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THE

FOURTH ANNUAL REPORT

OF

THE COMMITTEE

OF THE

MANCHESTER AND SALFORD

SANITARY ASSOCIATION;

BEING

A SUMMARY OF THEIR PROCEEDINGS FROM NOVEMBER, 1855,
TO NOVEMBER, 1856.

MANCHESTER :

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MANCHESTER AND SALFORD SANITARY ASSOCIATION.

Committee and Officers for the Year 1856-57.

Patrons.

The Right Honourable the EARL of DERBY,
The Right Honourable the EARL of DUCIE,
The Right Honourable the EARL of ELLESMERE,
The Right Honourable the EARL of WILTON, G.C.H.

President,

The Right Reverend the LORD BISHOP of MANCHESTER.

Vice-Presidents,

The Worshipful the MAYOR of MANCHESTER,
The Worshipful the MAYOR of SALFORD,
The Very Reverend the DEAN of MANCHESTER,

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Sir ELKANAH ARMITAGE,
Sir J. BARDSLEY, M.D.,
Sir JOHN POTTER,
J. HEYWOOD, Esq., M.P., F.R.S.,
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Deputy Treasurer.

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Mr. D. BELLHOUSE,
Mr. J. BERESFORD,
Mr. W. BOOTH,
Mr. J. BOUTFLOWER,
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Rev. C. BURTON, LL.D.,
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Mr. J. DUNN,
Mr. DUMVILL,
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Mr. E. REUSS,

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Dr. T. RADFORD, F.R.C.P.,
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M.A.,

Honorary Secretaries,

Mr. G. BOWRING, M.R.C.S.,
Mr. F. H. WALMSLEY, M.R.C.S.

Assistant Secretary.

Mr. J. C. BROOME.

Collector.

Mr. EASTWOOD,
Leamington Place, Brook Street.

OFFICES, 4, York Chambers, King Street.

Communications for the Central Committee may be addressed to—

Rev. CANON RICHSON, M.A., CHAIRMAN;

TO

The Honorary Secretaries. { Mr. G. BOWRING, M.R.C.S.;
„ F. H. WALMSLEY, M.R.C.S.;

OR TO

Mr. BROOME, Assistant Secretary, 4, York Chambers, King Street.

FOURTH REPORT.

THE COMMITTEE present their Fourth Annual Report, with an increased conviction of the necessity of duly sustaining in this locality an Association, which directs special attention to Sanitary improvements.

They feel they are justified in expressing this conviction, from a review of the operations of the Association they are about to detail.

(I.)—*Influence of the Association.*

The fundamental principles on which the Association is conducted, are intended to exert a popular influence in the widest sense, inasmuch as they not only provide for the instruction and elevation of the Working and Poorer Classes, but also diffuse a knowledge of subjects, in which every class of the community is almost equally interested. The good to be accomplished, may, in some cases, be effected by almost imperceptible and very slow degrees, and yet, the Committee are persuaded, that the operations of the Manchester and Salford Sanitary Association, which have now been steadily pursued during the last four years, have had a most beneficial influence in this vicinity, have helped forward "the Sanitary movement" in other parts of the country, and are likely to do the same, even beyond its limits.

It is almost impossible that such a Society as the present can devote its persevering attention to the acquiring and diffusing of information, local and general, in relation to Sanitary science, without

producing some good results. Its influence has undoubtedly been felt, even where its assistance has not been sought ; and among the Working Classes especially, its efforts are not a little appreciated ; as they show by their large attendance at its Lectures, their desire for its Tracts, and the consequent improvement in many of their homes.

(II.)—*Communications of the Committee with the Municipal and other Authorities, in relation to Public Nuisances.*

MANCHESTER CITY COUNCIL.

THE COMMITTEE have had occasion to address the City Council on two subjects: *The Abatement of the Smoke Nuisance; and the Facilities which are available for Purifying the Duke of Bridgewater's Canal.* On both these subjects, from their public character, the Committee thought it desirable rather to address the Council, by means of *Memorials*, than to seek any private conference by means of *Deputations*.

(i.) *The Smoke Nuisance.*

The MEMORIAL on the Smoke Nuisance, was presented to the Council by Mr. *Alderman Heywood*, Feb. 6, 1856. The following is a copy:

TO THE WORSHIPFUL THE MAYOR OF THE CITY OF MANCHESTER.

The MEMORIAL of the Committee of the Manchester and Salford Sanitary Association,

Respectfully sheweth,

That your Memorialists have had their attention drawn to the increase of dense Smoke arising from the Manufactories, Mills, and other Works within the City of Manchester ; and it has been alleged that such increase has occurred concurrently with the want of regularity in the system of Inspection.

That your Memorialists believe that such increase is unnecessary, as it has been sufficiently proved that the production of dense Smoke can be avoided, without any material inconvenience to the parties causing the Nuisance, and that such avoidance would frequently result in their pecuniary advantage.

Your Memorialists are therefore of opinion that no reasonable grounds exist for allowing the continuance of a Nuisance which is alike injurious to the health of the Inhabitants and detrimental to the property

of the City, and which inflicts an injury more grievous to the Working Classes than others, inasmuch as they are compelled from the nature of their Employment to live in the vicinity of the Establishments where the Smoke is produced.

Entertaining these views, and being persuaded of your anxiety to adopt every practicable method to promote the health and cleanliness of the City, your Memorialists most respectfully request you will direct such steps to be taken without delay, as may effectually abate the Nuisance of which they complain.

Signed on behalf of the Committee of the Manchester and Salford Sanitary Association,

C. RICHSON, M.A.,
Canon of Manchester, Chairman.

This Memorial was referred by the Town Council to the Nuisance Committee, who—supposing that the Committee had thought it necessary to take special evidence upon the subject—quoted, as from the Memorial, the following passage, “that the alleged increase in the Nuisance from Smoke had occurred concurrently with the want of regularity in the system of Inspection,” and instructed the Town Clerk, to request that “the statement of the evidence, upon which the allegation is founded or has been made,” might be forwarded to the Nuisance Committee.

This communication was replied to, by the following Minute of the Committee's proceedings :

Resolved,

That this Committee, in reply to the Town Clerk's letter, request the Chairman to state to the Chairman of the Nuisance Committee, that the passage just read as a quotation, does not occur in their Memorial *in the form given* ; but that they assume the part of the Memorial intended to be referred to is the following :

“It has been alleged that such increase” (of dense Smoke)
“has occurred concurrently with the want of regularity
in the system of Inspection ;”

Wherein the Committee represent only a fact, that such allegation has been made to them.

But, in reference to the subject itself, since the Nuisance from “dense Smoke” is the occasion of serious and repeated representations to this Committee ; both on the part of individual members of the

Committee and others, in the districts of Hulme, Garratt-road, Chester-street, Oxford-street, between Strangeways and the lower part of Red Bank, Ancoats, and many other parts of the City; and is stated from personal observation to occur repeatedly on almost every day; it appears to this Committee, as the Nuisance is allowed to be continued, a most legitimate inference, that either the proper Officer does not perform his duty in reporting such Nuisance to the Authorities, or otherwise, that the Nuisance is allowed to be continued in a very objectionable and improper manner.

