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REPORT

OF

THE COMMITTEE

OF THE

MANCHESTER AND SALFORD

SANITARY ASSOCIATION;

BEING

A SUMMARY OF THEIR PROCEEDINGS FOR THE YEAR 1861.

APPENDICES.

COTTAGE DWELLINGS—SUB-COMMITTEE'S REPORT.
ACTION OF WATER UPON LEAD—SUB-COMMITTEE'S REPORT.
ANALYSIS OF WEEKLY RETURNS.
OPEN SPACES AND PUBLIC PLAY GROUNDS.
COMPARATIVE MORTALITY—MANCHESTER AND LIVERPOOL.

MANCHESTER :

POWLSON & SONS, PRINTERS, BOW-ST., JOHN DALTON-ST.

1862.

Communications for the Committee may be addressed to—

THOMAS TURNER, Esq., Chairman,
77, Mosley Street.

C. E. CAWLEY, Esq., Deputy Chairman,
John Dalton Street.

ERNEST REUSS, Esq., Treasurer,
Portland Street.

To

The Honorary Secretaries { A. RANSOME, Esq, St. Peter's Square.
C. H KNIGHT, Esq, 75, Mosley Street.

Or to

Mr. C. G. CARTLEDGE, Secretary,

At the Offices of the Association, 33, Pall Mall,

(Near to the Bank of England.)

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Dr. NOBLE.
Mr. J. A. RANSOME.

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Mr. C. O'NEILL.
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Mr. WILLIAMS.

COTTAGE DWELLINGS:

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Mr. JOHN LOWE.
Mr. Councillor OGDEN.
Mr. W. RADFORD.
Mr. W. ROYSTON.

Dr. SAMELSON.
Mr. W. H. SHAW.
Mr. Councillor WILLIAMS.
Mr. THOMAS WORTHINGTON.

The Chairman, Deputy Chairman, and Honorary Secretaries, are, *ex-officio*, members of the above sub-Committees.

REPORT.

SUMMARY.

THE present Report contains a summary of the proceedings of the General Committee, and of its several Sub-Committees, during the year 1861; and it is presented to the Members of the Association in the hope that it may give satisfactory evidence of activity in the several departments of sanitary work.

Several of the Sub-Committees have presented separate reports of their labours; and, for convenience of reference as to the details of the work done by the gentlemen composing these Sub-Committees, they are printed and placed at the end of this Report.

During the last ten years the health of Manchester has greatly improved, as may be seen from the letter by Mr. ROYSTON showing that the mortality in the township of Manchester has diminished from 36 per 1,000 in 1858, to $30\frac{1}{2}$ per 1,000 in 1860.

This improvement may be due to the action of several causes, as the better state of trade and the consequent ameliorated condition of the working classes; but that sanitary measures have also had a great influence in producing this result can scarcely be doubted; and the more rapid improvement in the sanitary condition of Liverpool over that of Manchester, points especially to the excellent effect of energy on the part of municipal bodies in the work of sanitary reform. It seems probable that the closing of cellar dwellings and other decided measures on the part of the town council of Liverpool have produced a large share of this increase in healthiness of that town.

MANCHESTER CITY COUNCIL,

The only communication the Committee have had with the Council, during the year, was in reference to obtaining increased powers over the erection of cottage dwellings, and a letter on this subject was addressed to the Council, a copy of which is given in the Cottage Dwellings Sub-Committee's Report.

SALFORD TOWN COUNCIL.

In March last the Committee received a letter from the Town Clerk of Salford, calling their attention to the Lancashire and Yorkshire Railway Company's proposed line of Railway from New Bailey-street, Salford, to the Victoria Station, Manchester, as likely injuriously to affect the sanitary condition of that part of the borough through which it was intended to pass—and requesting the co-operation of the Committee in endeavouring to render it obligatory upon the Company to form a street 12 yards wide, parallel with, and contiguous to, and on the northerly side of the proposed line. A Sub-Committee was deputed to inspect the district and route of the proposed line, and, on receiving their report, the Committee adopted the following resolution, and a copy thereof was transmitted to the Town Council of Salford.

“That having received the able report of the deputation appointed to inspect the district in Salford, through which the proposed line of the Lancashire and Yorkshire Railway is intended to pass, this Committee considers that a street, as proposed by the corporation of Salford, would be an advantage; but, without further evidence, this Committee cannot give an opinion as to whether the increase in the width of the present line will, in itself, add to the insalubrity of the district.”

The Committee observe with pleasure the continued publication of the vital statistics by the council, and they have to thank the corporation for 10 copies of these returns.

The Committee having had their attention directed to the unusual mortality in Arlington-street, Salford, appointed a medical gentleman to investigate the same, and, after doing so, he reported that he was unable to refer the cause to an unsanitary condition of the district.

MANCHESTER BOARD OF GUARDIANS.

The Committee have again to acknowledge, most cordially, the courtesy of the Manchester Board of Guardians, and their willingness to assist in the objects of the Association. During the past year, in order to secure regularity in the transmission of the weekly returns of disease from the parochial medical officers, they passed a resolution, requesting the medical officers of the Manchester Union to make a weekly return to the Board of the cases of disease under their charge, in order that it might be forwarded to the Manchester and Salford Sanitary Association. The Committee were, however, obliged to take the apparently ungracious part of pointing out that the help thus offered to them was unnecessary, and, that the manner in which it was given, might reasonably offend some of the contributors who had hitherto given their assistance voluntarily and most steadily. The following letter was therefore sent to the board, and the request which it contained was most courteously complied with.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER,

OCTOBER 11TH, 1861.

