

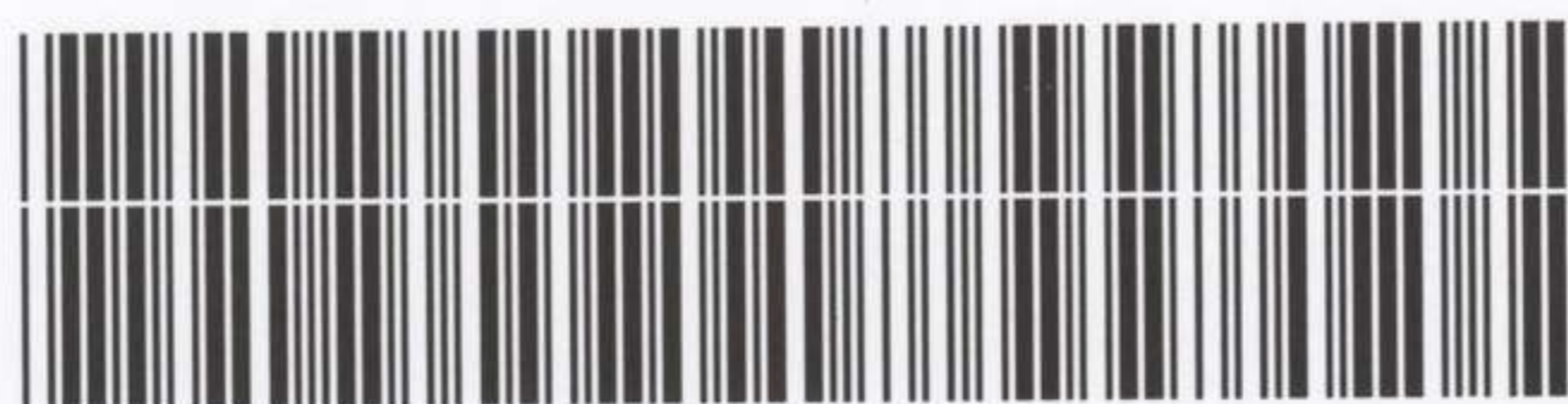
AWM4
Australian Imperial Force unit war diaries,
1914-18 War

Medical, Dental & Nursing

Item number: 26/77/23

Title: 2nd Australian Sanitary Section

February 1918



AWM4-26/77/23

WAR DIARY

Army Form C. 2118.

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Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II. and the Staff Manual respectively. Title pages will be prepared in manuscript.

INTELLIGENCE SUMMARY.

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
BAILLEUL	1/2/18.		General sanitary inspection. Conditions in Bailleul satisfactory. Vidange service regular & easily able to cope with the requirements. Sewerage service working smoothly. Sanitary area under this Unit is now too large. From Dors, Dranoat, hence Eglise, back almost to Hasebrouck, including Bailleul. Regular inspection cannot be maintained by the limited number of inspectors available.	
	2/2/18.		Sent Pte Hawsey, Stone, Barnett & Warron to Werris for work in back area. Public incinerators & latrines to be created as rapidly as possible.	
	3/2/18.		Forwarded duplicate Acquittance Rolls nos 22 & 23 to Chief Paymaster A.I.F. Medical inspection & bus appliance inspection. Men of 750 & 754 Area Paid unit, & details of Aust. Postal Corps. Postal Corps. Traffic Control & ^{Emp. Coy.} _{Anglo Corps}	
	4/2/18.		Pte CURTIS rejoined from leave. Lecture given to Corps School for Medical Officers, Bailleul on "Sanitation in the Field" with demonstrations of working of various types of incinerators. Field latrines, grease traps, food safes, etc. Also demonstration on use of Hornsby's Chlorination Test Case & the Water poisons test Case.	
	6/2/18.		Obtained from the Maire a written list of municipal buildings, Hospices, schools etc in Bailleul for which Vidange service is to be given without charge. All other places will be charged. This puts this matter on a definite footing and will save much trouble. Incinerators at main dump, Bailleul, are being rebuilt & repaired to get greater efficiency. The improvised incinerators built of old drums are the most effective of all. Went to Werris & arranged with the Area Commandant re material etc for public incinerators & latrines. Inspected Werris & Ostersteine in company with the Area Commandant.	

2ND AUSTRALIAN SANITARY SECTION
No.
Date

WAR DIARY

Army Form C. 2118.

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INTELLIGENCE SUMMARY.

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
BAILLEUL.	6/2/18.		Meeting at DDMS office Austn Corps. DDMS. + DADMS, Corps Water Supply Officer + O.C. Sanitary sections. Subject. water supply in the war zone. For details. See Personal Diary forwarded with War Diary (under date 6/2/18).	Remarks and references to Appendices
			Inspected Bailleul. New weed dump satisfactory progress. Track is completed for G.S. Wagons. Ditches + drains about Railhead inspected. Defects reported to Town Foreman. Obtained material for building incinerators from Corps Salvage Dump. Inspected drainage scheme at No 65. R.F.C + at Asylum Bailleul. Reported to DDMS.	
	7/2/18.		Saw O.C. Aust. Artillery M.G. sectn. re sanitation at his Camp. Machine gun school here. All N.C.O's. re fatigues. Recommended a party of 2 or 3 men from an Area Employment Coy to be attached to the school as fatigues. Recommendation sent to D.A. D.L. Corps.	
			Arranged with 3rd + 5th Aust Sanitary sections to take over the forward portions of my area as from 9/2/18. This will leave me with Bailleul, the main area back to Haselbrouck. Sent maps + Plans of these areas to the O.C. of these two sanitary sectns. showing all camps + sanitary works in the areas concerned also particulars regarding the areas, position of water points, wells, etc.	
			Arranged with "K" Sledge Park to take over all unobtainable oil drums for use in erecting + repairing incinerators.	
	8/2/18.		Arranged with O.C. 2nd F. ambulance to supply horses to draw mechanical sweepers in Bailleul.	
			Saw maine of Bailleul (M. Conty) + arranged for a written statement to effect that in future the municipal abattoirs shall pay for emptying of abattoir establishment pits in the same way + at same rate as for ordinary sewage. This cleans up a very much disputed point; the abattoirs not having paid for drainage service before	

2ND AUSTRALIAN SANITARY SECTION

WAR DIARY

Army Form C. 2118.

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or
INTELLIGENCE SUMMARY.

