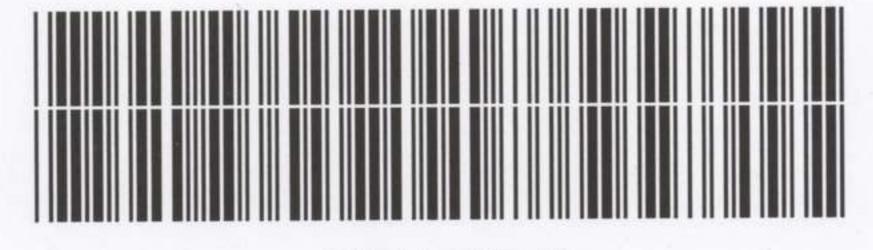
AWM4 Australian Imperial Force unit war diaries, 1914-18 War

Medical, Dental & Nursing

Item number: 26/77/9

Title: 2nd Australian Sanitary Section

December 1916



AWM4-26/77/9

Vol. I.

Instructions regarding War Diaries and Intelligence

Summaries are contained in F. S. Regs., Part II.

and the Staff Manual respectively. Title Pages

WAL DIALL

INTELLIGENCE SUMMARY

(Erase heading not required.)

Capt. M. J. Holmes a.a. M. C.

will be prepared in manuscript. Remarks and references to Summary of Events and Information Appendices Place Date Hour Took over command of 2nd sanitary section. It australian Division 119Macoust 18/12/16 from major Bourke . I hajon Bourke transferred to 12th Field ambulared VIGNACOURT. Paid oisit of inspection to nouthern pants of T" area where artilles is belleted. Visited hacurs (NAOURS) HAVERINAS & WARGNIES. village Fruid sanitary conditions very bad at all these billeting villages! to public latered accommodation. I ho incinerators. he malked of dealing with refuse from bellets, on stables or house lines. Streets, & lanes & Jacant allotments very foul. Excreta on ground surface. Baths, capable of putting through 60 men pen hour existat NAOURS! 2nd sanctory section is in change of sanitation of "T" drea tell further ord a does not move with its Division. Sent an N.C. O + Pte of Son. Section to NAOURS to get the vellage cleaned up; amonged for them to be billeted & nationed there. & arranged for fatigue parties 13/12/16. a/sat WALKER & PLE BUDGEN. cent to NAOURS. Report sent to A. D. M. S (2nd dusten Dien) "T" anea. re insanitary conditions at Havennas Chateau artilleng Achool of muturation. of Ple Peance to HAVERNAS of Ple Laidland to WARGNIES C.O. of units 2449 Wtl W14957/M90 750,000 1/16 J.B.C. & A. Forms/C.2118/12.