SIR,

Our attention has been called to a report in the Manchester papers, of some proceedings taken a short time ago by the Manchester Board of Guardians, apparently with the kind intention of assisting this Association in the collection of the weekly returns of disease. Since application was made to the Board, in March, 1860, for permission to copy the books sent in by the medical officers, the Committee have been successful in procuring the voluntary aid of these gentlemen, and, so far from having made any complaint, the Committee has all along expressed its hearty acknowledgements for the readiness with which the medical officers entered into

its views, and for the able and willing help ever since given. The manner in which the medical officers have carried out their part of the work, may be judged from the fact that, since the undertaking was fairly started, in September, 1860, not one of them has failed to supply his weekly contribution, and the result is such a series of medical statistics as has never been obtained before.

We have thought it necessary to enter so far in explanation, because we understand that the change of the arrangements hitherto adopted, has been understood, by several of the medical officers, to imply a distrust of their willingness to afford the returns. The Committee would have been well content to have pursued the old system. We should feel greatly obliged if the Committee's sense of the value of the help given by the medical officers could be made as widely known as the proceedings of the board to which we have referred. Trusting that we shall continue to have the support both of the board and its medical officers.

We are, Sir,

Yours truly,

C. H. RICKARDS, Esq.,
Chairman of the Board of Guardians.

ARTHUR RANSOME. } *Hon. Secs.*
C. H. KNIGHT }

CITY MISSION.

Through the kindness of Mr. Thomas Geldart, the Secretary of this Mission, the Committee have been able to avail themselves of the valuable assistance of the missionaries in selling and distributing the tracts of the Association and cards upon infant mortality. From their organization and the nature of their work, these agents can greatly aid in spreading sanitary knowledge amongst that part of the population which the Association most desires to reach. In order that they might help the more effectually in this way, it was considered desirable both by the Committee and the officers of the Mission, that some instruction in sanitary subjects should be given to the missionaries, and at the request of the Committee, Dr. Henry Browne kindly undertook to deliver four lectures to them during the summer months, upon *Food* and *Air*, and arrangements have been made that other lectures of the same nature shall be continued through the ensuing year.

The Bible-women attached to this Mission (eleven in number), will assist in distributing the cards of the Association relating to infant management, and they will also take charge of the patterns of baby-clothing, which have been prepared with the help of the Ladies' Sanitary Association. They will be able to put these patterns into the hands of those poor mothers most likely to receive benefit from them.

The Committee beg to offer their most hearty acknowledgements both to the council of the City Mission, and to all the officers who are so benevolently aiding in this work.

COTTAGE DWELLINGS.

The Sub-Committee on this subject has presented the result of its deliberations in the form of a Report, which is appended to the present volume.

The General Committee cordially approved of the memorial addressed to the City Council, which was drawn up by this Sub-Committee, and they trust that the authorities of the city will be induced to apply to parliament for those increased powers of controlling the building of dwellings, which, from the facts recorded in the report, seem to be so much needed.

The erection of model dwellings for the working classes, which should contain all necessary sanitary and economic arrangements, and which should also yield a fair interest upon the outlay, would do much to encourage the building of similar dwellings throughout the city and neighbourhood, and would tend to diminish some of the chief sources of the disease, misery, and sin, which exist.

In recording, at the close of the year, the most sad death of His late Royal Highness the Prince Consort, your Committee would recognize the debt of gratitude that is due to him, for the special interest which he took in this subject, and for the energy with which he promoted, in every possible way, improvements in the dwellings of the

working classes; and they have already suggested to the Memorial Committee that the foundation of model dwellings, of this class, in his name, would be a fitting tribute to his memory.

From the records, alluded to in the report, of the diseases occurring throughout five years, in the cellar dwellings of Ancoats, your Committee believe that much useful information may be gained, and they hope that the analysis of these cases, when complete, may assist the City Council in their efforts to abolish these unhealthy habitations.

ACTION OF WATER UPON LEAD.

The Committee refer the subscribers to the report of the Sub-Committee on this important subject, a copy of which is appended to this report, and the Committee trust that the publication thereof will arouse public attention to the evils attending the use of lead piping for domestic purposes, and will result in the discovery of some efficient substitute for such piping.

The Committee have to express their thanks to Dr. F. C. Calvert, F.R.S., for his valuable assistance during the inquiry, and also to the several members of the Sub-Committee who, throughout, have been most indefatigable in their attention to, and careful investigation of, the subject.

Numerous cases of lead poisoning from the use of lead service piping have been brought to the knowledge of the Committee, and they will be glad to receive reports from the medical profession of such cases as have not already been reported, which will, no doubt, have weight in influencing public bodies to procure some less objectionable material for water pipes.

INFANT MORTALITY.

This Sub-Committee was appointed in consequence of statements made in Mr. Royston's paper on "*The Variation of the Death Rate in England*," pointing to the large proportion which the deaths of chil-

dren—especially of infants—bear to the total mortality. Its duty was to enquire into the causes of infant mortality in Manchester, and to suggest the best means for reducing that mortality.

After much deliberation it was resolved to obtain information as to the localities in which the largest number of children's deaths occurred—the nature of the diseases causing these deaths, and the circumstances of the parents living in these unhealthy localities. For this purpose returns were obtained from the superintendent registrars of Manchester and Chorlton, Mr. Ner Gardiner and Mr. W. N. Edgill.