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
BAILLEUL	8/2/18.		Insisted on payment for Vidange service by all civilians, irrespective of whether soldiers are belleted or them or not. This point is now settled /// .	
	9/2/18.		Saw Town foreman. (M. Calewaent) re cleansing ditches. Arranged for him to employ two extra civilian labourers permanently. in order to enable him to cope with the large amount of work to be done in ditching etc.	
			Received from DDMS. Aust. Corps Sanitary Administ memo to S. with map showing needed sanitary area (extending from Bailleul thru' harris Thetemen to the town near Hasebrouck).	
			Handed over area forward of Bailleul to Major Kelly (3 rd Aust San Sectn) with draw my men from that area.	
	10/2/18.		Made arrangements with Corps Baths officer for weekly Bath parade of all men of 750 th 754 th & 753 rd area Employment Coys. employed by me.	
			Medical inspection of men of these 3 Area Employment Coys: all clean & free from scabies & vermin. Inspection of anti-gas apparatus (PH helmets etc) at 11.15am	
			Under DAG A.I.F. 257/158 d 1/2/18 The policy of granting unpaid acting rank to men of Australian Sanitary sections is not approved. This is unfortunate	
			The men could do better work & would have more confidence as inspectors & water supervisors if they carried stripes. They hold responsible positions & have charge of sanitary problems etc in areas for which they are responsible	
			If unpaid acting rank is denied, there should be an increase in the establishment of N.C.O.'s with substantive rank.	
	11/2/18.		Delivered lecture to medical officers of Corps School in Bailleul on sources of water supply & chlorination.	

2ND AUSTRALIAN SANITARY SECTION

No.
Date

T2134. Wt. W708-776. 500000. 4/15. Sir J. C. & S.

3

WAR DIARY

Army Form C. 2118.

88

Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II. and the Staff Manual respectively. Title pages will be prepared in manuscript.

INTELLIGENCE SUMMARY.

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
BAILLEUL.	11/2/18.		Building of public incinerators & latrines in Meunier Area is being pushed on with Remarks re unsafe water supply from Douse river; & on the causes of deterioration in chloride of lime used in sterilising water. (See Personal Diary 11/2/18.)	deterioration
	12/2/18.		Divided up Meunier sanitary area into eleven sub areas, each under a sanitary inspector. Sub area maps on which inspectors can enter all camps & billets & the position of sanitary works, are being prepared. Arrangements made to enforce orders re cleanliness of drinking vessels in canteens & the use of milk (which must always be boiled before use in tea or coffee). Food Box can proving very suitable for sanitary section use.	canteens
<div style="border: 1px solid red; padding: 2px; width: fit-content;"> <p>2ND AUSTRALIAN SANITARY SECTION</p> <p>No.</p> <p>Date</p> </div>			indent sent to CRE Corps Troops for D D M S for Timber & Iron was turned down absolutely. The area is in urgent need of public latrines & incinerators & material must be got.	
	13/2/18.		Report furnished to Corps re sanitary conditions at Aust Anti Aircraft N.G. School camp near Bailleul; raising question of every camp being held responsible for its sanitation. See Comms. files # 18/110 & M 18/111. Also Personal Diary under 13/2/18. Placed two men (sanitary inspectors of sub areas) at Sec. Bois & arranged billets & rationing. Inspected this area. Also Meunier. Men are using wells freely & very little chlorination is being done. Reported to A D M S 1st Aust Div. Pte Seabrook, A.L. rejoined from leave to U.K.	
	14/2/18		Ptes Badger & Wardleworth rejoined from leave to U.K. Routine inspection work in Bailleul.	
	15/2/18.		Sgt HOLMES. F.S. rejoined from leave to U.K. Out of inspection Meunier area sanitary condition improved in Meunier. Sewerage system working well.	
	16/2/18.		Called to Corps Hqr. in connection with sanitation of Aust Anti aircraft M G School near Bailleul. Question of responsibility of sanitary section for the condition of the camp was thrashed out & it was admitted by	

T2134. Wt. W708-776. 500000. 4/15. Sir J. C. & S.

WAR DIARY

Army Form C. 2118.

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or
INTELLIGENCE SUMMARY.

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
BAILLEUL	16/2/18		<p>by DAAG. that the Sanitary Section was not in any way responsible & was not expected to perform the work of keeping any camp or bullet-sanitary. The actual work must be done by unit in occupation, & if the Unit has no sanitary fatigue, a sanitary fatigue must be temporarily attached for the purpose by Troop Major, or Successor of Corps, as the case may be.</p> <p>obtained a small amount of timber & other material through Area Commandant at Mearns for work in his area. Material being hard to get as it is all being used in defence works in the line.</p> <p>Paid Unit & details of anti Cyclists Corps (Traffic Control) and Postal Corps, Postal Coy etc.</p>	
	17/2/18.		<p>Lecture delivered to Corps School for medical officers in Bailleul</p>	
	18/2/18.		<p>maps of area prepared for use of Sub-area inspectors. with area & sub area boundaries marked: 19 chief landmarks & all roads etc.</p> <p>acq Roll no 29 & Duplicate acq Rolls no 24 & 25 made up & forwarded.</p> <p>plc BOND. (7500klog) Absent since 5 pm yesterday. Reported to A.F.M.</p>	
	19/2/18.		<p>Conference with DPMS & PDMS anti Corps re measures to be taken in connection with control & examination of prostitutes in Bailleul. system of cooperation between military & civil authorities discussed. Supervision of the system to be carried out by SA sanitary section, Bailleul. details to be arranged.</p>	
			<p>Visit of inspection to Mearns & Wateren with the area Commandant. Very insanitary conditions at Wateren. Reported personally to Staff Capt, 1st Aust Inf. Bde who promised immediate attention. Public incineration at Wateren will soon be completed & a proper scavenging system organised. Civilian cess pits as usual are causing trouble. These must be attended to by civilians.</p>	
	20/2/18.		<p>T2134. Wt. W708-776. 500000. 4/15. Sir J. C. & S. Census of wells & other sources of water supply in the area is being taken by water Superintendents. General sanitary inspection about Bailleul.</p>	

WAR DIARY

Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II. and the Staff Manual respectively. Title pages will be prepared in manuscript.

