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WALSINGHAM
RURAL DISTRICT COUNCIL



ANNUAL REPORT

of the

Medical Officer of Health

for the year 1952

to which is appended the

Report of the

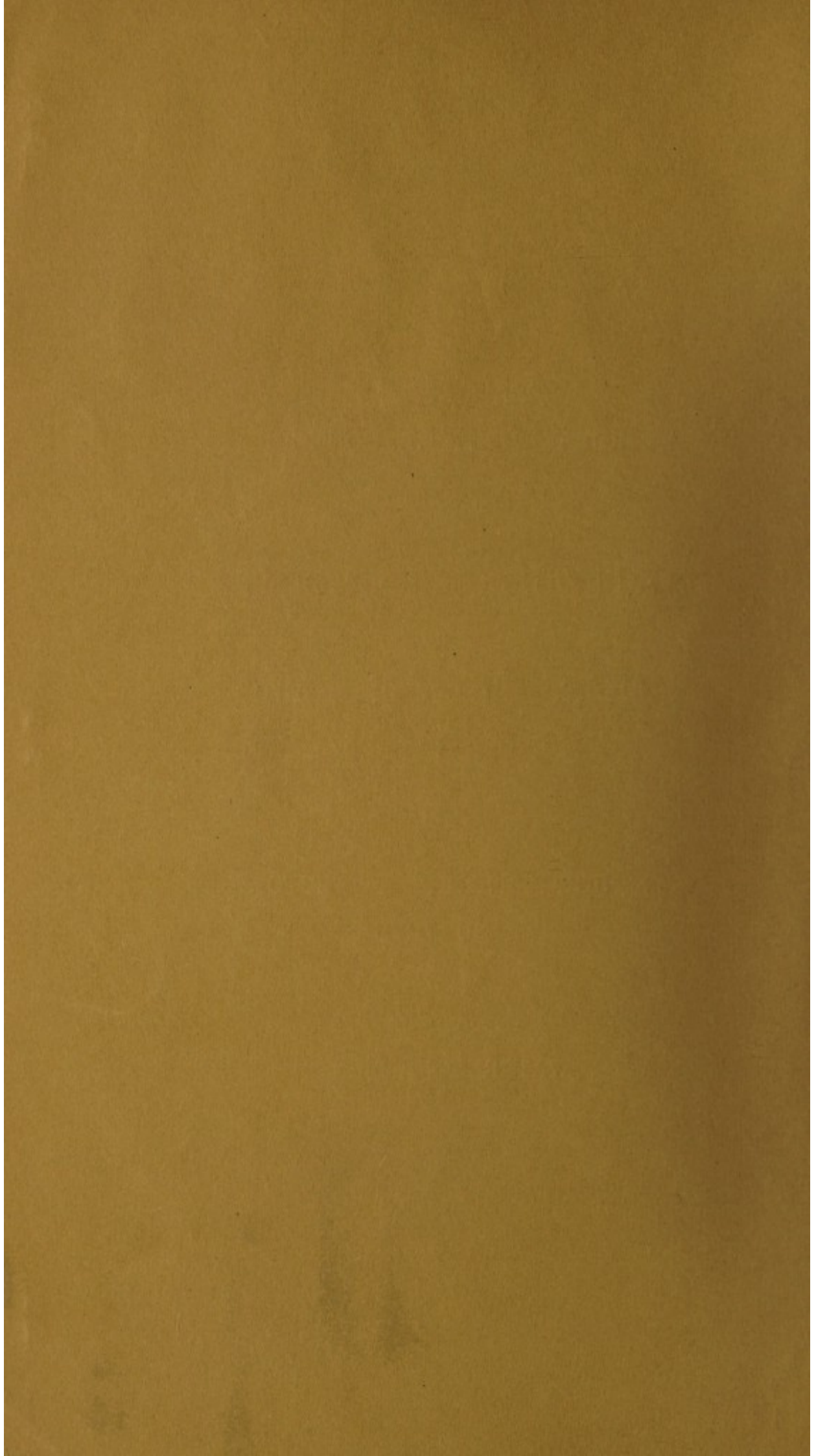
SENIOR SANITARY INSPECTOR

and **SURVEYOR**

and the

Report of the

WATER ENGINEER



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STAFF

Medical Officer of Health

J. C. JOHNSTON, M.B., B.Ch., B.A.O., D.P.H.

Surveyor and Senior Sanitary Inspector

A. H. EAGLE, A.M.I.S.E., M.R.San.I., Cert. S.I.B.
Cert R.S.I. as Inspector of Meat and Other Foods
Incorporated Sanitary Engineer