One series of these returns—that for Ancoats—was then selected and analysed by Mr. Royston, so as to show the number of children of different ages dying from various diseases, the months in which they died, and the number of deaths in each street. From tables drawn up by him, interesting conclusions were drawn as to the diseases most fatal at the different ages, and it was noticed that, whilst the largest number of deaths at all ages took place in January, the largest number of infants (108) died in July, most of them from diarrhœa, the total mortality for that month being 135, the smallest number of infants' deaths occurring in October. The condition of the streets in which the largest mortality occurred was then inquired into, but it was soon found that no valid conclusions could be drawn from a mere tabular statement respecting places in which the per centage of population at the various ages is not equal. The old streets are often inhabited by elderly people with grown-up families; the new chiefly by newly married couples, with increasing families. It was therefore resolved that several of the streets should be visited by members of the Committee, and inquiry made as to their condition, and that of the inhabitants. Accordingly, several of the streets in New Cross Ward, Ancoats, were visited by Mr. J. A. Ransome and Mr. Royston, and a report presented to the Committee. These gentlemen found but little fault with the modern dwellings, but the houses forming the old streets were often in a very unhealthy condition,—the back passages and offices of these buildings being in many instances in a disgraceful state. It seemed probable, however,

that the sanitary condition of the streets, so far as regarded drainage and cleanliness, had less influence upon the health of the inhabitants than some other causes, and in support of this suspicion, the following table, presented by Mr. Royston, respecting two of the streets visited, shows that the mortality in the old streets was actually less than that in the new, and it also points out that this excess of mortality is due to the deaths of children—the birth-rate is greatest in the new streets, and the mortality is correspondingly large.

Deaths in 1859.										
STREET.	Houses.	Populatin.	Deaths.	Rate per 1000	Deaths under 5 years	Rate per 1000	Deaths above 5 years	Rate per 1000	Births in 1859	Rate per 1000
Primrose-street.* (old)	93	605	17	28	8	13	9	15	17	28
Cobden-street †. (new)	166	870	27	31	16	18	11	13	40	46

+ 16 Cellars.—6½ $\frac{1}{2}$ House. + No Cellars.—5¼ $\frac{1}{2}$ House. 1861.

The larger number of deaths in particular streets, therefore, was no good guide in searching for special causes of unhealthiness, and after much consideration the Sub-Committee came to the conclusion that the chief causes of the large infant mortality of Manchester are want of knowledge and want of care in the management of children by their parents. It was resolved to attempt to meet these evils by issuing cards giving plain instructions to the parents in the subjects of "Food for Infants," "Clothing and Cleanliness," and on "Nursing Sick Children."

After much pains and deliberation and correspondence with various authorities on the subjects, cards, with the above titles, were drawn up; the first, giving directions how to feed and suckle infants; the second, upon the dress of children, and the means and methods for keeping them clean; the third, dealing with their management during sickness, and teaching simple remedies and means to be used

in cases of emergency. † These cards are made somewhat ornamental, and are prepared so that they can be hung up in cottages and appealed to whenever their assistance is required.

In order to make the card upon Clothing more useful, the Subcommittee communicated with the Committee of the Ladies' Sanitary Association as to the best forms of dress both for infants and for older children, and the ladies of that Committee kindly undertook to prepare twenty sets of approved patterns of clothing, to be placed in the various districts of Manchester, for the use of those poor mothers who might desire to take advantage of them. The Committee offer their most cordial thanks to the Ladies' Association for the great assistance which they have afforded in this work. It was considered desirable to charge a small price for these cards, and the following clergymen have kindly consented to facilitate their sale and distribution—through all their assistants in parish work—scripture readers, district visitors, &c.; and their ladies have either themselves taken charge of depôts of patterns of clothing, or have made arrangements for the purpose with some trustworthy persons in the districts:—Revs. Canon Richson, Canon Gibson, Hugh Stowell, William Whitelegge, T. R. Bentley, F. C. Woodhouse, Richard Butler, Joseph Macartie, W. A. Darby, Dr. Burton, Edward Allen, W. Birley, E. B. Chalmer, W. Richardson, W. Hutton, E. B. Clarke, J. Davenport Kelly, W. Archer, W. Doyle, J. N. Pocklington, T. Wolstencroft, James Moore, Stanford Harris.

The City Mission with all its agents has also greatly forwarded the work of distribution, and the Bible-women have each charge of a set of patterns of clothing for children.

It may be hoped that many parents will avail themselves of the instruction contained in these cards, and that at least the necessity for greater care of their children, both in sickness and in health, will be recognised by them. If they can profit by the information afforded to them, it cannot be doubted that a large saving of Infant life will be the result.

† The Committee have to thank Dr. West, of the Children's Hospital, London, for his valuable assistance in the preparation of this card.

WEEKLY RETURN OF THE HEALTH AND METEOROLOGY OF MANCHESTER AND SALFORD.

The Weekly Return of the Association has now been issued for more than a year, and an analysis of the tables which it contains by Messrs. A. RANSOME and G. V. VERNON, is appended to this Report.

It is a matter of great satisfaction to the Committee that they have been able to publish these tables and transmit them to the Subscribers with such regularity. Their most cordial thanks are due to those gentlemen who have made it possible to do this, by sending in their contributions to the return so steadily, and with such completeness.

Since the Return was first started in August, 1860, it has received two additional contributions to the Meteorological report—one from Arthur Neild, Esq., of Ollerenshaw, near Whaley-Bridge; and another from J. Atkinson, Esq., of Thelwall, near Warrington. Mr. Alderman Neild, of High Lawn, Bowdon, will also add observations on ozone, and the hygrometric state of the air, during the ensuing year.

