### AWM4

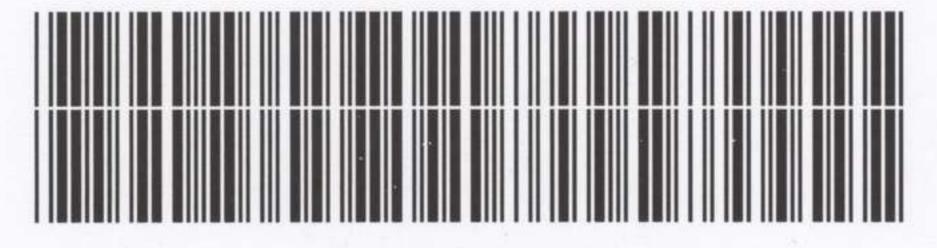
# Australian Imperial Force unit war diaries, 1914-18 War

Medical, Dental & Nursing

Item number: 26/80/14

Title: 5th Australian Sanitary Section

September 1918



AWM4-26/80/14

R.20,000-5/18-11069.

# CONFIDENTIAL.

ORIGINAL.
DUPLICATE.
TRIPLICATE.

Australian Imperial Force.

# WAR DIARY

OF

5th Australian Sanitary Section.

FOR

September.

1918

Signature of Officer compiling

arkunghward

Captain.

Signature of Officer Commanding.

arotungtoward

Captain.

AUSTRALIAN WAR MEMORIAL RCDIG1015632

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#### WAR DIARY

or

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.

			CI THE COLUMN CANADA		Remarks and
Place	Date	Hour	SEPTEMBER.	Summary of Events and Information	Appendices
aours	lst		Weather Stormy. Chines Railway Station at Corl	se labour being employed for cleaning of Daours. German prisoners for bie.	My.
	2nd 3rd		Fine and Warm. Civilia D.D.M.S. Sanitary Insti	ans returning to Corbie and Daours. General inspections etc proceeding ructions No 2 received adding the Hamelet and Aubigny and Glisy areas ub-section made at Fouilloy. Preperations made to move to Corbie.	Mil
orbie.	4th 5th		Number of men sent to ( Finne Day. Unit moved	Corbie to prepare and clean billet for the unit.  to Billet 16 Place de la Republique Corbie. Sub-section stationed at ea Commandants of Fouilloy and Hamelet areas interviewed, and various	/
			recommendations made.		
	6th 7th		Fine and warm. 2 0.Rs	tions of large number of billets in Corbie.  proceeded on leave to Paris. (-Gp- S/Sergt Melville and L/Cpl Liersch)  n withdrawn from Blagny Tronville. Cpl Thomas apptd L/Sergt.	Mint
	8th		hot and windy. Wire re	eceived from D.D.M.S. Aust Corps re removal to forward area, stating to ions recalled from Daours, Blagny Tronville, Fouilloy and Mamelet. 1	M.
	9th		Raining. Sergt and 2 m D.D.M.S. Australian Con	men 23rd Sanitary Section arrive to take over. Instructions Sanitary rps for this Unit to take over the right Divisional area of Aust Corps	
			for Unit at St Cren (S)	eceived postponing move for twenty-four hours. Accommodation arranged heet 62 c. P.27.a.4.4.). In passing through Peronne a german document the testing of water by the germans. This, with translation is appended.	A
	+:		water unless it is lab	tement made in the last diary that the German regards all water as bad elled good. The method of testing water is very sound. They have no onds to our Morrocks Water Test Case, apparently. The German method	
			gives a much more thore Test case, which if tal	ough idea of the value of water than can be gained from the Morrocks ken by its results as a comparitive test of the dangerous qualities of	
			quantitive idea of the	not be relied on. The Horrocks test case gives a qu- comparitive amount of organic water matter in any given waters, and water chlorinated s test will be sterilised. The Germans apparently do not make use of any	
			noticed that a-large gr	and rely mainly for sterilisation on boiling. In their test it is reat importance is paid to the inspection of the source of water, and at are passed on inspection that further tests are carried out. Their	- 2/2
			idea of a "List of Wel: an Area Commandant who	ls" is also very sound. This list of wells is evidently in the charge of is permanently in the area, so that all wells tested are recorded and	The same
			any further bests in this checked, evidently,	he meantime are noted, and the information is always available. This by the O.C. of an Ambulance(?-)in the area. In our system such a list	7

Army Form C. 2118.

Summaries ar	e contained f Manual re	Var Diaries and Intelligence ined in F. S. Regs., Part II. al respectively. Title pages manuscript.  INTELLIGENCE SUMMARY.  (Erase heading not required.)	280
Place Da	te Hour	Hour SMPTIMBER Summary of Events and Information	Remarks and references to Appendices
10	oth tth	(continued). of wells is not so kept. This Unit has attempted to put this on a more satisfact footing some time ago, by adepting making out a comprehensive pro-forma for the wells tested, in any village that the unit took over the wells were systematically tested, a copy of the results, with re marks on each well was forwarded to the D.D.M.S. to be forwarded to the results, with re marks on each well was forwarded to the D.D.M.S. to be forwarded to the Corps Water Supply Officer, and a copy filed. This copy was handed over to any Sanitary Section that took over the Area, and a copy filed. This copy was handed over to any Sanitary Section that took over the Area, and a copy filed. This copy was handed over to any Sanitary Section that took over the Area, the pro-forma was adopted by the Corps as the pro-forma to be adopted by all Sanitary Sections in the corps and is fairly complete, though I think that the Remarks column could be widened to allow effor remarks re Bact, and Chan exam of any of the wells to be addedor else reference numbers could be added. This unit on taking over an area from any sanitary sect has never received a proper or anything like complete statement of the wells, etc in the area that has been taken over, and has always had to commence all over again to find out for itself and draw up these statements. Were the german method of a list of wells adopted this would be obviated, and Water Supply Officers would have little difficulty in establishing water points in any anda. Further wells could be easily obecade from time to time and one would be able to have the past history of any water at his disjosal.  Showery with cold wind. Sergt and party proceed to St Cren to prepare camp site at new camp. Unable to obtain lorry to move the rest of Unit.  Raining. Rest of Unit less O.C. Orderly Room, Stores and few mwn proceed to St Cren. 23rd Sanitary Section take over area. In reference to the work done in the Dacurs and Corbie areas At times as many as 100 men were employed in Corbie. In both are	multher him in how have the

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#### INTELLIGENCE SUMMARY.

