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UNITED URBAN
DISTRICT OF WOLSTANTON.

ANNUAL REPORT

OF THE
MEDICAL OFFICER OF HEALTH

(W. E. L. HORNER, M.D.)

FOR THE
YEAR 1906.

Silverdale, Staff :
F. W. BARKER, Printer and Stationer, Church Street.

UNITED STATES

DISTRICT OF COLUMBIA



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FOR THE

YEAR 1900

THE BUREAU OF HEALTH AND HIGHER EDUCATION, DISTRICT OF COLUMBIA

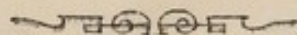


TO THE . . .

CHAIRMAN AND COUNCILLORS

OF THE

UNITED URBAN DISTRICT OF WOLSTANTON.



GENTLEMEN,

I have the honour to present to you my third Annual Report on the Sanitary Condition of the United Urban District of Wolstanton, with the Vital Statistics for the year 1906.

The District is composed of the three Parishes of Wolstanton, (including part of Basford, May Bank,⁷ and Longbridge Hayes), Silverdale, (including Knutton and Cross Heath), and Chesterton, (including Red Street).

Area. The area of the District is 5,483 acres, divided as follows :—

Wolstanton	...	2,362 acres
Silverdale	...	1,764 „
Chesterton	...	1,357 „
		<hr/>
		5,483
		<hr/>

Population. The Population according to the census of 1891 was :—

Wolstanton	...	6,473
Silverdale	...	7,210
Chesterton	...	6,314
		<hr/>
		19,997
		<hr/>

1901 was :—

Wolstanton	...	8,284
Silverdale	...	7,820
Chesterton	...	6,541
		<hr/>
		22,645
		<hr/>

The estimated population to the middle of 1906 was :—

Wolstanton	...	10,893
Silverdale	...	8,625
Chesterton	...	7,397
		<hr/>
		26,915

The Statistics in this Report are based upon that estimate.

Number of Houses. The number of inhabited houses in the District to the middle of 1906 was 5,345.

Number of persons per house ... 4.6

These are divided as follows :—

Wolstanton,	2,701	No. of persons per house	4.03
Silverdale	1,730	„ „ „	4.9
Chesterton	1,414	„ „ „	5.2
76 new houses have been built during the year.			

Births.

The total number of Births registered in the District was 848—431 boys and 417 girls, equal to an annual birth-rate of 31.5 per thousand.

This was lower than the last two years in which the Birth-rate was :—

1904	...	34.4
1905	...	32.9

These Births were distributed as follows :—

WOLSTANTON		SILVERDALE		CHESTERTON	
Boys	Girls	Boys	Girls	Boys	Girls
173	191	134	99	124	127
Total 364		Total 233		Total 251	

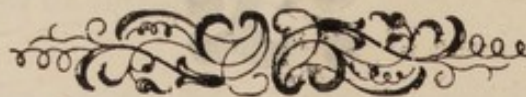
The Birth-rates for the three Districts during the last three years were :—

	WOLSTANTON	SILVERDALE	CHESTERTON
1904	31.5	34.2	38.9
1905	30.7	34.03	35.06
1906	33.4	27.8	32.9



The Birth-rate in England and Wales for 1906 was 27.0 per 1,000 of the population, which is 0.2 per 1,000 below the rate in 1905, and lower than the rate in any other year on record; compared with the average in the ten years 1896-1905, the birth-rate in 1906 shows a decrease of 1.7 per 1,000.

Month	BIRTHS					DEATHS				
	Whole District	Rate per 1000	Wolstanton	Silverdale	Chesterton	Whole District	Rate per 1000	Wolstanton	Silverdale	Chesterton
January ..	68	30.2	27	20	21	31	13.8	20	8	3
February ..	55	24.4	16	17	22	30	13.3	11	6	13
March ..	82	36.4	35	25	22	20	8.9	7	8	5
April ..	77	34.3	39	17	21	20	8.9	5	8	7
May ..	72	31.2	31	23	18	28	12.4	10	11	7
June ..	75	32.4	25	28	22	15	6.6	4	5	6
July ..	83	36.9	34	22	27	28	12.4	13	8	7
August ..	62	27.6	40	10	12	14	6.2	6	2	6
September ..	72	31.2	32	20	20	28	12.4	9	7	12
October ..	84	37.4	39	18	27	32	14.1	11	8	13
November ..	62	27.6	23	20	19	29	12.9	12	8	9
December ..	56	24.9	23	20	13	40	18.2	16	11	13
Total .	848	31.5	364	240	244	315	11.7	124	90	101



Deaths.