The list of diseases has undergone revision. Skin disease has been added to the tables, and Cholera, Puerperal Fever, Mesenteric Disease, Disease of Heart, Kidney Disease, Carbuncle, and Ophthalmia, have been omitted; diseases of the lungs,—as Bronchitis, Influenza, and Catarrh, Pleurisy and Pneumonia, and diseases of the bowels—as Diarrhœa and Dysentery, have been grouped together.

Through the kindness of Dr. R. D. Thomson, medical officer for St. Mary-le-bone, London, the Committee have been able to supply every month a comparative statement of the health of Manchester with that of St. Mary-le-bone, which will probably be of great service in investigating the causation of disease. It is much to be desired that other large towns—or those possessing special manufactures—would furnish similar tables, for the purpose of future analysis and inquiry.

Since August, 1861, the various local papers have received from the Association an abstract of the Weekly Return—both of diseases, births, and deaths, and these tables have been duly inserted every week for the information of the general public. The Committee have received many testimonies to the value of this series of statistics—from the regularity with which the returns are made, it has become the most reliable record of the kind ever published, and they earnestly appeal to those interested in these subjects to help them to carry it on, by contributing to the funds of the Association.

OPEN SPACES AND PUBLIC PLAYGROUNDS.

Since May, 1860, the Committee have recognised the importance of leaving in large towns spaces uncovered by buildings, both to permit of the due circulation and purification of the air, and to serve as playgrounds for the youth of the population. They would now refer to a paper upon the subject, which was read before a meeting of the members of the Association, by W. T. Marriott, Esq., B.A., a copy of which is appended; and they urge upon the friends of Sanitary improvement, the importance of forming a society, with the object of encouraging the establishment of such open spaces and playgrounds in Manchester and Salford.

ADULTERATION OF FOOD.

The Committee regret that the Memorial presented to the City Council in December, 1860, and referred to in the last report, has not led to the appointment of a public analyst, under the provisions of the Act passed August 1860. The General Purposes Committee of the City Council, to whom the Memorial was referred on February 9th, 1861, recommended to the Council, "That the matter be postponed, and enquiries made as to the operation of such an officer in other places.

Since then the city authorities have not farther dealt with the subject, but the Committee of the Association have appointed a Sub-Committee, for the purpose of ascertaining the *extent* to which food is adulterated in Manchester, with a view of again impressing on the City Council the importance of carrying out the provisions of Mr. Schofield's Act.

LECTURES.

The following lectures have been delivered since the last report:—

LECTURER.	Subject.	Places.
T. TURNER, Esq.	<i>How to Live</i>	Bennett-street School.
Ditto	<i>Home Duties.</i>	St. Wilfrid's, Hulme.
Ditto	<i>Transgression of the Laws of Health, a source of Poverty, Crime, Disease, and Death.</i>	National School, George-st., Salford.
Ditto	<i>The Healthful and Happy Tendencies of Sanitary Laws</i>	Chorlton Town Hall.
Ditto	<i>How to Avert the Threatened Danger of Famine and Disease.</i>	St. Patrick's.
Ditto	<i>On Co-Operation, in Connexion with Social Duties and the Happiness of Home.</i>	St. Michael's.
Rev. St. VINCENT BEECHY	<i>The Moon, as a Sanitary Commissioner.</i>	St. Philip's School, Chester-street.
Dr. ALLAN	<i>Air</i>	St. Matthew's.
Dr. ANGUS SMITH ..	<i>Light and Scenery, as Sanitary Agencies.</i>	Trinity Church School, Salford.
Ditto ..	<i>On the Meaning and Use of Cleanliness.</i>	Ebenezer School, Red Bank.
Rev. G. HUNTINGTON.	<i>Pestilence, the Consequence of a Violation of the Laws of Nature and God.</i>	St. Matthias's.
D. STONE, Esq.	<i>Facts, Easy to Learn and Valuable to Know.</i>	Town Hall, Ardwick.
Rev. E. HEWLETT ..	<i>Giant Evils, their Birth, Work, and the Means to Destroy them.</i>	St. Peter's School.
G. GREAVES, Esq.	<i>How to Rear a Baby</i>	Gravel-lane School, Salford.

LECTURER.	Subject.	Places.
REV. E. B. CHALMER.	<i>Recreation, in a Sanitary Point of View.</i>	National School, Granby-row
J. S. FLETCHER, Esq.	<i>How to Live a Hundred Years</i>	St. Stephen's, Everton-road.
A. J. SCOTT, Esq.	<i>The Fire and the Fuel in Man.</i>	Salford Town Hall.
DR. F. CRACE CALVERT	<i>Water, as Applied to Health.</i>	St. Philip's, Bradford-road.
DR. LEDWARD	<i>What are the Uses of the Skin.</i>	Wesleyan School, Chancery-lane.
Ditto	<i>Popular Fallacies regarding Eating, Drinking, Smoking, and Sleeping.</i>	Roby School, Manchester.
C. O'NEILL, Esq.	<i>Poisonous Gases and Exhalations.</i>	St. Andrew's, Ancoats.
Ditto	<i>Poisonous Gases and Exhalations.</i>	Ashley Lane School.
REV. J. D. KELLY ..	<i>Smells</i>	St. John's School, Miles-Platting.
A. RANSOME, Esq.	<i>The Fearful and the Wonderful in the Human Body.</i>	Mr. Clarke's Mill School, Ancoats.
REV. W. A. O'CONNOR	<i>Mental Culture</i>	St. Andrew's School.
A. SOMERS, Esq.	<i>The Injurious Influence of Certain Narcotics upon Human Life, both Infant and Adult.</i>	St. John's School, Salford.
DR. J. O. FLETCHER..	<i>How We Live, Grow, and are Nourished.</i>	St. Matthew's, Liverpool-road.