District Water Engineer

E. HAYMAN

Additional Sanitary Inspector and Deputy
Surveyor

W. E. RAMM, M.R.San.I., Cert. S.I.B.
Cert. R.S.I. as Inspector of Meat and Other Foods
(up to 26th March 1952)

Additional Sanitary Inspector

L. H. DOUGHTY, Cert. S.I.B.

Second Additional Sanitary Inspector

P. A. PAGE, Cert. S.I.B.
(from 1st May 1952)

Clerical Assistant

Mrs E. DODMAN

Clerk to the Medical Officer of Health

Miss M. HEWITT

WALSINGHAM RURAL DISTRICT COUNCIL ..

Local Health Office,
The Rectory,
Church Street,
WELLS.

ANNUAL REPORT OF THE MEDICAL OFFICER OF HEALTH FOR THE
YEAR ENDED 31st DECEMBER, 1952

INTRODUCTION

Mr Chairman, My Lord, Ladies and Gentlemen,

This has again been a busy year. I would especially draw attention to the visit to Fakenham of the Mass Radiography Unit. It is hoped that a further visit will be paid in 1954.

A low total of Infectious Diseases was recorded, with the exception of Measles. The latter was, however, by no means excessive.

The new pumping station at Houghton St Giles came into operation in May, making a piped water supply available to several more Parishes.

A marked improvement was made to the sewage disposal system at Hempton.

The Birth Rate has risen slightly, and the Death Rate fallen.

I would like to express my appreciation of the support given me by the Chairman and Members of the Public Health Committee, and by the Clerk, Senior Sanitary Inspector and Members of the Public Health Department in the fulfilment of my duties.

I have the honour to be,
Your obedient Servant,

J. C. JOHNSTON.

Medical Officer of Health.

To the Chairman and Members of the
Walsingham Rural District Council.

PART 1
(General Report of the Medical Officer of Health)

1. STAFF

Mr W. E. RAMM, Deputy Surveyor and Additional Sanitary Inspector left in March 1952. Mr P. A. PAGE, whole-time Additional Sanitary Inspector took up duties in May 1952.

2. INFECTIOUS DISEASES

(a) Measles

A somewhat higher total was reported than last year, but well below that for 1950. Measles tends to occur with a greater incidence in alternate years.

(b) Whooping Cough

Very few cases indeed occurred during the year.

(c) Scarlet Fever

Eight cases only were reported, representing a rate of one-fifth of that for the Country as a whole.

(d) Diphtheria

A single case was reported, in an adult.

(e) Poliomyelitis

One case only occurred, in an adult.

(f) Tuberculosis

Sixteen new cases were notified during the year, thirteen of them Pulmonary. The number of cases on the Register at the end of the year showed no significant change from last year.

(g) Pneumonia

The fourteen cases reported, while much in excess of last year are in fact about the average for England and Wales as a whole.

3. CANCER

The number of Deaths has fallen slightly, continuing the trend noted last year.

4. SEWERAGE

A very necessary improvement was carried out during the year at Hempton. Conditions elsewhere are on the whole bad, particularly at Blakeney and the Walsinghams.

5. WATER

Houghton St Giles Pumping Station and Gunthorpe Reservoir came into operation in May, making available piped supplies to Barney, East Barsham, Houghton St Giles, Great and Little Snoring, Thursford, Great and Little Walsingham, Wighton and Fakenham.

Routine bacteriological samples were taken from Houghton St Giles, Blakeney, and Hindolvestone, and all proved satisfactory.

6. HOUSING

No change in the position occurred during the year.

7. MILK AND DAIRIES REGULATIONS

No orders were served restricting Milk Supplies during the year.

8. FACTORIES ACT

During the year 24 inspections were made. In 4 cases defects were found, and of these 3 were remedied.

9. SHELLFISH

The position is unchanged.

10. ACCIDENTS IN THE HOME

An exhibit was again arranged for the Royal Norfolk Agricultural Show.

11. FOOD HYGIENE

Food premises were inspected by the Senior Sanitary Inspector, and in many cases faults were remedied.

12. ICECREAM

Samples are taken regularly for laboratory examination.