The total number of deaths registered in the District was 296. This gives an annual Death-rate of 10.9 per 1000.

Of these deaths, 4 were of non-residents at the Bradwell Sanatorium. There were also 23 deaths of residents occurring in Institutions outside the District :—

North Staffordshire Infirmary	9
Chell Workhouse	14

The corrected number of deaths thus becomes 315, (Males 155, Females 160), giving an annual Death-rate of 11.7 per 1000 of the estimated population of the District.

This is a great improvement on the last two years, as will be seen from the following figures :—

Year	Whole District		Wolstanton		Silverdale		Chesterton	
	No of Deaths	Rate	No of Deaths	Rate	No of Deaths	Rate	No of Deaths	Rate
1904	407	16.29	139	13.75	106	13.24	162	23.6
1905	388	14.95	145	13.8	128	15.3	115	16.12
1906	315	11.70	124	11.3	90	10.4	101	13.6

Thus, there were 73 deaths less than last year, in the whole District, and the death-rate is 3.25 below that of last year. While all portions of the District, share in the diminished death-rate, that of Silverdale shows the greatest improvement, being 10.4 per 1,000, and 4.9 below that of last year.

Causes of, and Ages at Death during the Year 1906.

CAUSES OF DEATH	All ages	Under 1 year	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwards	Wolstanton	Silverdale	Chesterton	Deaths in public Institutions
Measles ..	2		2					2			
Scarlet Fever ..	6		4	2					2	4	3
Whooping Cough ..	3	2	1							3	
Diphtheria and Membranous croup	9		7	2				3	4	2	5
Enteric Fever ..	5			2	1	2		1	2	2	1
Epidemic influenza ..	1						1		1		
Diarrhoea ..	21	17	4					8	4	9	
Enteritis ..	1			1						1	
Other septic diseases	1					1		1			
Phthisis (Pulmonary Tuberculosis) ..	13			1	2	9	1	8	3	2	
Other tubercular diseases	16	5	6	3		2		10	2	4	
Cancer, malignant disease	9					8	1	6	1	2	
Bronchitis ...	31	8	4			10	9	15	9	7	
Pneumonia ..	28	6	12	2		7	1	6	9	13	
Other diseases of Respiratory organs	1						1		1		
Alcoholism Cirrhosis of Liver ...	2					2		1		1	
Venereal diseases ..	3	3						2	1		
Premature birth ..	9	9						2	3	4	
Diseases and accidents of parturition ..	2					2			1	1	
Heart diseases ...	17	2		1	4	8	2	8	6	3	
Accidents ..	8		4	1	1	2		1	4	3	
All other causes ..	127	43	9	3	1	27	44	50	37	40	
All causes ..	315	95	53	18	9	80	60	124	90	101	9



For all England and Wales, the death-rate in 1906 was 15.4 per 1,000, which was 0.2 per 1,000 above the rate in 1905; compared with the average rate in the ten years 1896-1905, the death-rate in 1906 shows a decrease of 1.4 per 1,000

Infant Mortality.

The deaths under 1 year in 1906 were 95, equal to a mortality of 112 per 1,000 registered births.

This is a great improvement on the last two years as will be seen from the table given below, and is considerably less than the infant mortality for all England and Wales in 1906, which was 133.

As will be seen however the infant mortality in Chesterton, continues to be much higher than the other parts of the District, and leaves much to be desired, being 135.

This is no doubt due in a great measure to the greater number of women who are working in Chesterton, and also to poorer housing conditions.

Infantile Mortality 1904-6

Year	Whole District		Wolstanton		Silverdale		Chesterton	
	No of Deaths	Rate	No of Deaths	Rate	No of Deaths	Rate	No of Deaths	Rate
1904	109	126	33	103	29	105	47	138
1905	117	136	43	133	41	145	33	150
1906	95	112	35	96	27	112	33	135

The causes of and ages at death, are shown on the accompanying table.

—Infant Mortality during the Year 1905—

Deaths from stated Causes in Weeks and Months under One Year of Age.