At the special request of the Committee, Dr. H. Browne, has delivered a course of four lectures to the City Missionaries, on Food and Air.

The Committee most cordially thank those gentlemen who have so ably assisted in this important branch of the Association's work. The Committee are sorry they have been unable to arrange for lectures in several districts from which applications have been received, as the number of professional gentlemen willing to engage in lecturing is necessarily limited.

TRACTS.

In consequence of the demand for the tracts of the Association, the Committee have re-published Numbers 1 to 5, 10,000 copies of each. A tract on open spaces, by Mr. W. T. Marriott, B.A., has been published, and is specially referred to elsewhere.

The Committee have received several communications in reference to the insufficient supply of water at Newton Heath.

The Committee have to express their thanks to Dr. Hatton, who has presented to the Committee a map of Chorlton-upon-Medlock, on the large scale of the Ordnance Survey, in which the cases of cholera and fever and the deaths from these diseases are depicted for seven years.

FINANCE.

The usual accounts of the income and expenditure are appended to this report. The Committee record with pleasure the increased amount of annual subscriptions received since last report, as an evidence of the public appreciation of the services rendered by the Association to the community at large. But notwithstanding this increase in the income, it will be seen the Committee carry forward less than half the balance in hand at the close of the last report. It is worthy of note, that nearly the entire expenditure of the Association is incurred in spreading sanitary information, which is, in almost every instance, obtained by the voluntary assistance of professional and other gentlemen. The Committee confidently refer to the work done by the Association during the past year, as a fair ground for soliciting an increased support.

ERNEST REUSS, Esq., Treasurer, in Account with the Manchester and Salford Sanitary Association.

Dr.

DECEMBER 13TH, 1860, TO DECEMBER 31ST, 1861.

Cr.

	£	s.	d.
To Balance in Bank, December 13th, 1860.....	136	12	4
„ Interest allowed by Bankers, Dec. 31st, 1860.....	3	17	9
„ „ „ „ 1861.....	4	13	11
„ Subscriptions received since last Report	315	9	6
	<hr/>		
	£460	13	6
	<hr/>		

	£	s.	d.
By Rent and Taxes.....	37	0	0
„ Secretary's Salary	60	0	0
„ Commission allowed Collector	14	9	0
„ Lecture, and other Petty Expenses, Postages, and Wages of Boy.....	44	12	7
„ Printing	181	18	0
„ Stationery, Books, and Advertising	16	9	2
„ Office Furniture	33	6	11
„ Returns, "Streets Paved" and "Infant Deaths" ..	4	4	6
„ Re-fixing Apparatus for testing the action of Water upon Lead	1	13	10
„ Bank Commission, 1860 & 1861, and Stamped Cheques ..	1	15	4
„ Balance in Bank	65	4	2
	<hr/>		
	£460	13	6
	<hr/>		

Examined and found correct:—

ERNEST REUSS,
W. H. SHAW,
C. H. KNIGHT.

Manchester,
December 31st, 1861.

ERNEST REUSS, Esq., Treasurer, in Account with the Manchester and Salford Sanitary Association.

Cr.

TRACT FUND.

Dr.

		1861.			
1861.	To	£	s.	d.	1861.
	To Balance in Bank	29	3	0	Dec. 31. By Balance in Bank
	To Interest allowed by Bank	0	12	5	£30 13 4
<hr/>					
	To do	0	17	11	<hr/>
		£30	13	4	£30 13 4
<hr/>					

Balance in Bank this day £30 13 4

Examined and found correct:—

ERNEST REUSS,
W. H. SHAW,
C. H. KNIGHT.

Manchester,
December 31st, 1861.

MEMBERS FROM DONATIONS IN FORMER YEARS.

	£	s.	d.
Barbour Robert, Esq.....	10	0	0
Benyon Miss (Clifton).....	5	0	0
Brooks Samuel, Esq.....	5	0	0
Chadwick R., Esq.....	20	0	0
Coultate E., Esq.	5	0	0
Ellesmere The Earl of	5	0	0
Gardner Robert, Esq.....	5	5	0
Gillibrand P., Esq.....	5	0	0
Heywood E. S., Esq.....	20	0	0
Heywood Sir A., Bart.....	5	5	0
Heywood Arthur H., Esq.....	5	0	0
Heywood James, Esq.	5	0	0
Heywood Oliver, Esq.	15	0	0
Houldsworth Henry, Esq.	5	0	0
Jones R. Jennings, Esq.	5	0	0
Jones W. C., Esq.	5	0	0
Macintosh Messrs. C., and Co.....	5	5	0
Potters and Norris, Messrs.....	5	5	0
Plant James, Esq.....	5	0	0
Schunk, Souchay, and Co., Messrs.....	5	0	0
Spafford George, Esq.	5	5	0
Taylor J. E., Esq.....	5	5	0
Todd and Coston, Messrs.....	5	0	0
Turner J. Aspinall Esq., M.P.....	5	0	0
Watkins W. B., Esq.....	10	0	0
Wood W. Rayner, Esq.....	5	0	0