And further, the Committee are aware that efforts were publicly made before the Magistrates some time since, to repress the Nuisance from Smoke, but of late they have heard of no such proceedings.

The Committee have not thought it advisable at present to make any further representation to the Town Council on the subject. They believe that steps are being taken to abate the Nuisance in some degree; but they are persuaded its full abatement, as far as practicable, will be secured only in proportion as correct information upon the subject is generally diffused. With this view they obtained insertion, in the local Newspapers, of a digest of the "Report from the General Board of Health," presented to Viscount *Palmerston* (then Home Secretary), July 20th, 1854.

From that digest it will be sufficient to make the following quotations, to show the importance of the course, which the Committee have adopted.

Evidence is adduced in favour of the suppression of the Smoke Nuisance from "*Joseph Heron, Esq., Town Clerk of Manchester,*" who, in his communication on the subject, states that "the practicability has been so often proved, and is now so easily demonstrated by reference to existing Works, that it is no longer disputed, but taken and admitted before the Justices,"—"but of course there are difficulties in many cases,"—and he concludes by remarking, "I feel that I may say, without fear of contradiction, that the result of our own experience has at least proved beyond dispute, that in few, if any, cases, can the impracticability of consuming Smoke be with propriety urged in justification or excuse for the Nuisance."

Among the inferences with which the Report is concluded, the following may be mentioned:

“That successful modes of preventing Smoke, if there be proper Boiler surfaces, may be adopted *without the infringement of any patent right.*

“That though the absolute and immediate prohibition of Smoke could not be enforced, without compelling most of the owners of furnaces to incur very heavy expenses, its reduction to a very small amount may be effected with comparative ease, and with very great benefit both to themselves and others.”

The Committee have entered at this length, into their proceedings in relation to the Smoke Nuisance; because it is a subject which has occupied much of their attention, and because they desire, if duly supported by the Members of the Association, to persevere in the same course, until the Nuisance, if not wholly prevented, is considerably abated.

(ii.) *Duke of Bridgewater's Canal.*

The MEMORIAL which the Committee addressed to the City Council on the means of purifying so much of the water of the River Medlock, as flows into the Duke of Bridgewater's Canal, was presented by Mr. Alderman *Shuttleworth*, on the 3rd of September last. The following is a copy:

TO THE WORSHIPFUL THE MAYOR OF THE CITY OF MANCHESTER.

The MEMORIAL of the Committee of the Manchester and Salford Sanitary Association,

Respectfully sheweth,

That, in the opinion of your Memorialists, the use of the Rivers which flow through the City of Manchester, as open common receptacles of the Sewage of the City, is in many respects highly objectionable.

That your Memorialists have caused experiments to be made in the case of the river Medlock, by competent persons, and with the assistance and co-operation of the Duke of Bridgewater's trustees; the results of which are reported to be as follows:—

1. That the Water received into the Bridgewater Canal can be purified by the application of Lime.

2. That this can be accomplished at an annual Cost of from £300 to £400.

3. That the Deposit will have some commercial value as a Manure, although not a very great one.

Your Memorialists, accordingly, believe that the Bridgewater Canal can be purified at a trifling cost; and although when compared with the important subject of effectually preventing the use of the Rivers generally as common Sewers, the purification of the Canal can be considered only as a preliminary step; yet, as showing the practicability of purifying the River, and as manifesting the usual interest of the Corporation of Manchester in subjects affecting the Sanitary improvement of the City, and also as conferring a great benefit on persons residing near the banks of the Canal, by abating a Nuisance created in Manchester, your Memorialists consider it would be in the highest degree important.

Your Memorialists, therefore, most earnestly request, that by co-operating with the Owners or Lessees of the Duke of Bridgewater's Canal, and the Owners of property on its banks, within a limited distance of the City, or by such other means as you may deem preferable, you would endeavour to secure the speedy and effectual Purification of the Water which flows from the river Medlock into that Canal.

Signed on behalf of the Committee,

C. RICHSON, M.A.,
Canon of Manchester, Chairman.

A summary of what occurred at the presentation of the *Memorial* is thus given in the *Manchester Guardian*, of September 4th:

"It was explained by the Town Clerk that no motion could (under the notice) be moved at present; but it was added, that no doubt some gentleman would hereafter move, that the Memorial be referred to one of the Committees.

"The Town Clerk said, he thought that if it could be shown to the Trustees that the Nuisance could be removed at the expense stated, they would not long hesitate to incur it."

Such a mode of dealing with a Memorial, involving subjects of most serious importance in relation to the Sanitary condition of this large City, the Committee regard as *very unsatisfactory*. The Committee will defer the further detail of their proceedings in respect to Sewer Rivers, to another part of this Report.

(iii.) *Other Subjects.*

The principal subjects with which the Committee have had to communicate with the Officers of the Corporation, are the following:—

1. An *alleged Injury to the supply of Water* in Clarendon-street, Hulme, from the contiguity of the Hydrant to a Drain.

2. *Alleged Nuisances* behind the Borough-buildings, London-road; which were promised to be abated.

3. *Alleged Nuisance* in Mosley-street; of which the Inspector undertook to secure the removal.

4. *Alleged Nuisance* arising from the *Chemical Works*, at Ardwick-bridge; the removal of which, it appears, must depend upon Private Efforts being made to raise a Subscription for the Legal Proceedings.

5. The *Vast Accumulation of Night Soil at the Dépôt in Water-street*; respecting which, the Sub-Committee appointed to report, state, that the Corporate Authorities are making considerable efforts to remove the accumulation, which they say is unavoidable in the summer. The Committee are, however, of opinion, that the "Nuisances Removal Act, 1855," requires amendment. *Section 8* gives very extensive powers for the removal of Nuisances, but is, nevertheless, practically nullified by the Proviso attached. In consequence of this defect in the Act, a large discretion is allowed in the removal or otherwise, of such accumulations, which the Committee consider inconsistent with a due regard to the public protection; and they must repeat their conviction, that it is very improper to allow such accumulations to be made in or near a crowded City.

The removal of the Night Soil also, from Middens, in some cases at nearly *Nine o'clock* in the Morning, is objectionable. This practice is sanctioned by Act of Parliament; but in a City, where a large proportion of the Inhabitants are proceeding to business at that hour, the Committee think it ought not to be allowed.

The Committee desire to express their obligation to the Municipal Committee of *Chorlton*, for the gratuitous use of rooms in the Town Hall, on several occasions; and to the following Members of the Corporation, for presiding at the delivery of Lectures within the City:—

Messrs. Aldermen *Barnes, Shuttleworth, and Watkins.*

Messrs. Councillors *Clark, M'Dougall, and Parnell.*

SALFORD TOWN COUNCIL.

During the last year, the Committee have not been called upon to make any direct representation to the Salford Town Council.

The *Chemical Works*, within the Borough, are still the occasion of much dissatisfaction in the neighbourhood, and also to persons residing at a distance, in the direction of prevailing winds.

The Committee desire to express their obligation to the following Members of the Town Council, for presiding at the Lectures of the Association :

His Worship the Mayor, *Stephen Heelis*, Esq.

