

GOVERNMENT NOTIFICATION.—No. 532.

The following Statement shewing action taken to give effect to the Recommendations in Mr. CHADWICK'S Report on Sanitation was laid before the Legislative Council at a meeting held on the 3rd September, 1902, and is published.

By Command,

F. H. MAY,
Colonial Secretary.

Colonial Secretary's Office, Hongkong, 4th September, 1902.

SANITATION.

STATEMENT SHOWING ACTION TAKEN TO GIVE EFFECT TO THE RECOMMENDATIONS IN
MR. O. CHADWICK'S REPORT OF 10TH APRIL, 1902.

Water Supply.

Para. of Report.

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| 25. Arrangement of water statistics by the "water-year," 1st May to 30th April. | Will be adopted. |
| 26. Water Authority to report to Government soon after 1st October in each year as to stock in hand on 1st of October and maximum stock in the reservoirs during the wet season and at its conclusion; and the measures of restriction which should be taken during the coming dry season.
Another report should be furnished soon after 1st May shewing the quantity of water collected and the total supply given during the elapsed water-year with balance carried forward. | Will be done. |
| 30. <i>Taitam District</i> .—Additional gathering ground with appropriate storage required below existing reservoir. | Recommendation adopted. |
| 31. Survey of Taitam-tuk Valley and its ramifications, from about high-water mark up to about 250 ft. O.D. to ascertain what storage accommodation can be obtained by the construction of one or more reservoirs.
Gauges required to measure flow of main Taitam stream. | Work in progress up to 200 ft. O.D.

Work in progress. |
| 32. Immediate relief can be gained by pumping from the low-level into the Taitam Tunnel. | Steps being taken to carry out. |
| 34. Taitam Works to have precedence over those at Pokfulam. | This is recognised. |
| 35. If low-level reservoir constructed at <i>Pokfulam</i> its contents should be pumped into existing conduit. | Noted for guidance. |
| 37. <i>Intermittent System of Supply</i> . If resorted to, hours of supply should be limited to 3 hours in 24 in order to bring about a reduction of one-half of the consumption. If reservoirs not full in September restriction advised till sufficient stock accumulated to carry on unrestricted supply till end of water-year. | Noted for guidance. |

40. *Intermittent System.*—Subsidiary (“Rider”) mains to be laid alongside walks and parallel to principal mains to lessen evils resulting from the intermittent system, and enable houses to be supplied in blocks.

It having been decided to disconnect the house-services in tenement houses, this system will hardly be required.

41. Streets to be asphalted or otherwise improved.

Enquiries being made regarding the success of this in Malta.

PREVENTION OF WASTE.

45. *Universal Meterage recommended;*

49. and an adequate charge for water consumed beyond a prescribed quantity.

It has been decided to disconnect the house services with tenement houses and to apply the meterage system to all other houses.

50. *Charge of 50 cents instead of 25 cents per 1,000 gallons and an ascending scale advised.*

Power has been taken to charge up to \$1 per 1,000 gallons for excess consumption.

54. *New Territory gathering grounds*

This has been noted.

55.(p.) and reservoir sites to be reserved when settling the land, so that when required for Hongkong, the New Territory or Kowloon they may not be found to be in occupation.

55.(h.) Preparation of a comprehensive scheme for the ultimate and full development of the sources of supply in Hongkong.

This has been noted.

55.(j.) Amendment of the law.

See Ordinance No. 29 of 1902.

55.(m.) Proposal to shut off all house services where meters not provided.

Provision made in Water Ordinance for necessary powers.

Pillars and taps being obtained and their fixing in position will begin at once.

Sewerage.

63. *Record drawings.* Great inconvenience caused by the want of.

Noted.

65. *Trees in towns* are a nuisance and should be removed or cast-iron sewer pipes will have to be laid.

Noted.

65. *Occurrence of deposit in low-level sewers.* Reconstruction of sewers on the Reclamation, necessary when reclamation works completed, site fully occupied by buildings, and soil consolidated.

Noted.

66. Deposit in low-level sewers composed of solid foreign matter.

Proposed to adopt improved gulleys to remedy this.

68. *Flushing low-level sewers* with great vigour by use of sea-water from tanks filled by pumping.

Awaiting consideration of another report by Mr. CHADWICK.

69. *Flushing by means of water of nullahs and streams.* More use might be made of it preferably for the Drains.

No great difficulty, but sites for tanks will have to be found. No staff at present available, but may be taken up in about 18 months' time.

Flushing by sea-water of high-level street sewers unnecessary and of house sewers impracticable.