SUBSCRIPTIONS

	£	s.	d.
Ashton, Messrs. Samuel and Thomas.....	2	2	0
Ashton F., Esq.....	1	1	0
Atherton James, Esq.	2	2	0
Atkinson F., Esq.....	1	1	0
Ashworth Joseph, Esq.....	1	1	0
Ashworth Thomas, Esq.	1	1	0
Agnew Thomas, Esq.....	1	1	0
Atkinson and Gould, Messrs.	1	1	0
Andrew Henry, Esq.....	1	1	0
Alcock Misses	1	1	0
Barbour, Messrs. R. and Brother	2	2	0
Brooks S., Esq.	2	2	0
Barnes Robert, Esq.....	2	2	0
Bardsley Sir James, M.D.	2	2	0
Behrens, Messrs. S. L.	2	2	0
Butterworth J., Esq.....	2	2	0
Bayley and Craven, Messrs.....	2	2	0
Bazley and Vernon, Messrs.....	2	2	0
Brown, Messrs. J., Son and Co.	2	2	0
Butterworth and Brooks, Messrs.....	2	2	0
Bellhouse, Messrs. J. and W.	2	2	0
Bury Henry, Esq.....	1	1	0
Bannerman J., Esq.	1	1	0
Bannerman J. A., Esq.....	1	1	0
Browne Dr. Henry	1	1	0

Booth William, Esq	1	1	0
Boutflower J., Esq.	1	1	0
Barge Thomas, Esq.....	1	1	0
Buckley Edmund, Esq.....	1	1	0
Bunting T. P., Esq.	1	1	0
Bazley Thomas, Esq., M.P.....	1	1	0
Bazley Henry, Esq.	1	1	0
Binyons, Fryer, and Co., Messrs.....	1	1	0
Binyons, Robinson, and Co., Messrs.....	1	1	0
Bright, Messrs., and Co.	1	1	0
Birks E. B., Esq.	1	0	0
Barker N., Esq.....	0	10	6
Birch Rev. Edward, M.A.....	0	10	6
Bromiley Mr. Councillor	0	10	6
Bowman E., Esq.	0	10	0
Booth Mr. Councillor (Salford)	0	5	0
Carlton Messrs. J., Walker, and Co.	2	2	0
Carlisle Brothers, Messrs.....	1	0	0
Cunliffe and Sons, Messrs.	1	1	0
Crewdson T. D., Esq.	1	1	0
Consterdine Joseph, Esq.....	1	1	0
Carver, Brothers, and Co., Messrs.	1	1	0
Consterdine Robert, Esq.....	1	1	0
Crum Walter, Messrs.	1	1	0
Crook John, Esq.	1	1	0
Calvert Dr. F. C.	1	1	0
Capes W. H., Esq.....	1	1	0
Carver William, Esq.	1	0	0
Clarke Daniel, Esq.	1	1	0
Clayton J., Esq.....	1	1	0
Chadwick David, Esq.	1	1	0
Compton Joseph, Esq.	1	1	0
Consterdine and Co., Messrs.	1	1	0
Charlewood H., Esq.....	1	1	0
Cooke Thomas, Esq.....	1	1	0
Chadwick John, Esq.....	0	10	6
Dugdale, Messrs. John, and Brothers.....	1	1	0
D'Hauregard, Messrs. H. and Co	1	1	0

Entwistle William, Esq.	2	2	0
Elce, Messrs. John, and Co.	1	1	0
Fletcher Samuel, Esq.	2	2	0
Fletcher, Messrs., Son, and Co.	2	2	0
Fairbridge R. J., Esq.	1	1	0
Falkner George, Esq.	2	2	0
Fernley John, Esq.	1	1	0
Findlater and Mackie, Messrs.	1	1	0
Fairburn William, Esq.	1	1	0
Franklin J. A., Esq.	0	10	6
Gladstone, Messrs. R., and Co.	2	2	0
Gardner Robert, Esq.	2	2	0
Greg, Messrs. R. H., and Co.	2	2	0
Galloway, Messrs. W. and J.	2	2	0
Gould John, Esq.	2	2	0
Graham, Messrs. William, and Co.	1	1	0
Galloway Messrs. J., and Co.	1	1	0
Glover, Messrs. William, and Co.	1	1	0
Grover J. B. K., Esq.	1	1	0
Gaskell Rev. William	1	1	0
Gladstone Murray, Esq.	1	1	0
Gibb William, Esq.	1	1	0
Gibson Rev. Canon	1	1	0
Harter J. C., Esq.	2	2	0
Harter William, Esq.	2	2	0
Heywood Arthur H., Esq.	2	2	0
Heywood Sir Benjamin, Bart.	2	2	0
Heywood E. S., Esq.	2	2	0
Heywood Oliver, Esq.	2	2	0
Hunter Thomas, Esq.	2	2	0
Huschke A. H., Esq.	2	2	0
Hickson, Lloyd, and King, Messrs.	1	1	0
Houldsworth H., Esq.	2	0	0
Houldsworth, Messrs. J., and Co.	1	1	0
Hald E., Esq.	0	10	6
Harrison Dr. G. Morley	0	10	6