13. ANTHRAX

Two cases were reported during the year.

14. WELL WATER CYANOSIS

Samples of water continue to be taken from water supplies intended to be used for bottle feeding of infants. A high content of nitrate is known to be deleterious, and where this is found to be present alternative sources must used.

PART 11
(Medical Statistics)

TABLE 1 - GENERAL STATISTICS

Area (in Acres)	88,818
Estimated Resident Population	23,910
Rateable Value	£74,353
Sum Represented by a Penny Rate	£300

TABLE 2 - LIVE BIRTHS

	<u>Males</u>	<u>Females</u>	<u>Total</u>
Legitimate	142	175	317
Illegitimate	15	8	23
	157	183	340

Live Birth Rate per 1,000 of Estimated Resident Population 14.63

TABLE 3 - STILL BIRTHS

	<u>Males</u>	<u>Females</u>	<u>Total</u>
Legitimate	-	2	2
Illegitimate	-	-	-
	-	2	2

Still Birth Rate per 1,000 of Estimated Resident Population 0.08

TABLE 4 - DEATHS (ALL AGES)

	<u>Males</u>	<u>Females</u>	<u>Total</u>
	125	101	226

Crude Death Rate per 1,000 of Estimated Resident Population 9.45

TABLE 5 - INFANT MORTALITY (DEATHS OF INFANTS UNDER ONE YEAR)

	<u>Males</u>	<u>Females</u>	<u>Total</u>
Legitimate	7	2	9
Illegitimate	3	1	4
	10	3	13
Infant Mortality per 1,000 live births			0.54

TABLE 6 - CAUSE OF DEATHS OF INFANTS UNDER YEAR

<u>Cause of Death</u>	<u>Males</u>	<u>Females</u>	<u>Total</u>
6. Meningococcal infections	1	-	1
21. Other Circulatory Disease	2	-	2
23. Pneumonia	2	1	3
27. Gastritis, enteritis and diarrhoea ..	1	-	1
30. Pregnancy, childbirth, abortion ..	1	2	3
31. Congenital malformations	3	-	3
	10	3	13

TABLE 7 - CAUSE OF TOTAL DEATHS

<u>Cause of Death</u>	<u>Males</u>	<u>Females</u>	<u>Total</u>
1. Tuberculosis respiratory	-	1	1
2. Tuberculosis other	1	-	1
9. Other infective and parasitic diseases	1	1	2
10. Malignant neoplasm, stomach	5	1	6
11. Malignant neoplasm, lung, bronchus ..	1	1	2
12. Malignant neoplasm, breast	-	5	5
13. Malignant neoplasm, uterus	-	2	2
14. Other malignant and lymphatic neoplasms	5	6	11
15. Leukaemia aleukaemia	-	1	1
16. Diabetes	-	1	1
17. Vascular lesions of nervous system ..	14	23	37
18. Coronary disease, angina	15	7	22
19. Hypertension with heart disease .. .	-	2	2
20. Other heart disease	26	24	50
21. Other circulatory disease	3	3	6
22. Influenza	-	1	1
23. Pneumonia	4	2	6
24. Bronchitis	5	3	8
25. Other disease of respiratory system ..	1	-	1
26. Ulcer of stomach and duodenum	-	1	1
27. Gastritis, enteritis and diarrhoea ..	2	-	2
29. Hyperplasia of prostate	4	-	4
31. Congenital malformations	2	1	3
32. Other defined and ill defined diseases	23	10	33
33. Motor vehicle accidents	1	2	3
34. All other accidents	11	1	12
35. Suicide	1	1	2
36. Homicide and operations of war .. .	-	1	1
	125	101	226

TABLE 8 - DEATHS ACCORDING TO AGES

	Males	Females	Total
Under 1 Year	10	3	13
1 and under 5	2	-	2
5 and under 10	1	-	1
10 and under 20	1	4	5
20 and under 30	6	-	6
30 and under 40	1	1	2
40 and under 50	3	3	6
50 and under 60	7	6	13
60 and under 70	21	13	34
70 and under 80	35	31	66
80 and under 90	30	23	53
90 and under 100	6	3	9
	123	97	220
Total Adjusted (for Inward and Outward Transfers)	125	101	226

TABLE 9 - CANCER

The following table shows the incidence of Cancer Deaths during the past five years :-