WAR DIARY

or

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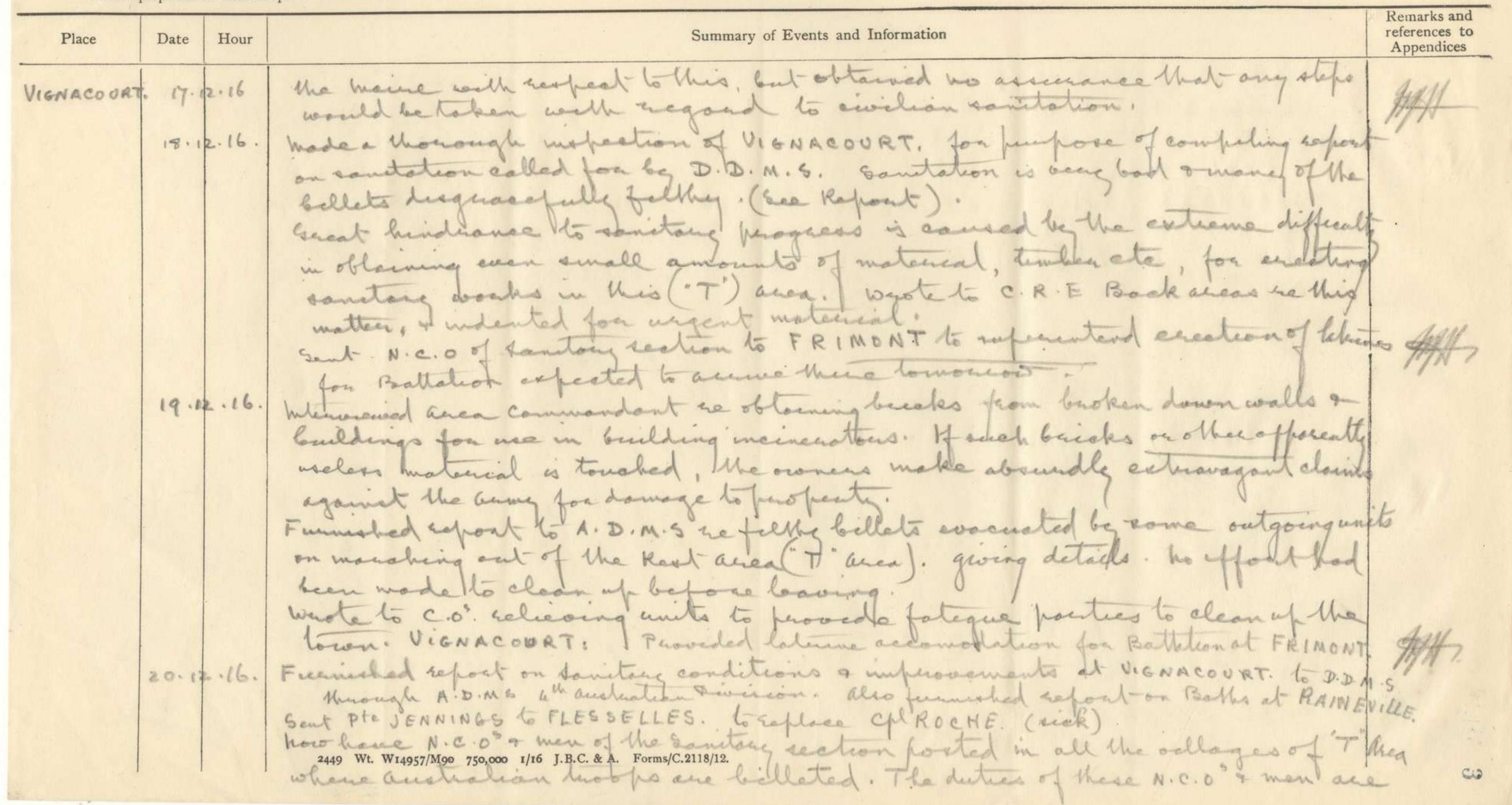
INTELLIGENCE SUMMARY

Place	Date	Hour	Summary of Events and Information Remarks and references to Appendices
VIENACOURT.	14.12	.16.	Discussed contrary acquirements of Vignacount with the area Commondant happy EVANS. Investigated occurrence of Typhoid fever in Vignacount & furnished a
	15-1	2.16	Report to A.D.M.S. emboding recommendations as water suffly Tood soffly, It octaviled affect COATES a a Private of Sanday tection to RAINEVILLE for fanding delices. Paid orient of inspection to St VAAST. COISY. RAINEVILLE. FLESSELLES
			a cholean d'Olencount Rest-station. Considerable progress in saintoir improvements et 5 VAAST. an N.C.O a Private of saintag section delailed for duty here. Interviewed. R.M.O.
			COISY & RAINEVILLE. Eary insocitary ho sourtary works at all. Interiorand area Commandant at COISY he sandtany requirements, also arranged
	16.12	-16.	FLESSELLES. Sanutation being improved. a/Agt. BRIMS + CALROCHE of Sanitary rection obtained have for duty. Reported to A.D.M.S. on Balhs at Raineville & improvements required.
			deplied for ruling on the odlages in T area for sanitation of which the santary restion is responsible. Interviewed 12th F. Cox Engineers in an effort to obtain sufficient material
	1911	2.16	inspected bellets at vignacount. Family ratiofactory on thoutse, but forced several houses in vignacount out of bounds on account of
			recent occurrence of Typhood face. But little can be done with 2449 Wt. W14957/M90 750,000 1/16 J.B.C. & A. Form/C.2118/12. The awail population from point of oreso of presentive measures. Interviewed.