INTELLIGENCE SUMMARY

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
BAILLEUL	22/2/18		Delivered lecture on water supply & chlorination to Corps medical school. attended demonstration on defensive & offensive gas measures at Corps gas school. Went through various kinds of gas; especially stannous chloride which penetrates the German gas mask but has no effect on our own mask.	
	23/2/18		Preparing Census of all wells & other sources of water supply in the area with details of nature of supply, map location, quality, quantity, nature of label "posted" or "recommended".	
	23/2/18		List of area stores used by Sanitary section sent to Town Major Bailleul. check of all stores carried by Sanitary section on its own establishment, also made out.	
	24/2/18		Transfer of Pte Whelan J. from 1st Aust Pioneer Bn to 2nd Aust Sanitary section, completed.	
	24/2/18		Transfer to date from 21/2/18	
	24/2/18		Sunday. Medical inspection of men of 750 th , 752 nd & 753 rd Area Inft. Coys in Bailleul. Sanitary inspectors of sub-areas (monthly & weekly) reports received & dealt with.	
	25/2/18		Inspection Bailleul. Estaminet no 5 Rue des Foulons but out of bounds. Insanitary conditions other Estaminets inspected & found satisfactory.	
	26/2/18		Visited Metecan with Area Commandant. Conditions improved. had public incinerator. Suffering of billet. 165 Rue de Lille. Soldier, shoes taken. Isolation & disinfection of billet.	
	27/2/18		Insanitary conditions of billets at Les Bois occupied by 1st, 2nd, 3rd Battalions Aust 1st Inf. reported to C.O. 1st Aust. F. Det. Bde for action.	
	27/2/18		Question of treating bins for soldier is causing trouble. Units keep the bins but make no arrangements for treating. Bins collect & are insanitary. matter will be put up to Corps.	
	28/2/18		New orders regarding Agriculture will simplify the disposal of horse manure.	
	28/2/18		Vidange & scavenging service in Bailleul are working very well.	
	28/2/18		Lecture to Corps school for medical officers on Field sanitation. Demonstration of Field Sanitary appliances, & use of Horrocks Water test.	
	28/2/18		case of water poisons test case. Preparation of monthly Sanitary Report.	

2ND AUSTRALIAN SANITARY SECTION

1918 Mrs Capt

WAR DIARY

OF

2nd Australian Sanitary Section.

FOR

*February 1918.***LIST OF APPENDICES.**

No.

Subject.

1. *Sanitary Administrative Memoranda
nos. 4. 5. 5B.*
2. *Monthly Report of 2nd Australian
Sanitary Section for February 1918
with Tables & Maps.*

J. W. Jones Capt.

SECRET

appendix: 1.

Copy No.....

FIRST AUSTRALIAN AND NEW ZEALAND ARMY CORPS.SANITARY ADMINISTRATIVE MEMORANDUM No. 4.

The following Areas are allotted to Sanitary Sections as from Noon, 18th November, 1917.

- 5th Aust. San. Section. The whole of the left Divisional Area.
- 3rd Aust. San. Section. The whole of the right Divisional Area and that portion of the supporting Divisional Area South of the BAILLEUL - STEENWERCKE Railway inclusive.
- 2nd Aust. San. Section. That portion of the supporting Divisional Area North of BAILLEUL - STEENWERCKE Railway exclusive.

Sanitary Sections will notify this Office of location of their Headquarters as early as possible.

Headquarters,
1st A N Z A C.
17th Nov. 1917.

Clement Chapman ^{may for} COLONEL.

D.D.A.S., I. A. & N. Z. Army Corps.

DISTRIBUTION :-

Copy No. 1	O.C., 2nd Aust. San. Section.
2	O.C., 3rd Aust. San. Section.
3.	O.C., 5th Aust. San. Section.
4	A.D.M.S., 2nd Aust. Division.
5	A.D.M.S., 3rd Aust. Division.
6	A.D.M.S., 5th Aust. Division.
7-10	"A.Q.", I ANZAC
11	"G", I ANZAC
12	D.M.S., Second Army.
13	D.A.D.M.S. Sanitation, IIInd Army.
14	C.R.E., Copps Troops
15-17	War Diary.
18	File.



A U S T R A L I A N C O R P S

SANITARY ADMINISTRATIVE MEMORANDUM No. 5.

1. The following re-arrangement of Sanitary Section areas will come into operation forthwith.
2.
 - i. 1st Australian Sanitary Section will administer the Lumbres Area, occupied by 2nd Australian Division.
 - ii. 2nd Australian Sanitary Section will administer the Bailleul and Merris areas, less that portion of the former east of the railways running north and south from Bailleul.
 - iii. 3rd Australian Sanitary Section - That portion of the Bailleul area east of railways mentioned in ii. the Ravelsberg, Neuve Eglise, Kortepyp, Nieppe and Ploegsteert Areas.
 - iv. 4th Australian Sanitary Section - The De Zon, La Clytte Ridge Wood, and Voormezeelo Areas.
 - v. 5th Australian Sanitary Section - The Locro, Dranoutre, Beaver, Wulvergem, Kommel, Messines, Red Chateau and Grand Bois Areas.
3. The following routine returns only are required at this Office.
 - a. Weekly reinforcement return made up to noon on Saturdays, to reach this Office by D.R.L.S. on Saturdays.
 - b. Monthly report on area, in triplicate, as hitherto, to reach this Office not later than 2nd of each month.
4. Acknowledge.

C. C. Mansfield

Headquarters
8th Feb. 1918

D. D. M. S. AUSTRALIAN COLONEL
CORPS.

Distribution :-

A. D. M. S. Aust. Divisions) With Map.	Aust. Corps "AQ") Without Map.
Os. C. Aust. San. Sections		C. R. L. Corps Troops	
D. M. S. Fourth Army		Area Commandants	



D.M.S., Fourth Army No. 19/236/3.

D.M.S.,
4th ARMY.

S E C R E T.

No.
Date.....

MEDICAL ARRANGEMENTS, FOURTH ARMY

Operation No. 5a^B

Operation No. 5 is cancelled.

SANITARY SECTIONS.

1. Corps in the line are allotted to Sanitary Sections as follows :-

"A" Corps Nos. 55, 25, 42, 45, & 71	Sanitary Sections.		
"B" Corps Nos. 81, 76 & 72		" - "	" - "
"C" Corps Nos. 82, 83 & New Zealand		" - "	" - "
"D" Corps Nos. 2, 3, 4, & 5 Aust'n		" - "	" - "

2. The Sub-divisions of the Army Area West of Corps Areas are allotted to Sanitary Sections as follows :-

- (a) No.13 Sanitary Section :- STEENVOORDE, CASSEL and town of POPERINGHE: H.Q., at STEENVOORDE.
- (b) No.56 Sanitary Section:- WORMHOUDT, ZEPPEZEELE, ARNEKE, NOORDPEENE, ZEGGAPS-CAPPEL, RUBROUCK SCHOOLS, LEDERZELLE, WATTEN, POLINCOVE, MOULLE and NORDASQUES Areas - H.Q., at WORMHOUDT.
- (c) No.40 Sanitary Section:- STRAZEELE, CODE, MORBECQUE, STAPLE, HAZEBROUCK, BLARINGHEM, RENESCURE, ARQUES, ST.MOMELIN.
- (d) No.47 Sanitary Section :- TILQUES, THIEMBRONNE, FRUGES, NIELLES, TOURNEHEM, SAMAR and LICQUES Areas.

