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THE URBAN DISTRICT COUNCIL OF  
WATERLOO-WITH-SEAFORTH.

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ANNUAL REPORTS

OF THE

*Medical Officer of Health*


AND OF THE

*Sanitary Inspector*

FOR THE YEAR 1905.

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# ANNUAL REPORT

✻ FOR 1905. ✻

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The Chairman and Members of the  
Waterloo-with-Seaforth Urban District Council.

GENTLEMEN,

I have much pleasure in presenting you with this, my Thirty-second Annual Report as to the Health and Sanitary condition of the District during the past year. Appended you will find the Report of the Sanitary Inspector.

## INFECTIOUS DISEASES NOTIFIED.

Forty-five cases of Diseases of an infectious nature were notified to me in the Waterloo Division of the District. These occurred in 40 houses; 39 were treated in their own homes, of which 5 died. Six cases were removed to the Infectious Diseases Hospitals, Liverpool, in which institutions 1 died.

In the Seaforth Division 73 cases were notified from 62 houses; 29 cases were nursed at home and 2 died; 44 cases were removed to Hospital, of which 1 died.

The total number in the entire District was 118 cases in 102 houses; 49 were removed to the Infectious Diseases Hospitals, Liverpool, and 1 case to Mill Road Hospital, West Derby Union.

The following table gives the number of cases notified for the past ten years:—

1896	...	...	...	<b>200</b>
1897	...	...	...	<b>151</b>
1898	...	...	...	<b>214</b>
1899	...	...	...	<b>137</b>
1900	...	...	...	<b>131</b>
1901	...	...	...	<b>123</b>
1902	...	...	...	<b>162</b>
1903	...	...	...	<b>233</b>
1904	...	...	...	<b>152</b>
1905	...	...	...	<b>118</b>

The above table shows this year the smallest number of cases of Infectious Disease recorded since the passing of the Infectious Diseases Notification Act.

## HOSPITAL ACCOUNT.

The expenditure connected with the reception of patients into the Infectious Diseases Hospitals, Liverpool, was as follows:—

Cost of Maintenance of Patients in Liverpool			
Hospitals .....	£402	15	0
<i>Cr.</i> —Amount received in respect of maintenance of Patients in Hospitals .....	77	1	9
	<hr/>		
	£325	13	3
	<hr/>		

## SCARLET FEVER.

Twenty-one cases of this Disease occurred in 17 houses in the Waterloo Division; 19 were treated at home and 1 died, 2 cases were removed to Hospital and recovered.

In Seaforth Division 45 cases were notified from 34 houses; 22 of the patients were nursed at home, and 33 cases were removed to Hospital, and 1 died.

### Number of Cases notified for the past ten years.

1896	...	...	...	<b>98</b>
1897	...	...	...	<b>73</b>
1898	...	...	...	<b>132</b>
1899	...	...	...	<b>78</b>
1900	...	...	...	<b>77</b>
1901	...	...	...	<b>60</b>
1902	...	...	...	<b>116</b>
1903	...	...	...	<b>149</b>
1904	...	...	...	<b>66</b>
1905	...	...	...	<b>66</b>

Average for the last five years, 91.

## TYPHOID FEVER.

Four cases of this Disease were notified from the same number of houses in Waterloo Division; 3 were treated at home and 1 died, one case was removed to Hospital and died.

In Seaforth Division 9 cases occurred in 9 houses; 3 were nursed at home and 6 were sent to Hospital, no deaths occurring.

The number for the entire District was 13 cases in 13 houses situated in different localities. Seven cases were removed to Hospital.

Number of Cases notified for the past ten years.

1896	...	...	...	<b>63</b>
1897	...	...	...	<b>38</b>
1898	...	...	...	<b>55</b>
1899	...	...	...	<b>26</b>
1900	...	...	...	<b>30</b>
1901	...	...	...	<b>24</b>
1902	...	...	...	<b>16</b>
1903	...	...	...	<b>18</b>
1904	...	...	...	<b>21</b>
1905	...	...	...	<b>13</b>

The average for the last five years being 18.

I wish to point out the great reduction in the number of cases of this Disease during the past 10 years, which I attribute in a great measure to the improved sanitary condition of the District, such as the abolition of privies, sewer flushing, &c., and the free use of disinfectants.

### DIPHTHERIA AND MEMBRANOUS CROUP.

Eight cases were reported to me from 7 houses in the Waterloo Division; 5 were treated at home and 3 died; 3 cases were removed to Hospital and all recovered.

There were 5 cases in 5 houses in the Seaforth Division; 2 were nursed at home, 1 terminating fatally; 3 were removed to Hospital and recovered.

Total, 13 cases and 4 deaths.

Last year there were 42 cases of this Disease, resulting in 9 deaths, as against 13 cases and 4 deaths this year, which I consider to be a very satisfactory decrease.

### PUERPERAL FEVER.

One case of this Disease was notified in the Seaforth Division; the patient was removed to the Workhouse Hospital, West Derby Union. She was attended by a duly qualified medical practitioner.

### ERYSIPELAS.

Twelve cases occurred in Waterloo Division, and 11 in Seaforth Division; all recovered.