WAK DIARY

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INTELLIGENCE SUMMARY



WAR DIAKY

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INTELLIGENCE SUMMARY

VIENACOURT. 1. To dispose the ocloge under their change begularly dog by day of them remedied 2. To discove attention of unit co" to insuntary beation are difficulty in obtaining compliance with saintary materiations, on the post of feints responsible. 4. To surpenvise the digging resection of public labures in the spots approved by c. o saintage reaction. 5. To expensive exection of memeriators at approved spots. 6. To keep all water surplies under supervision a reposition please. 7. To stilise fatigue posities obtained from units in billet for purpose of cleaning the cillage a meentaining cleanliness of streets, ofen	Place Date Hour	Summary of Events and Information Remarks a references Appendice	s to
9 To report regulacle on wondays of Fridays to the C.O. bontlary reation 1. all improbements effected in somitation since last report. 2. Proposeds four finables improvements. 3. words in bond. 4. and refreschies in connection with getting sometime work council out on in detaining faleque porties 5. haterial regulated for sometime works. 6. and shange in units exempting bellets. 7. handestelessen of sometimes bellets evacuated by any unit. 8. C.O. sounter restron visits all pants of Takea frequently of indeadourn to Affill	VIGNACOURT. ZO 12 16	Duties of N.C.O. Then of and senten dectum posted in concous odloges of T area. 1. To defeat the college under their change hegularly dos to dogst them amended 2. To dreat attention of unit CO. to insentence boundations). It to got them amended 3. To report immediately to C.O. boundary bection any difficulty in obtaining compliance with sentency metruations, on the politic friends suspensible. 4. To supervice the diagring rejection of public latiness in the spots appreciable under supplies under supervision of majored opers. 5. To expensive exection of maintained at approved only defeats. To test water supplies under supervision of majored opers. 7. To attitude fategue harties obtained from units in billet for purpose of accounts the cillage a maintaining cleanly of effects, open objects a reader allotwents. 8. To see that stable refuse a refuse from house lines as frequely packed. 9. To account the cillage on members of ending the C.O. boundary reation 1. all improduments effected in sanitation cance lost report. 2. Proposed fore freeMed improvements. 3. 10 orde in hand, freeMed improvements.	ces

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INTELLIGENCE SUMMARY

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
VIGNACO		2.16.	Effort made through O. C. 12th F. Cog Engineers to got authority for punchase by bricks. There brusks are available in all vellages of "I ance at 36 france for 1000. They are necessary for beatly frances tour frances tours." PIE HAYES. to 6th Field ambulance. (Bronchitis).	AAH_
	21.1	2.16.	a/sqt WEBB. to England on leave. (IOdays). Visit of inspection to COISV. CARDONETTE & RAINEVILLE. also to	
			infected water supply at canaples & found the source of suffly very salutard a spring in the hillside, abundant supply, but being fouled at its source a spring in the hillside, abundant supply, but being fouled at its source	
			Progress at COISY. CAR PONET to wring to great difficulty in oblaining waterial.	
	2 2		station at allowerlle should be extended to vellages in "C" dection of The water supply from CANAPLES should be extended to all villages in "A" "B" sections of "T" been. Recommended this to kee Common Condemned several wells in Condonate a Coiny.	T'area.
			Proposed a scheme to D.D.M.S. Museugh A.D.M.S & Division who approved, of the Sometime reaction should indent for a hold material recessaries to sanitare wholes in "T' area. I should redistribute this material to units then croming material to units to carry out recessary sanitaries. The old mathed of waiting for the unit C.O. To wide for material works. The old mathed of waiting for the unit C.O. To wide for material	

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INTELLIGENCE SUMMARY

Place	Date	Hour	Summary of Events and Information Remarks and references to Appendices
22.12			after receiving his instructions to exect recessore contains works, we will he will usually expended its bellets before moterial oriesed, a the whole process had to be started again with the incoming unit, often with a similar result. The unit usually remains in the rest area with a similar result, consequently a unit ocal seldom did anything in the way of feeting the unit works of the last of the last of the constainty works of the last and under the new amongement (fefficient placed) the sanital section will read to the unit of the unit co. To well set for immediate exection of receiving sanitary works under sufericision advice of the routing rection N. c. o in the vallage. Question of obtaining fortigue pointed driest from the Co. Which also said.
	12.16	6.	This would save much delay in action in "t" buck. for use temporarily. This would save much delay in actions would done at present control by D. S. C. Oat Ribemont is too distant to be effective. Wante to French mession so dist condition of French belleting area in HHH Vignocount. Made a general prefection of the village of VIGNACOURT, for report to D. D. M. S. Foden long to remain under control of 5th Division Supply Column Officer, at Ribemont, ab heretofore. Correspondity fresher delay of troubless in attaining could stee there is no N. C. o on the long (stead disinfestor) of the HHH discipline is deficient to maintain.