Messrs. Aldermen *Agnew, Harvey, Higgins, Pearson*, and *Radford*.

Messrs. Councillor *Brownbill* and *Burgess*.

GUARDIANS OF THE POOR.

The Committee have not had occasion to address the *Guardians of the Poor* on any subject during the past year.

GOVERNMENT AUTHORITIES.

The Committee forwarded communications to the Home Secretary, in relation to Interments in Manchester, objecting to a proposition for making *Pauper Interments* exceptional to the general rule; and allowing, in such cases, an increased number of bodies in a grave. The proposition was not entertained by Government.

They also addressed the Home Secretary on a subject connected with the *Purification of Sewer Rivers*, which will be detailed in another part of this Report.

III.—*Operations of District Committees.*

During the last year, the District Committees have limited their efforts mainly, although not exclusively, to arrangements which provide for the Home Instruction of the People. Some of the District Committees continue still in abeyance, the Central Committee deeming it unadvisable, in the absence of any special stimulus to Sanitary enquiries, to attempt to re-organize them.

The following Extracts from the District Committees' Reports, will give a correct idea of the operations in which they have been engaged.

EXTRACTS FROM REPORTS OF DISTRICT COMMITTEES.

(i.) *Manchester.*

1. *Chorlton and Oxford Road District Committee.*—"The Committee arranged for *seven Lectures* to be delivered in the District, which were all attended by large and attentive audiences; consisting chiefly of the classes whom the Association are most desirous of interesting in the subject they have in hand.

"It is considered that on the average, at least 350 persons were present at each of the Lectures; making an aggregate of about 2,500 persons present at the Course; so that, by this means alone, the Committee have had the pleasure of communicating instruction to upwards of 2,000 individuals.

"The Committee have, with pleasure, received Letters from several quarters, expressive of the benefit which has resulted from this branch of their efforts; and therefore it is with the greatest regret that they find the Central Committee compelled again to diminish the number of Lectures to be given during the present season in the several districts; and also that they are unable to proceed with the issue of Tracts.

"*Several thousand copies of the Tracts*, formerly published, have been distributed during the past year. In many instances the Committee have had the satisfaction of receiving the most positive testimony to the beneficial results, arising from this simple but very valuable means of communicating information on Sanitary subjects.

"The Committee have not found it necessary to occupy so much of their time during the past year, in House-to-house Visitation, in consequence of the state of the district having been much improved. They do not, however, intend their efforts during the coming year to be wanting in this, which is one of the most important means of carrying out their objects.

"The Committee desire to impress most earnestly on the attention of the Central Committee, the necessity of persevering in their efforts for removing the Nuisance of Sewer Rivers.

"The Committee have been much gratified in observing how the various Schools and Institutions in the district are following their example in providing popular Lectures, as a means of conveying

instruction to the rapidly increasing population ; and they earnestly hope that their efforts may meet with the success which they deserve.

“ The Committee desire to thank the Corporation for the gratuitous use of the rooms in the Town Hall for the meetings of the Committee, and the delivery of Lectures ; and also the Managers of Schools, who have kindly lent their rooms for the latter purpose.

“ In conclusion, the Committee trust that the efforts, which they have made, and which have resulted in so much good, and been received by a large proportion of the public with so great satisfaction, will not be curtailed for the lack of Funds : but they feel it their duty to state, that unless they meet with a generous response to this expression of their requirements, they will not be able at the close of another year to give such a satisfactory Report of their proceedings.”

2. *Ardwick and London Road District Committee.* —“ Although the Committee have no startling or exciting facts to bring forward, they have much pleasure in reporting a steady and increasing improvement in the Sanitary condition of the district ; which gives them reason, they think, to be gratified with the result of their labours, and is a stimulus to greater exertions in the work they have in hand.

“ Seven *Lectures* were given in different parts of the district. They were all attended numerously ; the audiences varying in number from 300 to 1,500 persons.

“ The Committee very much regret that the Funds of the Association will not allow of a larger number of Lectures being given in the district ; nor of the continued publication of Tracts.

“ The Committee beg to express their sincere thanks to the gentlemen by whom the Lectures were given ; and to the Managers of the Schools, which were kindly permitted to be used.

“ During the past year, the Committee distributed a large number of the Tracts of the Association.

“ The Night Soil Depôt at the *Ardwick Railway Station*, having been again the subject of complaint, the Committee urged upon the Corporation the necessity of its removal ; in this they were unsuccessful. A Deputation was appointed in *March* last, to wait upon the Superintendent of the Depôt, who promised improvements should be made ; and

since that time, the Committee have not received any further communications on the subject.

"The Committee desire to extend their operations in relation to 'House-to-house Visitation,' and are anxious to increase their numbers for that purpose.

"Their experience, particularly during the past year, has convinced them that much may be done in the way of Sanitary improvements by means of friendly interviews with the Owners and Occupiers of property, where Nuisances exist. In confirmation of this, they report, with much pleasure, the success of a Deputation sent to the Proprietors of the Bone Works at Gorton. The Deputation was received most courteously by the Proprietors, who promised to do all in their power to abate the Nuisance; and stated that they would raise their chimney, and make arrangements, whereby the offensive steam 'arising from the pans in which bones and offal were boiling,' should be conducted into a furnace and consumed.

"The Committee cannot yet report the removal of the so called 'temporary erections' in London-road and Ancoats; but they hope to procure their discontinuance as Dwelling-houses.

"In concluding their Report, the Committee desire to express their thanks to those friends, who responded to their appeal for increased Subscriptions towards the Funds of the Association." (*See Page 45.*)

3. *Deansgate District Committee.*—"The Committee express great gratification in not having to notice any excess of Mortality from the inroads of epidemic, or from the existence of any disease of an unusual or malignant character.

"Owing partly to the absence of extreme heat in the summer, and partly, the Committee are encouraged to believe, to the improved condition of the streets, alleys, &c., in the district, the Committee have not felt themselves called upon to make any formal complaint in respect to those portions of the district.

"The large accumulation of Night Soil in *Water-street*, has again demanded their notice. The Committee believe that the Corporate Authorities do all they can to manage the *Depôt* well, but still it is a Nuisance.

"The melting of Tallow in *Quay-street* has been the occasion of

much complaint; but it is hoped that steps are being taken which will greatly diminish its offensiveness.

"The Committee would wish, however, to guard against the impression that they consider their labours uncalled for, or that the Deansgate District is not a field requiring great and continuous exertions to free it from the evils, which exist to a frightful extent within its boundaries; on the contrary, although, during the past year, they have abstained from that systematic visitation previously carried out, they still look forward to a vigorous recommencement of their more active duties.

"The Committee cannot close their Report, without offering to the Central Committee their congratulations on the evident good effect produced by the system of Lectures:—an effect, of which they do not think an adequate estimate can be made without an immediate visitation of the district. They feel assured that the investigations of Sanitary Science are more anxiously and intently studied by the Poorer Classes, than their more prosperous neighbours are apt to give them credit for; and that any knowledge on those interesting subjects is more gratefully received and more promptly acted upon than has been expected."