### MISCELLANEOUS NOTIFICATIONS.

Two notifications have been sent in of Diseases not scheduled under the Infectious Diseases Notification Act, viz.:—One of Measles and one of Tuberculosis. Inquiries were made in each case, and disinfection carried out where necessary.

## DIARRHŒA.

There is this year a decrease in the number of deaths from this Disease, 13 being recorded as compared with 17 last year. Of the deaths which occurred this year 10 were of infants under 1 year.

The leaflet I prepared on "Advice on the Feeding and Rearing of Infants," and which was ordered by the Committee to be printed, was circulated in the District early in the year, a number of copies being left with the Registrar of Births and with the Midwives.

The sale of Sterilized Humanized Milk has been continued throughout the year, and has proved valuable in many cases.

## MIDWIVES ACT, 1902.

I have been notified by several Midwives of their intention to practice in this District. I acquainted the County Medical Officer of Health in each instance, as he has this work under his immediate supervision.

## INSPECTION OF THE DISTRICT.

The Sanitary Inspector and myself have systematically inspected the District, and anything found likely to cause sickness duly reported and satisfactorily dealt with. The house-to-house inspection is still being carried out. We have also visited those places where nuisances were reported to exist, a detailed account of which will be found in the Sanitary Inspector's Report.

## VITAL STATISTICS.

### ZYMOTIC DEATH RATE.

The number of deaths registered in the District during the year from Diseases of an infectious nature was 25, which is a death rate of 0.95 per 1,000; 11 of these were in Waterloo Division, a death rate of 0.94, and 14 in Seaforth Division, a death rate of 0.97.

During 1904 53 deaths were reported, giving a death rate of 2.04 per 1,000 of the estimated population.

### Deaths from these causes were as follows: -

	Under 5 years.	Over 5 years.
Measles .....	3	1
Scarlet Fever .....	1	0
Whooping Cough.....	1	0
Diphtheria.....	3	1
Enteric Fever .....	1	1
Diarrhœa .....	13	0

### GENERAL BIRTH RATE.

There were 692 births registered in the District during the past year, viz.:—366 males and 326 females, giving a birth rate of 26·52. Of these 263 were in the Waterloo Division, 148 of which were males and 115 females, which gives a birth rate in this Division of 22·50. In Seaforth Division the numbers were 429, 218 males and 211 females, a birth rate of 29·77.

Last year the births were 662, giving a birth rate of 25·59.

### GENERAL DEATH RATE.

The deaths registered during the year numbered 275, showing a total rate of mortality for the entire District of 10·53 per 1,000 of the estimated population. Of these 119 were in Waterloo Division, giving a death rate of 10·18, and 156 in Seaforth Division, a death rate of 10·82.

In 1904 the deaths numbered 314, giving a death rate of 12·14 per 1,000 of the estimated population.

TABLE I.

URBAN DISTRICT OF WATERLOO-WITH-SEAFORTH.  
FOR WHOLE DISTRICT.

YEAR.	Population estimated to Middle of each Year.	BIRTHS.		DEATHS UNDER ONE YEAR OF AGE.		DEATHS AT ALL AGES. TOTAL.	
		Number.	Rate.*	Number.	Rate per 1,000 Births registered.	Number.	Rate.*
1.	2.	3.	4.	5.	6.	7.	8.
1895	20,296	559	27·54	78	139·53	286	14·09
1896	21,119	547	25·90	77	140·76	302	14·30
1897	21,824	548	25·10	86	156·20	270	12·37
1898	23,058	603	26·15	96	159·20	285	12·36
1899	23,880	595	24·89	91	152·94	288	12·05
1900	†22,500	575	25·55	76	132·17	305	13·55
1901	23,102	611	26·44	74	121·11	281	12·15
1902	24,236	635	26·20	79	124·40	291	12·00
1903	25,175	686	27·24	69	100·58	246	9·77
1904	25,863	662	25·59	83	125·37	314	12·14
Averages for years 1895-1904.	23,105	602	26·06	81	134·55	286	12·37
1905	26,093	692	26·52	66	95·37	275	10·53

Area of District in acres (exclusive of area covered by water)...740 acres.

Total Population at all ages, at census of 1901 .....23,102

Number of Inhabited Houses ,, ,, .....4,634.

Average number of Persons per house ,, .....4·75.

\*Rates calculated per 1,000 of estimated Population.

†corrected from Census Returns, 1901.

TABLE II.

## URBAN DISTRICT OF WATERLOO-WITH-SEAFORTH.

Names of Localities.	WATERLOO.				SEAFORTH			
	Population estimated to middle of each Year.	Births registered.	Deaths at all Ages.	Deaths under 1 Year.	Population estimated to middle of each Year.	Births registered.	Deaths at all Ages.	Deaths under 1 Year.
YEAR.	<i>a.</i>	<i>b.</i>	<i>c.</i>	<i>d.</i>	<i>a.</i>	<i>b.</i>	<i>c.</i>	<i>d.</i>
1895	8,465	181	118	30	11,831	378	168	48
1896	9,076	202	115	18	12,043	345	187	59
1897	9,470	191	106	34	12,354	357	164	52
1898	10,039	228	107	22	13,019	357	178	74
1899	10,331	197	116	30	13,549	398	172	61
1900	*9,646	211	125	31	*12,856	364	180	45
1901	9,839	248	107	26	13,263	363	174	48
1902	10,483	236	105	18	13,753	399	186	61
1903	10,967	251	97	23	14,208	435	149	46
1904	11,471	254	126	24	14,392	408	188	59
Averages of years 1895 to 1904.	9,978	220	112	25	13,126	380	174	55
1905	11,685	263	119	17	14,408	429	156	49

\*Corrected from Census Returns, 1901.