(Erase heading not required.)

Place	Date	Hour	SMPTEMBER. Summary of Events and Information	Remarks and references to Appendices
St Cren 62c. P.27. c.4.4.	13th 14th		Mospital. L/Cpl Liersch promoted Temp Cpl vice Thomas. Unit in billet shelters-bil tents exin location of old german battery position. Cleaning up and completion of the camp. 2 hostile night bombing machines brought down in flatine. Some shelling of area slightly forward of campUn Inspection and water testing commenced. Change of area, lower portion of the area handed over to Sanitary Section attach	to to, ames.
	15th		Instructions received that application for transfer of Major Coppleson from this Unit-te-the and to be transferred to the 8th Feild Ambulance.vice Capt Howard. Capt Howard to take over command of 5th Sanitary Section. (Authority D.A.G.A.I.F. )  Fine. Capt Howard reported. Instructions received from D.D.M.S. that 1 O.R. to proceed from	Anna
			this Unit to the 1st Aust Sanitary Section, Cash and Balance Sheets of Canteen made out on change of command and cash statement of Regimental Funds (Balance£126-13-2) Copies of that attached.	
	17th		Mistory of Unit completed as far as possible and forwarded under seperate cover. The former portion of this history is fairly incomplete, but I am making arrangements that as much be s in as possible by men who were in the Unit at the time. The second part of this history has not dealt with work done by the unit as with more a record of the unit itself, which I hope have added to it the accounts of seferal of the men, as the record of the work done will be found in the Monthly war diaries, the monthly reports and the unit records and correspondence which is forwarded from time to time to the War Records Section for safe keeping. That his is not quite as satisfactory as I would have liked as it has been done very hurriedly.  Major Coppleson reports to A.D.M.S. 5th Aust Div., and to C.O. 8th Feild Amb, but remains with the Unit until completeion of handing over	to WWW.
	18th		Capt Moward assumes command. O.C. inspected Baths at Mancourt. Recommendations re establishme of Baths at this site, which had formerly been used for this purpose, were sent to Corps Baths Sundry bombs fell close to camp site. Two enemy night bombing planes brought down. On mornin 18th advance on 3rd & 4th Army fronts, advance being greatest on Australian Corps front.  Area was thus increased.	Officer
	19th 20th 21st		Fine with high wind. Inspection and Water testing in advanced area carried out Stormy.  Subsection moved to Bernies(sheet 62c Q4c6.6.) in charge of Sgt Thompson. Workshops erected Meadquarters from salved material.	at At
			D. D. & L., London, E.C. (A8504) Wt W1771/M2031 750,000 5/17 Sch. 52 Forms/C2118/14	THE PARTY OF THE P

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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.

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will be I	prepared 1	n manus	script.	
Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
iencourt.	Sept. 22nd 23rd 24th 25th		Cricket match had been arranged but was abandoned on account of rain.  Fine, with cold wind. No.868 Pte Ashwood N. left to join Australian Furlough Party.  Fine. D.D.M.S. Sanitary Instructions No.6. received, alloting to this Unit the Naut Allaines and "B" Divisional Areas. O.C. inspected new area and found it being administered by No.8 48 and 59 Sanitary Sections. 2 O/Ranks transferred to 2nd Sanitary Section from surplus. Subsection recalled to Readquarters.  Raining and cold. New location chosen at Driencourt. (sheet 62c J3d3.4.) and holding party was sent to this position. Efforts were made without success to secure transport for the move.	Supporting to
	26th		Readquarters moved to new location and camp site prepared. Small party left at St Cren in charge of some of Units stores. 0'8 C. 48 and 59 Sanitary Sections were interviewed, and under instruction from 3rd Corps were staying in the Area. To avoid overlapping of work the following arrangements were entered into. (1) Where 59th Sanitary Section area overlapped this Units,59th to be responsible for constructional work, this Unit for inspectional work. (2) Where 48th Sanitary Section area overlaps, 5th Australian Sanitary Section will pay special attention to sanitation of Australian Corps Troops, also all public constructional work in Driencourt. The existence of this duality of control is however, most unsatisfactory to both parties. The above Arrangements were made to prevent unnecessary overlapping of work, and unpleasantness created for Units in having two separate sanitary inspectors inspecting their camps and issuing recommendations. At the same time, as the area is an Australian Corps Area, O. C. 5th Sanitary Section reserved the right to have a general oversight of the area, and to interfere in sanitary matters if it was considered necessary Subsection under Sgt Thompson moved to near Villers Fancon (M22.). One inspector was sent to Mattalianes and billeted with Area Commandant. His duty was to inspect Faut Allaines and vicinity and stores moved to new location.	ty
	28tl 29th-3		Rainingmand cold. Arrangements were made with Area Commandant maut Allaines that party be detailed for construction of sanitary conveniences in, and general cleaning of, Driencourt.	d.
			O.C. 5th Australian Sanitary Section	
	1		A7092 Wt. W128 9/M1293 750,000. 1/17. D. D. & J. Ltd. Forms/C2118/14.	1

OF

5th Australian Sanitary Section.

FOR

September. 1918. 191

# LIST OF APPENDICES.

No.