3. 1st Australian Sanitary Section will supervise the LUMBRES Area occupied by the Reserve Division of "D" Corps.

4. Each Corps will administer the Sanitary Sections allotted to them: the remainder will be administered by the Army.

M. W. O'Keefe

Surgeon-General,

Director of Medical Services.

Headquarters,
Fourth Army.
4.2.18.

M.

Copies to:- D.G.M.S.,
Fourth Army "A"
Fourth Army "Q"
D.Ds.M.S., Corps.
Os.C., C.C.Ss.,
New Zealand Stationary Hospital.
Os.C., Sanitary Sections.
War Diary.

Sanitary Report for month of FEBRUARY. 1918.

Area. Australian Corps. Back Area including } Bailleul.
Meteen.
Mennis.
Sec. Bois Area.

2ND
AUSTRALIAN
SANITARY SECTION.

No.
Date 28/2/18

4th Army.

2nd Australian Sanitary Section

Report furnished to DDMS Australian Corps.

Area.

The sanitary area supervised by 2nd Australian Sanitary Section during the early part of February 1918 extended from Locré, Dranouvie through Lense Eglise & La Cuche on the East, through Bailleul & Mennis to beyond the Sec Bois area on the West. This area was too large to be supervised by an sanitary section, & on 8/2/18, under instructions from DDMS Australian Corps (sanitary administration memo. no 5-), the part of the area forward of Bailleul was handed over to the 3rd & 5th Australian Sanitary Sections, leaving the remainder of the area including Bailleul & the Corps Back Area under supervision of 2nd Austr. Sanitary Section. Maps & plans showing position of Camps, water points & sanitary works in the area handed over, were given to the O.C.'s of 3rd & 5th Austr. Sanitary Sections.

The area remaining under me has now been divided into eleven sub areas, each under a sanitary inspector. The boundaries of these sub areas are shown in blue on the maps attached to this Report, which also give an indication of the distribution of sanitary works & appliances in the area.

Billets
(1).

Billets. With the exception of a few ^{R.F.C} ^{Hatment} Camps around Bailleul, the billets in this area consist ^{entirely} of civilian houses.

1.
Billets

2.

the villages, & of farm houses scattered over the country. There are the usual difficulties with regard to civilian sanitation, but on the whole the billets are satisfactory.

There is more than enough accommodation for the troops billeted in the area, & there is no overcrowding, only the best-billets having to be used.

2
Water supply

The sources of water supply for Bailloul have been fully described in previous reports. The supply has been carefully analysed by the mobile Hygiene Laboratory during the month & the report is highly satisfactory.

In the area behind Bailloul the safest source of supply is at Matenen where a deep bore at the Brasserie on the main road, gives a copious supply of very safe water. A water point for filling water carts has been established here by Army.

Other sources of supply in the area are civilian wells, or shallow soak wells. In most parts of the area these are the only supply, with the exception of the running streams, which however should not be used as a source of water supply under any circumstances since they carry nothing but the flow from filthy ditches & the surface washings from highly fertilised & polluted ground.

There are too many wells in use in the area. The wells are mostly very shallow, & contain water which is necessarily polluted, considering the close association between the wells & the farm midden heaps & cess pits. Only the best wells should be authorised as sources of supply for troops; a ^{convenient} ~~certain~~ number being authorised in each billeting locality. All others should be cut out & marked unfit for use of troops.

A census of all wells & other sources of supply in the area is now being completed.

Labels are being posted at the Wells etc., indicating their fitness or otherwise for the use of troops; & indicating the degree of chlorination required in the case of those authorised as sources of supply. These labels have to be renewed frequently as the civilians object to them on their wells, & remove them whenever they get the chance.

Chlorination. is not regularly carried out in the case of water drawn from wells & streams, & in the absence of chlorination the drinking of this water is very dangerous.

The statistics given in the attached Table show that water drawn from water points in water carts is regularly chlorinated.

Of 81 water carts tested during the month, 77 were found to have been effectively chlorinated (i.e. 95% chlorinated).

As regards water drawn from wells, this is usually kept in petrol tins & dickeries for use; & the figures show that of 53 samples of water taken from these supplies in cook houses etc., only 10 (i.e. 21%) had been chlorinated.

This is not satisfactory. It is this water drawn from wells & other civilian sources of supply which stands most in need of chlorination; & which in most cases escapes chlorination because the units draw from wells over which there is no supervision, and no ~~system~~ system is put into operation to ensure chlorination.

Wells authorised as water supply for troops should be reduced to a minimum number, & a guard of one man should be stationed at the well during the hours specified for drawing water, & his duties should include the chlorination of all water drawn, by means of a stock solution of Bleaching powder. In addition to chlorination, the principle of boiling all water before use should also be enforced.

Record of Watercarts, Dixies, Petrol Tins & Tanks
 tested to check the regularity of chlorination. Appendix 21A

ARCA — BAILLEUL. Meteren. Merris. Sec Bois

Date	Water Carts	Dixies	Petrol Tins	Tanks	Chlorinated	Not Chlorinated
27/1/18	3	-	-	-	3	-
28/1/18	5	-	-	-	5	-
29/1/18	4	-	-	1	5	-
30/1/18	3	3	-	4	9	1
31/1/18	6	-	-	-	6	-
1/2/18	8	1	-	1	8	2
2/2/18	5	-	-	1	6	-
3/2/18	5	1	-	1	4	3
4/2/18	5	-	-	-	5	-
5/2/18	6	1	-	3	9	1
6/2/18	5	-	-	1	6	-
7/2/18	5	-	-	1	6	-
8/2/18	5	3	-	2	8	2
12/2/18	-	3	-	-	-	3
13/2/18	-	2	-	1	2	2
14/2/18	1	1	-	-	1	1
15/2/18	-	1	2	-	-	3
16/2/18	2	-	-	-	2	-
17/2/18	-	2	-	-	-	2
18/2/18	-	2	-	-	1	1
19/2/18	2	2	1	-	3	2
20/2/18	3	6	-	-	3	6
21/2/18	4	9	2	1	8	8
22/2/18	2	4	-	1	2	5
23/2/18	-	3	-	-	1	2
24/2/18	2	1	-	-	2	1
26/2/18	-	2	1	2	3	2

Totals 81 47 6 20 107 47

Of 81 water carts tested 4 were found to be unchlorinated.