70. *Salt-water flushing* of gutters, storm-water drains and low-level sewers, in some cases at least desirable.

See paragraph 68.

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| 71. <i>Traps for gulleys</i> connected with the street sewers wanted. A suitable type of trapped gully to be evolved. | Type devised by the Director of Public Works is suitable. 1,400 required. Proposed to insert \$42,000 on 1903 Estimates. |
| 72. <i>More trapped sewer-gulleys</i> required near the foot of downpipes where side channels are nearly level. | Adoption of new gulleys will probably render this unnecessary. |
| 74. <i>Scavenging of street sewers, drains and nullahs</i> to be under direction of Medical Officer of Health.
92. <i>Extensions, alterations and new works</i> to be executed as now by Public Works Department. | Being arranged. |
| 75. <i>Sewer-vents, not ventilation</i> desirable in many places.
<i>Ventilation of Sewers.</i> —Ventilation by grating in man-hole-covers or by untrapped gulleys, objectionable. | New gulleys will all be trapped. |
| 77. Application of combined ventilation of house and street sewer to Hongkong. | Will be adopted wherever practicable. |
| 78. <i>Sewer-ventilation.</i> —Tentative procedure recommended. Suggests nature of experiment that might be tried in one district. | Noted for guidance. |
| 82. <i>Sewer Pipes</i> for house sewers. Advisable to inspect and test them before use. | When Standard Specification received from Mr. CHADWICK it is proposed to refer it to the Green Island Company asking if they are prepared to guarantee to turn out goods in accordance with it. A small consignment of Standard goods will be imported. |
| 83. Tests required explained. | |
| 84. Tests to be made at a depôt. | |
| 85. Standard of quality to be established. | |
| 86. <i>Fee for inspection of house-sewers.</i> —Recommends \$10 for every inspection necessary beyond the first. | Provision made under the new Buildings and Health Bill. |
| 87. <i>Cast iron house-sewers recommended.</i> —They should be coated with Dr. AXGUS SMITH'S composition. | Adopted in new Buildings and Public Health Bill. |
| 88. <i>Cast iron down-pipes and ventilating pipes</i> to be made compulsory. | Drainage Bye-law No. 25 requires ventilating pipes to be of iron; proviso to Bye-law 28 requires down-pipes <i>abutting on streets</i> to be of iron but allows down-pipes in private yards to be of glazed stone-ware. This is considered to meet the requirements of the case. |
| 89. Ventilation of house-sewers. | Dealt with in No. 77. |
| 90. <i>House-sewer construction.</i> —Improvement required. | Awaiting the "Instructions for construction of House-sewers" referred to therein. |

Drains, Storm-water Channels and Nullahs.

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| 91. <i>Covered-drains</i> , surface water channels or nullahs objectionable, but if covered should be easy of access for a man. They should be avoided at Kowloon and in the New Territory. | Noted for future guidance. |
| 93. <i>Drainage System</i> to be completely revised. | It may be possible to take this up in about 18 months' time. |

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| <p>94. <i>Designing of drains</i>.—Guiding principles laid down—</p> <p>(a.) Abolish all unnecessary drains and reduce lengths of any that cannot be dispensed with to a minimum.</p> <p>(b.) Covered drains to be opened where practicable.</p> <p>(c.) Careful scavenging and management of sewers required to keep filth out of drains.</p> <p>(d.) Flush branch drains with water of streams above.</p> | } Involves a good deal of preliminary work. Impossible to estimate cost. |
| <p>95. <i>Maintenance and Scavenging</i> to be entrusted to Medical Officer of Health.</p> <p><i>New Works</i> to be carried out as now by Public Works Department.</p> <p><i>Record drawings</i> to be first supplied to Medical Officer of Health and a Draughtsman appointed to keep plans up to date.</p> | } Being arranged. |

Scavenging and Removal of Excreta.

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| <p>96. <i>Dry refuse in sewers and drains</i>. Too much finds its way into them.</p> | Already referred to. |
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House Construction and Overcrowding.

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| <p>99. <i>Insanitary Properties</i>.—General resumption and reconstruction will have to be faced.</p> | Noted. |
| <p>101. <i>Tai-ping-shan</i>.—Suggests advantage of locating Medical School and dwellings for subordinate officials here.</p> | Suggestion noted. |
| <p>102. <i>Public Works Staff</i>.—Refers to its inadequacy for work to be performed.</p> | Recommendations made for increasing the staff. |

STATEMENT SHOWING ACTION TAKEN TO GIVE EFFECT TO MR. CHADWICK'S REPORT OF
-48TH APRIL, 1902, ON THE WATER SUPPLY.

Taitam.