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INTELLIGENCE SUMMARY

AALTIN TATATA

will be prepared in ma	anușci	Remarks and	1
Place Date Ho		Summary of Events and Information Appendices	
VIG-NACOURT. 25-12-16		completed mongh draft of general report on sanitation of T area called for by D. D. M. S. A. Luzae. Prepared Tables of mater of villages AMA	
26.12.16.		Handol in above report. embodying 1. Present forition of landation in "T" area salutation 2. Proposals regarding complete scheme of sandation in obtaining recessory material.	
27.12.16.		Insternal for latines sent to RAINEVILLE & CARDONETTE. (Sgt NEAtorted back to duty after leave to England. (Sgt NEAtorted back to duty after leave to England. Cfl. ROCHE, reported rick from FLESSELLES. Tfl to VIGNACOURT for products. Paid wiset of inspection to HAVERNAS - WARGNIES & NAOURS. Paid moneys due to NCO'S men of San Section in this vellages. Peid moneys due to NCO'S men of San Section in this vellages. There is contained uniquousment in the general variation of these vellages to such a latiness of incinculations are becoming mone numerous. Save instructions to N.C.D. of saintony rections stationed at these villages to save instructions to N.C.D. of saintony rections stationed at these villages to	4
28.12.	.6.	performed latering of incineratory of all water supplies, The keep the web constantly up to date for my inspection. Me of a ves reported back to duty from him Field ambulance, treatment as it is in a limit of the other wills. Weather has been very cold of wet, with days of hand fifthe viet intervening between periods of main. Visit of infection to FLESSELLES. RAINEVILLE of VAAST. 249 W.	

WAR DIARY

or

INTELLIGENCE SUMMARY

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(Erase heading not required.)

Place	Date	n manusci Hour	Summary of Events and Information Remarks and references to Appendices
VIGN	ACO 28.1	2.16	Found the Billeting area occupied by Brietish troops in Flesselles one clean iting
			xmas gifts annued front australian comforts fund. acknowledged receipt with their weather. Hard front dull black ho wain.
	29.1	2.16	Visit of imperation to HAVERNAS. WARGNIES Tragues noted in creating laterness & incincretors. Catume Govers (hullie) at these villages! Proquess noted in creating laterness & incincretors. Sent out Circular with instructions to all C.O' of units in VIGNACOURT regarding the me of I. Water 2. Vegetables 3. hill in Veghocourt of layer forces on course. Cases of To phoid feare and still occurring in Vignocourt. Cases of To phoid feare and still occurring in Vignocourt. Mefected success wells & U.G. tanks in VIGNACOURT, a condemned some
	30.	12.16.	Retiremed acquittance Roll to Field Carbian completed. Retiremed acquittance Roll to Field Carbian completed. Weather wild dull slight main in mouning ? exercised water supply from Interviewed area Commandant VIGNACOURT. I discussed water supply from CANAPLES. to VICNACOURT. Also a salene for obtaining material for CANAPLES. to VICNACOURT. Also a salene for obtaining material for
	31.1	2.16. Sund	Have been mobile to hunchase any works aron to use as bous for incinerators. Ith Received notification from C.E. It angre that indents for 50 laterness of the certain notice of for santone works, sent by me to C.R.F. Brick areas 2449 Wt. W14957/M90 750,000 1/16 J.B.C. & A. Forms/C.2118/12.

Almy Point of Biros

Report on Sanitary improvements in Vignacourt

The A.D.M.S.

4th Australian Division

There has been improvement in the samitary conditions of Vignacourt recently

The main attention has been given to the following points.

- 1. Erection of public latrines to replace the numerous insanitary latrines in individual billets.
- 2. Erection of incinerators.
- 3. Baths accomodation.
- 4. General cleanliness of streets and billets.
- I. Public latrines. There are now ten (IO) public latrines in the village. These are distributed as shewn in the attached map thus.

They are mostly four seated flyproof latrines covering deep trenches 8ft long by 2ft broad by 8 to 10 ft deep.

Lost of the latrines are enclosed with iron on hessian and roofed with iron or malthoid.

Others are still unroofedbut the roofinf will be done as soon as material is available.

In connection with each latrine is a urine pit: a deep pit filled with incinerated tins etc and covered.

- 2. Incinerators. There are three incinerators in working orderand they are situated at the spots indicated by a 6 on the attached map.
- 3. Baths. The baths have been put in order and are now working About 200 men per day are put through.
- 4. A large amount of cleaning up of streets and billets has been been done.

