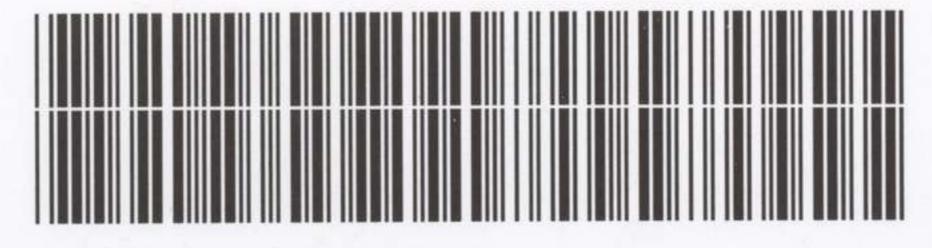
## AWM4 Australian Imperial Force unit war diaries, 1914-18 War

Medical, Dental & Nursing

Item number: 26/80/10

Title: 5th Australian Sanitary Section

May 1918



AWM4-26/80/10

18,000-12/17-8723

## CONFIDENTIAL.

# ORIGINAL. DUPLICATE. TRIPLICATE.

Australian Imperial Force.

### WAR DIARY

OF

54h AUSTRALIAN SANITARY SECTION

FOR

MAY 191 8.

Signature of Officer compiling.

Signature of Officer Commanding

Mulifolium linji

Army Form C. 2118.

#### WAR DIARY

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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
			Res imes for the month.	
DAOURS. Joolen Mill	s)1-4		Strength 10ff. 27 O.R. 2.attached. Rord Box Car Noi987 5. Side Car Combination at Workshops. Area consisting of B. Div Area, Bussy-Dacurs Area and the Les Alencons Area. B. Div area occupied by the 5th Aust Div. Area being supplied from Dump of Sanitary material found in Corbi Owing to a second case of chicken-pox in the Unit it was considered advisable to move the Unit from the Woolen Mills Dacurs owing to the number of troops there, to the town of Dacurs. Hodification of B. Div area. Blagny-Pronville and La Notte handed over to the 4th Aust Sanitary Section. Post of IN.C.O. and 4 O.R. withdrawn from Blagny Tronville. Unit moved into Billets a	
DACURS. (village)	5-2 0		Dacurs. Workshops opened at Dacurs. Arrangements completed with the area Commandant of the Bussy and Dacurs to have an area sanitary system. Public Incinerators put into action, and Town Garbage systems instituted. Manure Dumps located. Street cleaner salved from Corbic and used in Dacurs improving gradually during this pariod. Flies make their appearance in greater numbers. Large amount of shelling in the forward areas particularly around Aubigny, Fouilloy, Corbic and Hamelet. Intermittent slight shelling of Dacurs increasing during period. Epidemic of Influent in the Unit, Illness of short duration about 48 hours. Three- cutriers of Unit affected. Sanitary Arrangements received from D. J. M. S. Aust Corps with map showing the various Sanitary Areas. Camer-La Notte-Rivery Area added to this Units Area. Arrangements made with Area Commanders.	ers.
RIVERY. heet 620.	22.		Rivery to take over billets in the Rivery Area.  Heavy Shelling of Daours at 7am. Unit moved to new location at Rivery during the day.  Forward Post of 2M.C.Os-and 9D.R.s left as Forward Post at Bussy for the inspection etc of the B. Div and Bussy areas. New billet on side of the Hortillionages of Amiens where there are man gardens of green vegetables, and canal etc.  Inspection of the new area commenced. Area Commandants interviewed. Arrangements made for a system of Samitation for each town. Norkshops opened at new location.  Arrangements completed with Area Commandants for Samitary Systems at La Hotte. Cemon. and Rivery. as in the Bussy area. Public Incinerators arranged and completed at each town.  Garbage system and Hanure dumps. Arrangements made to have the Street Cleaner taken from Bussy	
	51		to la Motte where it is more required.  D.D. H. Z. Aust Corps called to impact the unit. during the morning. Nonthly report rendered.  Delcuser recommended by the B. L. S. Army on the Russian principle inspected with the D. A.D. E. S. Sth Aust Div at 77th Sanitary Soction. Salours Flan and original correspondence reparding this and the original emperiments attached to the Diary.  Strongth of Unit 1.022. 31. 0.8. 2. attached. Reinforcements during month 5.0.R. 1. 0.8. return to hustralla.  Aross Wt. Wiss 9/Mir293. 750.500. 1/8. April Lid Forms/C2118/14. Edspital (Varicella).	d

#### LIST OF APPENDICES.

#### No. Subject. Monthly Sanitary Report for May 1918. Graph of Work done during month Synopsis of work carried out during month Instructions for chlorination of water in petrol tins etc Routine working of 5th Aust Sanitary Section. Unit Inspectors Map. Pro-forma of Inspectors Report Copy of a Covering Report 8.1 Fit for Drinking Notice 941 Tested Poisonous Notice 10./ Unfit for Drinking Notice 11./ Pro-forma water Report. 13./ Water Map (Attached to Water Report) 14.1 Instructions issued to Water P icquets 15./ Correspondence in reference to Russian Pattern Delouser 16.1 Plan of attached. Copy of page of Water Report on a village sent to Water Supply Officer Aust Corps on (CAMON) 18. Balance Sheet and Cash Statement Canteen. Cash Statement, Regimental Funds.

#### BANTTARY REPORT FOR MAY, 1918.

5th AUSTRALIAN SANITARY SECTION.

Appendix.

Area comprised B Divisional Area, Bussy and Les Allencons area until the 19th inst. when Camon, Rivery and Lamotte Areas were added. During the month work has been slightly hampered by the fairly considerable shelling and gassing of the areas. Owing to constant shelling it was necessary to change location of unit from Daours to M 9 a 8.8. sheet 62d on the 22nd instant. Graph shewing work done during the month is attached. Figures wor week ending 20th May do not represent actual work done by unit in area as almost three quarters of Unit's instabors were ill with influenza.

Following is report on the various greas: -

"B" Divisional Area. This area has been divided by 5th Australian Division into two subareas - North Area including La Neuville, Vaire, Corbie and Sailly le Sec: Southern Area including Aubigny, Fouilloy, Hamelet. Blange-Tronville and La Motte were in area for short period at the beginning, of the month but this portion was handed to 4th Aus. Sanitary Section. 1. BILLETS.

Trenches and sholters mainly; few billets. Towns are practically unoc upled; owing to the large amount of everevewding accommodation thhere is no overcrowding. General condition satisfactory. In the whole area villages have been evacuated by civilian population. Many of the houses are in a disorderly condition and in many the middens are insanitary and require drainage. In occupied billets the units concerned usually render their surroundings and billets as sanitary as possible. Special fatigue parties were requested from Division to attend to the drainage of Aubigny; this party also buried 150 odd horses in the area during the early part of the month. The Division in occupation, sub-area Commandants and units concerned in this area have made great improvement during the month. The samitation of the various towns in this area, being unoccupied, under present conditions presents great difficulty.

2. WATER SUPPLY.

In all cases deep and shallow wells. Corbie has some rainwater system supplies in houses. b. Chlorination - all wells in Fouillor, La Neuville, Etan s, many wells etc in Corbie and several in Hamelet have been inspected and labe led. Several water carts tested daily. Owing to large number of sources of supply the control of chlorination is practically impossible. In truction was given to several Transport Officers in regard to the chicrination of water and petrol tine.

c. Water points - There are no water points in the area. There are a number of wells in the various towns which are being used for drawing water in water carts.

4. BATHS. There are two baths in this area - Corbie and Daours. They are both controlled by the 5th Aus. Div. Daours Baths is run in conjunction with the gas centre at the 14th Field Ambulance. Daoues Baths can cope with 2000 men daily and Corbie Baths with 100 men per hour. Both are in excellent working order and an excellent device has been installed by the Officer in Charge which saves water and fuel. Each individual shower can be used independently. Changes of underclothing are provided and a Foden Lorry works in conjunction with the baths at Daours.

5. LAURDRIUS. - NIL.

6. DISHIFFCTION - Several units have had various quarters disinfected during the month in cases of infectious disease. In cases of infectious disease the case and location is notified to the Unit by A.D.M.S. of the Division concorned and the Sanitary Section attends to the necessary disinfection.

7. LATRINES AND URINALS. - A large dump of latrine seats and buckets was found at Corbie and put to good use. Fly proofing of latrines in this area is practically complete. In the forward area the bucket system is in use. There is a sewage system at Corbie. Civilian latrines

are not being used.

RITUSE DISPOSAL - Medniy by burying.

STABLES AND HORSE STANDINGS. General condition good. Mamure disposal by stacking. Hanure is used by most units in conjunction with mud to form bomb proofs around horse lines.

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Appendix 1.

1. Billets. Billets and shelters. General condition good. No overerowding.

2. Water Supply.

a. Nature of supplies -- Deep Wells.
b. Chlorination., All wells in Daours and Bussy tested and labelled.

c. Water Points. 800 gall., tank and stand-pipe connected to de p well at Bussy.

7. Latrines and Urinals. Flyproofing practically complete in area except for a few units which should be completed shortly.

8. Befuse Disposal.

a. Methods of collection and removal. A G.S. wagon detailed by the Division calls at all houses daily and takes refuse to the Public Incinerator.

c. A street cleaner was salved from Corbie and is used in Bussy and Daours.

These arrangements rae controlled by the Area Commandant.

9. Stable s and Horse Standings a. General Condition Good.

b. Manure Disposal. Public Dump at Bussy and two at Daours. Units are in some cases using their manure with earth for bomb proofing.

PLES ALENCONS AREA.

There are very few tropps in this area.