	1948	1949	1950	1951	1952
Males	16	6	16	17	11
Females	18	9	26	15	14

TABLE 10 - SUMMARY OF VITAL STATISTICS

	1948	1949	1950	1951	1952
Population	17,550	17,990	17,862	23,270	23,910
Live Births	240	316	345	338	340
Still Births	7	2	11	3	2
Deaths	219	220	227	241	226
Infant Mortality	4	10	3	10	13

TABLE 11 - SUMMARY OF BIRTHS AND DEATHS RATES

	1948	1949	1950	1951	1952
Live Births	19.4	17.55	19.32	14.53	14.63
Still Births	0.4	0.11	0.62	0.13	0.08
Crude Deaths	12.5	12.78	12.71	10.36	9.45
Infant Mortality	11.8	31.6	8.7	29.59	0.54

TABLE 12 - BIRTHS RATES, CIVILIAN DEATH RATES, ANALYSIS OF MORTALITY, MATERNAL MORTALITY AND CASE RATES FOR CERTAIN INFECTIOUS DISEASES IN THE YEAR 1952, PROVISIONAL FIGURES BASED ON QUARTERLY RETURNS

	England and Wales	160 County Boroughs and Great Towns (including London)	160 Smaller Towns (Resident Population 25,000 to 50,000 at 1951 Census)	Walsingham Rural District Council.
RATES PER 1,000 Home Population				
<u>BIRTHS</u>				
Live Births	15.3	16.9	15.5	14.63
Still Births	(0.35 22.6(a)	0.43 24.6(a)	0.36 23.0 (a)	0.08 0.00

England and Wales	160 County Boroughs and Great Towns (including London)	160 Smaller Towns (Resident Population 25,000 to 50,000 at 1951 Census)	Walsingham Rural District Council.
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RATES PER 1,000 Home Population

DEATHS

All Causes	11.3	12.1	11.2	9.45
Typhoid and Paratyphoid ..	0.00	0.00	0.00	0.00
Whooping Cough	0.00	0.00	0.00	0.00
Diphtheria	0.00	0.00	0.00	0.00
Tuberculosis	0.24	0.28	0.22	0.08
Influenza	0.04	0.04	0.04	0.03
Smallpox	0.00	0.00	0.00	0.00
Acute Poliomyelitis (including Polioencephalitis)	0.01	0.01	0.00	0.00
Pneumonia	0.47	0.52	0.43	0.25

NOTIFICATIONS (CORRECTED)

Typhoid Fever	0.00	0.00	0.00	0.00
Paratyphoid Fever	0.00	0.00	0.00	0.00
Meningococcal Infection ..	0.03	0.03	0.03	0.08
Scarlet Fever	1.53	1.75	1.58	0.33
Whooping Cough	2.61	2.74	2.57	0.54
Diphtheria	0.01	0.01	0.03	0.00
Erysipelas	0.14	0.15	0.12	0.08
Smallpox	0.00	0.00	0.00	0.00
Measles	8.86	10.11	8.49	9.03
Acute Poliomyelitis (including Polioencephalitis) paralytic	0.06	0.06	0.06	0.03
Non-Paralytic	0.03	0.03	0.02	0.00
Food Poisoning	0.13	0.16	0.11	0.00
Puerperal Pyrexia	17.87(a)	23.94(a)	10.22(a)	0.00

RATES PER 1,000 Live Births

DEATHS

All causes under 1 year of age	27.6 (b)	31.2	25.8	0.54
Enteritis and diarrhoea under 2 years of age	1.1	1.3	0.5	0.8

- (a) Per 1,000 Total (Live and Still Births)
(b) Per 1,000 related live births

TABLE 13 - INFECTIOUS DISEASES (ACCORDING TO AGE GROUP)

	Under One	1	2	3	4	5	10	15	20	35	45	65	Age Unknown	Total
Scarlet Fever	-	1	-	-	-	7	-	-	-	-	-	-	-	8
Poliomyelitis	-	-	-	-	-	-	-	-	-	-	1	-	-	1
Pneumonia	-	-	2	-	1	2	-	-	2	1	5	1	-	14
Opthalmia Neonatorum	1	-	-	-	-	-	-	-	-	-	-	-	-	1
Meningococcal Infection	-	-	2	-	-	-	-	-	-	-	-	-	-	2
Diphtheria	-	-	-	-	-	-	-	-	-	-	1	-	-	1
Erysipelas	-	-	-	-	-	-	-	-	-	-	2	2	-	4
Dysentery	-	1	-	-	-	-	-	-	-	-	-	-	-	1
	1	2	4	-	1	9	-	-	2	1	9	3	-	32