2ND
 AUSTRALIAN
 SANITARY SECTION.
 No.
 Date 28/2/18

Chlorination is carried out in bulk at the main reservoir twice daily. Samples taken twice daily, both of the raw water before it enters the reservoir, & of the chlorinated water as drawn from the street standpipes shows the following results.

Average number of micro-organisms per l.c.c.

- | | |
|--|---------------|
| A. Raw water (unchlorinated) | 31 per l.c.c. |
| B. Chlorinated water (from standpipes) | 7 per l.c.c. |

B. Coli, invariably present in the raw water is always absent from the chlorinated water.

These figures are very satisfactory, & the water supply of Bailleul may be considered very safe.

Notices erected. In connection with water supply the following notices were erected by the Sanitary Section during the month.

- | | |
|--|------------|
| A. Fit for drinking after Chlorination | 26. |
| — measures. | |
| B. Fit for Cooking purposes only. | 25. |
| C. Unfit for use by Troops | 17 |
| Total | <u>68.</u> |

The Food supply is good: Cookhouses are, on the whole, kept clean. Slops are disposed of by grease trap & soak pit. More care is required in most units in regard to the cleaning of benches etc used in the cookhouses for cutting up food, especially meat. These benches should be scrubbed frequently with hot water & soap, & if possible washing soda solution to dissolve the grease.

Q.M. stores & cookhouses as a rule are not sufficiently well provided with boxes & safes for protecting food. Consequently rats have easy access to the food with consequent dangerous contamination from urine & faeces.

In these back areas at any rate there is no excuse whatever for carelessness in this respect.

Food supplies

A8

5.

Boxes are obtainable for the making of food containers & safes; & units have time enough to do the work.

Food waste is for the most part utilized by civilians at the billets, in feeding of pigs etc. Estaminets. In Baillieux the estaminets are kept under supervision & are run satisfactorily. Drinking vessels are washed in hot water, & immediately after use, & then dipped into a solution of permanganate of potash & allowed to drain dry.

During the month one Estaminet was put out of bounds for sanitary reasons; owing to the likelihood of troops picking up disease.

4 & 5

Baths & laundries. Nothing fresh to report.

6
Disinfection

Disinfection of billets is carried out by the sanitary section where necessary, both for reasons of general cleanliness; & also in connection with cases of infectious disease.

During the month 19 huts & 5 civilian billets were disinfected for general reasons, and 2 billets & 2 huts on account of infectious disease.

There has been very little infectious disease in the area, either amongst civilians or troops.

7
Latrines
&
Urinals

Latrines & Urinals.

In Baillieux. The position as regards latrine accommodation, & disposal of excreta continues to be satisfactory. The bucket-system is in operation in all the purely military billets, & in connection with all public latrines in the town. The excreta is collected & incinerated by men of Area Employment Coys working under the sanitary section. In connection with

several of the public latrines, there is a local incinerator which deals with excreta on the spot.

In most cases, however, excreta is collected daily & sent in oil drums to the main incinerator.

During the month one new public latrine was built

7
Jatronics
9
diurnals

48

6.

Appendix 217

in Bailloul, and one was shifted to a more convenient situation.

The civilian system in Bailloul is a cess-pit system; the pits having to be emptied periodically by means of the vidange apparatus. This apparatus is now in good working order & all necessary work has been dealt with.

164 cess-pits have been emptied during the month, & 293 tanks of sewage removed, totalling about 200,000 gallons in all.

A small charge is made to civilians for the vidange service, except in the case of Hospices, Asylums & Schools, & other charitable & municipal institutions which by agreement with the Maire, are attended to free of charge.

The money collected is expended in the upkeep of the vidange apparatus & of the sanitary service in the town generally.

In the area behind Bailloul both the bucket-system & pit system are in use.

Whenever possible the pit system is being introduced to replace the pans, because in practice it is more sanitary. It does not involve the handling of excreta, and as in practice the excreta from bucket latrines is usually buried & not burnt, the pit system actually fouls less ground.

In Metz-en for example, excreta was being emptied from the buckets into open pits & left exposed, additional excreta being added each day. In other cases it is buried in the vicinity of camps, in shallow trenches often insufficiently covered, & gives rise to extensive pollution of the ground surface. Where incineration is carried out, it is often done imperfectly by men who are not trained to the work; & in incinerators not suitable for

7.

7 48
latrines
Urinals

the burning of excreta.
In the centre of villages, & in camps & billeting localities where ground is waterlogged, the bucket system, with incineration if possible, is necessarily retained; but whenever pits can be dug, the pit system is being introduced. In the Sec Bois area, latrines generally are on the pit system. There are no public latrines in Sec. Bois. at present, & it will be necessary to build them in convenient positions in this village as soon as possible. The main difficulty is to get the necessary material for the work; & in this back part of the area where the number of troops billeted is small & material is not available, the straddle pit system will have to be relied on at many of the scattered billets. This system is quite sanitary if properly carried out.

During the month the number of latrines turned out from the Sanitary section workshops, has been small, totalling 49 seats. It has been impossible to obtain material for further work.

8
Refuse disposal.

Refuse disposal. The scavenging & street sweeping system in Bailleul, as described in previous reports, has worked satisfactorily, & the town is clean. There is a regular scavenging round each day & refuse is removed to the various local incinerators & to the main incineration dump where it is burnt at once. Mud is picked up from streets & taken to the new mud dump off the Rue de la Gare, where it is usefully disposed of in filling in swampy ground. The approach to the mud dump has been further improved by use of tins & rubble etc from the incineration dump. A large amount of work has been done in cleaning up billets in Bailleul where refuse had been accumulating for long periods. In all 91 G.S. wagon loads of refuse from billets

in the town was collected & carted to the incineration dump during the month. The work was done with the assistance of fatigues from the Units in occupation of the Billets.

At the main incineration dump, Bailleul, three of the large incinerators which had fallen into disrepair from long use, were pulled down & rebuilt, & are now working satisfactorily.

