complete section of fracture of the unsupported portion of in the the bank

structure.

sides, exce Pinchbeck Sluice Pinchbeck Bars, ice.

Owing to the constriction through Pinchl reduction of grade through the Fens, the discharge bel reach between Sir Gilbert Heathcote's Tunnel and Tongo shbeck Rara River passes waterway are virtue of About 5 miles below the site of the breach through Pinchbeck, where further improvements to restricted, because of roads and buildings on both the retarding of The present av of discharge referred to above. available reservoir space is just faster in this section of the Tunnel and Tongue End. the Outfall Pinchbeck and below entering End and of an

sufficient to accommodate flood, though the water would

3

have overflowed the banks above Tongue End im January 1939 if procautions had not been taken to raise places near fences where cattle had trampled down the bank top.

It is proposed to pump water into the Rivabove Tongue End near the head of this most heavily charged sect:

the stream. into the River charged section

Gilbert's Tunnel is 10.5 The normal Summer water level feet above Ordnance Datum near Sir

water level -ed bo of level of 14 feet above O.D. was reached, any advance neatralised by the longer time made available for water South South argued vater into the sec February in. arriving later. of 14 feet abov Hon in the River Glen of 10.5'0.D. to 1 Fen with a Figh a pumping promise would without above.
For and Thurlby Fen Area would without above.

or into the section of the River mentioned above.

or into the section of the River mentioned above.

I the section of the River mentioned above.

The relation to the February water level was reduced, as report relation to the February flood of this year, then the Bourr relation to the February flood of this year, then the Bourr relation to the February flood of this year, then the flood relation to the February flood of this year, then the Bourr relation to the February flood of this year, then the Bourr relation to the February flood of this year, then the Bourr relation to the February flood of this year, then the Bourr relation to the February flood of this year, then the Bourr relation to the February flood of this year, then the Bourr relation to the February flood of this year, then the Bourr relation to the February flood of this year, then the Bourr relation to the February flood of this year, then the Bourr relation to the February flood of this year, then the Bourr relation to the February flood of this year, then the Bourr relation to the February flood of this year, then the Bourr relation to the February flood of this year, then the Bourr relation to the February flood of this year, then the Bourr relation to the February flood of this year, then the Bourr relation to the February flood of this year, then the Bourr relation to the February flood of this year, then the Bourr relation to the February flood of this year, the Bourr relation to the February flood of the Bourr relation to the February flood of the Bourr relation to the February flood of the February fl 1940 it 5'0.D. to 14'0.D. is approximately 5 hou pumping plant adequate for a training of the state of t From observations taken in January taken for hours. January 1939 or the flood the ordinary H that report-Bourne and

If it was proved that by maintaining a loordinary water level in the River Glen at all times, for floods occur in the Summer as well as in Winter, then provision would have to be made for the lowering of freshwater tunnels and feed drains which irrigate the adjoining lands.

Under the Agriculture (Miscellaneous War lower

These improvements, whether carried out by the Catchment Boby the Riparian Owners will regult in a more rapid dischard of water to the River in the Upper Reaches, AND IT CANNOT I EXCLUDED OR RETARDED with the present appliances.

This probable accelerated discharge the upper reaches alone emphasises the urgency for undertak works for securing the foot of the banks throughout their I the "Main River" and it may be confidently anticips requests for the improvement of land drainage will swider acreage in the upper reaches is brought under Provisions) Act 1940 application the Bulby stream of the River Glen beyond the present limit may be confidently anticipated that has been made for the cleansing beyond the present limit of rought under the plough. by the Catchment Board AND IT CANNOT BE rapid discharge arise as Board or other

in the Fens at the earliest moment, though, unfortunately exceedingly difficult to find suitable material for this though, unfortunately undertaking work length it is

Survo conditions arising from the War.

In view of the foregoing, we consider that the introduction of additional water - especially in the danger zone - will constitute a grave danger to the safety of the lands in Deeping Fen, the Black Sluice and the Bourne South Fen Distri consider that Fen Districts.

We arc, Gentlemen,

Your obedient servants,