(ii.) *Salford.*

4. *Salford District Committee.*—"Numerous Reports of the Sanitary condition of various parts of the Borough (of *Salford*) have, in past years, been presented by the District Visiting Sub-Committees. These Reports afford reliable and tolerably efficient data, whence comprehensive general conclusions may be deduced, respecting the more usual forms of defective construction, ventilation, and drainage of Habitations, with instances of over-crowding.

"They include particulars of the condition of cess-pools, &c.; of the characteristics of the close court and the confined entry; and of the comparative appearance of the paved and the unpaved street; with the degree of attention paid to each respectively, in Scavenging operations.

"The monster Nuisances of the Smoke and the River, have been dwelt upon; together with the offensive character of the effluvia from several Manufactories situated on the banks of the River.

“ In addition to particulars of this nature, obtained by its own Members, the Committee have received communications of kindred import from inhabitants of the Borough, who have had no official connection with the Association.

“ The Committee are aware that the Council of the Borough are actuated by the most earnest desire to accomplish the physical amelioration of their constituents; that their attentions are unceasing; and the results of their exertions, abundantly manifest and gratifying. That a considerable improvement in the general health of the community is the present encouraging reward, is freely acknowledged by the Medical practitioner, and other careful observers of the connection between cause and effect, in this particular. But the Committee are also aware, that the powers conferred upon the Municipal Corporation, by their Act for the government of the Borough, are inadequate to the accomplishment of all the improvements which would confessedly promote physical and moral advancement, and conduce to increased longevity.

“ Members of the Committee have, therefore, felt it to be undesirable to continue the reiteration of complaint, where perfect familiarity with the truth exists, and where this intimacy of acquaintance is conjoined to the best possible disposition to undertake all that is needed, but which the Authorities are restricted from attempting. Should the Council obtain additional powers, and be enabled to deal more effectually with what can be shown to be inimical to health, the resumption of the duties of the District Visiting Sub-Committees, would materially facilitate the exposure of Nuisances.

“ The *Lectures* were eminently successful. Gentlemen of high attainments in their respective professions kindly afforded their gratuitous assistance. The audiences included many members of the class for whose benefit more especially the Association had its origin; and the attendance has been increasingly numerous. In the Session 1854-5, thirteen Lectures were delivered, to an aggregate of about 2,910 individuals. During the Session 1855-6, ten Lectures only were delivered, but the attendance thereat amounted to about 3,850. The average attendance at each Lecture has consequently risen, from 224 in 1854-5, to 385 in '55-6. The conclusion is irresistible—the position and high importance of the Sanitary Association are appreciated by the

public; but of the practical good it has effected, who can form an adequate conception?

"The Committee gladly confess they owe a deep debt of gratitude to the Managers of Sunday Schools, for enabling them to bring their important truths to the doors of those they wish to instruct. It is cheering to be able to affirm, that they have never received a negative, when the use of a room has been solicited. Their acknowledgments are also due to the Worshipful the Mayor, and to the Directors of the Mechanics' Institution, for gratuitous Lecture accommodation. The Committee anticipate with interest the approaching Session of 1856-7. They deeply regret, however, the necessity for a further reduction in the Number of Lectures to be delivered, arising from a deficiency in Pecuniary contributions."

(iii.) *Honorary Secretaries of District Committees.*

The thanks of the Central Committee are specially due to the following gentlemen, whose indefatigable exertions during several years as Honorary Secretaries to their several District Committees, have been most exemplary. Mr. *George Powlson*, (Salford); Mr. *J. W. Maclure*, (Chorlton and Oxford-road); and Mr. *C. H. Knight*, (Ardwick and London-road); also Mr. *Isaac Holden*, Junr., for the interest he has taken in the *Deansgate District* during the last year.

IV.—*Public and Home Instruction of the People.*

The success of the Association in the delivery of Lectures, which, in the fullest sense of the term, "*popularizes*" an attention to Sanitary regulations, is the source of great encouragement to the Committee. The interest felt in these Lectures by the Working Classes is evidenced by their large attendance; and their great attention on every occasion, shows that the subjects and language of the Lectures, were such as they understand. The number of persons present at each Lecture has varied from 250 to 1,500.

The following circumstance may serve to illustrate the interest excited by the Lectures, and the desire which exists for information on Sanitary subjects. At the close of one of the Lectures, in the Chorlton

and Oxford Road District, a *Working Man*, who rose to second a vote of thanks to the Lecturer, said—

“He would speak as a representative of his class, and acknowledge that they owed a great debt of gratitude to the Lecturers, and, more especially, to the Association, for providing such valuable instruction. He and a few of his friends had associated to endeavour to carry out the suggestions which had, from time to time, been made to them respecting Ventilation, Domestic and Personal Cleanliness, &c.; and he hoped that other members of his own class would, in like manner, endeavour to give practical effect to the instructions they received.”

The Committee desire to express their obligation to the gentlemen who, as on former occasions, have given much time, and evinced great ability, in the numerous Lectures, of which a list is appended.

The usefulness of the Association, in respect to Lectures, is not to be estimated merely by those, which have been given under their auspices.

They have set an example, which has been taken up and followed in various directions; and since the period when the Association first showed the advantage and practicability of gathering the Working Classes together in School-rooms, to receive instruction in physiological science, Courses of Lectures, intended for the home advantage and physical benefit of the same class, have been independently introduced, in connection with many Schools.

The Association, may therefore, lay claim to at least a share of the impetus, which has been given in that direction.

It has been a chief aim of the Association, from the earliest period of its institution, to diffuse correct information on Sanitary subjects in such manner as will be most likely to secure the intelligent attention of the public in this district. In other places, and chiefly in the Metropolis, men of science have devoted much time to investigations which are calculated to promote Sanitary improvements; and the Committee are of opinion, that it would materially help forward the great object they have in view, and be quite in accordance with the principles upon which they have acted, if they were able from time to time, to induce such persons to visit Manchester, and read Papers, or in any way, give “Expositions,” on the subjects to which they have devoted much attention. This project has received their very serious consideration; and they desire, if possible, to make an effort in that direction, in the course of the ensuing winter.