TABLE III.

## URBAN DISTRICT OF WATERLOO-WITH-SEAFORTH.

CASES OF INFECTIOUS DISEASE NOTIFIED DURING  
THE YEAR 1905.

NOTIFIABLE DISEASE.	Cases Notified in whole District.							Total Cases Notified in each Locality.		No. of Cases removed to Hospital from each Locality.	
	At all Ages.	At Ages—Years.						1.	2.	1.	2.
		Un- der 1.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 and up- wards	Waterloo.	Seaforth.	Waterloo.	Seaforth.
Diphtheria .....	13	...	5	5	1	2	...	8	5	3	3
Erysipelas .....	23	...	1	2	...	20	...	12	11	...	1
Scarlet fever .....	66	...	28	31	4	3	...	21	45	2	33
Enteric fever .....	13	1	...	5	4	3	...	4	9	1	6
Puerperal fever.....	1	...	...	...	...	1	...	...	1	...	1
Tuberculosis .....	1	...	...	...	1	...	...	...	1	...	...
Measles .....	1	...	1	...	...	...	...	...	1	...	...
Totals.....	118	1	35	43	10	29	...	45	73	6	44

TABLE IV.

## URBAN DISTRICT OF WATERLOO-WITH-SEAFORTH.

CAUSES OF, AND AGES AT, DEATH DURING YEAR 1905.

CAUSES OF DEATH.	Deaths in whole or belonging to whole District at subjoined Ages.							Deaths in Localities (at all Ages).	
	All Ages.	Under 1.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards.	Waterloo.	Seaforth.
Measles .....	4	...	3	1	...	...	...	4	...
Scarlet fever.....	1	...	1	...	...	...	...	1	...
Whooping-cough .....	1	...	1	...	...	...	...	1	...
Diphtheria and Membranous croup .....	4	...	3	1	...	...	...	3	1
Fever—Enteric .....	2	1	...	...	...	1	...	1	1
Diarrhoea .....	13	13	...	...	...	...	...	1	12
Enteritis .....	13	8	5	...	...	...	...	3	10
Phthisis (Pulmonary Tuberculosis) .....	20	...	...	...	3	16	1	7	13
Other tubercular diseases	13	6	2	2	...	3	...	5	8
Cancer, malignant disease .....	5	...	...	...	...	3	2	2	3
Bronchitis .....	11	2	1	...	...	2	6	5	6
Pneumonia .....	28	6	2	3,	3	11	3	14	14
Pleurisy .....	3	...	...	...	...	2	1	3	...
Other diseases of Respiratory organs .....	1	...	...	...	...	1	...	1	...
Alcoholism, Cirrhosis of liver.....	4	...	...	...	...	3	1	3	1
Premature birth .....	8	8	...	...	...	...	...	2	6
Heart diseases .....	20	...	...	...	...	11	9	14	6
Accidents .....	10	...	2	...	...	6	2	3	7
Suicides .....	2	...	...	...	...	2	...	...	2
Found drowned .....	4	...	...	...	...	4	...	2	2
All other causes .....	108	22	7	5	2	35	37	44	64
All causes.....	275	66	27	12	8	100	62	119	156

TABLE V.  
URBAN DISTRICT OF WATERLOO-WITH-SEAFORTH.

INFANT MORTALITY DURING THE YEAR 1905.

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

CAUSE OF DEATH.	Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Month.	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.	Total Deaths under one Year.
	<b>All Causes.</b>	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diarrhoeal Diseases.	...	...	1	...	1	...	2	3	1	2	...	...	...	...	...	1	10
	...	...	...	...	...	...	1	...	...	1	1	...	1	...	...	...	3
Wasting Diseases.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8
Tuberculous Diseases.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Other Causes.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Total																	66

\*Typhoid Fever.  
Population, Estimated to middle of 1905.....26,093.  
Births in the year, Legitimate, 681. Illegitimate, 11.  
Deaths from all Causes at all Ages.....275.

## Annual Report of Medical Officer of Health for 1905, for the Urban District of Waterloo-with-Seaforth.

### Factories, Workshops, Laundries, Workplaces and Homework.

#### 1.—INSPECTION.

Including Inspections made by Sanitary Inspectors or Inspectors of Nuisances.

Premises.	Number of		
	Inspections.	Written Notices.	Prosecutions.
Factories (Including Factory Laundries)	2	...	...
Workshops (Including Workshop Laundries.)	164	31	...
Workplaces ... ..	...	...	...
Homeworkers' Premises ... ..	3	1	...
Total ... ..	169	32	...