CAUSE OF DEATH	Total under 1 Month										Total Deaths under One Year					
	Under 1 Week	1-2 Weeks	2-3 Weeks	3-4 Weeks	1-2 Months	2-3 Months	3-4 Months	4-5 Months	5-6 Months	6-7 Months	7-8 Months	8-9 Months	9-10 Months	10-11 Months	11-12 Months	
All Causes { Certified Uncertified	10 2	5 5	6 1	3 3	24 3	11 14	5 5	4 1	9	7 1	4	4	2	4	2	90 5
Common Infectious Diseases ;																
Whooping Cough										1		1				2
Diarrhoeal Diseases																
Diarrhoea, all forms				1	1	2	1	2	4	2	1	1				17
Gastritis Gastrointestinal																
Catarrh						1										1
Wasting Diseases																
Premature Birth	5		2		7	1										9
Congenital Defects		1			1	1										2
Atrophy, Debility, Marasmus	4	2	2		8	3	1	1			2			1		19
Tuberculous Diseases																
Tuberculous Peritonitis									2							2
Tabes Mesenterica				1	1				1	1						3
Other Tuberculous Diseases													1			
Other Causes																
Syphilis																
Meningitis (not Tuberculous)																
Convulsions	3	1	3		7	2	2			2					1	16
Bronchitis				1	1	1		1		1		1		1	1	8
Laryngitis											1					2
Pneumonia												1	1	1		6
Other Causes		1			1	2	1		1							4
	12	5	7	3	27	11	14	6	4	9	8	4	2	4	2	95

District (or sub-division) of Wolstanton

Population (estimated to middle of 1906—26,915

Births in the year :—Legitimate 816 Illegitimate—32

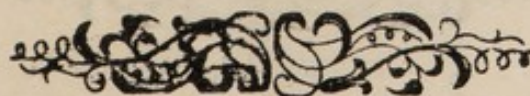
Deaths in the year of Legitimate and Illegitimate infants—95

Deaths from all causes at all Ages—315.

Deaths not Certified by a Medical Practitioner

INQUESTS were held during the year on ten persons,
and the following verdicts were given :—

	Natural Causes	Accidents
WOLSTANTON	Heart Failure	
SILVERDALE	Heart Failure Fit	Drowning Burns Run over by tramcar Scalds
CHESTERTON	Heart Failure	Fall of roof of pit Fall of roof of pit



Besides the above there were 11 uncertified deaths on which no Inquests were held, the causes and ages being as follows :—

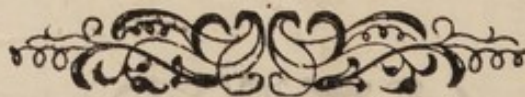
Congenital Debility	30 minutes
Convulsions	4 hours
"	14 days
"	1 year
"	1 year
Found dead in bed	6 months
" "	3 months
Heart failure	54 years
Chronic Bronchitis	55 years
" "	56 years
Senile Decay	68 years

The total number of uncertified deaths was therefore 21 out of the 315 in the District, equal to 6.6 per cent.

Inquests 3.1. Uncertified deaths 3.5 per cent.

For all England and Wales, the figures for 1906 are :—

Inquests 6.8. Uncertified deaths 1.5 per cent



Zymotic Death-rate

There were 46 deaths from the seven principal Epidemic Diseases, giving a rate of 1.7 per 1,000. This is slightly higher than last year in which the rate was 1.39.

			Wolstanton	Silverdale	Chesterton	Total	Rate per 1000
Small Pox	..	..	..	..	..	..	..
Measles	..	..	2	..	..	2	0.07
Scarlet Fever	..	..	..	2	4	6	0.22
Diphtheria	..	..	3	4	2	9	0.33
Whooping Cough	..	..	..	..	3	3	0.11
Enteric Fever	..	..	1	2	2	5	0.18
Diarrhoea	..	..	8	4	9	21	0.78
Total	..		14	12	20	46	1.709

For all England and Wales, the Zymotic Death-rate in 1906 was 1.73



a
Comparative Statistics of Births and Deaths,

	Annual Rate per 1000 Living,										Deaths under 1 year to 1,000 Births
	Births	Deaths	Principal Epidemic Diseases	Small- pox	Measles	Scarlet Fever	Diph- theria	Whoop- ing Cough	Enteric Fever	Diarr- hoea	
England and Wales ..	27.0	15.4	1.73	0.00	0.27	0.10	0.17	0.23	0.09	0.87	133
76 Great Towns ..	27.9	15.9	2.24	0.00	0.40	0.12	0.19	0.28	0.09	1.16	145
142 Smaller Towns ..	26.5	14.5	1.71	0.00	0.22	0.09	0.17	0.20	0.09	0.94	138
England and Wales less the 218 Towns	26.3	15.1	1.18	0.00	0.14	0.08	0.16	0.19	0.09	0.52	116
Wolstanton district	31.5	11.7	1.70	0.00	0.07	0.22	0.33	0.11	0.18	0.78	112

Infectious Diseases Notification Act, 1889.