LECTURER.	Subject.	No. of times repeated.	Places.
Mr. T. TURNER, F.L.S., F.R.C.S.	<i>Man, as a Living and Think- ing Being.</i>	1	Town Hall, Chorlton.
Ditto	<i>The Value of Life.....</i>	1	Ebenezer Wesleyan School, Red-bank.
Ditto	<i>Nature's Provisions for the Physical Wants of Man.</i>	1	National School, Great George- street, Salford.
Ditto	<i>Good Living, in its Physical and Moral Aspects.</i>	1	Independent School, Liverpool- street, Salford.
Ditto	<i>Household Duties, in connec- tion with Health and Hap- piness.</i>	1	St. Barnabas' School, Butler- street.
Ditto	<i>Ignorance of the Laws of Health a prolific source of Physical and Moral Evil.</i>	1	Wesleyan School, Borough- buildings, London-road.
Mr. W. SMITH, F.R.C.S.	<i>Health, and How to Keep it (part 2).</i>	2	St. Thomas's School, Ardwick- green. St. Bartholomew's School, Re- gent-street, Salford.
Prof. F. CRACE CALVERT, F.C.S., M.R.A.T.	<i>Trifles which Destroy Life.</i>	1	Town Hall, Chorlton.
Ditto	<i>The Air we Breathe</i>	1	All Saints' School, Chorlton.
Dr. R. A. SMITH, F.C.S.	<i>Atmospheric Air and the Weather, in reference to Health.</i>	1	St. Peter's School, Fleet-street.
Ditto	<i>The Surface of the Earth, in its relation to Living Beings.</i>	1	Temperance Hall, Clarendon- street.
Rev. Canon STOWELL, M.A.	<i>The Health and Comfort of the Working Classes mainly dependent on themselves.</i>	1	Town Hall, Salford.
Ditto	<i>The Domestic Economy of a Working Man's Home.</i>	1	Town Hall, Chorlton.
Rev. J. RICHARDSON, M.A.	<i>Happy Homes—Where are they?</i>	3	St. Ann's School, Queen-street. Presbyterian School, Mill-st. London-road District School, Fairfield-street.
Mr. A. W. DUMVILLE, F.R.C.S.	<i>What is Health?</i>	2	Temperance Hall, Grosvenor- street. Wesleyan School, Chancery- lane.
Ditto	<i>Personal and Domestic Clean- liness.</i>	1	All Souls' School, Every-street.
Mr. J. S. FLETCHER, M.R.C.S.	<i>The Chest, its Contents, and the means of preserving them Healthy.</i>	1	Bridge-street School, Ardwick.
Ditto	<i>Long Life, and how to attain it.</i>	1	St. John's School, Mile's-plat- ting.
Ditto	<i>Health and Life</i>	1	Lower Mosley-street School,

LECTURER.	Subject.	No. of times repeated.	Places.
Mr. R. W. LEDWARD, M.R.C.S.	<i>The House I Live in.....</i>	1	St. Jude's School, Canal-street.
Rev. J. BEDFORD.....	<i>Obstacles to Home Comfort..</i>	2	Gravel-lane Wesleyan School, Salford. St. Andrew's School, Travis-st.
Rev. St. V. BEECHEY, M.A.	<i>The Longevity of Man</i>	2	Roby School, Aytoun-street. Christ Church School, Hulme- street, Salford.
Rev. JAMES BARDSLEY, M.A.	<i>Signs of the improved Social and Sanitary Condition of the People.</i>	1	All Saints' School, Chorlton.
Mr. A. J. SCOTT, M.A..	<i>The Dependence of the Mind on the Body.</i>	1	Mechanics' Institution, Salford.
Mr. JOHN BOUTFLOWER, M.R.C.S., assisted by Mr. WANGLYN.	<i>Food</i>	1	Wesleyan School, Irwell-street, Salford.
Mr. I. HOLDEN	<i>The Dwellings of the Work- ing Classes.</i>	1	St. Matthias' School, Brough- ton-road, Salford.
Mr. T. J. WILKINSON, F.R.C.S.	<i>The Misery of Dirt</i>	1	Independent School, Chorlton.
Mr. R. T. HUNT, M.R.C.S.	<i>The Sanitary Management of the Eyes, in relation to Disease and Injury.</i>	2	Independent School, Chapel- street, Salford. St. John's School, Gartside- street.
Total No. of Lectures		35	

TRACTS.

The state of the Funds of the Association, forbade any additional expense in printing Tracts.

Of those which had been printed in previous years, a large number have been placed in the hands of the Committee, to be distributed.

The Committee repeat the names of Tracts, recommended by a former Sub-Committee to be published, although they cannot undertake such expense, until their financial position is more satisfactory.

1. "*Hints on Clothing, in respect to Warmth and Shape.*"
2. "*Articles of Food, their Varieties and Qualities.*"
3. "*The Preparation of Food, particularly for the Working Classes.*"
4. "*A Series of School Tracts on Sanitary Science.*"

Nos. 7, 8 and 4, the Committee specially regret their inability to publish.

OTHER PUBLICATIONS; AND THE PRESS.

The Publications issued by the Society during the year have been—

1. "MINUTE of COMMITTEE (*Monday, March 17th, 1856,*) on the EXPERIMENTS made by Dr. *R. A. Smith*, and *Alexander M'Dougall*, Esq., and also by *Crace Calvert*, Esq., in relation to the practicability or otherwise, of purifying so much of the WATER of the RIVER MEDLOCK as passes therefrom into the *Duke of Bridgewater's Canal*, at Knott Mill."

2. "MINUTE of COMMITTEE (*October 28th, 1856,*) on the practicability of Removing the NUISANCE of SEWER RIVERS; as further shown by Mr. WICKSTEAD's successful operations at LEICESTER."

3. "The MORTALITY RETURNS for 1855 and 1856."

4. DIGEST of the REPORT on the Prevention of Smoke, presented to Viscount Palmerston, H.M. principal Secretary of State for the Home Department.*

The Committee take this opportunity of acknowledging the readiness with which the *Editors of the local Newspapers* have at all times co-operated with them, in their efforts at promoting Sanitary improvements, and for having on several occasions strongly advocated the Pecuniary support of the Association.

PRIZES.

The Committee have not yet availed themselves of the kind offer of Dr. *Radford*, to apply *Three Guineas* as a prize for the best Essay on "The Domestic Position which a Working Man's Wife ought to hold; and the evils, moral, social, and physical, which result from her Employment in Factories," to be written by a Working Man.

Nor have they yet applied the liberal donation of £5, given by *John Fernley*, Esq., for such prize, or such purpose, as they might consider best suited to promote the objects of the Association.

*This last publication, the "Digest," was published only in the local Newspapers.

V.—*Investigations and Inquiries, Scientific and otherwise.*

MORTALITY RETURNS.

In publishing these Returns, with the obliging concurrence of the Registrar General, the Committee beg to express their thanks to Mr. *Royston*, one of their Honorary Secretaries, on whom all the labour of classification has devolved; and also to Messrs. *Gardiner*, *Burdett*, and *Adamson*, the several Superintendent Registrars of the District, for the facilities they have kindly afforded Mr. *Royston*, in obtaining the necessary information. The value of these Returns will obviously increase in proportion to their progress, and the opportunity thereby afforded of comparing different periods with one another.