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I "C"

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A HELL

Hell

Subject.

Monthly Report.

Routine Orders of Unit.

Map of St Cren area.

Map of Maut Allaines and "B" Divisional area

Translation of German document re water.

D. M. S. 4th Army Circular and plan of Disinfestor.

Triplicate copy of July War Diary.

O.C.5th Australian Sanitary Section.

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Arons.

---- From 27-6-18 to 5-9-18 Unit was at Daours. Cleaning up of Dacurs and surrounding villages was proceeding, Chinese labour being employed under supervision of this Units Inspectors. On 2-9-18 Equelet, Aubigney, and Glisy areas were added(D.D.M.S. Sanitary Instructions No.2.) and m sub-sections made at Foullier and Hamelet. On 5-9-18 Unit moved to Corbie. Inspection of billets in Corbie proceeding. On 8-9-18 warning wire was received from D.D.W.S. Australian Corps re move to forward area Sub-sections were accordingly recalled from Daours, Blangy-Tronville, Fouilloy and Ramolet. On 9-9-18 Sergeant and two men from 23rd Sanitary Section arrived to take over the billets, and this Unit received instruct -ions to take over Right Divisional Area. A later wire postponed the move for 24 hours. On the 10th advance party proceeded to St Cren(Sheet 62c P27 a 4.4.) Readquarters were moved to this location on 18th, Unit being accompdated in tents and shelters in old German battery position. Inspections and Tator Testing in new area were commenced. On lith area was slightly changed, lower portion being handed over to Sanitary Section attached to 9th Corps. On 16th, I reported from 8th Foeld Ambulance to take command vice Major Coppleson transferred to 5th Field Ambulance. Major Coppleson handed over command of the Section to me on the 18th. During the intervening period he prepared and handed over Cash and Balance Sheets of Canteen and Regimental Funds, and did all in his power to assist me in getting in touch with work in hand, etc. Perhaps it would not be out of place here to acknowledge my indebtedness to Major Coppleson . for the assistance given me in every possible way in taking over command of this Unit. On the 18th I inspected siteof Baths at Rancourt, (013d8.9.) then being n used by 4th Australian Pivision. Report on these was made to Corps Baths

Officer, and recommendations made re establishment of Baths at this site, and installation of Disinfestors. On morning of 18th, forward area was automatically extended by operations on 3rd and 4th Army fronts, and on 19th inspection of this extended area was commenced. Sub-section was mov ed to Bernies (sheet 620 0405.8.). Workshop was erected at Readquarters from material salved in vicinity. On 25th, Sanitary Instructions Bo. 6. were received, allotting to this Unit the Maut Allaines and "B" Divisiona Areas. New location was chosen at Driencourt (sheet 62e J3d J. 6.), and holding party proceeded to this site on 25th. C's C. 59th and 48th Sanitary Sections were interviewed re the take over.

Joneral.

----- Sanitation. The work of the Inspectors in the Right Divisional Area (St Cren) has been in some ways a rather thankless task. It was found very difficult to induce Units to undertake any constructional sanitary work, owing to the fact that in the majority of cases, units were only located in a camp site for a matter of 2 or 3 days, or less. Cases of defective sanitary arrangements have invariably been reported by inspectors, and wherever possible , recommendations-mostly in writing- have been made from this Office. Owing to the fact that the area was taken on over from the enemy, large accumulations of mamure and filth of all kind was found, and flies were numerous. There were also quite a number of dead horses and mules in the area. In standing camps the manure has now been dealt with, but there are still quite a number of uncocupied and staging camps where it has been found impossible to effectively deal with this problem, owing to the non-existence of an Area Commandant or or other responsible authority to provide the necessary labour. Arrangements for the burial of dead horses by the nearest unit have been made wherever their presence has been reported by our Inspectors. Latrines.. The area is now fairly provided with flyproof latrines. Owing to the mobile nature of this unit of late, and consequent inability to secure materdal, very little constructional work has been done by this unit. Latrine seats, therefore, could not be supplied to units, and inspectors have been instructed to advise units to make their own latrines wherever possible, failing that, indents have been submitted through the usual channels. water. Supply is mainly from wells, usually deep. A number of old water mater points exist in the area, some of which could be re-established

by the Engineers without much difficulty. Most wells are at present

have been tested and 15 water notices creeted in this area.

worked by windlass, a few being fitted with ordinary pumps. Recommendat-

ion was forwarded to C.R.M. 46th Division re wells at Vraignes. 16 wells

(8) wenerale. Gontd.. rlies. Flies were very numerous but are now decreasing in numbers, owing largely to measures taken to obliterate their breeding grounds Inspectors have advocated the use of Formalin fly-traps and eresol sprays, with good results. Food and Cooking. General condition, fair. answer showard Captain. 0.C.Sth Australian Sanitary Section ... 25-9-18. Бтн SANITARY SECTION.

ROUTINE ORDERS.

B8.

Cappain A.J. Howard

O.C. Sth Australian Sanitary Section.

27-9-18.

ANY TIPS NOT NOT ONE WAS YOUR TIPS THE SAIR YOU GIVE NOW YOU HAVE NOT THE SAIR YOU WAS

B.

138. L6ave-Entry on Warrants. (S.A. 0. 4991)

Attention was drawn in e.R.O. 4395, dated 29th June, 1918, and on several previous occasions to the necessity of showing on leave warrants the date of last leave or the date of last leave or the date of last embarkation from the United Kingdom.

Warrants are still being issued without this information being given. All ranks are warned that in future anyone who is found attempting to embark with a warrant which is incomplete as regards all particulars will be detained at the Port of Embarkation, and if the information necessary to complete the form cannot, be readily obtained the holder of the warrant will be returned to his unit. All ranks should earefully examine their warrants before leaving their Units, and bring to the notice of the Officer issueing them any ommisions or errors.