The improvements have been carried out by the sanitary section with the help of fatigue parties from the units billeted in the town.

Although some progress in sanitation has been made the village is still very far from sanitary. here are still many very insanitary latrines in prix individual billets. These are either foul flooded shallow trenches often improperly covered, or else mans covered with biscuit boxes the contents of the mans being buried at intervals. It is these man latrines in billets which are interfered with by the civilians. There has been no attempt by civilians to interfere with mublic latrines so far, but the notices in French suggested by Major Low are being affixed by the Sanitary section as a safeguard.

Although public latrines have been provided, men frequently ease themselves in lanes and behind doorways into yards etc. There is much room for improvement in the cleanliness of units in billets.

The best remedy lies in an increase in the number of public latrinesso that latrines may be available in convenient. situations in all quarters of the village. This remark applies

applies to all the other villages in the area, but the chief hindrance to the work lies in the extreme difficultyexperienced in obtaining material.

More incinerators also are required, but here again lack of material prevents the work from being carried out except at a very slow rate.

WATER SUPPLY.

The water supply of Vignacourt is unsatisfactory.

They are worked by windlass and bucket, and thus, though deep, are very readily contaminated.

Vignacourt has been about an inated with Typhoid fever for several years past and cases apprentiated with Typhoid fever for several years past and cases apprentiated with Typhoid fever for several years past and cases apprentiated with Typhoid fever for several years past and cases apprentiated with Typhoid fever for several years past and cases apprentiated are still occurring. It is more than possible that the wells are infected.

A separate report has been made to the ".D.M.S. 2nd Australian Division on Typhoid in Vignacourt.

It would be advisable to have well waters in Vignacourt examined in the Laboratory for Typhoid infection. Meanwhile I have recommended the boiling of all water used in the town.

Water for battalions is being carted from Canaples (5 kilometers) by motor lorry, and this water is very good.

An ample supply of good water from the Camples springs could be brought to the town in the manner suggested by the Area-Commandant Major Evans.

Ment of Holmes Ceft!

Report on Sanitation of avea. Vignacourt.

Satrines Since Completed 5 Eight four "
to Complete 2 System Deep Pet

Motal 9 4. P. Scots.

Incinerators In us

956

In use 3 & < both in bad
To lomplete 2 state of repair
Since repaired by
section.

Baths put in order by Section and now worked by resident Battalions.
No of men but Through, 200 daily.

ablution benches will be fitted where neckessary when timber is available.

Water supply. Wells 4. Hest 1/2 measure B. P. In Use 5. Deep wells overage about 400 Gallons. Quality good.

956 To be filed.

APPENDIX Vignacourt

Re Sanitary improvements in "T" area

The A.D.M.S.

4th Australian Division.

In connection with the matter of providing sanitary improvements in "T" area, I am of the opinion that well built standard latrines of a more or less public nature should replace the very insanitary system of latrines still existing in connection with individual billets. By the provision of such latrines better supervision could be maintained by the sanitary section, and large areas of ground would not be fouled by shallow and usually flooded trenches as at present.

Three four seated flyproof deep trench latrines of the type now being constructed by the sanitary section, would be sufficient for each company of a battalion. These could be placed in suitable situations in the billeting area so that latrine accomodation would be available and convenient to all men occupying the billets, and individual latrines for each billet would be done away with.

Each company of a battalion would be held responsible for the sanitary condition and cleanliness of the three latrines in its billeting area, and for leaving the latrines in a cleanly condition

on evacuating the billets.

In order to get work of this nature done rapidly, it is impossible in practice for units to indent for material in the usual way and then to wait for the material to arrive before commencing operat--ions. The me cessary material may not arrive until after the unit has been relieved.

Also the latrines should be of a pattern approved by, and erected under supervision of the sanitary section.

I therefore beg to recommend that

I. The O.C. Sanitary Section in this area be given authority to obtain all material for sanitary works required in the Area.

A stock of this material to be held by the sanitary section and distributed to units with instructions to carry out the sanitary works necessary, in the billeting area, under the supervision and advice of an N.C.O. who will be detailed for the purpose by the Divisional Sanitary Officer.

In the same way Incinerators at the rate of one (I) per company could be built and placed in charge of the company for its use, the company to be held responsible for them care and maintenance of the incinerator during the period it occupys the billet.