(i.) *District and Population.*

The district over which the enquiry extends, comprehends the City of Manchester, and Borough of Salford; in which the increase of Population, taken in their several Townships, may be estimated as follows:—

TOWNSHIP.	Population in 1851. (Census.)	Estimated Population in 1855.	Estimated Population in 1856.
MANCHESTER	186,985	190,381	190,882
Hulme	53,470	57,086	57,795
Chorlton	35,546	37,698	38,210
Ardwick	15,776	17,052	17,324
Cheetham and Crumpsall	14,326	15,610	15,861
Newton, &c.	12,778	13,850	14,055
SALFORD	63,424	66,620	67,190
Pendleton and Pendlebury	16,971	18,051	18,356
Broughton	7,119	7,511	7,651
Total	406,395	423,859	427,324

Total Estimated Population 1856	<i>Manchester</i>	334,127
	<i>Salford</i>	93,197
		427,324

(ii.) *Annual Publication of the Returns.*

The "Mortality Returns" have been published annually by the Committee during the last three years, and may be obtained gratuitously by every Subscriber. The details into which these Returns enter, respecting every Township, renders it unnecessary to do more in this Report than briefly to draw attention to the results of the several years. At the same time, it must be understood, that even the Annual Publications themselves, do not show the full value of the records in possession of the Committee, inasmuch as "*the precise street and house where every death occurred from the four preventible diseases specified, is recorded ; which will hereafter afford important data for showing how far the causes of death may be connected with the several localities.*"

(iii.) *Increase of Population relatively considered.*

The following Table will show in what proportion the increase is to be attributed to the "excess in the number of births, or diminution in the number of deaths."*

For the Year ending September 30th	Estimated Population	DEATHS.		BIRTHS.	Rate per cent. of Births on Popula- tion.	Increase of Population exclusive of Emigration and Immi- gration.	Per cent- age of increase on Popula- tion.
		Deaths from all causes.	Rate per cent. on Population			Number.	
1854.	406,305 (Census.)	13,089	3.22	17,455	*4.29	4,366	*1.07
1855.	423,859	13,531	3.19	16,996	4.	3,465	.81
1856.	427,324	11,549	2.7	16,661	3.89	5,112	1.19

(iv.) *Deaths from Preventible Causes.*

The object which the Committee have had in view in collecting and publishing the "Mortality Returns," is to show, approximately, the number of deaths within the district, from causes which are preventible.

*Remarks on "Mortality Returns" 1854.

In the first instance, they have limited their inquiries to four, *Fever, Scarlatina, Measles, and Small Pox*; omitting all that class of Scrofulous Disease, of which Pulmonary Consumption is the most common type.

But since the Committee can now show, that above 12 *per cent.* of the total number of deaths in two successive years, resulted in this district from the four causes alone, which they have specified, they think they are fully justified in calling most seriously on their fellow-townsmen to endeavour, by every means in their power, to promote the increased Sanitary improvement of these two Municipalities.

In respect, however, to the present year, 1855-6 the Committee would draw attention to the facts, that—"the General Mortality this year is lower than in either of the two preceding, being 2.7, against 3.19 in 1855, and 3.22 in 1854," and that "the reduction in the Mortality from the four causes specified, is still more remarkable, being this year only 10.32, against 12.57 last year, and 12.18, in 1854;" which may be accepted as further evidence of what may be effected by due attention to Sanitary arrangements. During 1855-6 the ratio of deaths from Measles and Small Pox have slightly increased. But, nevertheless, the immunity of this District from Small Pox, as compared with other places specified in "the Registrar General's Report," where Vaccination is less regarded, is one of the many unquestionable evidences that may be adduced in favour of preventive measures.

(v.) *Classification of Deaths from preventible Diseases.*

For the Year ending Sep.30	Deaths from preventible Diseases, viz.								Total amount of preventible deaths from the four causes specified.		From other causes.	
	FEVER.		SCARLATINA		MEASLES.		SMALL POX.		No.	Rate	No.	Rate
	No.	Rate per cent. on total Deaths (above)	No.	Rate per cent. on total Deaths (above)	No.	Rate per cent. on total Deaths (above)	No.	Rate per cent. on total Deaths (above)				
1854	533	4.07	710	5.42	303	2.31	49	.37	1,595	12.18	11,494	87.82
1855	421	3.11	1062	7.84	207	1.53	12	.03	1,702	12.57	11,829	87.43
1856	416	3.6	445	3.83	246	2.13	87	.75	1,192	10.32	10,357	89.68

SEWER RIVERS.

The Committee are entirely persuaded that an abatement of the Nuisance of Sewer Rivers may be easily effected, and, under the least favourable circumstances, at a comparatively trifling cost. Their proceedings in relation to this question have been from time to time placed before the public, in various forms; but it may be convenient here, to recapitulate some of the particulars, in order to show the general aspect of the question at the present time.

They consider they have incontestibly proved by the Experiments at Knott Mill, that the Sewage in a *Running Stream* can be precipitated, at small expense, by the application of Cream of Lime. (*See their published MINUTE on the subject.*) The mode of application is a question of no great difficulty for engineering skill. The experiments were undertaken as the result of some suggestions on the subject, made by *Prof. C. Calvert* in a Paper he read to the Committee.

A few years ago, it was suggested by Mr. *Holland*, now connected with the Burial Acts' Office, in London, that Main Sewers should be constructed along the sides of the Rivers in Manchester and Salford; and that the drainage should be conducted into them, and not allowed to mingle with the Rivers, until it had passed beyond the Municipal boundaries.

At Leicester, Mr. *Wickstead* has most successfully abstracted the fecal and other waste matters from the Sewage of the City, in reservoirs; into which the main drains have been conducted. The agent employed is also Cream of Lime; and the work is performed without any offensive smell. (*See published MINUTE on the subject.*)

Dr. Angus Smith, in a Paper read before the Committee, recommended the precipitation of the Sewage matter in the drains themselves, and in some cases even before entering the drains. The preparation he mentioned as useful for the purpose is usually known by the name of Mr. *McDougall's* Disinfecting Powder.

H. M. Government have also had their attention drawn to the same subject; and it has been proposed that they should contract with Corporations for the deodorization and removal of the Sewage, and that convict labour should be employed for this purpose. (*London "Times,"*

April 21st, 1856.) The Committee directed a communication on the subject to be addressed to the Home Secretary, inclosing Dr. *Smith's* suggestions.

The conclusions at which the Committee have arrived, in respect to the purification of Sewer Rivers, are the following:

1. The prevention of the Nuisance of converting Rivers into Main Sewers is practicable.
2. It is probable that no great pecuniary advantage will be derived from the conversion of the Sewage into Manure; but it may be accomplished at a comparatively small expense.
3. The Committee consider it the duty of the Municipal Authorities to take some steps in this important matter, if it be only in the construction of an experimental Reservoir; or at least in endeavouring to prevent the continuance of the Nuisance in the Duke of Bridgewater's Canal.
4. They are the more urgent on this subject, as the present absence of serious Epidemic offers a most favourable opportunity for Experiments of this character.

The Committee trust that public attention will be seriously directed to this subject, and that the force of public opinion may eventually accomplish what a just appreciation of human life and health undoubtedly recommend.

The Committee are under much obligation to Mr. *Chadwick*, Borough Treasurer of Salford, for a most useful description of Mr. *Wickstead's* operations at Leicester, of which the greater part is published in their Minute of October 20th, 1856.

BATH ROOMS in PARSONAGE HOUSES.

The attention of the Committee having been drawn, by a circumstance that occurred in this neighbourhood, to the fact that the Queen Anne's Bounty Commissioners not only make no provision for the introduction of a *Bath Room* into *Parsonage Houses*, but in the poorer districts some of their officers have regarded a Bath Room as "a luxury;" the Committee deemed it of sufficient importance to communicate with the Commissioners on the subject.

In consequence, the Chairman of the Committee took an opportunity, when in London, to wait upon the Secretary of the Commissioners; who authorized him, after some conversation, to state, that in future no objection would be raised to providing a suitable Bath Room in Parsonage Houses; and that when a reprint of the Commissioners "Regulations," should be issued, it shall be required that a Bath Room be provided, where it can be conveniently introduced.