139. Innoculation-Australian Military Force Regulation 493a is published for

(1) Any member of the permanent forces while on war service may be required to undergo such Medical and Dental treatment as may be deemed necessary by a Medical Officer to cure or to remove or to prevent or reduce the likelihood of any disease or infirmity which affects or is likely to affect the efficiency of such member in the carrying out of his duties.

(2). For the purpose of sub-regulation(1) of this regulation, medical treatment shall include vaccination and innoculation, and dental treatment shall include the extraction and filling of teeth.

(Extract from A.I.F. Orders 1369 of Idth September.)
140. Special Payment--Christmas Gifts-..(A.I.F. Orders 1378.)

approval is given for members of the maustralian Imperial Force who so desire, and who have sufficient credit in their pay-books, to draw amounts of pay not exceeding a total of Five Founds (£5) in excess of the prescribed scales for pay issue, for the purpose of purchasing Christmas gifts.

141. Kmas and New Year Cards. (5.2.0.5033)

Attention is called to the fact that Imas and New Year Cards must conform to the Censorship Orders. In particular, nothing which would assist the Inemat Intelligence to find out our Order of sattle must appear either in the letterpress or in the illustration, and distinguishing signs of units and formations must not be shown.

Ho reference must be made to any recent military events or the participation on in them by units and formations which has not been referred to in the Official Press Communiques or the despatches of the Commander in Chief In cases of doubt, sketches or proofs of proposed cards should be submitted to D.C.F.C., S.M. ...

#### Struck off Strength.

16-9-18. Pto Mutchison.C.A. transferred to 1st Sanitary Section. 25-9-18. Pto Gray. C. " 2nd " 2nd " 2nd " 2nd " 25-9-18. Pto Clarko. W. " 2nd "

37-9-18. Pto Ashwood. H. returned to Australia on furlough.

# Administration - Change in Command.

18-0-18. Captain Moward. A.J. from 8th Mield Ambulance, vice Hajor Coppleson V. L. transferred to 8th Field Ambulance. Authority, D. A.S., A. I.F. 148/01/198

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27-9-18.

O.G. 5th Australian Sanitary Section ....