277 cases have been notified during the year, including the following .—

Diphtheria	66
Erysipelas	21
Scarlet Fever	174
Enteric Fever	16

This is a considerable increase on last year in which 193 cases were notified. The increase is chiefly due to an epidemic of Scarlet Fever in Chesterton, and a greater number of Diphtheria cases in Wolstanton and Chesterton.

The usual method of dealing with these cases has been carried out throughout the year.

The houses are visited, enquiries made and noted on printed forms, and instructions as to isolation given. Removal to the Bradwell Sanatorium is urged where possible.

The Sanitary condition of the premises is carefully inquired into and inspected, and any defects found remedied.

Every infected house is disinfected, either on removal of the case, or at the expiration of the period of infection as certified by the Medical practitioner in charge.

Disinfectants are supplied throughout the illness, where the cases are treated at home.

BRADWELL SANATORIUM

Since the opening of the new Infectious Diseases Hospital in Burslem, last May, the Bradwell Sanatorium has proved amply sufficient to meet the needs of the District, and no cases have been refused admission for want of room since last April.

121 cases have been removed during the year. This is a very great increase on the last two years in which the numbers removed were 56 and 62 respectively.

The percentage of cases removed during the last three years is :—

1904	...	..	37 per cent.
1905	...	...	35 yer cent.
1906	...	...	47 per cent.

The Sanitary arrangements at the Bradwell Sanatorium still continue to be very bad. There are still no water-closets, and the bath and laundry accommodation is insufficient.

A Steam Disinfector which could conveniently be kept at the Bradwell Sanatorium is urgently needed for the district. At present articles requiring disinfection by this means have to be sent to Burslem.



Cases of Infectious Disease notified during the Year 1906.

NOTIFIABLE DISEASE	Cases notified in whole District.						Total Cases notified in each locality			No. of Cases removed to Hospital from each locality		
	At Ages—Years						Wolstanton	Silverdale	Chesteron	Wolstanton	Silverdale	Chesteron (H)
	At all Ages	Under 1	1 to 5	5 to 15	15 to 25	25 to 65						
Diphtheria	66		17	37	5	7	37	22	7	13	11	4
Erysipelas	21	2	2	1	2	12	10	5	6		21	
Scarlet Fever	174		59	106	6	3	45	39	90	27		41
Enteric Fever	16		2	5	4	5	6	8	2	3	1	
Totals	277	2	80	142	17	27	98	74	105	43	33	45

SMALL-POX.

No cases of Small-pox have occurred in the district during the year.

ENTERIC OR TYPHOID FEVER

16 cases have been notified. 6 of these occurred in Wolstanton, 8 in Silverdale, and 2 in Chesterton.

4 cases were removed to the Bradwell Sanatorium.

There were 5 deaths from Enteric Fever, giving a death-rate per 1000 living of 0.18.



SCARLET FEVER

174 cases have been notified during the year. The following shows the distribution in the district for each month :—

			Wolstanton	Silverdale	Chesterton	TOTAL
January	...	...	6	3	3	12
February	...	...	5	1	7	13
March	...	...	8		4	12
April	...	...	1	2	15	18
May	...	...	6	2	18	26
June	...	...	3	2	10	15
July	...	...	7	1	22	30
August	...	...	4		1	5
September	...	...	2	10	2	14
October	...	..	5	11	1	17
November	...	...	2	6	2	10
December	...	...		1	1	2
Total	...	...	45	39	90	174

Among these there were 6 deaths, giving a case mortality of 3.4 per 100 cases.

89 cases—51 per cent were removed to the Bradwell Sanatorium, 5 cases during the early part of the year could not be moved for want of room, and 18 cases were too young for removal.