#### 2.—DEFECTS FOUND.

Particulars.	Number of Defects.			Number of Prosecutions.
	Found.	Remedied.	Referred to H.M. Inspec'r.	
<i>Nuisances under the Public Health Acts :</i>				
Want of cleanliness ... ..	20	20	...	...
Want of Ventilation ... ..	2	2	...	...
Overcrowding ... ..	3	3	...	...
Other nuisances ... ..	79	79	...	...
*Insufficient Sanitary accommodation.	1	...	...	...
<i>Offences under the Factory and Workshop Act :</i>				
Illegal occupation of underground bakehouse (S. 101) ... ..	2	2	...	...
Breach of special sanitary requirements for bakehouses (SS. 97 to 100).	4	4	...	...
Total ... ..	111	110	...	...

\*Section 22 of the Public Health Acts Amendment Act, 1890, has been adopted.

#### 3.—OTHER MATTERS.

Class.	Number.	
<i>Matters notified to H.M. Inspectors of Factories :—</i>		
Failure to affix Abstract of the Factory and Workshop Act (S. 133) ... ..	10	
<i>Underground Bakehouses (S. 101) :—</i>		
Certificates granted during the year ... ..	none.	
In use at the end of the year ... ..	4	
Number of		
<i>Homework :—</i>		
<i>Lists of Outworkers (S. 107) :—</i>		
Lists received... ..	1	1
Addresses of outworkers forwarded to other Authorities. do. do. received from do.	none. 1	
<i>Workshops on the Register (S. 131) at the end of the year :—</i>		
Workshop Bakehouses ... ..	25	
Dressmakers, Milliners and Tailors ... ..	24	
Laundries ... ..	12	
Total number of Workshops on Register...	*127	

\*This number includes 39 on Bakehouse Register.

W. S. LIMRICK,

Medical Officer of Health.

February, 1906.

## TABLE (C). COUNTY OF LANCASTER.

## SUMMARY OF MEDICAL OFFICER'S REPORT FOR 1905.

THE URBAN SANITARY DISTRICT OF WATERLOO-  
WITH-SEAFORTH.

- Area in Statute Acres—1,524.  
 Population (Census) 1901—23,102.  
 Population (Estimated) 1905—26,093.  
 Name of Medical Officer of Health.—W. S. Limrick. Salary, £110.  
 Births registered.—Male, 366; female, 326; total, 692.  
 Deaths registered (nett deaths belonging to the District).—Male, 130; female, 145; total, 275.  
 Number of Illegitimate Births registered, 11. Illegitimate Deaths under one year of age, 5.  
 Birth Rate, 26·52. Death Rate, 10·53. Rate of Infant Deaths, under one year, to 1,000 Births, 95·37.  
 Death Rate from the seven principal Zymotic Diseases per 1,000 of population, 0·95.  
 Diseases prevalent?—Scarlet Fever. Period?—November and December. What Action taken?—Cases removed to Hospital. Any Schools Closed?—No. If so, for what disease?—No.  
 What is the character of the Hospital Accommodation?—Good. Is it Joint or otherwise?—Joint, an arrangement to pay a certain sum per week for each patient, and a fee for each removal; no retaining fee paid.  
 Number of Beds available for the District?—Patients received in Hospital until full.  
 Number of cases treated?—Smallpox —, Typhoid Fever 7, Diphtheria 6, Erysipelas 1, Scarlet Fever 35, Puerperal Fever 1; total, 50.  
 Deaths in Hospital?—2. From what causes?—Scarlet Fever and Typhoid Fever.  
 How is Disinfection carried out?—Houses fumigated with Sulphur; Clothing, Bedding, &c., Superheated Steam. Apparatus used?—Washington-Lyon.  
 Number of cases of Infectious Disease Notified?—118.  
 Are any Diseases not specifically mentioned in the Act notifiable (for instance, Measles, Whooping Cough, Diarrhœa, Chicken Pox, &c.)? If so, what are they?—No.  
 Has any arrangement been made for the "voluntary" notification of Phthisis?—Yes, voluntary notification invited, rooms, bedding, &c., have been disinfected, disinfectants given upon application.

- Has any action been taken under "The Housing of the Working Classes Acts?"—No.
- How many houses condemned as unfit for human habitation, and how many closed or demolished.—None.
- From where is the Water Supply obtained, and what is its condition? Is it subject to your Inspection?—Liverpool Corporation Waterworks; good; yes.
- Is Scavenging carried out satisfactorily?—Yes. By Sanitary Authority or contract?—Sanitary Authority and contract.
- How is the Refuse disposed of?—Tipped and buried.
- What is the character of Drainage and the form of Sewage Disposal?—Water-carriage; Sewage discharged into the Estuary of the Mersey.
- Canal Boats (Number Inspected, &c.)?—None.
- What is the condition of the Bakehouses?—Satisfactory. Slaughterhouses?—None. Lodging Houses?—No common Lodging Houses. Are they registered?—20 sub-let Houses on the Register.
- Dairies, Cowsheds, and Milkshops:—Are they periodically inspected?—Yes. What is their condition?—Good. Are they subject to Regulations made under the Order of the Local Government Board?—Yes. What amount of air space in cubic feet is required for each cow?—600 cubic feet.
- Food unfit for Human Consumption. Amount seized?—None.
- Any Special Report of Medical Officer of Health during the year?—None.
- Department of Inspector of Nuisances:—No. of Notices served, 560. No. of Nuisances remedied, 3,014. No. of Legal Proceedings taken and result—2 cases; foul untrapped waste pipes, work done, summons withdrawn on payment of costs, 12s.
- Smoke:—No. of Observations, 31. No. of Legal Proceedings taken and result—2 Statutory Notices served. What is the time limit allowed for the emission of black smoke per hour?—None fixed.
- Has the Authority adopted—(a) "The Infectious Disease (Prevention) Act, 1890"?—Yes. (b) "The Public Health Acts Amendment Act, 1890"?—Yes.