1. Billets and other quarters. Billets and shelters. General Condition very satisfactory.

2. Waver Supply.

a. Nature of supplies. Deep Wells

b. Chlorination. Chlorination carried out by units themselves inall wells used

c. Water Points. Several very good and deep wells are in this area. particularly one at Chateau Les Alencons, where an electrically-driven pump is used.

7. Latrines and Urinals. Flyprocring practically comp lete. 8. Refuse disposal. By individual units by incineration.

9. Stables and Horse Standings. General condition good. Mamure disposal as in B.

, CAMON AREA.

This area is subdivided into three sub-areas- Rivery, Camon and La Motte.

1. Billets and other quarters.

a. Mature. Billets, shelters tents etc. General Condition fair.

Civilian population is practically evacuated. Majority of the houses are unoccupied.

a. Nature of Supplies. (1) Rivery. Main Amiens Water supply. Standpipe and street fountains. The main has been broken during the latter part of the month by shell fire and is being repaired by the French Authorities. There are also a few wells in the houses and some deep wells on the outskirts which act as a subsidiary supply. (ii) Camon and La Motte. Well b. Chlorination. Majority of the wells in these villages have been tested but not yet quite complete.

c. Water Points. Nil in area. see General Remarks.

3rd Aust Div Baths at La Motte. There are 12 sprays and it as capable of accomadating 250-500 men daily. Change of underclothing provided.

Latrines and Urinals.

Fly-proofing of latrines in this area is not yet complete. In Rivery the sewage system is not in use. The area-commandant and all units concerned have been notified that civilian latrines must not be used; special arrangements have been made during the time since the Unit has taken over to provide adequate out-door accommandation in this area.

Fly-proofing of latrines in Camon Area is not yet complete. There are about thirty units who have still open latrines.

There are two Public Incinerators at Camon and one each at Rivery and La Motte. A G.S. Wagon calls daily at billets at Camon and La Motte and carts refuse to these public incinerators. This is done by individual at Rivery. The system is under the control of the various areadants; and the incinerators are in charge of P.B. men supplied When the Area Commandants Staff.

Appendix.

satisfactory. The condition, however, of the horse lines on the Gamen and La Motte Road is not entirely satisfactory. Special attention in is being directed to these and the A.D.M.S. 3rd Aust. Div has been advised. A Unit of the 4th Aust Div was recalled to this area to render its vacated lines s whitery. This was done through A.D.M.S. 4th Aust Div.,

E. CENERAL REMARKS.

Inspection has been carried out to include all units forward to Batt

Headquarters in the line.

a. Maps of all villages etc in the area and descriptions of the various wells will be forwarded under seperate cover to D.D.M.S. Aust Corps for the information of the Water Supply Officer and to the Area Commandants concerned as soon as Camon and La milotte are completed to complete the area.

b. The control of chlorination in the present area is practically impossible owing to the very memorous sources of water supply. It is recommended that A.D.M.S. od Divisions issue instructions to all units regarding the chlorination of water in petrol time dirice etc. Attached is a copy of the usual instructions and the measures worked out by this unit for practical purposes.

e. There is only one water point in the area.i.e. at Dussy. All wells particulary suitable for water points will be specially mention ed in the reporte to be forwarded later.

as the supply of printed water notices has given out and it has been necessary to make special notices for the purpose.

been reported to be using the water from various adjacent lageous etc. This matter has been reported to the A.D.H.S. of the Division.

2. Food and Cooking.

a. quality good. Variety fair A certain amount of green vegetables are being supplied by Divisions and many Units are supplementing this by purchase.

b. Units are being induced to supply themselves with fly-proof safes where necessary. An indent is dutstanding for buttercloth which will be issued to the units requiring it. It is hoped to be able to make a limited supply of these.

c. Sanitation of cookhouses, speaking generally, is estisfactory.

5. Bathing. Units located close to the Somme etc are making good use of the river for the purpose of swimming and bathing.

With the incorporation of manure in bomb proof and mixed with which earth, when properly carried out this is quite sanitary and does not provide a breeding ground for flies. An excellent example of bomb proofing built up in this manner can be seen at the S.A.A. Section 5th Aust Div at Rivery.

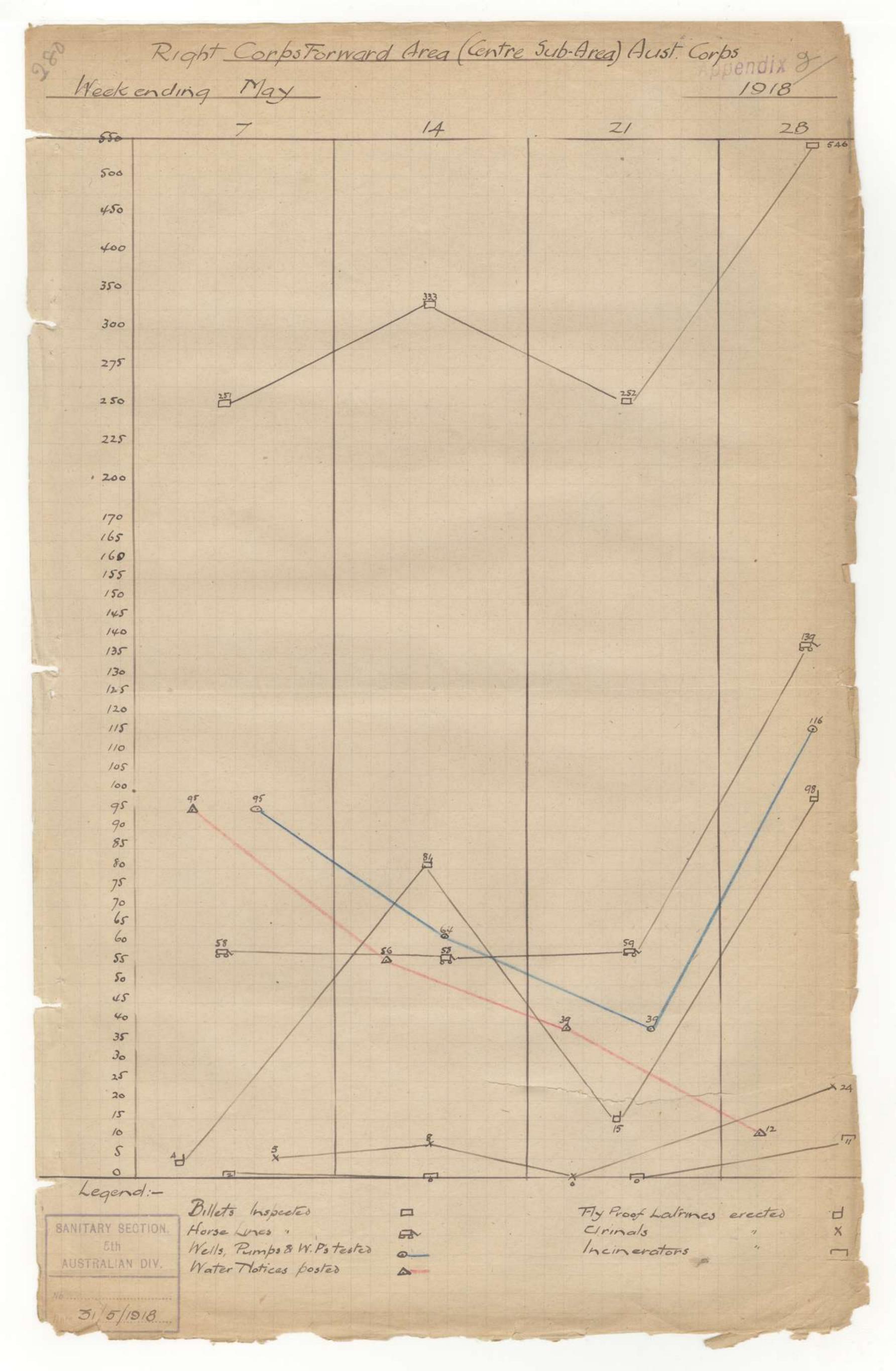
5. Infectious Diseases. A very marked epidemie of influence occured in the area during the month. The illness was of short duration generally about 48 hours. A few cases of numps and one case of Dysentery was reported.

6. Letrines and Urinals.

In conjunction with Area Commandants provision for public letmines bas been made at Rivery, Camon, La Motte, Bussy and Daours,

Flies have made their appearance in numbers during the month. Special attention has been directed during the month to the flyprocring of latrines, the disposal of manure and the covering of food. Inclinerators for public use of the open type have been put down at Rivery and Bussy-Dacurs. These cope with refuse in large quantities and are entirely satisfactory. In samaller scales units are being recommended to install this type. Besides their excellence practically no natural is required to build them. A special de-lousing devicting was viewed at the 77th Sanitary Section and it is intended to erect several at various units in the area and to have one placed at the baths at Dacurs.

O.G. Stil Amstralian Sanitary Section. Hajor.



#### RIGHT CORPS FORWARD AREA, (Centre sub Area) Australian Corps.

Synopsis of work carried out by, and under the supervision of, 5th. Aust. Sanitary Section, for Month ended May 31st., 1918.