In the area behind Bailleul, the system of refuse disposal was not very satisfactory, but is improving. In Meneres, Meteren & Outensteene public incinerators of a pattern suitable for burning excreta, have been built by the Sanitary Section; & a regular scavenging service has now been introduced in these villages by the Area Commandant, the refuse being collected each day & taken to the public incinerators where it is burnt by men employed by the Area Commandant.

Cleaning of streets has also been regularly done the mud being removed as it is cleaned up. In Meteren there are half a dozen incinerators of good type, which had fallen into disrepair & become inefficient & unused. These are now being repaired & put into good working order & will be sufficient for the needs of the village.

In the See Bois area there are no public incinerators & very few unit incinerators. A public incinerator is required in See Bois village, & a few portable iron incinerators for use of Units, & these will be supplied as soon as possible.

Cookhouse refuse is readily disposed of to civilians for feeding pigs etc.

Some difficulty has been met as a result of the Army Order relating to the recovery of solder from bully beef tins. Some units save tins of all kinds, & bag them or leave them in heaps but take no steps to have them treated for the solder; & the tins accumulate. If this solder recovery is to be carried on without danger to

Refuse
disposal
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health; especially in the fly season, there will have to be a well organised system of dealing with the tons day by day so that accumulation will not take place. Units which cannot treat tons, or remove them each day to a recovery plant, should incinerate them in the usual way.

Ditches & Drainage. In Baillieu this has been a very difficult problem. The drainage system of the town is very primitive & unsatisfactory. Drains are constantly blocked up, & overflow into cellars & cellars, etc. The drains usually are laid on such a course under buildings that they cannot be got at for cleaning. Apparently the custom of the town has been to allow drains which become blocked, to remain in that condition indefinitely & to put up with the results.

Repairs to street drains & channels & ditches are attended to by the Town foreman acting under the maine. He has four men working under him, but these are absolutely insufficient for the work that is in urgent need of attention. As no other labour can be got, drains & ditches generally are in an unsatisfactory state.

9
Horse
standings

Little difficulty is being met now in dealing with horse refuse. The farmers collect it from the land. Also, as a result of the recent orders regarding agriculture, stationary units are also applying for manure which is readily disposed of in this way direct from the horse lines. Any manure from lines in neighbourhood of Baillieu, which is not immediately utilised in this way, is removed to the public manure dump.

10.

Anti louse & scabies measures are carried out by Coops & by Divisions. The Clayton apparatus (sulphur) is proving very effective in this respect.

11.

Instruction in sanitation. Lectures have been given regularly during the month, to officers attending the Coops School of medical officers at Baillieu.

The subjects of the lectures have been "Water Supply & Chlorination" & Sanitation in the Field. Demonstrations of the use of Homochlor Water testing case, & of the water poisons test case have been given; also of different types of sanitary appliances in the Field. A small exhibit of sanitary structures has been formed at the sanitary section workshops for demonstration purposes.

Units send men from their sanitary detachments to learn carpentry in the sanitary section workshops, & to assist in making sanitary structures required by the Unit. The shortage of material in this back area has however prevented much of this being done.

13
infectious
disease

Very few cases of infectious disease have been reported during the month.

Dysentery (suspected)	2 cases	} all military.
Diphtheria	1 case	
Measles	1 case	

Disinfection of billets has been carried out at the end of the isolation period.

14.

General Considerations:

Labour. The question of labour has presented difficulties, but with the addition of a further six men from 833 Area Empl Coy towards the end of the month, the position at present is not bad.

All 62 men are employed in Routine sanitary work in Bailleul. The authorised number is 72, but considering the scarcity of labour at present, 62 men can be made to carry out all the urgent work.

In other parts of the Area the work required is mostly done by working parties obtained from Units through the Area Commandant. At Meteren for instance 24 men are available for street cleaning & general sanitation work.

For looking after the drains & ditches about Baillieu, more civilian workmen are required to work under the Town foreman, but these cannot be obtained at present. Before the summer sets in these ditches will have to be attended to, & it may be necessary to obtain a working party from a land drainage Coy, or some other source for this work.

Material. Is practically impossible to obtain in this back area; consequently the output of the Sanitary section workshops is small.

In general. The sanitary condition of Baillieu is good. That of the other parts of the area is capable of very considerable improvement.

W. H. Jones Capt.

O.C. 2nd Aust. Sanitary Sectn.

2 ND AUSTRALIAN SANITARY SECTION.	
No.	
Date 1/3/18.	

List of Sanitary Works existing in 2nd Aust Sanitary Section Area

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February 1918

Sub Area	Latrines						Urinals	Incinerators	Grease Traps	Cubulation benches	Soak pits	Soak traps	Baths	Refuse Dits.	
	Pan	Seats	Pit	Seats	Incomplete seats	Seats									
Bailleul	135	703	-	-	-	-	158	43	63	63	71	5	5	12	
Meteren	23	106	21	60	-	-	26	10	8	3	9	-	-	-	
Morris	18	38	8	29	21	56	23	9	12	1	3	3	2	9	
Ottersteine	8	29	5	18	4	8	8	4	8	5	1	1	-	-	
Steinyc Koota Boon	34	114	-	-	-	-	7	5	5	6	3	-	1	3	
Belle Croix Clapanc	14	58	22	50	-	-	33	21	6	3	7	-	-	-	
Sec Bois	29	45	30	77	-	-	18	6	5	4	-	-	2	-	
Totals	261	1093	86	234	25	64	273	98	107	85	94	9	10	24	
Total Seats						1391									