W. S. LIMRICK,

February, 1906.

Medical Officer of Health.

# Sanitary Inspector's Annual Report, 1905.

TOWN HALL,  
WATERLOO, *February*, 1906.

TO THE CHAIRMAN AND MEMBERS  
OF THE URBAN DISTRICT COUNCIL  
OF WATERLOO-WITH-SEAFORTH.

GENTLEMEN,

I have the honour to submit my Annual Report of the work done in the Sanitary Department during the year 1905, together with particulars of nuisances abated and improvements effected thereby.

## INSPECTION OF THE DISTRICT.

The house to house inspection has been continued, a systematic inspection of the houses being made in 28 streets in both Divisions of the District. Premises were visited upon complaint from private persons and when infectious sickness occurred therein. Also a large number of references from the house drain flushers have been dealt with, the total number of such inspections being 1,627, which shows a great increase as compared with 1,112 last year. This is chiefly due to the large number of references from the flushers.

## NOTICES, &c., SERVED.

In consequence of the above inspections 462 preliminary notices were served upon owners or occupiers to abate nuisances or carry out some sanitary improvement, most of which received prompt attention. In 130 instances nuisances in connection with 162 houses were reported to the Health Committee, and statutory notices ordered to be served, but it was necessary to serve only 33 notices, as the nuisances were abated between the times of Committee and Council Meetings.

The various premises were visited during the progress of the work, with the object of seeing that the notices were complied with; the number of such re-inspections being 2,354. Also 64 letters were written to owners, &c., calling attention to notices which had not been complied with. I have also had frequent interviews with owners, occupiers, and contractors, in all parts of the District, relative to works required to be done.

## SMOKE TESTING.

The smoke test has been applied to the drains of 615 houses, and a large number of defective connections of sanitary fittings with drains were found, the particulars of which will be found in the Table at the end of Report.

Forty-one of the tests were at the expense of occupiers or intending occupiers, who were desirous of knowing the sanitary condition of the premises they were interested in. After the examination a report was sent to the persons who requested the application of the test.

## DRAINS.

Five hundred and seventeen defective drains have been repaired, relaid, or reconstructed, a large number being discovered with the aid of the Smoke-machine at the North end of the District, and at houses in the streets on the East side of Rawson Road, Seaforth. A number of these drains were connected direct to the sewer without the intervention of a suitable trap; 28 disconnecting traps have been fixed; inlet ventilation has been provided to 104 drains, and in 12 instances outlet ventilation has been obtained by 4in. shafts fixed at the head of the drains, and carried up above the eaves of house roof. In one instance a cesspool was abolished and the drains were connected to the sewer.

Sixty-five choked drains have been opened and cleansed, and 90 gullies fixed in lieu of defective gullies or mason's traps.

## PRIVIES.

Two privies have been abolished, and in one instance a water-closet provided, in the other case the privy was out of use, and was therefore entirely done away with, there being sufficient closet accommodation on the premises. It was not necessary to serve notices under Section 36, Public Health Act, 1875, as the owners did the work on service of preliminary notice.

## WATER CLOSETS.

Thirty-two choked closets have been opened and cleansed, while 100 new basins and 77 new traps have been fixed in lieu of foul and defective ones. At 125 premises defective roofs, walls, seats, floors, &c., were made good. A proper and sufficient flush of water has been provided to 26 closets, and 13 closet cisterns fixed or repaired; 421 connections of flush pipes with closet basins have been made watertight.

## SOIL PIPES.

In one instance syphonage was found to take place in a soil pipe with two closets fixed thereon, causing offensive smells. Anti-syphon pipes were fixed to each branch, which remedied the defect.

Ten soil pipes have been ventilated by 4in. shafts carried up to a safe point above eaves of roof, and 26 soil or ventilating pipes were renewed and made gastight. In 236 instances the joints of soil or ventilating pipes have been made sound, and 68 drains from such pipes repaired, while 79 connections of soil or ventilating pipes with drains and 19 connections of closet traps with branch soil pipes have been made good.

Choked ventilating pipes at 58 premises have been cleared.

### WASTE PIPES, &c.

Untrapped and defective waste pipes have been trapped or made sound in 127 instances, and 43 lavatory and bath waste pipes have been trapped and made to discharge separately in the external air; 7 choked waste pipes were cleared. In one instance a number of waste pipes in one house were branch ventilated to prevent syphonage.