Situation.	Flyproof latrines erected. (seats)	Urinals n manusted. put down	Incinerators erected.	Ablution benches e rected	Grease Traps erected	Billets	lines	disamen	Wells, pumps, Water points letc.tested.	Notices posted.	Public Conveniences inspected.
Deours and Rivery	198	37	15	3	31	1382	312	8	314	201	133

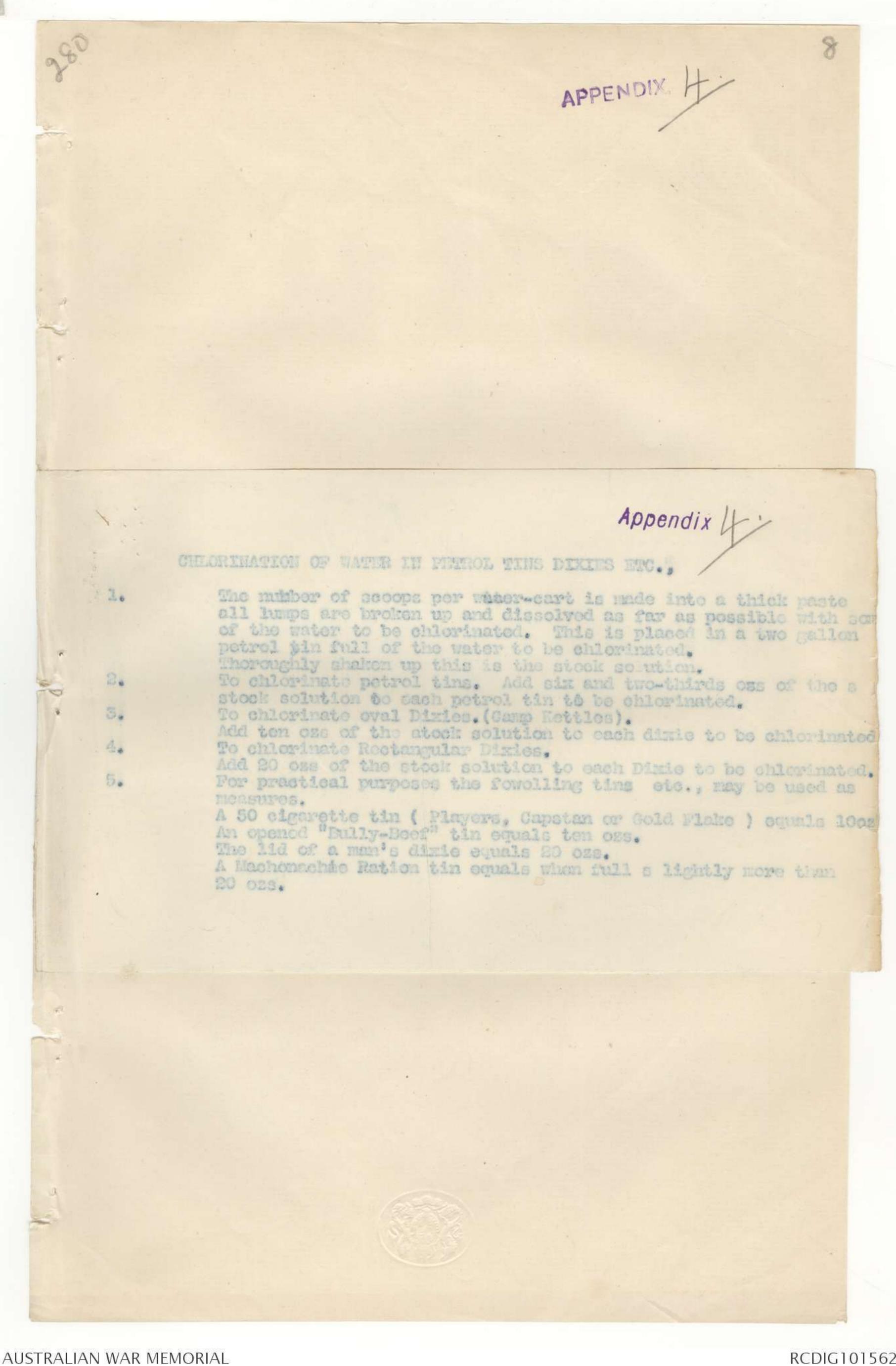
WORK IN PROGRESS on 31/5/1918.

Fly-proof latrines. Se ats.... 30. Grease Traps. .... 1.

In the Field. 31/5/1918.

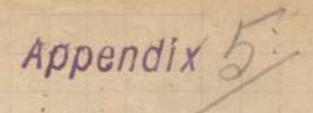
O.C., 5th. Australian Sanitary Section.

Appendix.



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As Unit is essentially a Medical Unit it is endeavoured to keep in view at all times the aims and objects of a Sanitary Section., that is to deal with all matters that are liable to affect the health of any troops in any particular area. This is done by regular inspection of Units in certain areas alloted by Corps or Army by members of the Unit, who report if the necessary measures required are being carried out by the Units. These inspectors also instruct the various methe units in the various methods required and endeavour to arrange with each Unit for the necessary measures to be carried out. There is also a certain number of Water Inspectors who test and labell all wells and water supplies in the area, inspect all sources of supply etc., and report if the nece ssary measures with regard to Water are being carried out by Units. Reports on the water supply of the area are forwarded to the Corps water supply Officer or to Divisions or Area Commandants as considered necessary. As Workshop section is also maintained. This section deals with the construction \*tion of various Sanitary appliances that may be required. The appliances constructed are then issued out to the Units requiring them in the areas. This section also deals with the making of the various notices required and the The Unit further deals with the fowolling matter. The sanitation of Baths Laundries etc. The Sanitation of Towns. The Disinfection of quarters etc in cases of infectious diseases and seeing that the proper precautions are taken. Dealing with cases of infectious disease amongst civilians in the area and seeing that proper precautions are taken in regard to troops. Advising Units, Area Commandants, Divisions, Brigades etc., in the various Sanitary me asures that are required in certain areas and seeing that these are carried out. The eupervision and Recommendations for the location of various Sanitary appliances (e.g. Public Manurse Dumps, Public Incineratorsetc) and recommendations for the construction of same. Investigation of the causes of epidemics in certain areas(e.g. epedimic of Diarrhoea in vicinity of Kemmel in February 1918) which was traced to a well being used as a Public Water The Sanitary Section in all concerns itself with all matters that do or are lial Point ). I liable to affect the health of any troops in its area, in conjunction with the dorps, Division, Brigade or Unit concerned as the case may be. Constitution of the Sanitary Section. · Establishment provides for 10ff. 270. Rs (including 1Staff-Sergt, 1 Sergt, 2 Cpls 1 L/Opl and 2 Motor Drivers) Transport consists of 1 Ford Box Car(750 1bs) and one combination Motor Bicycle and Side Car. At first the transport was 1 three-ton lorry and a Ford Ambulance was usually loaned by the A.D.M.S. of the Division to the O.C. of the Unit. In those days the Unit was Divisional and was able to be mobile and self contained. However on the transfer of Sanitary Sections to Army Areas the three-ton lorry was replaced on establishment by a 10 cwt Box Car. This was however never issued to Sanitary Sections but a 7501b Box Car in its place. The Unit is divided up into various sections. Although establishment provides for only 27 O.R. at present the Unit has 3400.R. (2 attached) and can fully occupy all ranks. The various sections are a. Headquarters. b. Unit Inspectors. c. Water Inspectors. d. Workshops Section. a. Headquarters. Consisting of 1.0ff. 9.0.Rs (1 Staff-Sergt.1 L/Cpl Quartermaster, 2 M.T. Drivers, 1 Cook, 1 Batman, 2 General Duties 1. Clerk.). The Staff-Sergt is responsible for the maintenance of discipline etc in the unit, the collection of the reports from the various inspectors or N.C.Os in charge of the inspection of certain areas and for all matters concerning the Unit generally, and co-ordination between the various sub-sections. The clerk is responsible for all matters in connection with the Orderly Room and the proper filing of all correspondence, the making out of pay sheets etc The L/Cpl quartermaster is responsible for all matters concerned with the feeding, clothing etc of the unit, the return of Salvage, fat etc, the drawing of the various materials etc required by the workshops section. The 2 General Duties are to one to assist the quartermaster or the works hops section or as spare inspector as required, the second for the maintenance of cleanliness and the Sanitation of the camp. The duties of the Officer are many and varied. They consist mainly with dealing with special circumstances or special reports required. The arrangement ments for various matters in connection with the working of the Unit (material etc). The answering of correspondence. Reports on special matters in the area to the officer or persons concerned. Interviews in regard to the Sanitation of areas with area Commandants, Diw A.D.M.S. of Divisions or Brigades . Inspection in detail in an area like the present is impossible, --