TABLE 14 - MEASLES AND WHOOPING COUGH

	1948	1949	1950	1951	1952
Measles	118	7	451	137	216
Whooping Cough	82	11	209	111	13

TABLE 15 - TUBERCULOSIS (DETAILS OF NEW CASES DURING 1952)

Age Period.	Respiratory		Non-Respiratory	
	M.	F.	M.	F.
0	-	-	-	-
1	-	-	-	-
5	-	-	-	-
15	4	3	-	-
25	3	2	-	-
35	-	-	-	-
45	-	1	-	-
55	-	1	-	1
65	-	-	-	-
Over 65	-	-	-	-
Age Unknown	-	-	-	1
Total	7	7	0	2
Totals	14		2	
Grand Total	16			

TABLE 16 - TUBERCULOSIS (NUMBER OF CASES ON T.B. REGISTER ENDED 1952)

	Males	Females	Total
Pulmonary	36	28	64
Non-Pulmonary	3	8	11
	39	36	75

TABLE 17 - TUBERCULOSIS (DETAILS OF NEW CASES FOR LAST FIVE YEARS)

	1948	1949	1950	1951	1952
Pulmonary M.	6	6	9	6	6
F.	8	3	11	8	7
Non-Pulmonary M.	1	0	3	4	1
F.	1	1	1	2	2
	16	10	24	20	16

TABLE 18 - DIPHTHERIA IMMUNISATION SCHEME

The following table shows the immunisation state of the children in the Local Health Office Area No. 8., consisting of Docking and Walsingham R. D. Cs and Wells and Hunstanton U. D. Cs at 31st December 1952.

	Under School Age	School Age.	Total
Numbers immunised	1,808	5,036	6,844

PART III
REPORT OF THE SURVEYOR AND SENIOR SANITARY INSPECTOR FOR 1952

Mr Chairman, Ladies and Gentlemen,

The following is my Report for the year 1952.

1. RECORD OF INSPECTIONS

PUBLIC HEALTH ACTS

Initial Inspections	495
Revisits	263
Means of Escape from Fire	1
Smoke Observations	79

HOUSING ACTS

Housing Inspections	354
Revisits in connection with above	202
Visits in connection with applications for grants under Housing Act 1949	17

FOOD AND DRUGS ACT

Premises Inspected	224
Visits re manufacture and sale of Ice Cream	56
Visits to dairies and inspection of milk retailers' vehicles	81
Slaughterhouse Inspections	25
Visits re Shellfish	12

SEWERAGE

Inspections of sewerage systems, disposal works and sewer ditches	161
Visits to Fakenham Pumping Station	48
Visits to Fakenham Sewage Farm	27
Visits to Housing Sites in connection with proposed or existing sewerage and water supplies	24
Hempton Contract (Sewerage) visits	127

DISTRICT SCAVENGING

Visiting workmen on rounds, investigating complaints, etc.	153
Refuse Tips	72

FACTORIES ACT

Inspection of factories with power	11
Inspection of factories without power	10

BUILDING LICENSING CONTROL VISITS 68

BUILDING BYELAWS INSPECTIONS

Inspections during course of construction	753
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ROOMS DISINFESTED 14

INFECTIOUS DISEASES

Cases Investigated	84
Rooms disinfected	19

PETROLEUM ACTS

Installations inspected and tested	45
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SMALL DWELLINGS ACQUISITION ACT