Ireland, Messrs. Alexander and Co.....	1	1	0
Ioanides Ath, Esq.	1	1	0
Jackson, Messrs. E. and J.	1	1	0
Jewsbury and Crux, Messrs.....	1	1	0
Jackson J. W., Esq.....	1	0	0
Jackson H. B., Esq.....	0	10	6
Joule Dr. J. P.	0	10	6
James and Chabot, Messrs.	1	1	0
Kay, Richardson, and Co., Messrs..	2	2	0
Kershaw, Sidebottom, and Co., Messrs.....	2	2	0
Kipping J. S., Esq.	1	1	0
Kipping J., Jun., Esq.	0	5	0
Keighley J., Esq.	1	1	0
Kingsley John, Esq.....	0	10	0
Lucas Philip, Esq.....	2	2	0
Langton William, Esq.....	2	2	0
Leissler John, Esq.....	2	2	0
Lees, Daniel, and Co., Messrs.....	3	3	0
Lee J. B., Esq.	1	1	0
Langworthy, Brothers, and Co., Messrs.....	1	1	0
Lyon, Messrs. Edward, and Brother	1	1	0
Littlewood and Wilson, Messrs.	1	1	0
Le Mare E. R., Esq.....	1	1	0
Lee Henry, Esq.	1	1	0
Lee Daniel, Esq.	2	2	0
M'Laren, Messrs. James, and Nephew ...	2	2	0
Macintosh, Messrs. Charles, and Co.	2	2	0
Munn, Messrs. John, and Co.	2	2	0
Micholls Horatio, Esq.....	1	1	0
Makin and Walker, Messrs.....	1	1	0
Marsland and Hole, Messrs.....	1	1	0
M'Connell W., Esq.....	2	2	0
M'Connel J., Esq.....	2	2	0
M'Naughton and Thom, Messrs.....	1	1	0
Morris William, Esq.....	1	1	0

M'Clure, Messrs. John, and Son	1	1	0
Mendel Sam, Esq.	1	1	0
Marsden Richard, Esq.	1	1	0
Mayson J. S., Esq.	0	10	0
M'Cartie Rev. Joseph	0	10	0
M'Kerrow Rev. Dr.	0	10	0
Novelli and Co., Messrs.	2	2	0
Nield William, Esq.	2	2	0
Nevill T. H., Esq.	2	2	0
Nield Alfred, Esq.	1	1	0
Nield Arthur, Esq.	1	1	0
Nicholls B., Esq.	1	1	0
Ogden, Messrs. Robert, and Sons	2	2	0
Ogden, Messrs. R., and Sons	1	1	0
Ogden Dr.	0	10	0
Ollivant J., Esq.	1	1	0
Ogden Henry, Esq.	1	1	0
Ovens Edward, Esq.	1	1	0
Peel, Messrs. J. and G.	2	2	0
Peel, Bellairs, and Co., Messrs.	2	2	0
Philips, Messrs. J. N., and Co.	2	2	0
Peel, Messrs. John, and Co.	2	2	0
Potters and Norris, Messrs.	2	2	0
Philips Herbert, Esq.	1	1	0
Potter Sydney, Esq.	1	1	0
Potter, Messrs. Edmund, and Co.	1	1	0
Pearce, Messrs. M., and Co.	1	1	0
Parnell Francis, Esq.	1	0	0
Powlson and Son, Messrs.	1	1	0
Potter and Wood, Messrs.	1	1	0
Pearson Alderman.	0	10	6
Potter William, Esq.	0	5	0
Reuss Ernest, Esq.	2	2	0
Reiss Brothers, Messrs.	2	2	0

Richson Rev. Canon.....	1	1	0
Rylands and Son, Messrs.....	1	1	0
Rickards F. P., Esq.....	1	1	0
Ree H. P., Esq.....	1	1	0
Ross William, Esq.	1	1	0
Roberton John, Esq.....	1	1	0
Ralli E., Esq.	1	0	0
Rumney Robert, Esq.	0	10	0
Reddellien H., Esq.	0	10	0
Rice J., Esq.....	0	5	0
Rigby John, Esq.	1	0	0
Reid John, Esq.....	1	1	0
Samsom and Leppoc, Messrs. H. J., and Co.....	2	2	0
Schuster, Messrs. Leo, Brothers, and Co.	2	2	0
Sharp, Stewart, and Co., Messrs.....	2	2	0
Slater W., Esq.....	2	2	0
Schunck, Souchay, and Co., Messrs.	1	1	0
Slagg, Messrs. John, and Co.	1	1	0
Smith G. Fereday, Esq.	1	1	0
Smith, W., Esq.....	1	1	0
Sewell J., Esq.	1	1	0
Smith Dr. R. A.....	1	1	0
Sowler Thomas, Esq.....	1	1	0
Satterfield J., Esq.....	1	1	0
Shaw John, Esq.	1	1	0
Shaw W. H., Esq.....	1	1	0
Stevenson, Ross, and Co., Messrs.	1	1	0
Stone J., Esq., M.D.....	1	1	0
Satterthwaite Dr.	1	1	0
Turner Thomas, Esq.	2	2	0
Taylor Mr. and Mrs.....	2	2	0
Taylor, Garnett, and Co., Messrs.	2	2	0
Turner J. Aspinall, Esq., M.P.	1	1	0
Turner Wright, Esq.....	1	1	0
Tysoe, Messrs. Charles, and Sons	2	2	0
Thompson Joseph, Esq.....	1	1	0
Trapp S. Clement, Esq.....	0	10	0

Worsley, C. C., Esq.....	2	2	0
Westhead, Messrs. J. P. and E.	2	2	0
Westmore Rev. H. H.....	1	1	0
Wadkin and King, Messrs.	1	1	0
Weston S., Esq.....	1	1	0
Warner Thomas, Esq.	1	1	0
Winterbottom A., Esq.....	1	0	0
Worthington E., Esq.	1	1	0
Wilkinson Dr. M. A. E.	1	1	0
Watts Sir James	1	1	0
Watts Samuel, Esq.....	1	1	0
Watkin, Messrs. W. B. and Co.	1	1	0
Whittaker John, Esq.	1	1	0
Williams, Messrs. L. and E	1	1	0
Worthington Thomas, Esq.	1	1	0
Whitworth, Messrs. B. and Brother	2	0	0
Williams W. J., Esq.....	0	10	0
Yates William, Esq.....	1	1	0

REPORT

OF THE

SUB-COMMITTEE ON COTTAGE DWELLINGS.

