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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Public works DEPARTMENT

G.O. No.	<u>228 W</u>	Press.
B.P. No.		Mis.
Dated	<u>30-1-1880</u>	<u>1880</u>

K. Co

Not to be folded or roughly handled

228
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GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

30th January 1880, No. 228 W.

Buildings and Roads.
Civil Works.

Read the following paper:—

No. 44. Endorsement of the Chief Secretary to Government, Public Department, dated Fort St. George, 26th January 1880, No. 172.

From Surgeon-Major W. R. CORNISH, F.R.C.S., Sanitary Commissioner for Madras, to the Chief Secretary to Government, Public Department, dated Madras, 9th January 1880, No. 24.

I HAVE the honor to report, for the information of Government, that a question some time since arose as to the effect of the Junction Canal on the well water in the Mylapore district.

2. In my letter No. 1,714, to the President of the Committee appointed under G.O., No. 4,544, dated 27th November 1878, I stated that to test the question whether the salt-water of the canal would affect the neighbouring wells, specimens of water would be periodically examined.

3. Three wells were chosen for observation; one distant 100 yards from the canal, another 150 yards distant, and one 25 yards, and all to the eastward of the canal. Specimens of water were selected in December 1878, and again in December 1879, as near as possible on the same date, and the following is the result of the Chemical Examiner's analyses.

Analyses of Water.

	December 1878.			December 1879.		
	No. 1.	No. 2.	No. 3.	No. 1.	No. 2.	No. 3.
	Sami Nada Mudali's Garden, 100 yards from canal; formerly used by Nawab in field. No house near.	Dasiggar Covill's Garden, 150 yards from canal, east side. Water used for garden.	Cabaleesvaran Covill's Garden in dirty compound, 25 yards from canal. Near latrine.	Sami Nada Mudali's Garden, 100 yards from canal; formerly used by Nawab in field. No house near.	Dasiggar Covill's Garden, 150 yards from canal, east side. Water used for garden.	Cabaleesvaran Covill's Garden in dirty compound, 25 yards from canal. Near latrine.
Totalsolids... Grms.perlitre.	0.820	1.040	0.510	1.110	1.210	0.250
Volatile solids do.	0.110	0.220	0.210	0.290	0.250	0.130
Sodiumchloride do.	0.292	0.331	0.169	0.345	0.404	0.071

4. It will be observed that the wells distant 100 and 150 yards, respectively, have become slightly more saline, the chlorides increasing from 0.292 grms. per litre to 0.345, and from 0.331 to 0.404, but in the well nearest to the canal, and distant only 25 yards, the amount of sodium chloride has *decreased* from Grms. 0.169 per litre in December 1878 to 0.071 in 1879.

5. The deduction I draw from the facts is, that there is no present evidence to show that the canal has increased the saltiness of the neighbouring wells. The slight increase noted in the wells 150 and 100 yards distant may be due to the temporary disuse of them for irrigation purposes.

6. The observations will be repeated next year.

TRANSFERRED to the Public Works Department, with reference to the Order in that Department, No. 4,544 W., dated 27th November 1878.

(Signed) R. DAVIDSON,
Chief Secretary.

No. 45. ORDER THEREON, 30th January 1880, No. 228 W.

ORDERED that the Sanitary Commissioner's letter be placed on the Editor's-Table.

(True Extract.)

Major, R.E.,
Ag. Under Secy. to Govt., P.W.D.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1880) Madras.
PUBLIC WORKS.

To

Dated January 30th.

Issued

Recd.

Encl.

G. O., 30th January 1880, No. 228 W.

JANUARY.

Nos. 44-45.

Effect of the Junction Canal on the well
water in the Mylapore district.—Letter from
the Sanitary Commissioner reporting on the
— ordered to be placed on the Editor's
Table.

No. 24

Sanitary Commission

Office of Sanitary Commissioner
Madras 9th January 1880

The Sanitary Commissioner
for Madras

The Chief Secretary to Government
Public Department

Sir

I have the honor to report for the
information of Government, that a question
some time since arose as to the effect of
the junction Canal on the well water in the
Mylapore district.

2. In my letter No. 1744, to the
President of the Committee appointed under
G.O. No. 4544 dated 27th November 1878, I
stated, that to test the question whether
the salt water of the canal would affect
the neighbouring wells, specimens of water
would be periodically examined

3. Three

3. Three wells were chosen for observation, one distant 100 yards from the Canal, another 150 yards distant, and one 25 yards, and all to the eastward of the Canal. Specimens of water were selected in December 1878, and again in December 1879, as near as possible on the same date, and the following is the result of the Chemical Examiner's Analysis.

Analysis of Water

	December 1878			December 1879		
	No 1	No 2	No 3	No 1	No 2	No 3
	Same Jada Madala Garden 100' from Canal formerly used by hand in field to water near	Same Jada Madala Garden 150' from Canal East side of water used for gardens	Same Jada Madala Garden in ditch compound 25' from Canal near latrine	Same Jada Madala Garden 100' from Canal formerly used by hand in field to water near	Same Jada Madala Garden 150' from Canal East side of water used for gardens	Same Jada Madala Garden in ditch compound 25' from Canal near latrine
Total solids grains per litre	0.820	1.040	0.510	1.110	1.210	0.250
Volatile solids do	0.110	0.220	0.210	0.390	0.250	0.130
Sodium chloride do	0.292	0.331	0.169	0.345	0.404	0.071
7/2	5	5	5	5	5	5

4. It will be observed, that the wells

wells distant 100 and 150 yards respectively, have become slightly more saline, the chlorides increasing from 0.292 grains per litre to 0.345, and from 0.331 to 0.404, but in the well nearest to the Canal, and distant only 25 yards, the amount of Sodium chloride has decreased from grains 0.169 per litre in December 1878 to 0.071 in 1879.

5. The deduction I draw from the facts is, that there is no present evidence to show that the Canal has increased the saltiness of the neighbouring wells. The slight increase noted in the wells 150 and 100 yards distant, may be due to the temporary disease of them for irrigation purposes.

6. The observations will be repeated next year.

I have the honor to be
 Sir
 Your most obedient servant
 W. J. P. S.
 Sanitary Commissioner for Madras

P. & R. Works
W. Dept.
228/5

No 228 W

Pres: of the Madras Govt.
Under date the 30th Jan'y/80
Read the following:-

Ind: Public Dept. H. No. 172 d/26th Jan'y. 1880.

Ordered that the
Sanitary Commission
letter be placed on
the Editors Table.

[Signature]

29/1/80

[Signature]
27/1

[Signature]

P.W.D.
47330

26 Jan'y/80 -
J. & R. Works

Transferred to the P.W.D. under order
of the Government of the Madras Govt.
No. 172
26 Jan'y/80 -
J. & R. Works

Public. 1880
from
Sanitation
the Sanitary Commission
to
the Secy to Govt
Public & Revenue

Dated 9th 29
No. 10 January 1880

No. 24

Reports on the effect of
the Junction Canal on the
well water in the Mysore
District
with Enclosure

Pres: of Govt of 30th Jan'y/80 No 228 W

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Back No. 44

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Govt. of (1880) Madras.

PUBLIC WORKS.

To

Dated

Issued

Recd.

Encl.

31-1-80

G. O., *30 January*, 1880, No. *228 N.*

Nos. *414 to 415*

Effect of the Junction Canal
on the Well Water in the
Angkor District. —

Letter from the *Sanitary*
Commissioner reporting
on the — ordered to be
placed at the disposal
of the ^{for the} Editors' Table