Other sanitary necessary works of a sanitary nature to be handled in a similar way, the sanitary section to provide necessary material.

The present method of working has proved very unsatisfactory. The Divisional Sanitary Officer gives instructions to C.Os of units as to sanitary works required. Long periods elapse before necessary material can be obtained, and the work usually cannot be carried out before the unit is relieved by another.

This means that the whloe process has to be gone through again with the incoming unit.

SANITARY SECANNEStimate of the material required by the sanitary section Ist AUSTRALIA FOR urgent sanitary works in "T" Area has already been submitted to you.

Date Z. 2 - 12 - 16 .

APPENDIX

in office

of 2 to fam teal

And the state of 2 to fam teal The D.D.M.S. Ist Anzae Corps. I beg to submit the report/of the Sanitary conditions of "T" Area as called for under your instructions of the 4th inst. The delay in furnishing the report is due to the fact that I did not take over the duties of Divisional Sanitary Officer until the IIth inst. and that a thorough inspect--ion of the area was necessry before a report could be furnished from personal experience of the conditions. Separate reports have already been furnished on a. The sanitary conditions of Vignacourt. b. The occurrence of Typhoid fever in Vigns court. SANITARY SECTION, 1st AUSTRALIAN DIV.

REPORT ON THE SANITARY CONDITIONS OF "T" AREA.

In general the sanitary condition of the villages in "T" Area where the troops are billeted is not at all satisfactory.

Apart from the insanitation generally associated with Fremeh villages, the billeting of troops has given rise to conditions which are liable to result in scrious disease unless a better regard is paid to sanitation.

These conditions are

I. Wholesale fouling of the ground surface in the immediate neighbourhood of billets by exercts, either in the shallow trench latrines or on the surface of the ground itself. This not only allows of fly breeding, and the carriage of infection from exercts to food by flies, but the exercts deposits are often in the immediate vicinity of wells and underground tanks which become readily fouled. Even if the wells are very deep, the windlass and bucket is the system in use, and the bucket resting in the contaminated soil near the well mouth, subsequently earries contamination to the water of the well itself.

At this time of the year especially, shallow trenching of exercta is bad practice because the ground is pract-leally waterlogged.

- 2. Little real effort has so far been made to incinerate garbage or refuse, probably because no proper incinerators existed. At present in any of the villages, tins, food may be seen lying about billets, or on vacant land, and sometimes in the streets themselves.
- 3. Food often lies exposed in the billets and this encourages rats and flies about the billets.
 Rats earry infective jaundice and other diseases. Flies, especially when warmer weather comes, earry typhoid fever, dysenteries and other diarrhoeal diseases.
- 4. Stable refuse and refuse from horse lines is too often not properly dealt with. At thes time of year when the incineration of such material is very difficult in the absence of fuel, it should be carried to a particular spot in or near the village and properly packed.

It is necessary to have the villages properly eleaned up, and the troops educated to a greater regard for cleanliness and sanitation than is at present the ease so that cleanliness may be maintained.

The chief points calling for attention are.

I. The latrine system.

In all the villages at present, individual billets have their own latrines. These are usually shallow trenches dug in waterlogged ground. The whole area around them is churned up mud. Often the men, owing largely to the filth and mud about the trench, case themselves on the ground surface in the vicinity, or in lanes or on vacant plots of ground. The amount of ground fouled in this way is very great and water supplies are liable to contamination.

Another system mx is that of biscuit boxes covering pans, the pans being emptied at intervals into pits. This, though more cleanly than the trenches, is not satisfactory in the immediate neighbourhood of billets. The boxes are

not fly proof, proper supervision of a large number of such pans by the sanitary authorities is not easy, and moreoverthe biscuit boxes are usually taken by the civilians for firewood when a whit marches out, and the relieving unit coming into the billets finds no latrine accomodation.

Latrine accomodation can be satisfactorily not by a system of fly-proof deep trench "Fublic latrines" to replace the latrines in individual billets. As these "public latrings" are provided, the use of latrines in individual billets can be prohibited. This principle is now being introduced into all the villages in "T" Area. The attached Table I. and the maps of villageswill shew the number of such latrines already completed and the number now in course of construction. It is intended to have three (3) fourseated "public latrines" to each Company of a Dattalion., the Company to be held responsible for their cleanliness and upkeep while it occupies the billetin area. These latrines, (10ft deep) will last up to three months. They are built fly-proof and are screened around with hessian and roofed over with malthoid so as to give privacy and protection from the weather. Alongside each is a urine pit, a deep pit filled with stones and incinerated tins, and covered with earth, a perforated spout into which the men urinate being connected with each pit. These latrines and urine pits can be easily kept under supervis--ion by the N.C.Os of the sanitary section stationed in each village. Reference to Table I. and Maps will shewthe present position of public latrine accomodation in each village. The work is being earried out as fast as possible, but the great drawback is the great shortage of material for erecting the latrines These latrinesean, if necessary later on, be transferred to other areas or villages.