Twenty-three rain water conductors have been disconnected from soil pipes or drains and made to discharge over trapped gullies, and 62 rain water pipes have been made good.

New salt glazed stoneware sinks have been fixed in two instances.

### FLUSHING OF HOUSE DRAINS.

The Surveyor has furnished the following particulars of the work done in his Department in connection with the flushing of house drains. The work was commenced on August 10th, 1905, and has been proceeded with continuously since that date.

In 1,163 instances drains were found to be in a choked condition and 991 were cleared by the flushers at time of visit. Where they could not deal with the chokages, or when other structural defects were found, a reference was made to the Sanitary Department; the number of such references being 1,270.

It might be mentioned here that a greater number of drain chokages, which were successfully dealt with by the flushers, were found at houses of large rental, while defects of a structural character were chiefly discovered in the smaller houses.

The following is a summary of the work done:—

No. of Houses visited .....	4,205
Do. Yard closets flushed.....	4,075
Do. Yard gullies flushed .....	8,778
Do. Gallons of water used .....	1,482,300
Do. References to Sanitary Department .....	1,270

In addition to the above a special flushing of the drains was done at houses where there had been infectious sickness.

## HOUSES LET IN LODGINGS.

These houses have been visited during the year, 116 visits being made, chiefly to houses on the Caradoc and Rectory Estates. There is an improvement in the cleanliness and ventilation of the rooms.

Eighty-two rooms have been measured, and space sheets, together with a copy of the Regulations, served upon the chief occupiers. In 16 instances rooms were found to be overcrowded, and upon verbal or written intimation, the number of occupants was reduced to be in conformity with the Regulations, by bringing more rooms into use, or by removal of one of the families.

In one house in Seaforth I found 3 adults and 4 children (2 boys and 2 girls) living and sleeping in one room, which would accommodate 1 adult and 1 child only. Both families left the house after written notice of the overcrowding.

Five houses have been struck off the Register, as they have ceased to be sublet, and 17 have been placed thereon, bringing the total number to 20 houses.

## COWSHEDS, DAIRIES AND MILKSHOPS.

Six applications to be registered as cowkeepers or purveyors of milk have been received, and all of them were granted after an inspection of the premises.

The cowsheds, dairies, and milkshops have been regularly visited, most of which were found to be in a clean and sanitary condition; 237 visits were made to the cowsheds, and 141 to the dairies and milkshops, and in every instance the limewashing, cleansing, and other matters required by the Regulations have been done. Also all notices served to remedy defects in connection with the premises have been complied with.

In two cowsheds overcrowding was discovered, the owners were warned, and they removed the excess number of cows upon verbal notice.

There are 37 cowkeepers and purveyors of milk on the Register.

## ANTHRAX.

A case of Anthrax was reported to have occurred in a shippon in this District. Upon inquiry it was found that the cow had been sent from Wales, and had been only a few days in the place, when it went off its food. The occupier found the animal in a very bad condition one morning, and after consultation with a local cowkeeper she engaged a butcher to kill it. The carcass was sent to Liverpool, where it was seized and destroyed.

The Local Inspector under The Contagious Diseases (Animals) Acts was informed of this, and I met him and the Veterinary Inspector the same evening at the shippon. Prompt measures were taken to have the place thoroughly disinfected and the manure in middenstead burned.

The occupier did not sell any of the milk from the cows in the shippon until the Veterinary Inspector had pronounced the place free from infection.

I obtained a sample of the milk sold, and submitted it to Professor Boyce, who certified it to be free from contamination.

### INSPECTION OF FOOD SUPPLY.

The food, &c., exposed for sale in the District has been regularly inspected, no seizure being made.

### EXAMINATION OF FOODSTUFFS.

During the year I submitted 51 samples of milk, 5 samples of ice-cream, 1 sample of cockles, and 1 of meat pie to Professor Boyce for bacteriological examination, and certificates have been received with regard to all of them, together with 12 certificates which were outstanding at the end of 1904.

**MILK.**—Of the 12 samples obtained last year, and not reported upon, 7 were obtained from local sources, in 4 of which the *Bacillus Coli Communis* was found, the remaining 3 being certified free from contamination.

Five samples were from persons outside the District, 3 being returned as free from contamination, and in 2 samples the *Bacillus Coli Communis* was present.

In the samples for this year, 25 were from local purveyors and 26 from persons residing outside the District.

The Tubercle Bacillus was not found in any of the samples. Of the 25 samples from local sources, 12 were certified free from indications of contamination, the *Bacillus Coli Communis* was discovered in 13 samples, and the *Bacillus Para Colon* was in 1 sample, while in 7 instances the guinea pigs died before the test was complete.

With regard to the 26 samples obtained from persons residing outside the District, 9 were returned free from indications of contamination, the *Bacillus Coli Communis* was certified to be in 17 samples, and in 3 cases the guinea pigs died before test was complete.

**ICE-CREAM.**—Five samples were submitted, and in 3 no trace of contamination was found; in 2 the *Bacillus Coli Communis* was discovered.

COCKLES.—One sample was obtained from a person residing outside the District, and the *Bacillus Enteritidis Sporogenes* was certified to be present.

MEAT PIE.—This sample was returned as free from evidence of contamination.