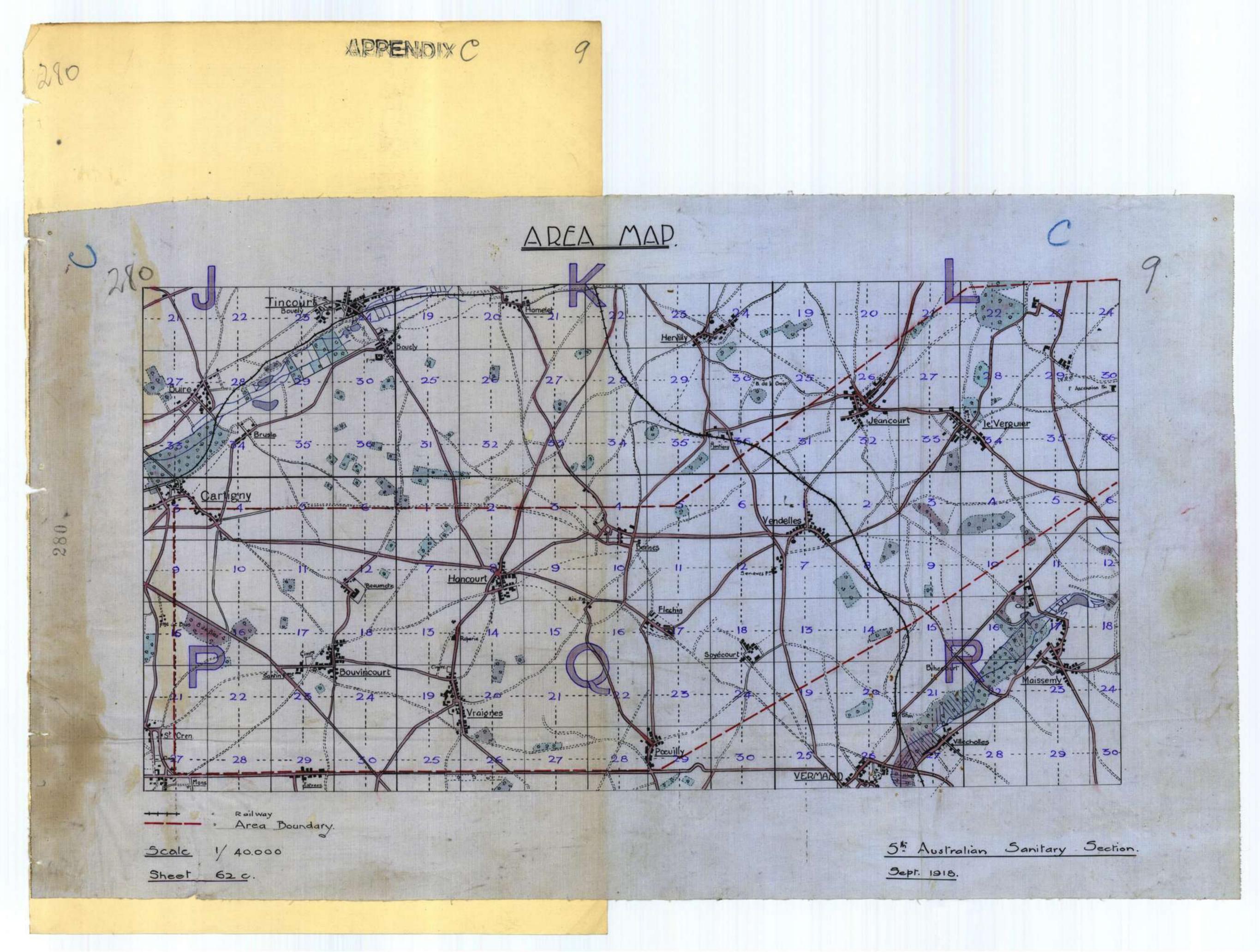
AUSTRALIAN WAR MEMORIAL

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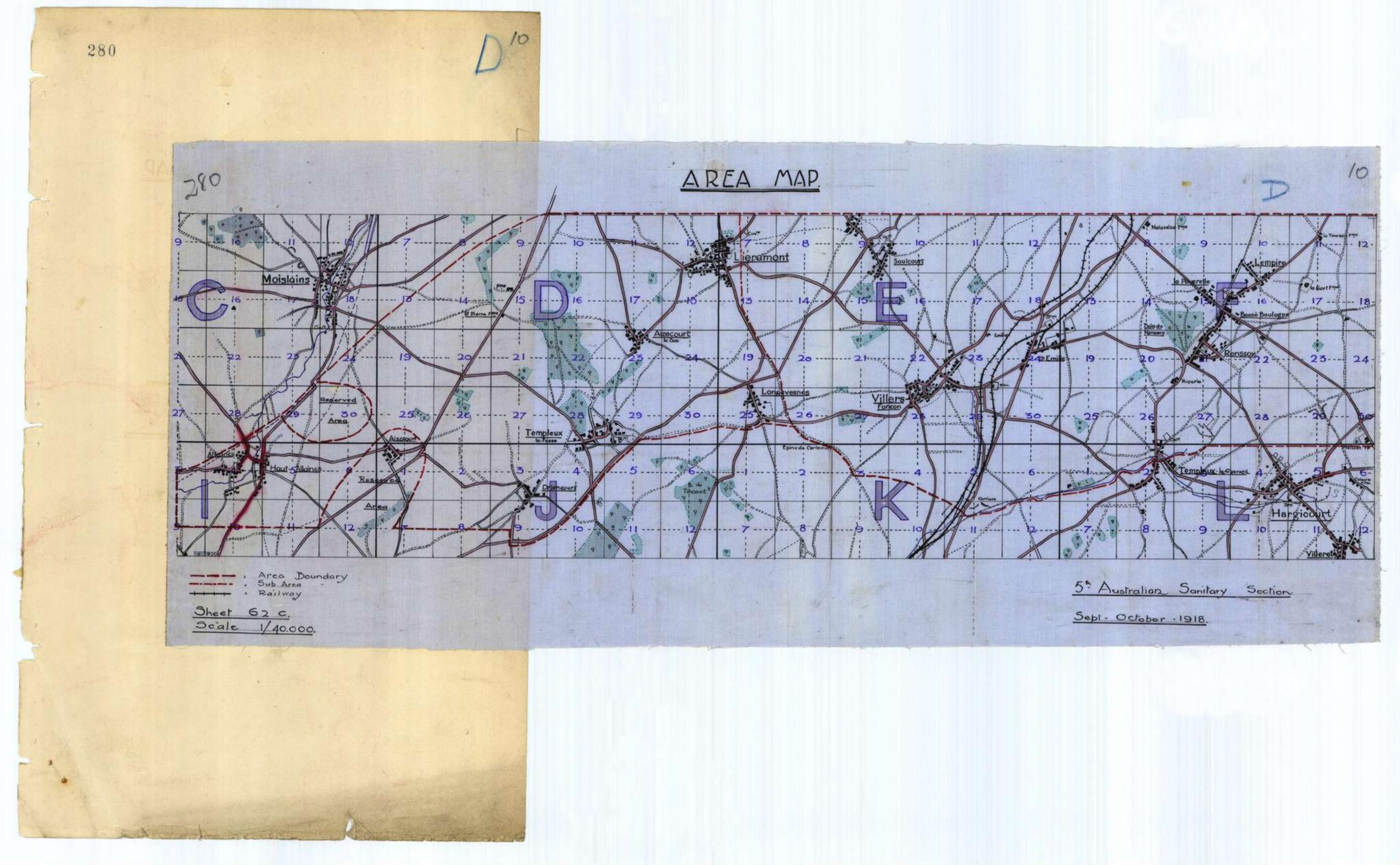
5TH

AUSTRALIAN

SANITARY SECTION.



AUSTRALIAN WAR MEMORIAL RCDIG1015632



AUSTRALIAN WAR MEMORIAL RCDIG1015632

# Beratender Hygieniker 2, Nr. 2954.

Бтн AUSTRALIAN

Betr.: Brunnenhygiene.

1. Grundsaetze für die Brunnenbeurteilung.

Hierzu Kriegs-Sanitaetsordnung Abschnitt E, Teil III.

a) Zur Beurteilung eines Brunnens ist die eingehende Besichtigung durch den zustaendigen Arzt erforderlich.

Zunaechst wird für die Brunnenl ste vermerkt: Art des Brunnens - (gedeckter oder ungedeckter Schachtbrunnen mit oder ohne Pumpe, Roehrenbrunnen, Zisternenbrunnen usw.)--, Lage des Brunnens — bei Dorfbrunnen Strasse und Hausnummer. — Wenn moeglich: Brunnentiefe, Wasserstand. Eine Wasserprobe wird auf Aussehen, Geruch und Geschmack geprüft und das Ergebnis in die Brunnenliste eingetragen. (Physikalische Wasser-Untersuchung.)