In areas where there is not much other work and plenty of time, Units are inspected as routine. In the present area it is possible to inspect only those that have been badly reported by inspectors or for some special circumstance. and various units in various mreas at certain times . b. Unit Inspectors. At present there are 15 (incl. 1 Sergt. 1 L/Sergt. 1 Cpl. and 1 L/Cpl). In athe. present area, these inspectors are arranged in two posts, one forward post of 1 Sergt, 1 L/Cpl 6 inspectors and 1 Cook). the remainder are at Headquarters. At one time the various N.C.Os were alloted with a number of inspectors to certain areas. This however tends to decrease the number of inspectors and in big areas like the present the arrangement is that all inspectors of the forward post area inspection of the rest of the area is carried out under supervision of the Staff-Sernt. To each inspector is alloted a certain area, this area is in one Army-Sub area only so that the inspector can work in conjunction with the Sub-area commandants staff of that area. The area is definitely outlined along or between ceptain road and each inspector is provided with a map (squared) of his area in order to mark the various units in his area on it and to give the location in his reports. (Hap-ak Each-inspectors map attached ). Each inspector renders a daily report of the work done by him during the day. These are collected each everhing by the N.C.O. supervising the area who makes a covering report on special details noted by him or by the inspectors that he thinks requires special attention. Copies of pro-forma of inspectors report and covering report attached). Each ins poctor also keeps a note-book for his own use, and is responsible for having at his disposal any information concerning the area that may be required Brom him from time to time. Each inspector in inspecting a Unit is reports before doing so to the O/in charge of the Unit, the M.O. the Adj. or if no officers there to the senior M.C.O. present Inspectors point out the defects to the unit and informs the unit what is required by the Sanitary Section in this regard, and also endeavours to arrange with the unit for the construction of what is necessary or if the Sanitary Section has a supply what is required on hand instructs the unit to call at the Section to draw the neearticles required. Inspectors also report on any muis ance not caused by the-military, troops, but which is likely to have an influence on the health of summounding theops. In the case of civilian matters requiring attention, action is taken either through the French Mission or throughle the area Commandant or Town Major to the Major of the place. The Sanitation of the various sub-areas depends very largely on the intelligence, the methods, the knowledge and the interest in his work of the inspector imspecting the sub-area. Inspectors are instructed in the methods required by the sanitary s ection from time to time and they instruct the various units and see that they are carried out. A short guide for inspectors has been contemplated for some time but so far it has not been able to carry it out. If it is done later a copy will be attached to the war diary. The inspectors also report if there is any prevelance of any particular discand in their area. They also carry out the disinfection required in cases of infectious discesses in their areas, under instructions from the Orderly Room. They also notify the workshop section of what is required in their area and arrange through the Staff-Sergt to have them supplied. c. Water Inspectors are all highly trained in their duties and have all been put through a special course of instruction. At present they are three. (L. A/Cpl 2 privates). There are also two inspectors that are trained water inspectors that are not required at the present and are acting as unit imspectors. These inspectors are detailed to certain areas, where they carry out routine inspec tion of all sources of water supply in thei area, frequently inspect water point, instruct the water-details on water-points in their duties, test water carts, tank etc and report if the necessary instructions with regard to chlorination ere being carried out, report if water points are unpicqueted, post notices on the various sources tested (Attached copy of some of the notices used), report daily on the work done during the day, giving full details of the various sources ste. and mark same on their maps and on the office map of their areas (Attached copy of proforma water report and map). They further may be required to give special reports on various water sources that information may be required of.

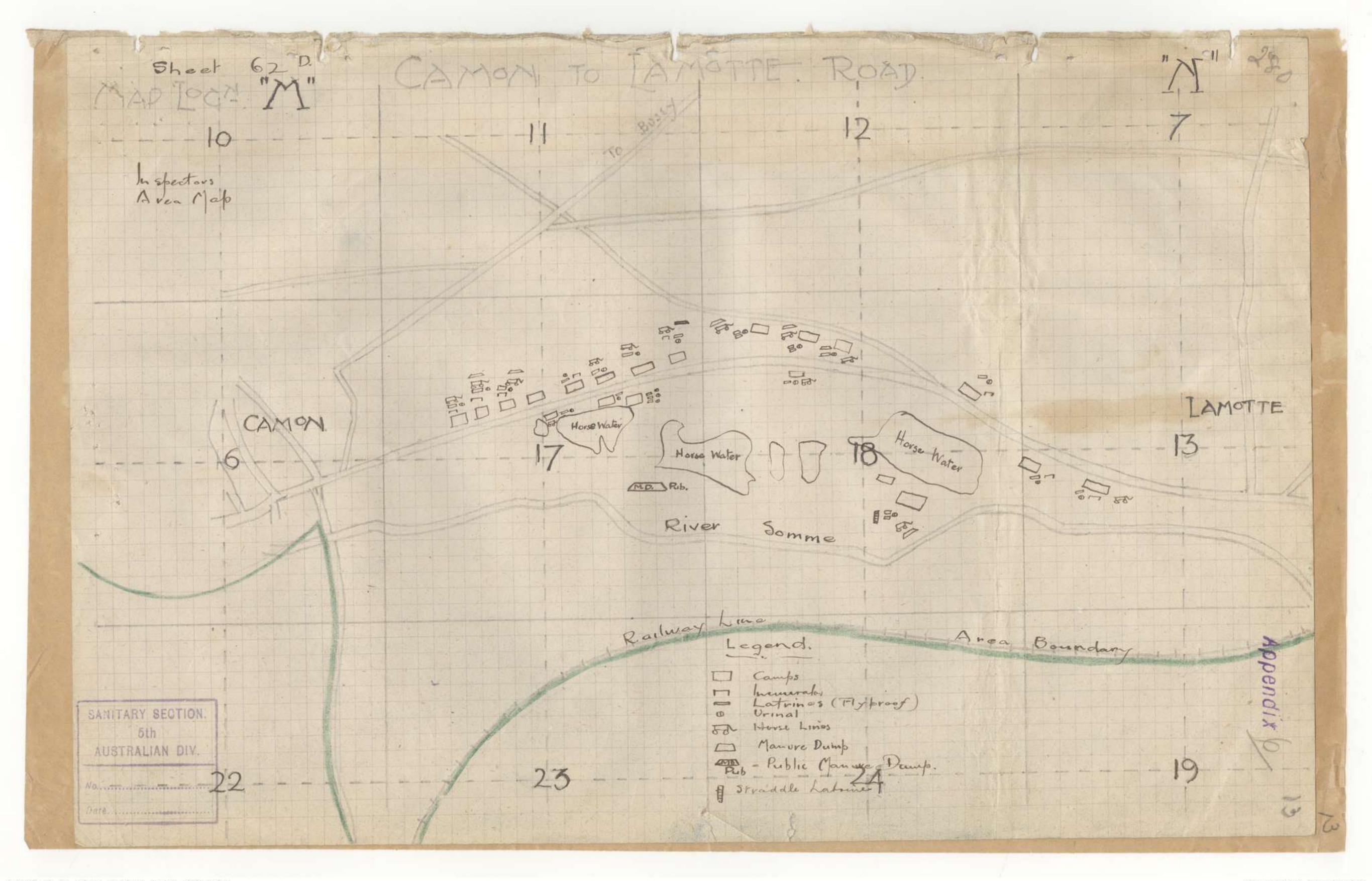
Each inspector has a Water Testing case, which he carried round with him and uses for the testing of supplies and the information with the respect to labelling.

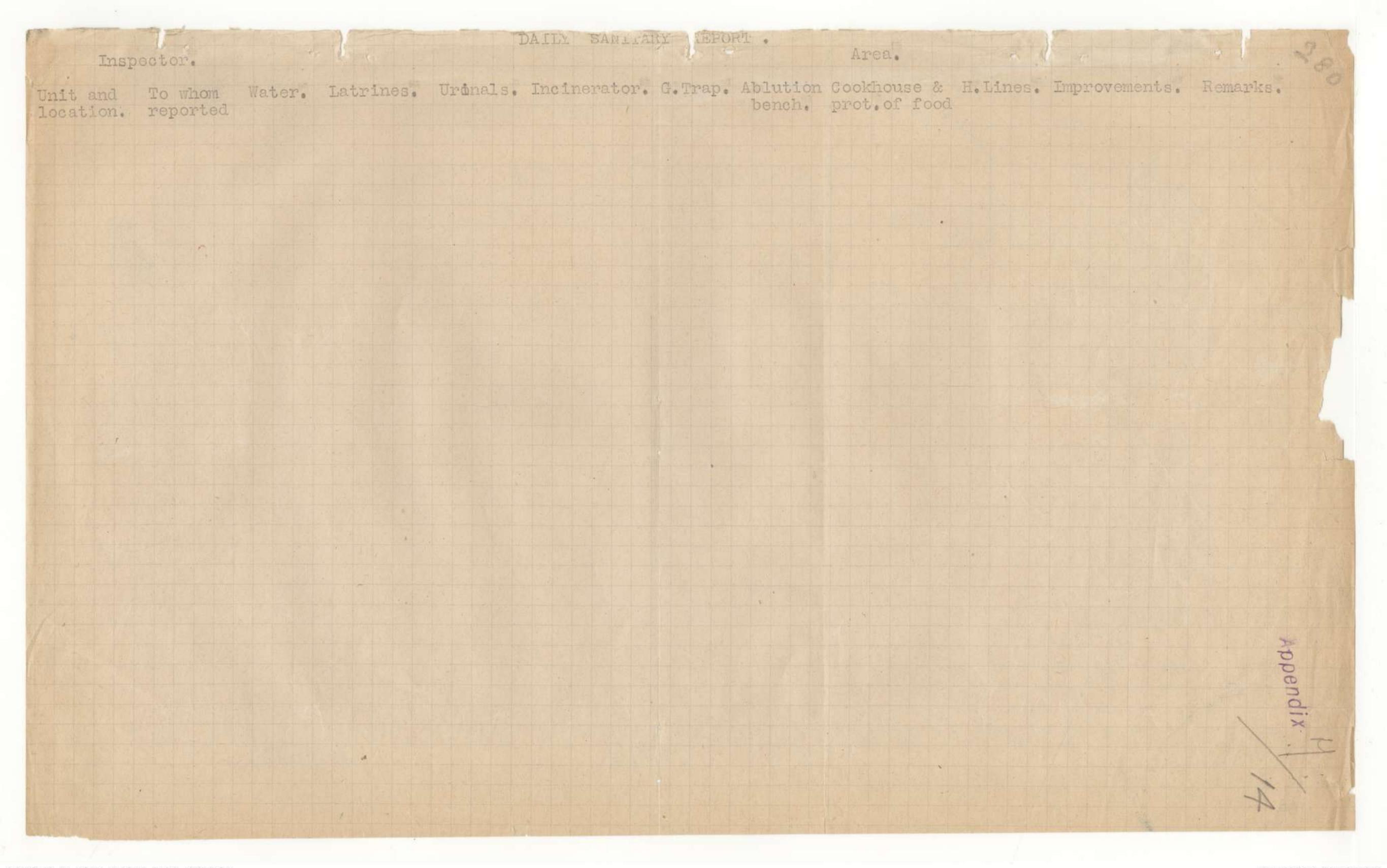
Inspectors have been strongly impressed with the fact that Inspection of the summer of oundings of any water source is of more importance in gauging the purity of th water than can be guaged by the Horrocks test Box. In cases of water supplies insanitary surroundings, whatever the result of the Horrocks Test, the water is Further examined by having a sample taken and sent to the nearest Bacteriologal