### STERILIZED HUMANISED MILK.

The sale of this milk has been continued throughout the year, and 4,513 baskets, containing 35,127 bottles, have been sold.

The arrangement which was made at the end of last year for an agent in the District to receive the milk and deliver it to customers is still in operation and works satisfactorily.

### ICE CREAM VENDORS.

The improvement which I reported last year in the condition of the premises where ice-cream is manufactured or sold, has been maintained this year.

The occupiers are anxious that the commodity should be sold under clean conditions, and they try as far as possible to sell the ice-cream in wafers in preference to supplying it in glasses.

### FOOD AND DRUGS AND MARGARINE ACTS.

The following particulars regarding samples obtained in the District under these Acts, and submitted for chemical analysis, have been furnished by Mr. Superintendent Cross:—

No. of Samples Purchased.	Description of Samples.	Proceeded against.	Convicted.
3	Butter .....	...	...
1	Calfs Foot Jelly.....	...	...
1	Coffee .....	...	...
2	Cream .....	1	1
1	Ginger .....	...	...
1	Honey .....	...	...
1	Margarine .....	1	1
9	Milk .....	1	1
1	Mustard .....	...	...
7	Pepper .....	3	3
5	Tea .....	...	...
3	Vinegar .....	1	...
2	Sugar .....	...	...
1	Condensed Milk .....	...	...
38		7	6

## PUBLIC ELEMENTARY SCHOOLS.

Complaints of offensive smells in class rooms have been received from teachers in two of the Schools. An inspection was made in each case and the matters satisfactorily dealt with.

The school drains and sanitary conveniences are flushed once a month by the Council's staff.

## FACTORY AND WORKSHOP ACT, 1901.

### WORKSHOPS.

There are 88 workshops on the Register, 9 being placed thereon this year.

One hundred and five visits have been made to the Workshops and Laundries in the District, 20 rooms required limewashing or cleansing, 13 rooms were measured, and 3 workrooms were found to be overcrowded, while 79 nuisances were discovered in connection with workshop premises and notices served, all of which were complied with.

One workshop was found to be without sufficient closet accommodation, and the work of making this provision is now in hand.

Infectious sickness occurred in two workshops, one in Seaforth and one in Waterloo. In each instance the patient was promptly removed to Hospital, and the premises, &c., disinfected.

His Majesty's Inspector of Factories and Workshops was notified of 8 workshops which were found to be unprotected.

### HOME WORK.

One list of outworkers has been received, the premises were inspected and found to be correct.

### BAKEHOUSES.

The bakehouses have been visited and were found to be in a satisfactory condition. In some instances limewashing was required, and this was carried out upon verbal intimation. Two bakehouses have been enlarged and the ventilation improved, and two new bakehouses have been erected.

Five certificates were issued last year to occupiers of underground bakehouses, and one was used for which a certificate had not been granted, but was closed in the early part of the year, and a bakehouse above ground level brought into use. Also an underground bakehouse for which a certificate had been obtained has ceased to be used for the purposes of baking.

I found an underground bakehouse being used in Seaforth, and no application had been made for a certificate. It was situated in a dark, ill-ventilated position, and did not comply with the Regulations adopted by the Council; therefore the occupier agreed to close it.

Two bakehouses were found to be unprotected, and the Government Inspector was notified thereof. There are now 39 bakehouses on the Register, and 64 visits have been made during the year

#### SUMMARY.

Number of Visits to Workshops .....	105
Do. do. Bakehouses .....	64
Do. Bakehouses Cleansed .....	6
Do. Workrooms Cleansed .....	20
Do. do. Measured .....	13
Do. do. Overcrowded .....	3
Do. Nuisances Found.....	79
Do. Workshops Found Unprotected .....	8
Do. Bakehouses Found Unprotected .....	2
Do. References to Government Inspector .....	10

#### TENTS, SHEDS, AND VANS.

The living vans coming into the District have been visited from time to time. They were found to be in a clean condition and free from overcrowding.

A case of Diphtheria was notified from one of the vans on Wallis's Field, and as the day following was Whit Monday, also in view of the large number of persons who were likely to visit the Show, the case was removed on Sunday, after which the van was taken to the other end of the field and disinfected. No further cases were notified.

#### INFECTIOUS DISEASES.

One hundred and eighteen cases of Infectious Disease have been reported upon, a large number of visits being made in connection therewith, and also to persons who were notified by outside authorities as having been exposed to the infection of Smallpox, or Plague, &c., either on board ship or elsewhere outside the District.

#### DISINFECTION.

One hundred and five rooms were disinfected and cleansed, paper being scraped off the walls where necessary. In 6 instances rooms were scraped and cleansed by the Council, at the request of persons upon whom notice was served, or in default of compliance with notice.

The steam disinfecting apparatus was used 277 times, 3,469 articles of bedding, &c., being disinfected, and 7 articles were destroyed.

## NIGHT SOIL CONTRACT AND ASHPITS.

The ashpits and bins in the District have been systematically emptied and disinfected by the Contractor, the pits every 3 months, or upon application, and the bins weekly.

The number of such emptyings being 62,961, which shows an increase of 5,353 over the figures of last year. Contraventions of the contract have been reported from time to time and dealt with by the Committee.