#. Incinerators.

At present very few incinerators exist, and some of these require reconstruction. Table I. and the Maps show the position as regards incinerators in each village. Owing to the ma ture of the soil, the double pit incinerator is unworkable. Fairly satisfactory incinerators have been made out of large tins, but the best are built of bricks or galvanised iron sovered over at the top and having a good draught flue. Galvanised iron is unprocurable, Bricks can be obtained in all the villages of the area at 30 francs per 1000., and a first class incinerator can be built for I5 francs if authority can be given to purchase the bricks locally. In this way transport would be saved. A good type of incinerator is required to deal with the sodden refuse in the absence of fuel. Table I. shows the number of incinerators already erected and in use in the various villages, but it is intended to aim at one incinerator per company of a battalion, the company to be respon--sible for its proper upkeep and working when in the billeting area.

This should be carted on to an open space near the village and there properly packed. It is the duty of the N.C.O. of the Sanitary section in each village to demonstrate the proper method of packing this refuse.

It is particularly in the villages where artillery are billeted that care is required in this respect. cq harms. Warques of Havernas.

4. BATHS.

There are Baths at

Vignacourt Flesselles Raineville Naours.

These baths are working and can each on an average put through 60 men per hour.

water is boiled in coppers and ladled into tubs for the use of the men.

The baths, though being worked, are not in a very satisfactory condition. Repairs to buildings are necessary to afford better protection to the men when bathing and dressing. This is especially so at Raineville and Vignacourt.

Improvements to Drainage with the installation of settling pits and the use of chloride of lime for separating the scap from the effluent, are required at Raineville and Vignacourt.

Water for the use of the baths at Vignacourt and Raineville has to be carted at present. A report has already been submitted regarding the baths at Raineville, and suggesting improvements. Such improvements as have already been carried out, were made by the sanitary section, an N.C.O. of which still supervises the bathing of the men.

At Naours the baths are controlled by an officer acting under

Capt Purchas o/c Baths, Heilly.

In compection with the Baths I would recommend the establishment at each of the baths of an ironing room for the delousing of tunies and breeches during the time the men are actually bathing. It is certain that clean underclothing becomes lousy in a few hours unless steps are taken to delouse the breeches and tunies. The Foden lorry disinfector, in the absence of any mechanism for withdrawing the air from clothing etc before steam is admitted, does its work too slowly and incompletely to be of usein these respect, and the provision of an ironing room in connection with the baths seems to be the most practicable method of working. If 60 men are put through the baths per hour, I5 men or women would be sufficient to employ ironing the outer clothing. This would allow 15 minutes for ironing each mans clothing.

Except at La Chausee, no ablution places (apart from the baths above mentioneda) exist as yet in the villages.

WATER SUPPLY.

Water supplies in the area comprise

Wells. Underground tanks (rain eatchment) Water earted by water waggens.

The water supplies are kept under supervision by the men of the sanitary section stationed in the various villages of the area. Nost of the wells in use have been already tested, and the test results on the whole are good (see Table 2. attached) ince the method of bataining water from the wells is usually by windlass and bucket, the wells are very liable to conteminat—ion and the supply cannot be looked on as very safe. This is particularly so in Vignacourt where Typhold fever has been endemic for years. Consequently it would be a wise precaution to issue orders that all water from wells and underground tanks in all the villages should be boiled before use. At Vignacourt in particular the well water is unsafe, and water is being carted from Camaples.

In some cases as at Cardonette, Golsy, Frimont and Vignacourt notices prohibiting the use of certain wells are being posted at the well mouths. At Cardonette a very safe supply is drawn from Allonville, and this supply might with advantage be extended to

The best method of protesting the wells from contemination lies in substituting a pump for the windless and bucket system, and securely covering the mouth of the well.