Weiter ist auf Folgendes zu achten:

- b) Der Brunnen muss vor aeusserer Verunreinigung geschützt sein: erhoehter, eine Ueberflutung verhindernder, schützender Schachtrand; vollstaendig dichte Schachtdekkung. Schachtwaende ohne Schmutzstreifen, Erkennungszeichen verborgener unreiner Zuflüsse! Bei Roehrenbrunnen ist Schutz des Saugrohres sowie des Bohrrohres vor aeusserer Verunreinigung erforderlich. Geregelter Wasserabfluss, erhoehte Lage des Brunnens, gute Wasserrinne. Einwandfreie Umgebung - (keine Jauchegrube, Müllablagerungsstaette, Latrinenanlage in naechster Naehe!) — Kurzer Eintrag über diese Punkte in die Brunnenliste.
- c) Ist der Brunnen bei dieser Besichtigung als schlecht befunden worden, so darf sein Wasser hoechstens abgekocht genossen werden. Eine bakteriologische und chemische Untersuchung ist in diesem Falle zwecklos und zu unterlassen.
- d) Ist ein Brunnen bei der Ortsbesichtigung als gut befunden worden, so wird chemische und evtl. auch bakteriologische Prüfung als letzte Prüfung vorgenommen. Die chemische Untersuchung führt die chemische Untersuchungsstelle 2 aus. 1 Liter einsenden. Wegen der bakteriologischen Untersuchungen siehe Ziff. 4. Wird das Wasser chemisch beanstandet oder finden sich reichlich Kolibazillen vor, so ist es zunaechst nur abgekocht zu geniessen und die Prüfung nach laengerem Abpumpen zu wiederholen. Zur weiteren Beurteilung ist evtl. der beratender Hygieniker hinzuzuziehen. — Eintrag der Untersuchungsergebnisse in die Brunnenliste.
- e) Ist ein Brunnen neu errichtet, oder ein vorh indener Brunnen verbessert worden, so muss, ehe das Wasser zu Trinkzwecken freigegeben wird, eine chemische und bakteriologische Prüfung vergenommen werden, um etwaige Verunreinigungen beim Bau oder verborgene Schmutzzuflüsse festzustellen. Vor der Wasserentnahme sind solche Brunnen an mehreren Tagen einige Stunden lang abzupumpen. Beurteilung des Ergebnisses wie unter Absatz d.
- f) Ueber jeden Brunnen wird das Urteil des Arztes hinsichtlich der Verwendbarkeit des Wassers zu Trinkzwecken in die Ortsbrunnenliste eingetragen, Datum der Prüfung und Namen des Beurteilenden beigefügt.

2. Behandlung der Brunnen.

- a) Jede Wasserentnahmestelle erhaelt nach abgeschlossener Beurteilung ein Schild «Trinkwasser» oder «Kein Trinkwasser». Ist ein guter Brunnen in einem Anwesen festgestellt, so wird an der Strassenfront des Gehoeftes ein entsprechendes Schild angebracht, oder besser noch in der Nache der Haustüre in haltbarer Schrift auf der Mauer vermerkt : «Hier gutes Trinkwasser!» Auch auf gute Feldbrunnen ist im Gelaende durch Wegweiser «Trinkwasser» hinzuweisen.
- b) Die Truppen müssen belehrt werden, dass lediglich Wasser von Brunnen mit der Bezeichnung «Trinkwasser» ungekocht genossen und zum Waschen der Essgeschirre verwendet werden darf.
- c) Die Schoepfeimer der Ziehbrunnen, welche als Trinkwasserbrunnen freigegeben sind, müssen an der Foerderkette angeschmiedet sein und sollen durch besonderen Anstrich kenntlich gemacht werden. Ihre Wegnahme ist, ebenso wie die Verunreinigung von Brunnenschaechten, durch Ortskommandanturbefehl streng zu verbieten. Eine Aufhaengevorrichtung für den Eimer ist an jedem Brunnen erforderlich, ferner ein Baenkchen zum Aufsetzen des Eimers.
- d) Brunnen mit Maengeln sind zu verbessern. Für einfache Reparaturen, wie z. B. das Aufmauern und Zementieren von erhoehten Schachtraendern, oder das Dichten von Schacht-Deckungen, oder Herrichten von guten Abflussrinnen bei den Brunnen usw., sind Handwerker der betr. Unterkunft von der Ortskommandantur durch den Kommandanturarzt anzufordern.
- e) Unbenutzte Brunnenkessel sind zu vernageln oder sonst zu verschliessen, um ihre missbraeuchliche Verwendung als Müllgruben usw. zu verhindern.

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3. Laufende Ueberwachung der Wasserentnahmestellen.

Alle Trink-Wasserentnahmestellen sind monatlich ein mal vom zustaendigen Arzt zu besichtigen, etwaige Missstaende sind abzustellen. Besondere Beobachtungen und Brunnenveraenderungen werden in die über jeden Ort zu führenden Brunnenliste eingetragen. — Die Kriegslazarett-Direktoren überwachen die Führung der Brunnenlisten und fordern sie von Zeit zu Zeit dazu ein. Eine zweite Ausfertigung jeder Brunnenliste befindet sich beim beratenden Hygieniker.

4. Bakteriologische Wasseruntersuchungen.

Beschleunigter Transport der Proben ins Bakteriologische Laboratorium durch Radfahrer oder als Feldpostsendung («Eilige Heeressache»).

Verfahren im Einzelnen.

a) Die zur Wasseruntersuchung bestimmten Flaschen sind mit einem Bausch entfetteter Watte zu verschliessen; darüber ist eine zweifache Lage entfetteten Mulls zuzubinden. Sie werden danach eine Stunde lang im stroemenden Dampf sterilisiert (Feldsterilisiergeraet).

Die zugehoerigen Korke bezw. Glasstoepsel sind kurz vor der Benutzung 1/4 Stunde lang

auszukochen, danach in 1 0/00 Sublimatloesung zu legen.

b) Entnahme von Wasserproben.

Kurz vor der Wasserentnahme den Mull entfernen. Watte etwas abbrennen. Beim Füllen ist das Berühren des Flaschenhalses und Eintauchen der Finger in das zu untersuchende Wasser zu vermeiden.