Valuations and visits	6
-------------------------------	---

PREVENTION OF DAMAGE BY PESTS ACT

Inspections	125
---------------------	-----

KNACKER'S YARDS

Inspections	6
---------------------	---

Carried Forward 3,562

Brought Forward 3,562

MERCHANT SHIPPING ACT

Inspections re precautions on Pleasure Boats 2

STREET NAMING AND NUMBERING

Visits 27

OTHER VISITS

Not classified under the headings above but made in connection therewith 132

Total Inspections made 3,723

NOTICES SERVED - INFORMAL NOTICES

Public Health and Housing Acts 156

Milk and Dairies Regulations 1949 7

Food and Drugs Act 27

Factories Act 3

Building Byelaws 41

Petrol Storage Regulations 6

Prevention of Damage by Pests Act 1949 9

Total Notices served 249

FORMAL NOTICES SERVED

PUBLIC HEALTH ACTS

Permission to serve 6

Served 6

HOUSING ACTS

Permission to serve 6

Served 3

FOOD AND DRUGS ACT

Permission to serve 9

Served 6

PREVENTION OF DAMAGE BY PESTS ACT 1949

Permission to serve 1

Served 1

Total Formal Notices served 16

2. SHELL FISH INDUSTRY

It was hoped that a shell fish packing station, to be operated by a local fisherman, would have been established by the end of the year. Although plans of the project were deposited with the Council no further progress can be reported. I visited Southend-on-Sea and was shown many aspects of the cockle industry there by Corporation officials. In July Mr H. P. Sherwood, a scientist of the Ministry of Agriculture and Fisheries establishment at Conway was shown local aspects of the industry at Blakeney Harbour.

3. SLAUGHTERHOUSES AND KNACKERS YARDS

I reported on conditions at the Ministry of Food slaughterhouse at Wells where your Inspectors have relieved the local Inspector in the examination of meat in the past. My complaints were based upon the difficulties facing a Meat Inspector attempting to carry out the adequate inspection of meat.

Improvements in buildings, drainage and prevention of rat infestation were carried out with good results at one of the knacker's yards in Fakenham during the year and improvements at the only other similar establishment in the district were in hand at the end of the year. At the best these trades are obnoxious, and nuisance and the rat menace is kept down with great difficulty.

4. FOOD INSPECTION

During the year the following meat has been condemned as unfit for human consumption.

Home killed meat	198 lbs
Imported and canned meat	233 lbs
Fish	252 lbs
Other foods (including canned foods)	243 lbs

5. SMOKE ABATEMENT

My efforts under this heading have been concentrated on a laundry in the district and finally a modern automatically stoked furnace has been installed. Constant vigilance is necessary, however, to prevent a return to the ever present plume of black smoke.

6. SEWERAGE

A serious nuisance, and source of great expenditure because of the constant need of cesspool emptying, was eliminated by the completion by the end of the year of sewers connecting the East View, Hempton drainage system to the Pudding Norton Camp Sewerage system in a line across Hempton Green. In the remainder of the district bad conditions through lack of proper sewerage continue, especially in the Walsinghams and at Blakeney.

7. SEWAGE FARM, FAKENHAM

This sewage disposal area is a source of increasing concern to me. All sewage and a large proportion of storm water from the built-up area of Fakenham has to be pumped for distribution over about 12-acres. Peak pumping figures, shown by a recorder I installed in February, give a discharge of 80,000-gallons per day. Only the extraordinarily sandy subsoil has permitted the continued use of the farm since 1914.

The Council has had an agreement with a local farmer since October 1951, whereby no rent is paid for the occupation of the land but the contractor keeps about half of the available arable in a suitable condition for sewage absorption.

8. BUILDING BYELAWS AND BUILDING LICENSING

The effect of the cessation of major building works on the Duke of Westminster's Melton Estate was felt at the beginning of the year, but the lessening of building control and an appreciable increase in the number of owner-occupier houses being erected had almost offset the decline in building work in the district by the end of 1952.

Building licences to the value of £24,257. were issued during the year under review compared with a total value of £35,452. in 1951. Licences were issued to erect 28 private dwellings.

9. DISTRICT SCAVENGING

The purchase of a diesel 21 cu-yards compressing refuse vehicle in July had proved a source of economy in labour, fuel and mileage (by less travelling to tips) by the end of the year. The added advantage is its improved dustless loading when compared with the sideloading types of vehicles should not be overlooked.

During the year 1166 loads each of 750-gallons were removed from cesspools on Council Estates and 327 loads from cesspools at private dwellings. A load of 750-gallons is removed free of charge on demand from those premises where no nightsoil collection is made. Subsequent loads cost 15s/0d which appears a very reasonable figure when compared with contractors charges which are almost four times as great in some cases.

The value of salvageable paper and cardboard and the ability to find a market for it steadily deteriorated during the year. The amount of light metals salvaged was stepped up, however.

Labour for the undertaking has been more abundant in the current year than any year since the scheme's inception in 1946. Twenty two men are employed on refuse and nightsoil collection and cesspool emptying. With paid holidays and sickness the labour of at least one extra man is required throughout the year.