2ND AUSTRALIAN SANITARY SECTION.
 Date 28/2/18
 J. H. James

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Bailleul 2

----- AREA ----- *Fourth* ----- ARMY

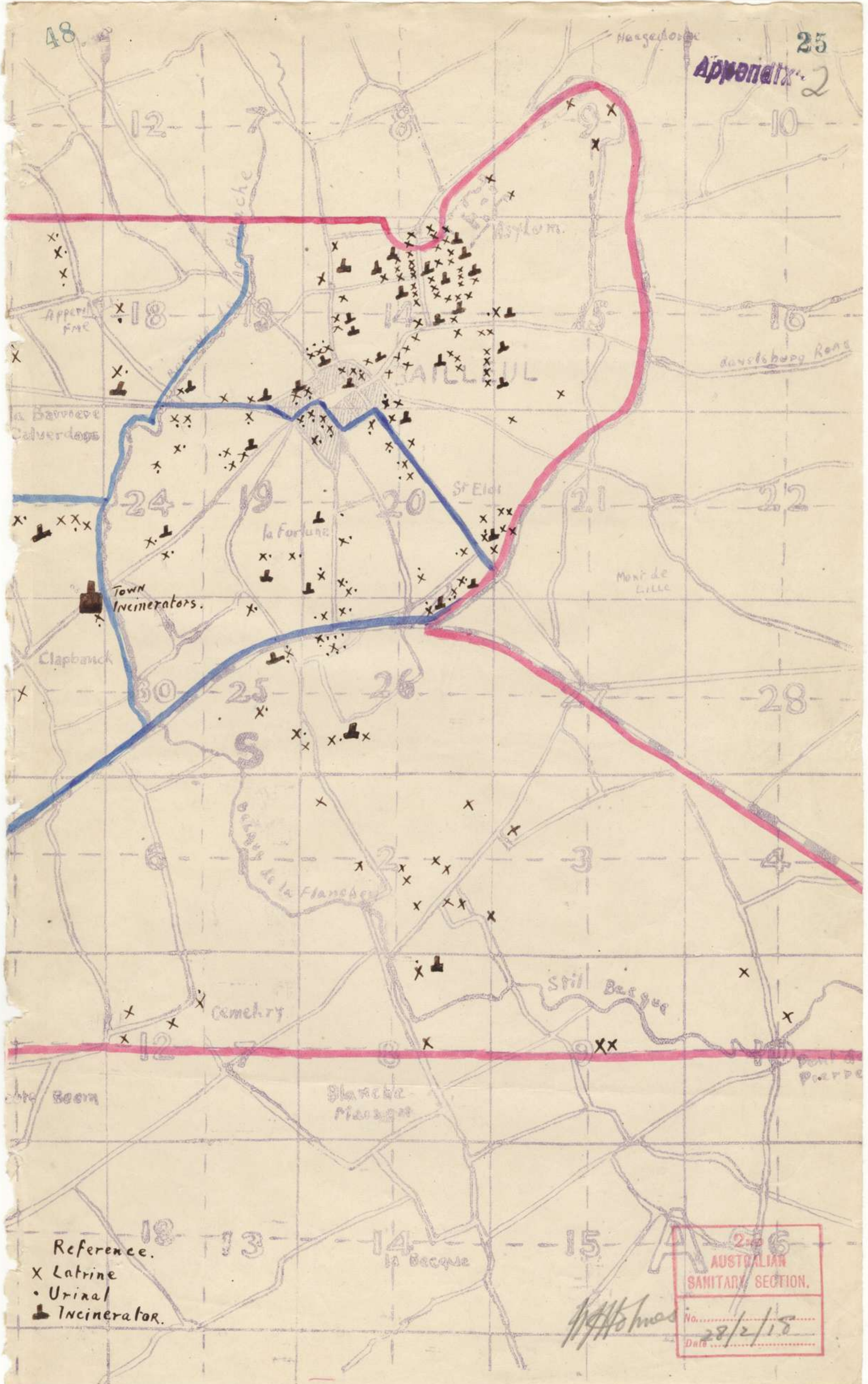
SYNOPSIS OF WORK CARRIED OUT BY AND UNDER THE SUPERVISION OF *2nd Austin* SANITARY SECTION DURING THE MONTH ENDING *February 28th 1918.*

2ND AUSTRALIAN SANITARY SECTION. No. *28/2/18.* Date

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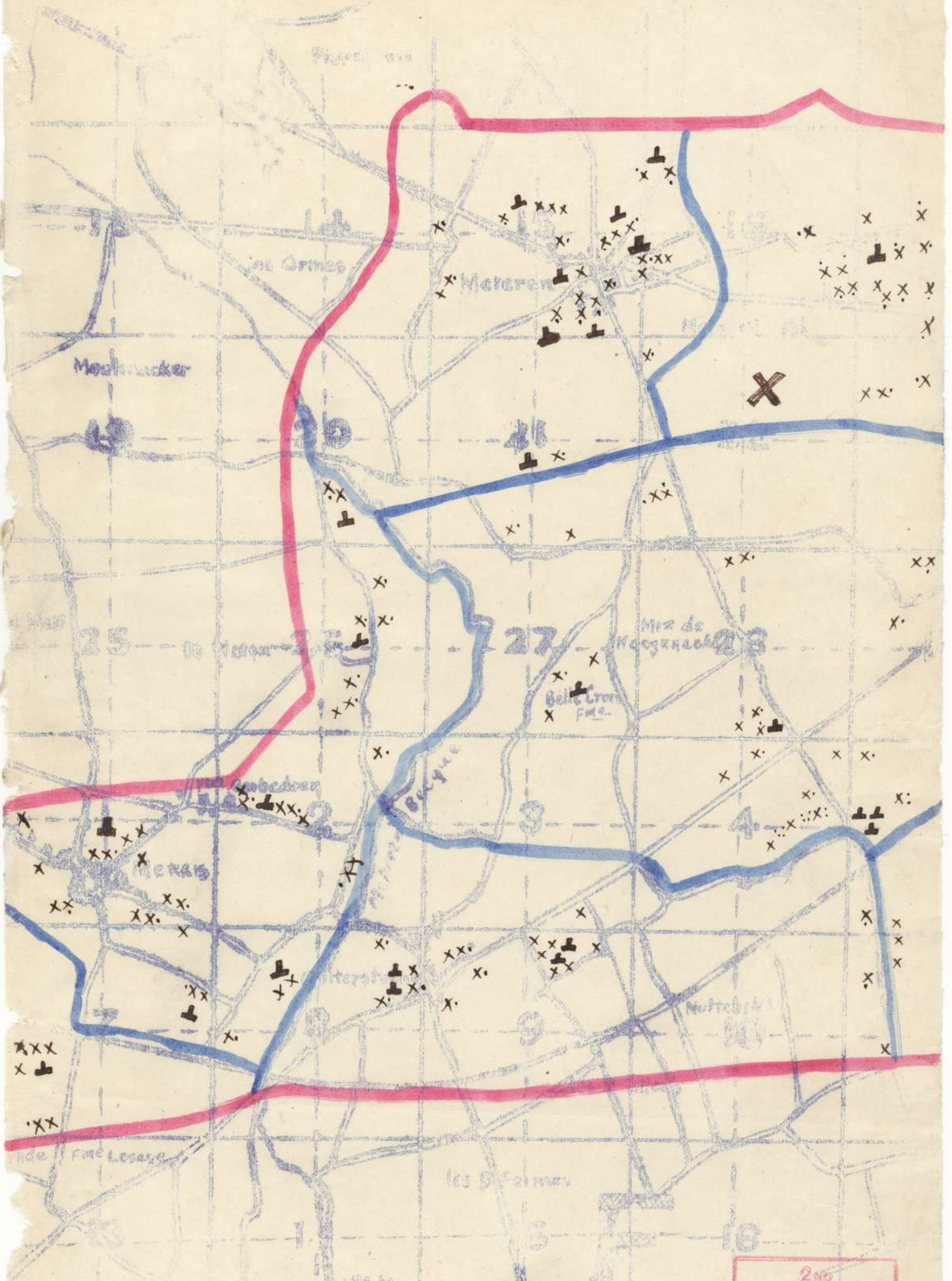
SITUATION	NUMBER OF											
	LATRINES DUG ROOFED AND SCREENED	SEATS ON COMPLETED LATRINES	URINALS ERECTED	LATRINES PITS DUG OR IN COURSE OF DIGGING	URINE PITS DUG OR IN COURSE OF DIGGING	INCINERATORS ERECTED	REFUSE HUMPS DUG	GREASE TRAPS AND SOAKAGE PITS CONSTRUCTED	Billets Inspected	Billets DISINFECTED	Notices Erected	WATER CARTS INSPECTED.
Neuve Eglise	3	16	-	3	-	-	1	-				
Bailleul	2	10	5	-	-	4	-	9				
Meteren	19	44	12	-	-	-	-	4				
Merris	9	18	5	-	-	2	-	4				
Ottersteene	2	6	2	-	-	2	-	4				
Clapbanc	4	14	1	-	-	1	-	-				
Belle-Croix	4	14	1	-	-	1	-	-				
Steintje	-	-	-	-	-	1	-	-				
Noote Broom	-	-	-	-	-	-	-	-				
Sec Bois	4	9	-	3	-	-	-	-				
Total	43	117	25	6	-	10	1	17	24	68	81	