The main hindrance to the sarrying out of the necessary sanitary improvements in the area is the extreme difficulty in obtaining material. If material can be obtained in sufficient quantity

and without

APPENDIX

and without delay, it will be easy to get the required number of atrines and incinerators creeted, and to get the area into good sanitary condition in a very short time. As it is material can searcely be obtained fast enough to keep one man employed in making latrine seats.

I have already recommended in a previous report that the Sanitary Section should have authority to indent for and hold in stock a supply of material necessary for sanitary works, and should distribute this to units when issuing instructions for the carry-ing out of necessary sanitary works. If the instructions and the material arrive together, there will be no difficulty in getting

each unit to carry out its work.

It would be of benefit also, in order to avoid delay in getting sanitary work done, especially such work as the cleaning up of insanitary areas, that the Divisional sanitary officer should deal directly with the C.O. of the unit in whose area the insanitary condition exists. With direct co-operation between the sanitary section and the various units, insanitary conditions when pointed out will be remedied on the spot, and there will be no necessity to furnish written reports to Headquarters of the Division drawing attention to insanitary condition in the various villages occupied by the troops, unless the units fail to remedy them in a reasonable time after attention has been drawn to the work required

A considerable amount ofwork has already been done in all the wills villages in the way of cleaning up long standing accumulations of refuse and garbage, empty time etc, and in cleaning the ground surface of excreta. Large pits have been dug for burying the refuse.

Public latrines and incinerators have been erected in practically all the villages. The most work has been done in Vignacourt where IO public latrines and 3 incinerators have already been erected. The amount of work still to be done before the billeting area can be classed as sanitary is very great, but if the necessary material is made available, and with the ready co-operation of the units in billets, the sanitary condition of the whole area would soon shew an immense improvement, and the danger of disease outbreak would be greatly minimised. Unfortunately it is not practicable to much with the sanitary arrangements of the civilian population within the villages and this will always be an obstacle in arriving at thoroughly cleanly villages for the troops.

Tables. attached

Merida J. Holmes Capt: Des il Sun Affects

Sanitation of "T" area.

23.12.16.

hame of Village. LATRINES INCINERATORS.								BATH	S.	
	Original System	humber of latiness to already creates	Rublie latione Public latione 1. constructi	hubbar of attains to Complete	Total troposed to village.	humber now in	humber mout in	Total proposed ion for village		
Vignacourt.	or pan latrine in individual	P.	0	13	24.	3		8	1.	
st Vaast.	do.	3	3	18	24.	1	1	8	hil	
La Chausée	Shallow trenches for individual Wille		1	10	12.	(rough) -	4	ablution 1.	banch
Flesselles	Thollow trenche	3	4	17	24.	1	1	8	Baths	
Coisy.	Shallow trenching in billets . J	1	4	9	14.	1		5	Kil	
Rameville	do	2	3	9	14.		0	5.	0	
Cardonette		1	3-	8	14.	1		5-		APPE
Warquies	Shallows transling Open pit latriale + Pans	3		4	8.	1	2	3		N N
Havernas.	do	2		3-	8	0	2	3		×
haours	Shallow trenche	3		13	16	- 1	1	5	1	
Framont	do	2		6	8	1		4		
st Saveur.	do.	_		8	8			4.		

Manes.

WATER. SUPPLIES.

25	96			
"7		1	~	0 0
0		U	1 1	COL

			T	Area.
Village.	hature os Supply	humber WELLS in use.	Test.	Remarks.
Vignacourt	a. Wells. Unsolo.			The Canaples supply is abundant & safe
Flesselles	- And Od	2	1/2 meas B.P.	ho underground tanks in lise by troops.
st Vaast.	Wells.	2	1/2 meas 13. P.	ho underground taaks In
La Chausée			1/2 meas B.P.	
Raineville	a. Wells 2/3 of supply b. Underground tanks 1/3 of supply	2	1/2 meas B.P.	A good supply. Pump attached to deep well.
Corsy.	a. Wells. 1/6 of supply 6. Underground tanks (unsex 5/6 1/6 1/8 Juffle		1 measure B.P.	water supply at Coisy not safe unless boiled baining supply suggest obtaining supply from allowfield
Cardonette.	From sterileining plant at allowoille (good)		Very good	
haovrs	bells.	4.	1/2 mensure B.P.	
Havernas.	Wells		hot get. tested	To be tested at once.
Warqnies.	wells.		hot get tested.	do.
Frimont.	6. Water couled from haours.	dupply inadequate	hot yet lested.	Horage tanks required: Well condemned.