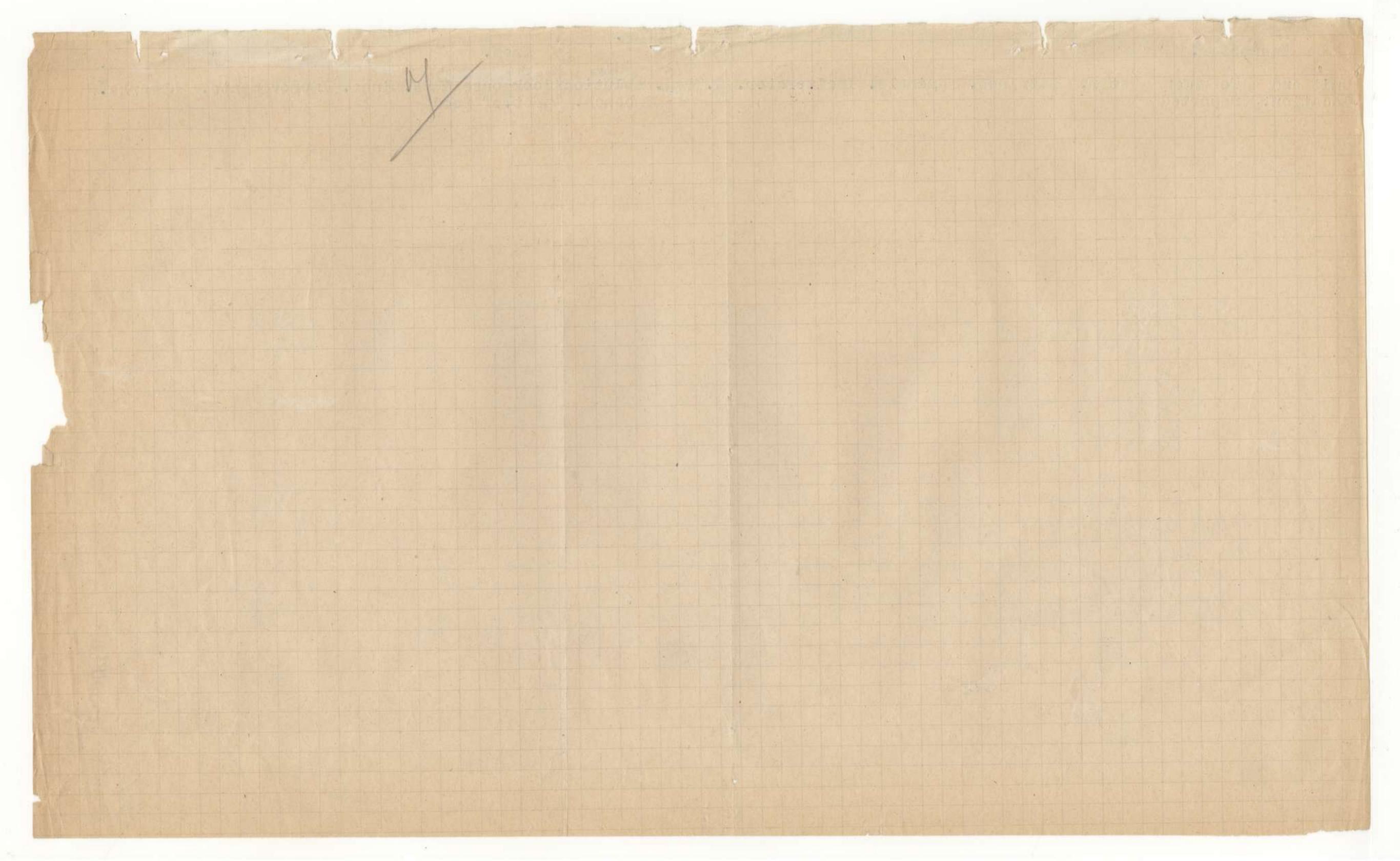
Appendix 5

Further no running water is labelled by inspectors, as fit for drinking or cooking purposes (as many epodimics of digrrhoea etc were traced to this source in the Kermel area Nov 1917- March 1918). The poison testing case is not much used. These were used in testing various weres in captured German territory in the vicinity of the Hessines ridge and were also use in testing various wells after the retreat of the germans beyond Bapaume in the beginning of 1917. No positives tests for poisons was found in the Messines Ridge series. In the case of positive tests the procedure would be to labell the well and then forward a sample of the water on to the nearest Hygiene Laboratory for examination. This test is liable to the fallacy that the black stain mentioned in the arsenic test is often similated by a charcoal stain. The arsenic stain is however denser and presents a looking-glass appearance. The arsenic stain is also insoluble in the Hydrochloric acid solution. Reference the Water Points in an area. In areas where there is a pipe line sup ly and catchment areas (e.g. Kemmel, Scherpenberg etc) or main supplies from wells street etc., The main source is usually inspected dally and tes-t samples taken from the to time for bacteriological exam., the tanks are inspected at frequent intervals notices are checked, takks are tested to see if they have been chlorinated according to instructions and the water picquet is supplied with chlorinating powder if inccessary. The instructions issued to each water picquet is attached. Water inspectors also inspect and test to see if they have been chlorinated water carts and report on the same. They also instruct where necessary the methods required to chlorinate water in small quantities, e.g. in water tins, petrol tins dixles etc., (Copy of these instructions are attached to the monthly report for this month). d. Workshop. Section. This varies according to the area and the amount of work required. At present there are 2 carpenters, 1 plumber, i signwriter. The carpenters are increased by having attached several carpenters from brigades in the area requiring a lot of work to be done. Fourth Army Standing Orders Part 1 para 966 in laying down the duties of a sanitary + Section states. "A Sanitary Section is not responsible for, and is not in a position to carry out, ... the provision and the erection of the various sanitary appliances that are necessary in an area. Every unit must be able to maintain satisfactory sanitation with improvised appliances until more permanenet structures have been supplied." Bara 967. states. "In order to standardise sanitary appliances and to prevent waste and misuse of R.E. materials, the following instructions will be followed; --(a) Sanitary officers of areas will control the demands of units for R.E. material for constructing sanitary appliances. (b). Application for sanitary appliances will be submitted to the O.C. sanitary ser ion of the area. The applications will state ration strength of the unit, and number and description of sanitary appliances already on charge. (c). The O.C. Sanitary Section will then make out the indent for the neccessary stores, which will be issued by the Chief Engineer of the Corps or by the C.B. Army Troops. (d). The sanitary sections will instruct units in the methods of constructing the appliances. From these orders it is obvious that sanitary sections were never intended to be responsible for the construction and provision of sanitary applances in an area. and further their establishment does not provide for any tradesmen. However from a number of sanitary sections that have been seen all have workshops, and some sections confine themselves almost exclusively to workshops, almost three-quarters of the members of the unit being employed as carpenters, plumbers etc., In the B.E.F. all O.C. Sanitary Sections are not medical officers and there are quite a number of sanitary engineers as O.Cs. These officers naturally tend to make the workshop portion of their units the larger portion. Experience has shown that both the paras quoted above will not provide for a very satisfactory sanitation of an area and that the most satisfactory system is ore where the inspectors can arrange direct with a unit to have the requirements in the or drawn. In these cases the supply will naturally be controlled by the sanitaly section. As it is impossible to meet the demands of an area with the made lating seats that can be drawn from the Engineers, it has been hecessary to have workshops at the sanitary sections for the purpose of constructing the necessary requirements that cannot be made at units. That Under the present arrangement if the workshops are maintained up to their required it results in a lack of inspectors. As it is considered that this is notadvirul the inspectors have been maintained as many as possible and the workshops inclose by obtaining carpenters from the various units in the area. Whilst it is extremely advisable that a Sanitary Section should always have a of sanitary material on hand for issue to units, beyond having an expert carpents it is considered that a workshops of any size should really have not to be mainted as it really interferes with the proper functions of the unit.