From April to July, Scarlet Fever became very prevalent in Chesterton, but owing principally to the large proportion of cases removed to the Bradwell Sanatorium, as soon as discovered, and prompt disinfection of the houses, it was checked, and from the end of July only 7 cases were notified in Chesterton during the rest of the year.

139 houses were infected.

DIPHTHERIA

Diphtheria has been rather prevalent in the district, especially during the latter half of the year, most of the cases having occurred in Wolstanton and Silverdale.

66 cases were notified. The following table gives the part of the district and the months in which they occurred.

			Wolstanton	Silverdale	Chesterton	TOTAL
January	..	..	3	1	2	6
February	..	..		
March	..	..	2	3		5
April	..	..	1	1		2
May	..	..	2			2
June	..	..	3	1	2	6
July	..	..	2	1	3	6
August	..	..	4			4
September	..	..	4	1		5
October	..	..	3	4		7
November	..	..	8	8		16
December	..	..	5	2		7
Total			37	22	7	66

57 houses were infected.

Amongst these cases 9 deaths occurred, giving a mortality of 13.6 per 100 cases. This is a high mortality, and is chiefly due to the fact of the early symptoms of Diphtheria having been neglected. In at least 3 or 4 of these cases, medical assistance was not called in until within a few hours of death. The value of the Antitoxin treatment of Diphtheria is thereby lost, as it is successful in direct proportion to the day of the disease in which it is injected.

The death-rate per 1000 living from Diphtheria was 0.33. This is higher than the last two years in which it was 0.15 and 0.24 respectively.

28 cases—42 per cent, were removed to the Bradwell Sanatorium. Last year only 22 per cent of the cases were removed.

3 deaths occurred at the Bradwell Sanatorium among cases from outside the district.

Antitoxin continues to be supplied by the Council free of charge, for use in necessitous cases.

MEASLES

There has been no epidemic of Measles in the district during the year.

Closure of Schools

In consequence of an epidemic of Mumps at Knutton, the Knutton National Schools were closed on November 21st, for a fortnight and disinfected.

This is the only school that was closed during the year.

Constitutional Diseases

There were 38 deaths under this head, viz :—

Phthisis	...	...	13
Other Tubercular Diseases			16
Cancer	...	...	9

Phthisis.—The death-rate from Phthisis was 0.48 per 1000. This is lower than the last two years, in which it was 0.8. 3 of the deaths occurred in Chell Workhouse, and of the others 6 were in Wolstanton, 2 in Silverdale, and 2 in Chesterton,

SANITARY WORK.

The district has been thoroughly and systematically inspected, and altogether over 9,000 house to house visits have been made. In addition special visits to Cowsheds, Slaughter-houses, etc., have been made, as enumerated below.

422 nuisances and defects have been discovered, as enumerated on the accompanying table.

Slaughter-houses.

There are 19 Slaughter-houses, and 1 Knacker's Yard in the district, distributed as follows :—

Wolstanton	...	7
Silverdale	...	6
Chesterton	...	7

167 visits of inspection have been made during the year.

2 defective and broken floors were found, and these have been remedied.

Dairies, Cowsheds, and Milkshops.

There are 62 Cow-keepers on the register in the district, 40 of which have Dairies, and 5 Milksellers who do not keep Cows.

23 are in Wolstanton
25 „ „ Silverdale
19 „ „ Chesterton

127 visits have been made during the year. The Dairies were all found to be clean.

4 Notices to lime-wash Cowsheds were served during the year, and 1 nuisance was found from a choked drain. All these defects have been remedied.

	Number of		Abatement notices		Nuisances abated after notice by	
	Inspections & Observations made	Defects found	Informal by Inspector	Formal by Authority	Inspector	Authority
Foul Conditions	24	24	24		24	
<i>Dwelling-houses and Schools</i> { Structural Defects	46	46	46		46	
Overcrowding	4	4	3	I	3	I
Unfit for habitation						
Lodging Houses						
Dairies, Milkshops and Cowsheds	I27	5	5		5	
Bakehouses	38	I	I		I	
Slughter-houses	I67	2	2		2	
Canal Boats						
Ashpits and Privies	842I	I74	I66	8	I66	8
Deposits of Refuse and Manure	5	5	4	I	4	I
Water Closets	257	I5	I5		I5	
House Drainage-No Disconnection	I35	I35	I09	26	I09	26
Water Supply						
Pigsties	84	3	3		3	
Animals improperly kept ..	3	3	3		3	
Offensive Trades						
Smoke Nuisances						
Other Nuisances	5	5	5		5	
Totals ..	93I3	422	386	36	386	36

Precautions against Infectious Disease.