Routine inspection of all billets in sanitary area carried out. Several disinfection by billets where necessary. Special disinfection of 24 huts & billets after infectious disease for purposes of cleanliness. Dirty eight notices were erected on wells throughout the sanitary area. 81 Water carts were inspected during month. Four were found to be unchlorinated.



Reference.
 x Latrine
 • Urinal
 ▣ Incinerator.

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 AUSTRALIAN
 SANITARY SECTION.
 No.
 Date 28/2/18

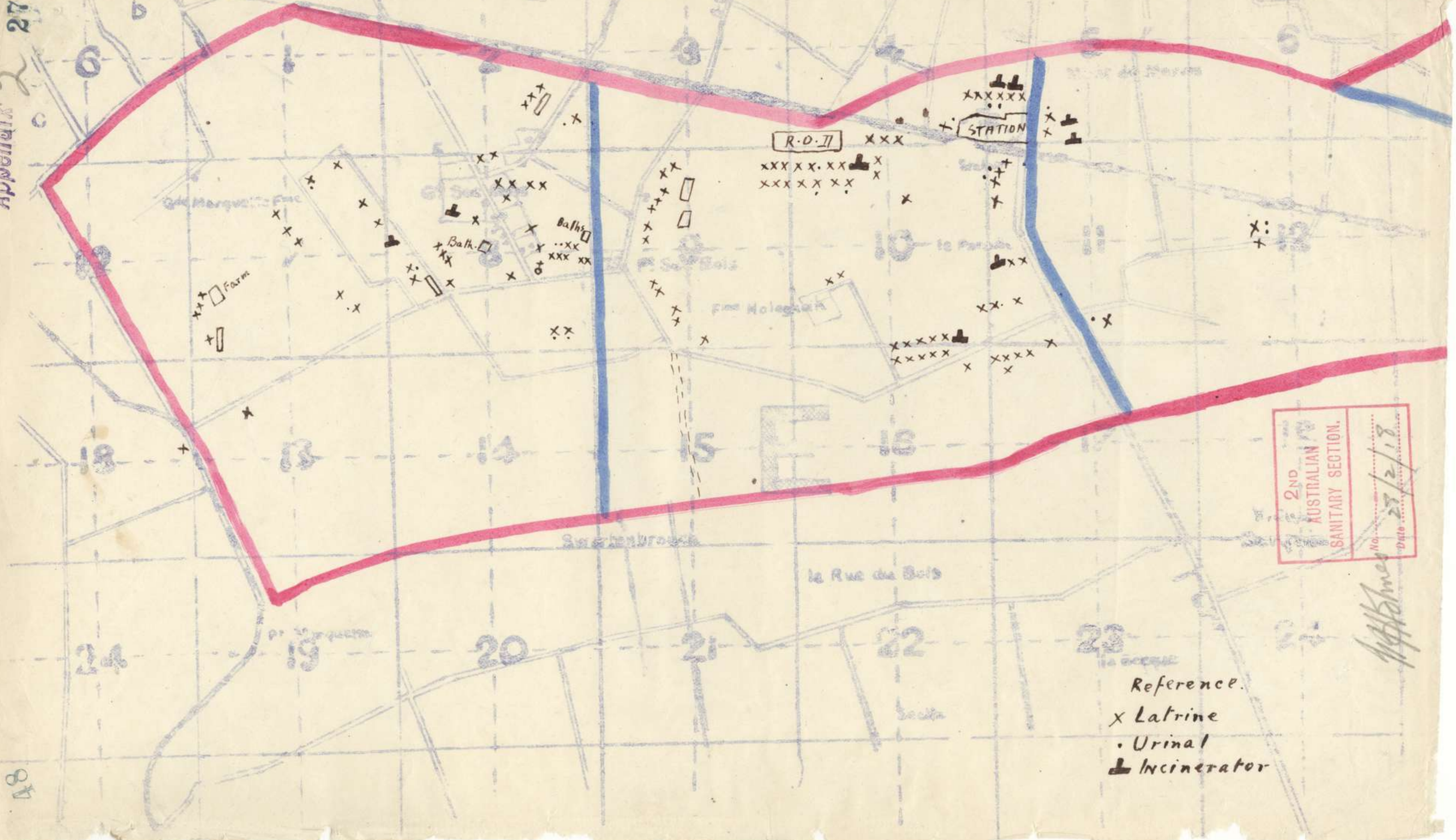


Reference
 x Latrine
 • Urinal
 + Incinerator.

2ND
 AUSTRALIAN
 SANITARY SECTION.
 No.
 Date 28/2/18

Holmes

Appendix 27



2ND AUSTRALIAN
SANITARY SECTION.
No. 27/2/18
Date

Reference.
x Latrine
• Urinal
▣ Incinerator

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