Probably the ideal system would be to have in addition to the various Sanitary Sections in a Corps to have also a central Sanitary Workshops' section controlled by a sanitary engineer who would be responsible for the making of all sanitary appliances and the issue of these to the various sanitary sections in the corps for issue to units. The Sanitary Sections would then require one expert carpente two expert sanitary plumbers, who could both be used as plumbers as required or forel giving opinions on matters in regard to various sanitary matters that are required from time to time concerning the sanitation of towns, of houses etc. At present the greatest difficuly is in obtaining either made sanitary material or material for making these. A certain small supply is drawn from the corps Dumps and a certain number is made at the Sanitary Section workshop and a certain number is made by units. To save material arrangements have been made with various dumps for the supply of all empty non-returnable boxes.e.g at the present moment arrangements have been made with the 4th Aust Div., to have all these boxes delivered to the unit, with the S.S.O. 5th Aust Div for keeping them at the dumps until drawn by the unit, and with O/tn charge Corps Troops Dumps to retain all honreturnables until called for by the unit, in addition in this area a dump of sanita material was found at Corbie. This was used for the supply of the forward area and as this is practically now complete and there was a likelihood that the dump may have been destroyed by shell-fire the dump was salved from there to Bussy. Material is also drawn from time to time from the C.E. Corps or from C.R.Es of Divisions as may be required from time to time. Particulars of the various plans of samitary appliances made by this unit have been forwarded from time to time with the war diary or with this units records to the Australian War Records Section. General. The above takes in most of the activities of a Sanitary Section on a broad outline from the sections view. To the War Diary will if possible attached a short account of the relations between an area commandants and the sanitary section. The above refers mainly to a samitary section in a forward area and particularly an area like the present where there are practically no civilians. In back areas where there are civilians the Sanitary Section is responsible that measures of civilian sanitation are maintained. This when large towns are included in an area takes up a large portion of the Units time. The inspection of mineral water establishments, breweries and estaminets are also included in the duties in these areas. When moving from one place to another and not being located in any one spot for any length of time, the most convenient arrangement is to have 1.N.D.O. 41nspectors and a water-inspector attached to each Brigade, to move with them and to be respect sible for the inspection of the brigade and to report to the Sanitary Section headquarters daily er-te-the-Staff-Captain-of-the-Brigade-if-this-is-het-res-ible. O.C. 5th Australian Sanitary Section. Major. Attached. nit Inspectors Map. Pro-forma of Inspectors report. Copy of a covering report. Fit for Drinking Notice. Tested Poisonous. Unfit for Drinking Notice (none available). Pro-forma water report and map. Instructions issued to water picquets, Instructions for the chlorination of water in petrol time etc. (attached to Menthly report for May 1918).







Sub. Section N.C.O's Covering Report on Porward Area. Appendix ... To 6.0 5th Aust Santary Section Herwith attached Inspectors reports on Forward area Defects

13th Fld ambulance 1.x 6 1x1 box fly proof Latrene "Uninals

Defects 46th Btm HQ a Defails 1x4 1x5

Defects

Hamlet. 4th Fld boy Engrs using Pololefatione Gromwed to ench

Tourley Jomp. 4th ALT Ma B 1x1 box seat Latrenes, replacing level Latrines

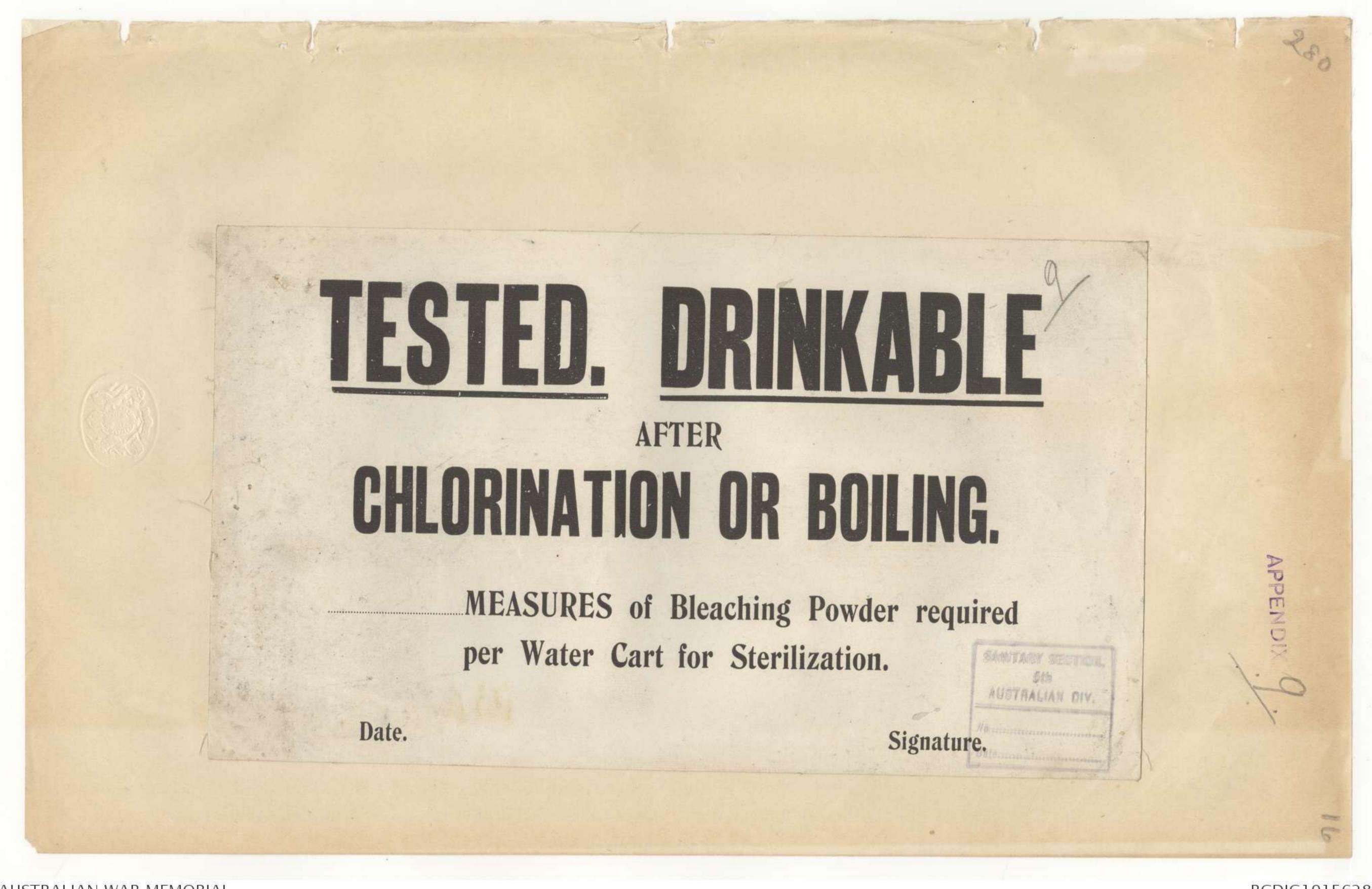
Hamlet 15th Btm R.A.P. 1x1 box seat Latrenes Ret a pole latrene

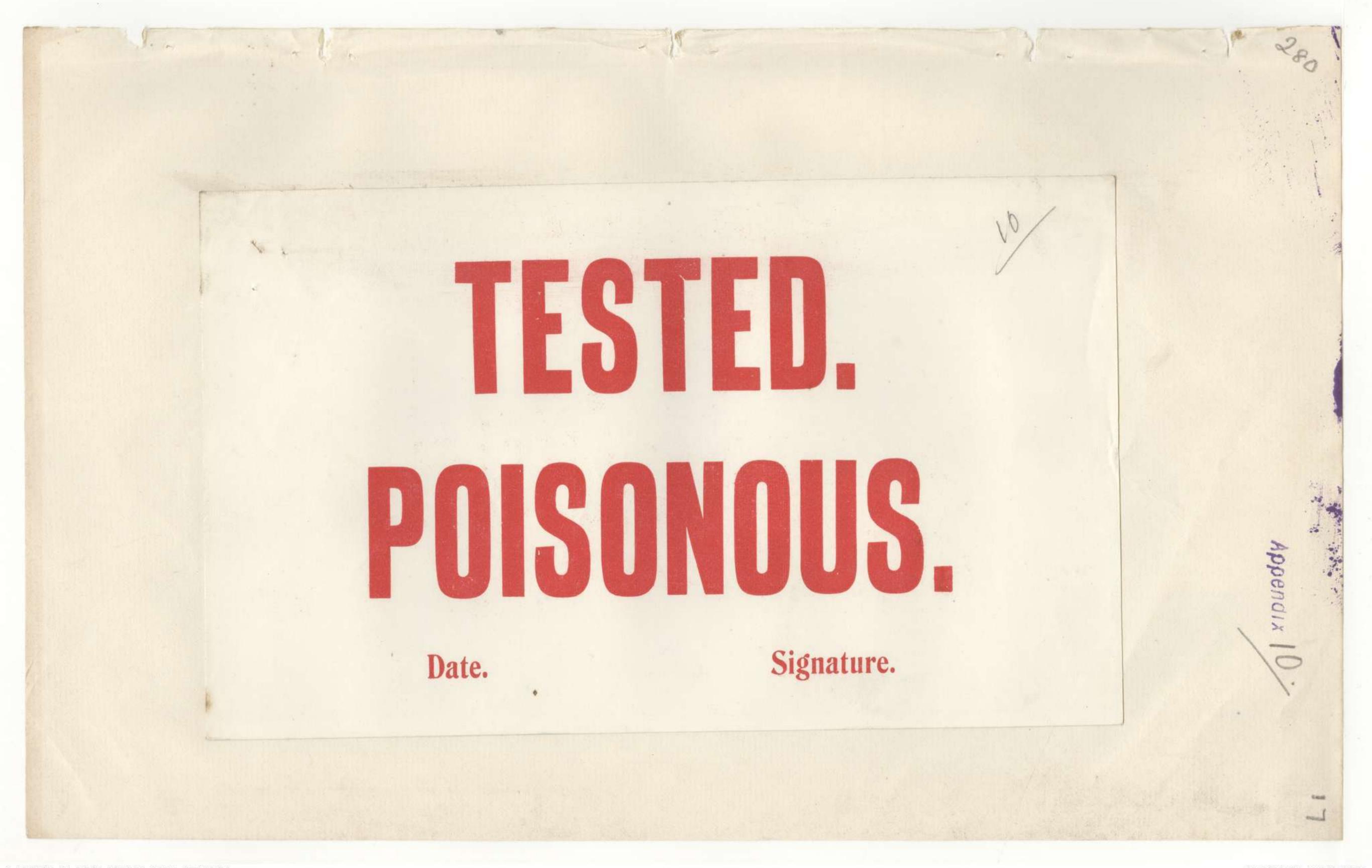
La Henville ... 15th Btm R.A.P. 1x1 box seat Latrenes Ret a pole latrene

La Henville ... 15th De 1x1 box seat Latrenes Ret a pole latrene

La Henville ... 15th Btm R.A.P. 1x1 box seat Latrenes Stemple latrene

La Henville ... 15th De 1x1 D 4th Dio Traffic Control 1×1 Do · Clampes 4th. Salvage 1x1 De 13th Byde Lieguet evacuated billet leaving same in Corbie an insanitary Condition! Town bajor has promised to have the bellet cleaned. No 18 beleet reported left duty by 4th Lon has been to Busay. by Journ Mayors fatigue Imp. 4th S. Details 19 Trap. 4th Dw Sigs 1x2 box seat Latrine 19 Frap 4\* M. G. 21 Q. 2 X 1 Do 1x6 Tublic Latience at water Toint Latine scats a hession is urgently required in this area supply at this post eschausted. Units unable to be supplied with seats are removing same from innoccupied bellets a causing of good deal of trouble. Latine seats tops & timber can steel be salvaged at borbee is transport can be supplied







5

5TH AUSTRALIAN SANITARY SECTION.