Lots of Infected Bedding Disinfected or Destroyed	5
Houses Disinfected after Infectious Disease	224
Schools ditto ditto	1

WILLIAM SIMCOCK, Sanitary Inspector.

Factory and Workshops Act, 1901.

The total number of Factories and Workshops at present on the register is 79. These include 4 Factories, and 75 Workshops.

The Factories are :—

- 1 Laundry
- 1 Earthenware Works
- 1 Cotton Factory
- 1 Bone Works

The Workshops and Homeworkers' premises include :—

- 15 Dressmakers.
- 3 Saddlers
- 17 Joiners and Builders
- 8 Blacksmiths
- 18 Bakehouses
- 12 Boot and Shoe repairers
- 2 Tailors

84 Visits of Inspection have been made.

2 Notices of occupation of Workshops have been received from H. M. Inspector of Factories during the year.

A Fire-escape has been erected at the Cotton Factory, Cross Heath.

The Privy accommodation at this Factory is insufficient, but will be remedied as soon as the new premises now in course of construction are completed.

1 Notice to lime-wash a Bakehouse has been served and complied with.

New Privy accommodation has been provided at the Bone-works.

All the Workshops were found to be in fairly good condition

Water Supply

The Water Supply to the District by the Staffordshire Potteries Water Works Company has been good, and no complaints have been received during the year.

Scavenging

This year the Scavenging of the District has been divided into 12 portions as follows :—

Wolstanton	3
Silverdale	3
Knutton	2
Chesterton	3
Longbridge Hayes	1

This has effected a very great improvement in the efficiency with which the scavenging has been carried out during the year, and has also effected a saving in cost.

Not nearly so many complaints have been received during the year.

The number of loads of ashes and night soil removed during the year and the cost per load are as follows :—

Wolstanton	4,845 loads at 1/11 per load
Silverdale	2,372 „ „ 2/6 „ „
Knutton	1,125 „ „ 2/8 „ „
Chesterton	4,517 „ „ 1/4 „ „
Longbridge Hayes	635 „ „ 1/9 „ „

18 Privy Cesspools have been converted into Water Closets, and 45 into earthenware Pans during the year.

Sewage, &c

The Sewage Disposal of the District remains the same as last year.

The following particulars of the Sanitary work done in the District during the last 12 months have been furnished by the Surveyor—Mr. W. F. Slater:—

The Gibsons Row, Chesterton, and Hempstalls sewers have been laid, and are working satisfactorily.

The main sewers in London Road, Church Street, and Cross Street, Chesterton, which had sunk owing to mining operations have been relaid.

The Holditch Sewage Farm has received considerable attention. The County Medical Officer, and Inspector, together with the Wolstanton Sanitary Committee and Officers, met on the Farm on Oct. 5th., 1906.

The cost of distribution of the Sewage having become a serious consideration, with the sanction of the County Medical Officer and the Council, I have in course of construction, large Detritus Chambers.

These will obviate the rapid clogging of the carriers, and effect a considerable saving.

The Tanks are arranged in such a position, that emptying will involve the least possible labour and expense; and on the suggestion of Dr. Reid they are so schemed that they will answer in conjunction with bacterial tanks and filters if these become necessary. To avoid this expense if possible, the surface of the land is being improved by levelling up depressions with suitable material, permission has been given to the tenant to plough the land which cannot be used for irrigation, and a new agreement has been entered into making the treatment of sewage the primary consideration.

Negotiations re. the out-fall site for the new Basford Sewage Scheme have been completed, and as soon as the sanction of the Local Government Board is obtained, operations will be commenced.

This scheme will relieve the Wolstanton out-fall sewer and the Holditch Farm.

I have the honour to be, Gentlemen,

Your obedient servant,

W. E. L. HORNER.

negotiations for the up-hill side for the new standard
scheme have been completed, and as soon as the
sanction of the Local Government Board is obtained,
operations will be commenced.

This scheme will relieve the Wolstanton out-fall sewer
and the Hothel Farm

I have the honour to be, Gentlemen,

Yours obedient servant,

W. A. L. HORNER.