BEFORE noticing the questions which have been brought before them during the present year, your Sub-Committee would refer briefly to the work done by their predecessors. After considering many questions relating to suitable sites, soils, materials, &c., the members of the Sub-Committee in former years selected plans of variously rented cottage dwellings which appeared to secure sufficient sanitary arrangement. These plans were then compared with those of cottages now existing in Manchester, and although it was found that, in the old parts of the town, many unhealthy and unsuitable buildings were still used as habitations, yet your Committee came to the conclusion in their last report that "The cottage dwellings as at present built are greatly superior to those of an earlier date, and do not differ much in their detail from those fixed upon by the Committee as securing the most healthy arrangements possible for the necessarily small outlay." That many of the details in the construction of cottage dwellings might still be improved is undoubted;—in many cases, for instance,

the walls are of extreme thinness—bedrooms are built over ashpits—passages leading to the backs of rows of houses are covered over so as to prevent due circulation of air, and many most serious evils arise from the narrowness of the space which is generally left between the backs of rows of houses.

It appeared to your Committee that the main question which now remained to be decided was whether the powers at present possessed by the Corporation were sufficient to ensure due attention to sanitary regulations in the building of cottages. Upon examination of the building acts relating to Manchester it was found that these powers were quite inadequate to secure this end, and that they fall very far short of those possessed by the authorities of London and Liverpool. The building acts of those places containing regulations relating not only to the size of the rooms, but even to the thickness of the walls and the strength of the woodwork. It was therefore resolved to communicate with the City Council upon the subject, and the following memorial, approved by the General Committee, was presented by Mr. Councillor Booth, on Wednesday, December 4th:—

To the Mayor, Aldermen, and Councillors of the City of Manchester.

GENTLEMEN,

In pursuing their investigations as to the causes of disease in this city, the Committee of this Association have had their attention drawn to many serious defects which exist in the structural arrangements of the cottages, especially as affecting their ventilation and their preservation from noxious effluvia.

The description given by Dr. Greenhow in the Second Annual Report of the Medical Office of the Privy Council, is, unfortunately, applicable to too many places in this city. Speaking of Manchester, he says, at page 143,—“In one part of Chapel Street, where houses have been built according to the regulations, the space between one row of houses and that of the opposite row does not exceed 13 feet,—the two sets of privies, the ash-pit, and the passage, being all compressed into that space.”

There are numerous cases similar in all respects, where, although the width may exceed 13 feet, it does not equal 15 feet.

The practice of building up the ends of these spaces between the backs of houses, having only a narrow entry or passage from the street, which reaches no higher than the first floor, and the similar practice of obstructing the entrance to court-yards containing several dwellings, cannot be too strongly condemned, as preventing that free circulation of air which is essential to health.

In the case of houses originally erected for a superior class of tenants, a practice has grown up of letting them in "flats," without providing each floor with a separate "sink" and "drain," and without a distinct entrance from the passage to the yard which each tenant can use without having to pass through a room occupied by another. Where houses are occupied as flats, these provisions appear indispensable to health and the preservation of order, and in no case ought a privy or cesspool be allowed to adjoin the wall of the houses.

The Committee believe that these serious evils rather result from the want of sufficient powers on the part of the municipal authorities, than any indisposition on their part to promote a better arrangement.

The Committee, therefore, respectfully urge the Council to take the earliest opportunity of applying to Parliament for further powers, and would, at the same time, point to the more extensive powers in reference to buildings possessed by the authorities of London and Liverpool.

THOMAS TURNER, *Chairman.*

ARTHUR RANSOME. } *Hon. Secs.*
C. H. KNIGHT. }

This memorial was favourably received by the City Council and referred to the General Purposes Committee for their consideration.

Your Sub-Committee consider that their part in the matter has now been performed, in drawing the attention of those in authority to the subject—the responsibility of its further prosecution must rest with those who have the power of carrying it on.

Your Sub-Committee cannot however close their labours without expressing their conviction of the importance of organizing in Manchester an association similar to some of those established in London for the building of houses for the working classes, and more especially for the rebuilding of those houses which are in an unsanitary condition, and which are placed in the more crowded parts of the city.

The present time is not one for carrying out such a scheme, but the attention of the General Committee is drawn to it, in the hope that if it meet their approval, when the fit time arrives it may receive their energetic support.*

The General Committee having referred the question of the desirability of closing cellar dwellings to this Sub-Committee, it was resolved to obtain some information respecting the extent and nature of the diseases prevailing in these habitations. Accordingly the Sub-Committee obtained, through the kindness of Mr. Bompas, one of the medical officers for Ancoats, a register of all the cases of disease, occurring throughout several years in the cellar-dwellings of that district. These tables are now being carefully analysed, and your Sub-Committee trust that the information thus obtained will prove useful.

WM. BOOTH, *Chairman.*

* For information upon this subject reference may be made to two papers read before the Statistical Society of Manchester this year, one entitled "Homes for the Working Classes," by Mr. George Greaves, M.R.C.S.; the other "Some Further Remarks on the Homes of the Poor, and the Means of Improving their Condition," by Mr. Thos. Worthington, architect; also to a leading article in the *Daily News* for July 3, 1861, and to a letter by Mr. W. Royston in the *Manchester Guardian*, for May 30th, 1861.