Sobald die Flasche etwa zur Haelfte mit Wasser gefüllt ist, wird der nach obiger Vorschrift behandelte Kork bezw. Gummi- oder Glasstoepsel, nachdem die anhaftende Sublimatloesung mit Wasser des zu untersuchenden Brunnens abgespült ist, aufgesetzt, und zum Schluss wieder steriler Mull über den Korken pp. gebunden.

c) Sofortige Bezeichnung der Flaschen, auf Begieitschreiben: Tag der Entnahme, Art des Brun-

nens. Untersuchung auf Kolibazillen erbitten. Absendende Dienststelle angeben.

Flaschen für bakteriologische Wasseruntersuchungen sind von den Feldapotheken der Sanitaetsformationen zu beziehen, welche sie vorraetig zu halten haben. Die Typhus- und Cholera-Impfstoff-Flaschen mit Gummi- oder Glasstoepsel sind hierfür besonders geeignet.

Für die Richtigkeit:

Altgelt Generaloberarzi. Kayser Stabsarzt

stelly, beratender Hygieniker 2

An die Kriegslazarettdirektoren, Kommandanturaerzte u. Ortsaerzte

Nr. 11152. Armee-Druckerel 2. 300.

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1. Regulations for testing of wells.

Supplement to Army Sanitary Orders. Section E. Part 3.

a) A thorough examination by the local Medical Officer is necessary for an opinion on a well.

Firstly is noted for the "list of wells": sort of well(covered or uncovered shaft with or without pumps, artesian well, cistern well and so forth). Position of well-in case of a village well- street and number ofhouse. If possible depth ofwell- level of water. A water test is to be carried out by the appearance, smell and taste of the water and the result entered in the list of wells (Physical Water Examination). Further the following are to be taken into account.

b). The well must be protected from external pollution- raised protecting bri for shaft to prevent overflow. Adequate strong covering for shaft: shaft well without stains(steins?) which(?) are signs of hidden pollution: notice to be t taken of hidden influx of pollution: in the case of artesian wells protection must be provided against external pollution of the feed pipes, as well as the bore pipes: regulated provision for carrying off surplus water: raised position of well: good water channel: the surrounding ground free from objectional places: no sump holes, no refuse and latrine locations in the vicinity (short entry on these points in the List of Wells).

c) If the well on examination is found to contain unfit water, the water must only be used after being boiled. A bacterioligical and chemical analysis is

in this case useless and to be dispensed with.

d) If the water in a well is found on local examination to be good, a chemical and eventually also a bacterioligical examination as a final test will be taken. in hand. The Chemical Laboratory is to be executed by Chemical Laboratory No 2. Send in one litre. With reference to bacterioligical examination see para 4.

Should the water be chemically contaminated or should numerous bacilli be found, it must be boiled and the test repeated after continued pumping. For further opinion the advising Sanitary Expert is to be consulted. Particular

ars of the analysis is to be made in the list of wells.

e). If a well is newly erected or a previously existing well be improved, a chemical and bacterioligical examination of the water must take place before it is used for drinking purposes, so that any pollution caused by the building of the well or by hidden influx. Before water is taken out of these wells for drinking purposes, water must be pumped from the wells on several days, for several hours per day

f). The Meducal Officers opinion with reference to the employment of the water of a well for drinking purposes will be taken and entered in the local list of Wells together with date oftesting and name of examining Medical Officer.

2. Management of wells.

a) Every water Point from which water may be used will bear after examination of water is concluded, a notice "Drinking Water" or "Not fit for drinking"

If a good well exist in a place a corresponding notice will be fixed on the street, front of the house, or better still near the door of the house in large letters "Good drinking water here". Also in the open country good wells are to be indicated by an indicator thus "Good Drinking Water "

b) Troops must be instructed that only-wells-with-the water from wells with the notice "Drinking Water"may be consumed unboiled. It hay also be employed for the washing of eating utensils.

must

c) The buckets of the wells marked Drinking Water" must be forged to the ends of the chains and should be plainly marked for that use. It must be forbidden by the Area Commandants to take away or foul the buckets. An arrangement for the hanging of the buckets is necessary at every well and also a ledge is required on which to stand the buckets.

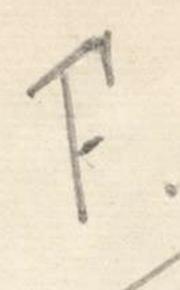
d). Wells which are faulty are to be improved. For simple repairs as for example the building and cementing of raised shaft brims or thickening the lids of well covers, or providing a raised channel for the carrying off of surplus water and so forth, trained men are to be demanded from the Town Major by the local Medical Officer. Unused well holes are to be nailed or closed up, so that they may be prevented from being used as refuse pits.

All drinking water points are to be inspected by the local Medical Officer once monthly. Everything out of order is to be dealt with. Special observations and alterations to the well will be entered in the local list of wells in each place. The directors of Feild Hospitals are to supervise the keeping of the List of Wells and for that purpose to call them in from time to time. A second copy of the list of wells will be found with the Sanitary Officer.

Prompt despatch of the samples to the Bacterioligical Laboratory by cyclist or D.R.L.S.