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| <p>1. <i>Taitam gathering-ground</i> to be immediately developed.</p> | This is guiding the action of the Government. |
| <p>2. <i>Pumping necessary</i>.</p> | Being arranged. |
| <p>3. Position of Pumping Station indicated.</p> | Surveys in progress. |
| <p>4. } Plant recommended.</p> <p>5. }</p> | Requisition already forwarded. |
| <p>6. <i>Reservoirs</i>.—Whatever others may be found necessary, one as near sea-level as possible should be first constructed.</p> | Must wait result of surveys and borings now in progress. |
| <p>7. <i>Rising-main</i>.—Diameter and length required.</p> | Survey in progress. |
| <p>8. <i>Staff for Pumping Works</i>.</p> | Will be considered when time arrives for doing so. |
| <p>9. <i>Gathering-ground East of Taitam-tuk Village</i>.—Small subsidiary reservoir suggested.</p> | Survey in progress. |
| <p>9. <i>Catchwater channels</i>.—Surrounding Taitam Bay suggested.</p> | Noted for future guidance. |
| <p>10. <i>Further pumping engines</i> to be decided on according to the additional supply obtained.</p> | No action necessary at present. |

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| <p>12. <i>Preliminary expenditure.</i>—Recommends
 £20,000 be provided for surveys, gauging
 streams, etc.</p> | <p>Vote taken for \$20,000.</p> |
| <p>13. <i>Programme of operations.</i></p> <p>(a.) Accurate survey of the whole
 Taitam gathering-ground.</p> <p>(b.) Demarcation and reservation of
 gathering-grounds to be attended
 to. Leading survey points to be
 permanently recorded.</p> <p>(c.) Erection of two gaugeweirs on main
 Taitam-tuk Stream, provided with
 a self-recording instrument.</p> <p>(d.) First pumping engine. Steps to
 be at once taken to obtain it.</p> <p>(e.) Preliminary design and estimate to
 be submitted later as the survey
 progresses.</p> <p>(f.) Pipes of nature indicated to be
 ordered with the first pumping
 engine.</p> | <p>Proposed to provide \$150,000 on 1903 Esti-
 mates for carrying out Taitam proposals.</p> <p>Noted for guidance.</p> <p>In hand.</p> <p>Necessary particulars to enable tenders to be
 called for already sent to England.</p> <p>Requisition will be prepared when scheme is
 further advanced.</p> |
| <p>14. <i>Pumping-plant to be erected</i> and pipes laid.</p> | <p>Will follow in due course.</p> |
| <p>14. <i>Temporary expedients.</i>
 Small dam and conduit.</p> | <p>Arrangements will be made.</p> |
| <p>15. Water question pressing and should take
 precedence of all other sanitary improve-
 ments.</p> | <p>Action being taken accordingly.</p> |
| <p>16. <i>Saiwan and other gathering-grounds</i> to be
 surveyed and reserved.</p> | <p>Noted for guidance.</p> |
| <p>17. <i>Population of Island</i> must be kept within
 bounds by restricting issue of leases.</p> | <p>Impolitic.</p> |
| <p>17. <i>Industrial Establishments</i> should in future
 only be permitted on mainland, and minor
 establishments which do not possess inde-
 pendent water supplies should be pressed
 to remove there.</p> | <p>Noted.</p> |
| <p>17. <i>Waste of water</i> must be prevented and con-
 sumption reduced, by universal meterage
 coupled with an appropriate water charge.</p> | <p rowspan="2">} Amending Ordinance now passed.—No. 29 of
 1902.</p> |
| <p>17. <i>Water Ordinance</i> to be amended.</p> | |
| <p>19. <i>Measuring apparatus at Reservoirs and
 Filter-beds.</i>
 Improvements necessary, Venturi meter
 recommended.</p> | <p>Will not be lost sight of.</p> |

Peak Water Supply.

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| <p>20. }
 22. } <i>Reserve pumping-plant</i> required at Bonham
 24. } Road.</p> | <p>Proposed to insert \$70,000 on 1903 Estimates
 for these works.
 See para. 26.</p> |
| <p>21. <i>No. 2 Tank</i> to be promptly reconstructed.</p> | <p>Will be undertaken as early as possible. Plans
 in course of preparation.</p> |
| <p>26. <i>Bonham Road.</i>—New steam engine and
 boiler recommended.</p> | <p rowspan="2">} Requisition being prepared.</p> |
| <p>27. <i>Rising-main from Bonham Road to Peak.</i>
 New and longer one recommended. Old
 one to be removed, and cleaned and re-
 coated for use elsewhere.</p> | |