Sixty-six galvanized iron bins have been provided in lieu of ashpits, 45 foul and defective pits being filled in or made good, and 3 houses provided with ashbin accommodation.

## LEGAL PROCEEDINGS AND RESULTS.

Situation of Premises.	Nature of Complaint.	Act or Order under which proceedings instituted.	Result.
63 and 65, Rawson road, Seaforth.	Foul and untrapped bath waste pipes.	Section 94 P. H. A. 1875.	Work completed before day of hearing, and summons withdrawn on payment of costs, 12 shillings.

## SUMMARY OF WORK OF DEPARTMENT.

Number of houses inspected ... ..	1627
Number of houses re-inspected...	2354
Number of visits to workshops ... ..	105
Number of visits to bakehouses ... ..	64
Number of visits to cowsheds, dairies and milkshops ...	378
Number of visits to ice-cream shops ... ..	27
Number of visits to schools ... ..	18
Number of visits to sub-let houses ... ..	116
Number of times smoke test applied to drainage ... ..	615
Number of preliminary notices served ... ..	462
Number of statutory notices served ... ..	33
Number of houses in connection with notices ... ..	1004
Number of observations taken for black smoke ... ..	31
Samples of milk submitted for bacteriological examination	51
Samples of other foodstuffs submitted for bacteriological examination ... ..	7
Cases of infectious disease reported upon ... ..	118
Number of notices served to strip and cleanse walls ...	65
Number of Rooms fumigated ... ..	105
Number of times Disinfecting apparatus used ... ..	277
Bedding, clothing, &c., disinfected ... ..	3469
Letters written in connection with notices ... ..	64
Reports issued respecting sanitary condition of houses ...	39

## DETAILS OF SANITARY IMPROVEMENTS EFFECTED DURING THE YEAR.

### DRAINS.

Drains choked—opened and cleansed ... ..	65
Drains removed from under houses ... ..	1
Defective drainage, reconstructed, relaid or repaired ... ..	517
Disconnecting traps fixed ... ..	28
Heads of drains ventilated with 4-inch shafts ... ..	12
Inlet ventilation provided to drains ... ..	104
Gullies fixed in lieu of defective gullies, or mason's traps ... ..	90
Cesspools abolished ... ..	1

### WATER CLOSETS.

Choked closets opened and cleansed ... ..	32
Closet basins and traps substituted for defective ones ... ..	177
Closets provided with a proper and sufficient flush of water ... ..	26
Defective connection of flush pipes to closets made good ... ..	421
Defective closet cisterns repaired or replaced ... ..	13
Defective closet walls, roofs, floors, &c., repaired ... ..	125

### SOIL PIPES.

Soil pipe branches ventilated ... ..	2
Soil pipes ventilated with 4-inch pipes ... ..	10
Joints of soil pipes made gas-tight ... ..	236
Ventilating pipe connections with drains made good ... ..	98
Soil and ventilating pipes renewed ... ..	26
Ventilating pipes choked—obstructions removed ... ..	58

### WASTE PIPES.

Defective waste pipes trapped or made good ... ..	127
Choked waste pipes cleared ... ..	7
Bath and wash basin waste pipes disconnected and made to discharge separately over gullies ... ..	43
New salt-glazed stoneware sinks fixed ... ..	2
Rain water pipes disconnected from soil pipes or drains... ..	23

### WATER SUPPLY.

Premises supplied with water for domestic use... ..	16
Defective water pipes repaired ... ..	13
Water storage cisterns covered and cleansed ... ..	25
Water storage cisterns abolished ... ..	10
Offensive rain water cisterns emptied and cleansed, or filled in ... ..	9
References <i>re</i> waste of water ... ..	30

### FILTHY AND DILAPIDATED PREMISES.

Foul houses, walls, &c., stripped and cleansed... ..	13
Filthy house floors cleansed ... ..	4
Defective roofs made water-tight ... ..	44
Defective chimney flues repaired ... ..	2
Defective rain water pipes and eaves spouting made good ... ..	105
Choked rain water pipes cleared... ..	7
Defective house walls re-pointed ... ..	44

## PRIVIES AND ASHPITS.

Privy middens abolished	...	...	...	...	...	2
Ashpits filled in to ground level and paved	...	...	...	...	...	45
Foul ashpits abolished	...	...	...	...	...	34
Galvanized iron bins provided in lieu of ashpits...	...	...	...	...	...	66
Premises provided with ash accommodation	...	...	...	...	...	3

## MISCELLANEOUS.

Surfaces of yards repaired or re-paved	...	...	...	...	...	192
Nuisances from improper keeping of animals abated	...	...	...	...	...	6
Accumulations of offensive matter removed	...	...	...	...	...	15
Middensteads repaired and drained	...	...	...	...	...	2
Nuisances from overcrowding in houses abated	...	...	...	...	...	16
Overcrowding in cowsheds abated	...	...	...	...	...	2
Miscellaneous nuisances abated	...	...	...	...	...	65

I am, Gentlemen,

Your obedient Servant,

JOHN H. CANNELL, A. R. SAN. I.,

*Sanitary Inspector.*