In all thirty two men are employed by the Council for scavenging, ditches and for pumping stations and sewerage system maintenance.

10. PREVENTION OF DAMAGE BY PESTS ACT 1949

During 1952, 7,252 premises were inspected by the rat-catchers, and of these 1,898 dwellings were treated. Poisoning of tips, buildings and other land belonging to the Council totalled 44 treatments. 230 non-domestic properties were treated and charges were made at 178 premises. A sum of £91. 10s. 10d. was charged in fees for poisoning. Records show that 2,559 bodies were picked up after poisoning.

11. WATER ANALYSIS

	R E S U L T S		
	TOTAL	SATISFACTORY	UNSATISFACTORY
Samples submitted to ascertain suitability as domestic water supply	57	40	17
Sea water samples submitted in connection with mussel industry	8	-	8
Water samples submitted to assess nitrate content in connection with Methaemoglobinaemia	23	14	9

I am, Mr Chairman, Ladies and Gentlemen,
Your obedient Servant,

A. H. EAGLE.

Surveyor and Senior Sanitary
Inspector

PART IV
REPORT OF DISTRICT WATER ENGINEER

Mr Chairman, My Lord, Ladies and Gentlemen,

I have the honour to submit my Report on the Waterworks undertaking for the year ended 31st October 1952.

1. FAKENHAM AND HEMPTON SUPPLY

Water pumped during the period 31st October 1951 to 29th May 1952, totalled 20,090,000 gallons.

HOUGHTON ST GILES PUMPING STATION

Water pumped during the period 29th May to 31st October 1952, totalled 25,319,000 gallons.

2. REGIONAL WATER SCHEME - SUB-STAGE IIA

Houghton St Giles Pumping Station and Gunthorpe Reservoir came into operation on 29th May 1952, offering a piped water supply to the Parishes of Barney, East Barsham, Houghton St Giles, Great and Little Snoring, Thursford, Great and Little Walsingham, Wighton and Fakenham. So far there has been a reasonable demand for piped water supply.

Properties in the Parishes of Blakeney, Field Dalling, and Hindolvestone will, in due course, be connected to the piped water supply served from boreholes on local Housing Sites.

House connections are being carried out by the Department's own staff, and so far good progress is being made.

Pumping at Fakenham and Little Snoring has been suspended for the present, the supply being drawn from Houghton St Giles, via Gunthorpe Reservoir.

A satisfactory supply has been maintained throughout the year, with very few disruptions.

3. WATER ANALYST'S REPORT

Regular bacteriological samples were taken from Houghton St Giles, Blakeney and Hindolvestone water supplies by the Public Health Department, and all these were satisfactory. (See attached certificates).

In conclusion I would like to express my thanks for the co-operation and assistance rendered to me by the Public Health Committee, the Clerk and Officers of the Council.

I am, Mr Chairman, My Lord, Ladies and Gentlemen,
Your obedient Servant,

E. HAYMAN.

District Water Engineer.

Pumping Station,
Houghton St Giles,
Little Walsingham.
July 1953

APPENDIX "A"
PUBLIC HEALTH LABORATORY SERVICE
PUBLIC HEALTH LABORATORY
ISOLATION HOSPITAL
BOWTHORPE ROAD
NORWICH

WATER
BACTERIOLOGICAL EXAMINATION REPORT

Copy sent to: The Medical Officer of Health, Norfolk

Authority or Sender: A. H. Eagle, Esq., Lab. Ref. No. 0.711
Walsingham R.D.C.

Nature of Sample: Water from deep well 170' deep. Sample taken from tap-
Council Offices, Baron's Hall, Fakenham. Fakenham and Hempton main supply.

Date and hour of collection: 6. 11. 52. 12.30 p.m.

Date and hour of arrival: 7. 11. 52.

R E P O R T

Date of Report: 10th November 1952

Plate Count. Yeastrel agar 2 days 37°C. aerobically per ml.

Probable number of coliform bacilli, MacConkey 2 days 37°C. 0 per 100 ml.

Probable number of faecal coli per 100 ml.

REMARKS

This sample is highly satisfactory

(Sgd) L. M. DOWSETT

APPENDIX "B"

LINCOLNE SUTTON AND WOOD

CLARENCE HOUSE

6, CLARENCE ROAD

NORWICH

Cert. No. 823D

16th December 1952

CERTIFICATE OF ANALYSIS OF WATER

Sample received from Walsingham R.D.C. 4. 12. 52.