WATER REPORT.

(Wells inspected 24-5-18)

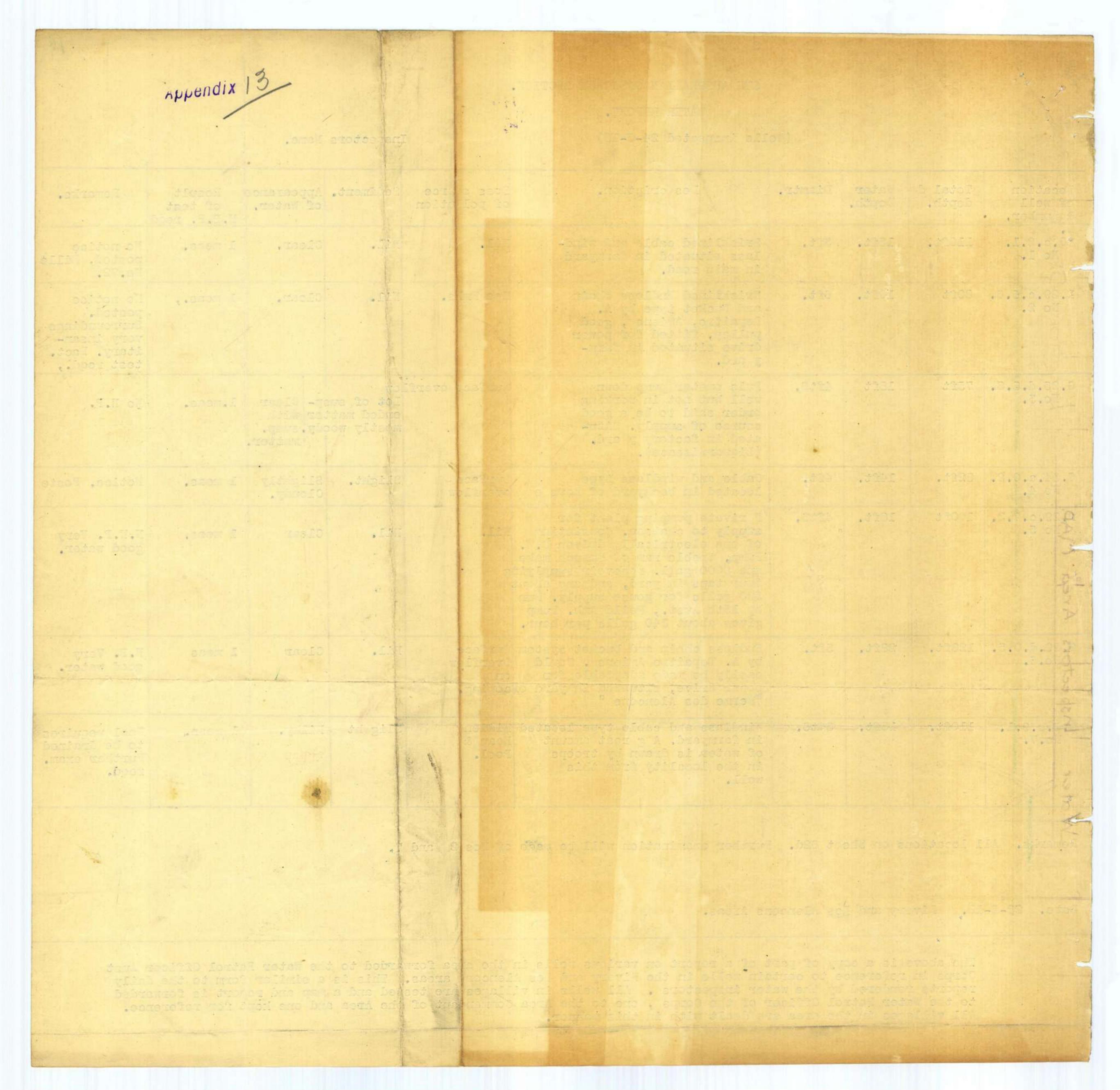
Inspectors Name.

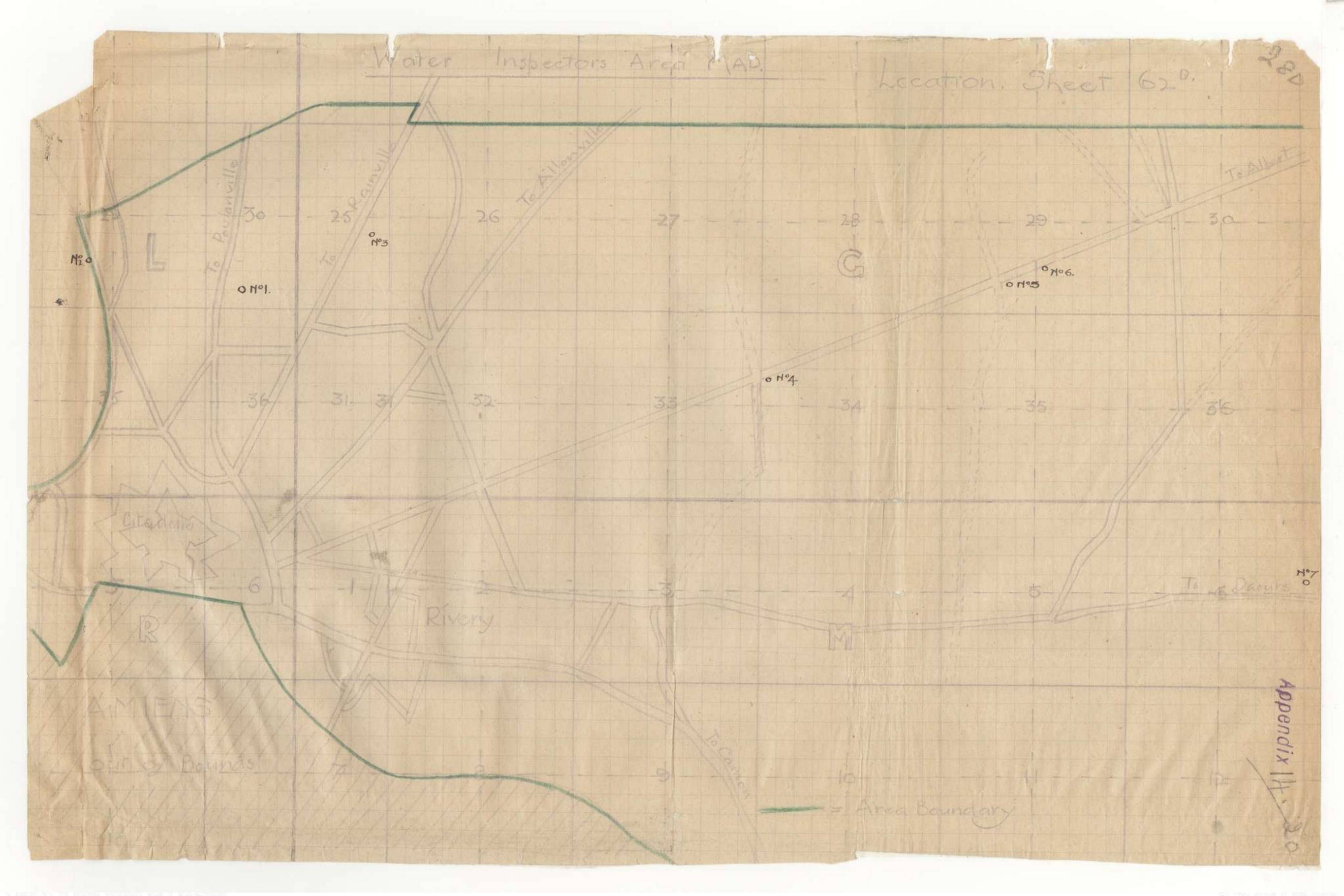
						1		-	The second secon
Location of well & number.	Total d depth.	Water Depth.	Diamtr.	Des cription.	Poss source of pollution	Sediment.	Appearance of Water.	Result of test N.B.P. read	Remarks.
50.c.2.L. No 1.	llOft.	15ft.	3ft.	Bricklined cable and wind- lass situated in farmyard in main road.	N11.	Nil.	Clear.	1 meas.	No notice posted, Bille No.72.
L.29.c.6.6. No 2.	80ft	10ft.	6ft.	Bricklined Endless chain and Bucket type by A. Lepaitre, Amiens, good pulley, fitted for power drive situated in farm-y ard.	See Rmks.	Nil.	Clear.		No notice posted. Surroundings very insanitary. Bact. test reqd.,
G.25.d.8.8. No.3.	75ft	18ft	4ft6.	Puls ometer pump down well but not in working order said to be a good source of supply. Situ- ated in factory y ard. (Liquarrissace).		Lot of sus ended matt mostly woo	er with		No N.P.
G.34.a.0.2. No 4.	82ft.	14ft.	4ft.		Surface overflow		Slightly Cloudy.	1 meas.	Notice. Poste
G.29.c.7.3. No 5.	100ft	18ft.	4ft6.	Private pumping plant for supply to chateau. Consisting of one electrically driven D.W. Pump, treble ram of French make one 2000 gall. resevoir supplying four taps in yard, and one about 500 galls for gouse supply. Run by 15th Aust., Feild Amb. Pump gives about 340 galls per hour.	g	Nil.	Clear	1 meas.	N.N.P. Very good water.
G.29.d.0.5. No.6.	128ft.	28ft.	5ft.	Endless chain and bucket system by A. Lepaitre Amiens . Could easily be made adaptable for power drive, situated in yard of "Ferme des Alencons"	Overflow on	N11.	Clear	1 meas	N.P. Very good water.
M.6.b.9.1. No.7.	llOft.	15ft.	3ft6.		Midden Heap & Pool.	Slig ht	Milky.		Pool requires to be drained Further exam. requ.