REPORTS OF SUB-COMMITTEES.

Sub-Committees during the past year have been engaged with the consideration of the following subjects:—

1. *Adulteration of Drugs.*
2. *Ventilation of Cottage Residences.*
3. *Interment of the Dead in Manchester.*
4. *Prevention of the Secret Administration of Poison.*

(i.) *Adulteration of Drugs.*

A preliminary Report on the subject has been presented to the Committee; but they deemed it expedient to make some further inquiries before its publication.

(ii.) *Ventilation of Cottage Residences.*

The Sub-Committee have not yet decided upon their Report. With the view to obtain practical results, many experiments have been made on a Cottage-dwelling, fitted up with various means of Ventilation. In the course of their proceedings their attention has been directed to a great variety of methods of introducing air into dwellings; but they are desirous of giving the subject further consideration previous to expressing their opinion in the authoritative form of a Report.

(iii.) *Interment of the Dead in Manchester.*REPORT OF SUB-COMMITTEE ON THE INTERMENT OF THE DEAD IN
MANCHESTER.

In October, 1855, the Committee deemed it necessary to issue a Circular, calling attention to the deficient provision for the Interment of the Dead, in Manchester, and pointing out, that, within a comparatively short period, there would not be one of the Burial Grounds within the City, available for interment.

At that time, they expressed a hope, that "the Town Council, and other parties having authority or influence in the matter, would proceed at once to obtain a suitable Cemetery or Cemeteries, within a convenient distance; and in extent and arrangements, worthy of the City of Manchester."

The Town Council, moved by the proceedings of the Overseers of the Township, have signified their intention of acting in this matter.

The importance, in a Sanitary point of view, that the Cemetery, whenever provided, should be in all respects "Suitable," induced the Committee to appoint a Sub-Committee, to report upon the subject.

That Report has been presented, and will probably be published *in extenso*. Meanwhile the following Summary may be sufficient in this place.

The Sub-Committee report, "they have been somewhat surprised to find that the question of providing for General Interments had been viewed in so varied a manner by those to whose opinions they could obtain access. And that it had been so indeterminately treated by even the highest Authorities to whom they could apply for information."

In respect to the quantity of Land—the Sub-Committee are of opinion, that for ordinary graves the following quantities of land are required in order to allow a space of one foot, clear, between each:—

	ft.	in.		ft.	in.		Superficial content.
An Adult.....	7	6	×	3	6	=	26½ sq. ft.
Young Person	6	0	×	3	0	=	18 "
Children	5	0	×	2	6	=	12½ "

also that additional space for *Family Graves* and ornamentation must be allowed, and therefore that "66 acres would be required for all the purposes of a Cemetery in connexion with the *Township of Manchester*," so as to allow each grave, upon an average, to remain undisturbed for *ten years*.

The Sub-Committee suggest, that in laying out the Ground, the several Classes of Interments should be provided for, so "as to form a group of parts, assisting each other in general effect, rather than as bearing distinctively a separate character. This they consider would produce not only a moral effect, gratifying to the Poor and Middling Classes, but, in the main, secure a more successful issue in the Financial consideration of the question."

Family Burial Places, "to secure regularity in the division of the ground," they recommend "should have a determined dimension in one direction."

As regards the obtaining of Land, the Sub-Committee report, that without feeling it necessary to state the precise locality, they have ascertained that "Land of a character suitable in every respect for a Burial Ground, and sufficiently easy of access to render it available, can be obtained both on the North and South sides of the City."

"The mode of Conveying the Dead, with the Attendants on Funerals," has also received the attention of the Sub-Committee; and on this important subject they quote the remarks of Mr. *Simon*, Medical Officer to the General Board of Health, as deserving special consideration.

Questions appertaining to the value of ground, the charge for graves, and the cost of funerals, the Committee have not interfered with; but they have appended to their Report, a very useful Table, showing "the sizes of Burial Plots and Graves, with the prices of each," adopted in the following Cemeteries:—*Abney Park; South Metropolitan; West of London; Westminster Company; London Necropolis; City of London; Tower Hamlets; Kensall Green; and Glasgow Necropolis*.

(iv.) *Prevention of the Secret Administration of Poison.*

The Sub-Committee on this subject has only recently been formed; but the importance of such investigations, at the present time, cannot be over estimated.

SUBJECTS WHICH HAVE RECEIVED THE ATTENTION OF THE COMMITTEE.

In the course of the year, the following subjects have been brought under the consideration of the Committee, but, as yet, have not led to any special resolution.

1. General Improvement in the Construction of Middens and Ash-pits.

2. The position and offensiveness of many Public Urinals.

3. The want of a Sanitary Map of Manchester and Salford.

4. The necessity of additional local or general powers for the removal of certain Nuisances.

5. The improved construction of *Weirs*, and the position and construction of *Effluvia Traps*, are subjects of which the Committee have not lost sight, although they have been unable to give them much attention during the past year.

VI.—*Correspondence on Sanitary Subjects.*

The proceedings of the Association continue to receive attention beyond the limits of Manchester; and during the past year, applications have been received from the Rev. *P. Lilly*, of Kegworth, near Derby, for the publications of the Association; and from — *Gourdin*, Esqr., of Charleston, South Carolina, S. America, in relation to the diffusion of knowledge pertaining to Sanitary matters in that City, and also in respect to the drainage and preservation of the Sewage of the City. Upon the latter subject, the Committee cannot help remarking, that if the knowledge they have acquired may be found available for the purposes of a distant City, it would be scarcely less than a reproach to Manchester, if it should be disregarded at home.

VII.—*Financial Position of the Association.*

During several years, the Committee represented their need of increased Subscriptions, in order to sustain the Association in an efficient position.

Last year, in consequence of receiving little response to their

appeals, they found themselves under the necessity of borrowing £150 of Mr. *Ernest Reuss*, in order to pay the expenses they had incurred. To repay this sum, which was lent in the kindest manner, the Committee were obliged to have recourse, during the past year, to retrenchments in every possible direction.

They reduced the number of Lectures; avoided the expense of a Public Annual Meeting; and placed their expenditure under the control of a Sub-Committee of Finance.

They were also enabled to dispense with the office of Assistant Secretary, by the kind assistance of the Honorary Secretaries, Messrs. *Bowring*, *Walmsley*, and *Royston*, who voluntarily undertook to divide the duties among themselves; thereby effecting a clear saving to the Committee of £50, in the course of the year.

A special Liquidation Fund, amounting to £83, was also raised by the exertions of several Members of the Committee (p. 35); and thanks are especially due to those gentlemen who contributed on that occasion.

The result of these proceedings is highly satisfactory; inasmuch as the Committee have been enabled to repay Mr. *Reuss*, the amount he so kindly lent; and they will commence the new year with a small balance (£16) in hand.

At the same time the Committee desire to represent, that their present resources are not adequate to their need; and that the further reduction they are obliged, in consequence, to make in the number of Lectures this year, and their inability to proceed with the issue of Tracts, and other subjects of importance, is, to them, the occasion of much regret.