Marked 62'6" well. Sample drawn 150 yds from Gunthorpe Reservoir 3. 12. 52.

Appearance when received: Clear Odour: Satisfactory

Colour: Taste: Satisfactory

Reaction: Practically neutral pH 7.4

Results of Chemical Analysis in Parts per Million

Ammoniacal nitrogen	0.01	Hardness as CaCO_3	
Albuminoid nitrogen	0.02	Total	296
Nitrate nitrogen	6.5	Carbonate (temporary)	246
Nitrite nitrogen	very ft trace	Non-carbonate (permanent)	50
Chlorine as chlorides	32.0	Alkalinity as CaCO_3	246
Oxygen absorbed (4hr. 27°C.)	0.08	Free carbon dioxide	12.0
		Total solids (at 180°C)	434
		Metals in solution - total	
		iron	0.10
		Zinc 2.0 other metals nil	

OPINION

This analysis differs only in details without significance from that of the sample submitted on the 24th November (our certificate No. 821 D). The remarks made on that certificate apply equally well to the present sample, the organic purity of which is without question. The only difference to be noted is that the present sample has picked up traces of iron and of zinc. These are quite without significance from the point of view of public health and this water is in our opinion well adapted to all the purposes of a public supply.

APPENDIX "C"
LINCOLNE SUTTON AND WOOD
CLARENCE HOUSE
6, CLARENCE ROAD
NORWICH

Cert. No. 822D

16th December 1952

CERTIFICATE OF ANALYSIS OF WATER

Sample received from Walsingham R.D.C. 4. 12. 52.

Marked 80/90' well, Blakeney Public Supply 3. 12. 52.

Appearance when received: Slight rusty deposit

Colour:

Odour: Satisfactory

Reaction: Slightly alkaline pH 7.7

Taste: Satisfactory

Results of Chemical Analysis in Parts per Million

Ammoniacal nitrogen	Trace	Hardness as CaCO_3	
Albuminoid nitrogen	0.03	Total	326
Nitrate nitrogen	18.5	Carbonate (temporary)	228
Nitrite nitrogen	Very ft trace	Non-carbonate (permanent)	98
Chlorine as chlorides	67.0	Alkalinity as CaCO_3	228
Oxygen absorbed (4hr 27°C)	0.12	Free carbon dioxide	6.0
		Total solids (at 180°C)	572
		Metals in solution - total	
		iron	0.65
		Other metals	Nil

OPINION

This water is of very good organic quality and there is no sign of active pollution. The water is of average hardness for the area and there is no undue salinity. The reaction of the water is slightly alkaline and corrosive action on metals need not be feared. A trace of iron is present, giving rise to a slight rusty deposit, but this of course is without effect on health. This water is quite suitable for use as a public supply.

APPENDIX "D"
LINCOLNE SUTTON AND WOOD
CLARENCE HOUSE
6, CLARENCE ROAD
NORWICH

Cert. No. 821 D

16th December 1952

CERTIFICATE OF ANALYSIS OF WATER

Sample received from Walsingham R.D.C. 24. 11. 52.

Marked 62'6" well, Walsingham Regional Water Scheme, Houghton Pumping
Station 24. 11. 52.

Appearance when received: Clear

Odour: Satisfactory

Colour:

Taste: Satisfactory

Reaction: Neutral pH 7.2

Results of Chemical Analysis in Parts per Million

Ammoniacal nitrogen	0.01	Hardness as CaCO_3	
Albuminoid nitrogen	0.02	Total	302
Nitrate nitrogen	7.5	Carbonate (temporary)	246
Nitrite nitrogen	Nil	Non-carbonate (permanent)	56
Chlorine as chlorides	30.0	Alkalinity as CaCO_3	246
Oxygen absorbed (4hr 27°C)	0.16	Free carbon dioxide	13.0
		Total solids (at 180°C)	415
		Metals in solution	Nil

OPINION

The short analysis carried in June 1952 (our cert. No. 329D) agrees well as far as it goes with the present analysis, except that the reaction of the water on that occasion was somewhat more alkaline than it is now. This water is of very good organic quality and free from any sign of active pollution. The water is hard, but not unduly so, and its reaction is almost neutral. This water would not be expected to have any serious corrosive action on metals and it is free from metallic contamination. This water is quite suitable for drinking and general purposes.