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(2). Detailed proceedings. a). The bottles to-be sent for analysis are to be closed with a pad of degree sed cotton wool(? \*\*\* substitute) over which must be bound a double layer of muslin; afterwards they must be sterilised for one hour in steam (Feild Sterilising Apparatus). The corks or glass stoppers must employed must be boiled for a quarter of an hour before use and dipped in a one per cent solution of Perchloride of Mercury solution. b) Shortly before takingthe water remove the muslin and slightly burn off the cotton wool (Watte). In filling the bottle one must avoid touching the neck of the bottle and dipping the ingers in the water to be tested. As soon as the b bottle is about half full of water the above mentionedeb cork or stopper afetr the sublimate solution has been washed off with water from that which is to be tested) must be inserted and bound with sterilised muslin. aA label must immediately be made out, describing the contents of the bottle, date of taking the sample and sbrt of well from which taken. A request is to be made for testing for Colon Group (Kolibazillen). Name of place of despatch to be given. Bottles for the Bact., examination of water may be had from the local Chemical Advisor, who has them in stock. Typhus or Cholera lymph flasks are particularly suitable for the purpose. Seen and approved Kayser Altgelt Staff Medical Officer. Surgeon General БТН AUSTRALIAN



D.m.S., Fourth Army No. 188/16.

ARMY ROUTINE ORDER NO. 2427 D/20/8/18.

#### LICE.

(a) One of the principal causes of sick wastage is Trench Fever. It has been proved that lice are the means of conveying this and other diseases, such as typhus and other important fevers affecting troops in the field. Disinfestation must therefore, be regarded as an essential measure of sanitation.

(b) Every endeavour must be made to provide means which will enable troops to disinfest all their clothing at any time when they are found to be lousy. The arrangements made must enable all the men occupying the same billet to be disinfested at the same time, so as to prevent those who have been disinfested from becoming reinfested

by contact with men who are still lousy.

(c) At a temperature of 600 Centigrade lice are killed in 4 minutes and their eggs in 20 minutes. The Russian pit, particulars of which, accompanied by plans, are given below, is an effective and simple method by which lice and eggs in clothing can be killed. Temperatures of 1000 Centigrade and over can be obtained in these pits.

(d) As material becomes available, one or more disinfesting

pits will be provided:-

i. At every bath-house in the Army Area.
ii. At the H.Q. of every medical unit.

ili. At the H.Q. of each Labour company.

iv. At schools; in Rest areas, and at Reinforcement, Prisoners of War and Field Punishment camps.

. By Area Commandants and Toon majors in each village used

for billeting troops.

(e) It should be the aim of every unit to have a disinfesting pit; the simplicity of its construction and the small amount of material and labour required should enable even the smallest unit to provide itself with one.

(f) Specimens of these pits may be seen at the H.Q. of Sanitary Sections, and advice as to their management can be obtained from the Os.C. these units, who will supervise the construction of pits made

within their areas.

(g) In addition to disinfesting clothing, it is essential that men infested with lice should have the hair of their heads and bodies clipped close, so as to get rid of the eggs which may be attached to the hairs.

(h) Periodical inspections of the men will be made to see that

these measures are carried out. (see S.O.877.)

#### DISINFESTING CHAMBER (RUSSIAN TYPE)

(i) The disinfestation is carried out by means of dry heat.
(j) A chamber is dug in the ground, 8 feet long, 6 feet wide, and 7 feet high.

(k) The site selected should be as dry as possible.

(1) Access to the chamber is by means of a doorway, about 2 feet wide and 7 feet high, at one end of the chamber.

(m) An approach to the entrance is cut in the ground, preferably

(n) The chamber is roofed in with woo

The chamber is roofed in with wooden beams and corrugated iron and covered with earth. The doorway is closed by a sheet of corrugated iron sliding vertically in grooves cut in the wall at the entrance of the chamber.

The heat is produced by means of a stove, composed of 2 oil drums placed horizontally on a stand in the chamber and fed from the outside, a separate approach being made for this purpose.

AUSTRALIAN
SANITARY SECTION.

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APPENDIX 2: Tubes of Naphthalene, with afixed melting point, have (p) been issued to the Os.C. Sanitary Sections. By means of these tubes the temperature reached within the chambers can be ascertained. During the process of disinfestation, the outer end of (q) the stove is left open. When the process has been completed, the fire is damped down by closing the door of the stove. The clothes to be disinfested are hing loosely from wires passing from side to side of the chamber. A temperature sufficient to kill lice can be obtained in from 15 to 30 minutes and clethes should be left in the chamber for at least 30 minutes after this heat has been obtained. -(t) Clothes should not be hung within 1 foot of the walls, which will always be cooler than the air contained in to evelue the the chamber. stanta ban swi As the flues choko very easily, they should be cleaned (u) every day. The whole of the work of construction, including digging, (v) can be completed by 4 men in one day. Attention is directed to D.G. .. S. Circular memo. No. 16 (W) dated 23rd. July, 1916 (S.S. 455) "Preventive heasures against lice." (x) The importance of regular baths, accompanied by a clean change of underclothing and the ironing of uniforms, cannot be emphasized too strongly. Increased bathing facilities should be established under Divisional arrangements, and should include facilities for ironing. Lairesam To Museria ablvors of the Jealless add mars alless blocks beginned track beof these of to .O.H one the make and ven atto esant to L.R. Tosswill may H.Q., Fourth Army, major-General, 21/9/18. D. m. S. AT G. T DANGE THE ES YOU TO DIT THE DIT THE DE THE SECTION DESCRIPTION To:-Labour Commandant (100 copies), D.Ds.w.S., Corps for distribution. ALL Army Units. (BUYE KAISSON) SELLAND DEFERRALD the distinction in the deprine of the contraction of the . obta don't S. mani Jas's B. homova ent mi gub at medarats A tept & succes, variable a in anaba go at geomete ent of anabas amountain and to hop east dealth dealt T free about to anomenan te the etherness is our in the the drough meniors of -vewgood edf of swot exects diffe The chamber has been named delice of the na become at recommon end A THE DESCRIPTION OF THE SECOND SECTION OF THE COURSE OF THE PARTY OF der severage of the contract and the contract because to consta the the wall as acceptance one that like with the I to 8 To bearings arrive a to present of processor of took and the recently off in builds a se villadistation because many not eben to ten demonstra adequates a entadire est ment bet . Sections, next