VIII.—*Conclusion.*

The Committee beg to acknowledge a special debt of gratitude to the many gentlemen who have co-operated with them in their efforts during the past year, and rendered their gratuitous professional assistance in giving the various Lectures, and acting on the several Sub-Committees; among the latter, they feel called upon to mention Messrs. *Cawley*, *Longridge*, *I. Holden*, *C. Calvert*, and Dr. *R. A. Smith*.

Their thanks are specially due to Mr. *E. Reuss*, for his ready assistance in a period of extremity; and to Messrs. *Bowring*, *Walmsley*, and *Royston*, for their indefatigable and valuable assistance as Honorary Secretaries.

The Committee trust that their proceedings during the past year, which for importance in relation to local interests, and for variety, have not been exceeded in any previous Report, will afford satisfaction to the Members of the Association generally.

The objects for which the Association was formed, can be accomplished only by degrees, and as the result of much discretion and perseverance. The power to be employed for such purpose must be the PUBLIC MIND rightly directed by correct information. Here Pecuniary resources are indispensable; and the Committee feel, that while Professional, and other gentlemen, willingly sacrifice a large proportion of their time for the public good, they have a strong claim upon those who approve of their efforts, for, at least, Pecuniary assistance.

The Committee must therefore again ask for additional Subscriptions and Donations, to carry on the work they have in hand. They ask for such contributions emphatically, at the present time, when, by the favour of DIVINE PROVIDENCE, the District is in a very healthy condition, and free from all serious Epidemics, and when, in consequence, there is the greater opportunity for promoting Sanitary improvements with care and success.

Every Report of the Committee, it must be admitted, has increased in interest, as exhibiting the progress of those objects for which the Association was formed. But the Financial Resources have, meanwhile, *decreased*. The result of which, without a seasonable alteration, is inevitable. But such a result, which the Committee think many persons, and particularly the Working Classes, would regret, they trust may be averted by timely and liberal assistance.

ARTHUR H. HEYWOOD, Esq., Treasurer, in Account with the Manchester and Salford Sanitary Association.

Dr.

		1856.		1856.			
		£	s.	d.	£	s.	d.
1856.							
Nov. 27.	To Balance in Bank, Nov. 30, 1855.....	40	9	0			
"	" Subscriptions						
"	" Donations.....	321	18	6			
"	" Transfer from Liquidation of Debt Fund..	83	3	3			
"	" Interest allowed by Bank	1	4	6			
		£446 15 3			£446 15 3		
	By Cash, repaid Loan.....						
	" Rent and Taxes						
	" Printing and Stationery						
	" Annual, and Sewer River Reports.....						
	" Sewer Rivers' Experiments.....						
	" District Committees' Expenses						
	" Wages of Assistant, Office Expenses, and Petty Cash						
	" Commission allowed to Collector						
	" " charged by Bank.....						
	" Balance in Bank						
		£446 15 3			£446 15 3		

ASSETS.

To Balance in Bank	31	11	11
" Outstanding Subscriptions	25	0	0
£56 11 11			

LIABILITIES.

By Accounts unpaid	15	0	0
Balance of Assets	41	11	11
£56 11 11			

Manchester, Nov. 27th, 1856.—Examined and found correct:

A. H. HEYWOOD, } Auditors.
ERNEST REUSS, }

WILLIAM ROYSTON, Hon. Secretary.

ARTHUR H. HEYWOOD, Esq., *Treasurer, in Account with the Manchester and Salford Sanitary Association.*

Dr. **Cr.**
LIQUIDATION OF DEBT FUND.

		£	s.	d.			£	s.	d.
1856.					1856.				
Nov. 27.	To Cash, per W. Mort, Esq., from a few friends	20	0	0	Nov. 27.	By Balance transferred to General Account	83	3	3
"	" A. H. Heywood, Esq.	20	0	0					
"	" Ernest Reuss, Esq.	20	0	0					
"	" Thos. Turner, Esq.	5	0	0					
"	" Mrs. Joseph Mason, per Rev. Wm. Gaskell.	5	0	0					
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"	" Silas Leigh, Esq., per do.	2	0	0					
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"	" Interest allowed by Bank	1	1	3					
		£83 3 3					£83 3 3		

Manchester, Nov. 27th, 1856.—Examined and found correct:

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MANCHESTER AND SALFORD

No

Annual Return of Mortality in the Townships within the September

TOWNSHIP.	Estimated Population in 1856.	Deaths from all causes.	Rate per cent. on Population.	Classification of Deaths from prev				
				FEVER.		SCARLATINA.		MEASLES.
				Number	Rate per cent. on total Deaths.	Number	Rate per cent. on total Deaths.	Number
Manchester	190,882	5,986	3.13	212	3.54	213	3.55	97
Salford	67,190	1,791	2.66	61	3.4	55	3.07	53
Hulme	57,795	1,371	2.37	61	4.45	66	4.81	35
Chorlton	38,210	808	2.12	32	3.96	18	2.22	28
Ardwick.....	17,324	403	2.32	13	3.22	7	1.73	11
Cheetham and Crumpsall	15,861	281	1.77	5	1.78	9	3.2	5
Newton and Bradford	14,055	374	2.66	16	4.27	40	10.7	11
Pendleton and Pendlebury	18,356	410	2.24	11	2.67	30	7.3	15
Broughton	7,651	125	1.63	5	4.	5	4.	11
TOTALS.....	427,324	11,549	2.7	416	3.6	443	3.83	246

The general Mortality this year is lower than in either of the two previous years, and the Mortality from the four causes is still more remarkable, being this year

SANITARY ASSOCIATION.

*roughs of Manchester and Salford, for the year ending
1856.*

Diseases.			Total amount of preventible deaths from these four causes.		From other causes.		BIRTHS.	Rate per cent. of Births on Popula- tion.	Increase of Population exclusive of Emigration and Immi- gration.	Per cent- age of increase on Popula- tion.
SMALL POX.			Number	Rate.	Number	Rate.			Number.	
Number	Rate per cent. on total Deaths.									
35	.59	557	9.30	5,429	90.70	7,214	3.77	1,228	.64	
36	2.01	205	11.44	1,586	88.56	2,595	3.86	804	1.2	
..	..	162	11.81	1,209	88.19	2,601	4.5	1,230	2.13	
..	..	78	9.65	730	90.35	1,353	3.54	545	1.43	
2	.49	33	8.18	370	91.82	780	4.5	377	2.18	
..	..	19	6.76	262	93.24	598	3.77	317	2.	
2	.53	59	15.77	315	84.23	612	4.35	238	1.69	
8	1.94	64	15.57	346	84.43	705	3.84	295	1.6	
4	3.2	15	12.	110	88.	203	2.64	78	1.01	
87	.75	1192	10.32	10,357	89.68	16,661	3.89	5,112	1.19	

ing, being 2.7 against 3.19 in 1855, and 3.22 in 1854. The reduction in 10.32 against 12.17 last year, and 12.18 in 1854.

GEORGE BOWRING,
F. H. WALMSLEY,
W. ROYSTON, } *Honorary Secretaries.*