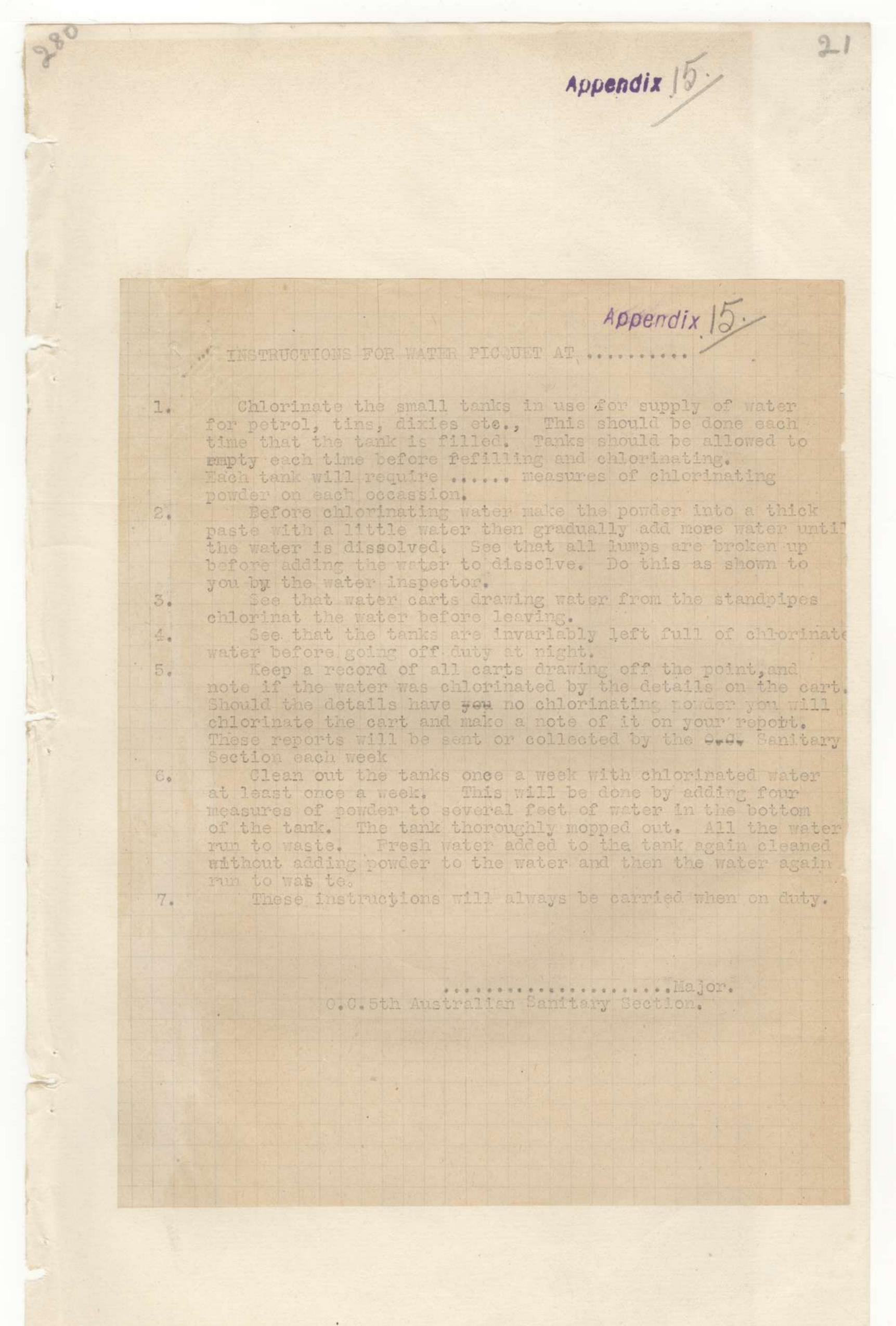
Remarks. All locations on Sheet 62d. Further examination will be made of Nos 2 and 7.

Date. 25-5-18. Rivery and Les Alencons Areas.

The above is a copy of part of a report on various wells in the area forwarded to the Water Patrol Officer Aust Corps in reference to certain wells in the Rivery and Les Alencons areas. This is a similar form to the daily reports rendered by the water inspectors. All wells in villages are tested and a map and report is forwarded to the Water Patrol Officer of the Corps, one to the Area Commandant of the Area and one kept for reference. All villages in the area are dealt with in this manner.







Appendix. 6

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DU/N/2288/109/6.

Director General Medical Services British Armies in France.

In accordance with your D.G./N/2288/109/6 dated 8.4.18, I have carried out some experiments on the lines suggested. A site consisting of sandy loam was selected and in the ground a chamber 8 feet long, 6 feet wide and 7 feet high was dug. Access to the chamber was by means of a doorway about 2 feet wide and 7 feet high at one end of the chamber. Am approach to the entrance was out in the ground.

The chamber was roofed in with wooden beams and corrugated iron over which a layer of earth was spread.

The doorway of the chamber was closed by a sheet of corrugated iron sliding vertically in grooves cut in the wall at the entrance of the chamber.

Two simple stoves made out of oil drums were placed in the chamber one in each of the far corners with flue pipes leading vertically upwards through the roof to about two feet above the layer of soil on the roof.

The temperature of the air within the chamber was observed by means of a thermometer suspended in the centre of the chamber one foot from the ground. The thermometer was illuminated by means of an electric lamp and the temperature could be read off through a small glass window inserted into the sliding door of the chamber.

For experimental purposes, instead of garments, folded sacks were utilised and the temperatures attained within the folds of the sacks were determined by means of glass tubes containing substances which melted between the following temperatures.

53°0. AWAYD BO DAS STEEN BROLLESTONGS COM 5100 5800 - 6000. 6400 -68°0 - 70°0. 7500 - 7700. 82°0 - 85°0.

Several experiments were conducted and the following are the o worseings to open sonathers or or details of a typical one.

The fires in the stoves were lighted and a sot of temperature recording tubes covered with 4 layers of sacking was suspended in the centre of the chamber midway between the ceiling and floor. Another set of tubes similarly enveloped in sacking was placed I foot from the ground near the door and a third set was placed in two folds of sacking against the wall of the chamber. The temperature of the outside air was 1200. The door was then closed and the rise in temperature of the air within the chamber was observed through the window in the door. The following readings were noted:-

1n	minutes	Temperature
0		2000
A		6000
W		7000
		7500
		8000
		8500
		8890
		9000
		9200
		9300
		9300
30		
	0 4 7 8 9 10 12 16 20	8 9 10 12 16 20 25

APPENDIX.

From time to time the fire in the stoves was fed by dropping small pieces of coal down the flues. Sufficient air to maintain combustion entered the chamber through the grooves in which the door slid.

At the end of 30 minutes the door was opened and the sacking with temperature recording tubes was removed. It was found that the temperature wan attained within the folds of sacking in the centre of the room ... and also within the sacking near the door had melted the contents of all the tubes except the highest that is to say had risen to above 7700., but not so highes 82°C. None of the tubes against the was melted so that the temperature there did not reach 51 - 5300. This was to be expected as earth walls are damp and cold and readily cool the air in contact with them.

In other experiments in which the tubes were placed in paper envelopes none of them was melted even though they were not wrapped in a sacking so that a covering of paper sufficient to prevent their attaining a temperature of 51-53°C. within half an hour notwithstanding the fact that the surrounding air was at a temperature of over 9000.

A lousy shirt boing hung loosely in the chamber was novertheless disinfosted; all the lice were killed.

There is always a certain amount of difficulty and uncertainty in raising articles to the temperatume of the surrounding air in a hot air chamber within a short time. This is due to the low specific hoat to the articles to raise their temperature quickly. This defect can be counterbalanced to some extent by artificially circulating the hot air by means of a fan but such a device is not admissable in a disinfestor, of this kind whose chief recommendation is simplicity of improvisation.

The conclusions which can be drawn from these experiments are that a chamber of the kind described has certain inherent defects which cannot be overcome by simple moans. It may however serve for disinfestation in an emergency if suitable procautions are observed. Clothes should be turned inside out and suspended loosely at a distance from the walls of the chamber with ample air space between each articlo. Under these conditions the accommodation of the chamber is somewhat curtailed bat at might nevertheless be useful in circumstances where a more efficienct type of disinfestor cannot be improvised.

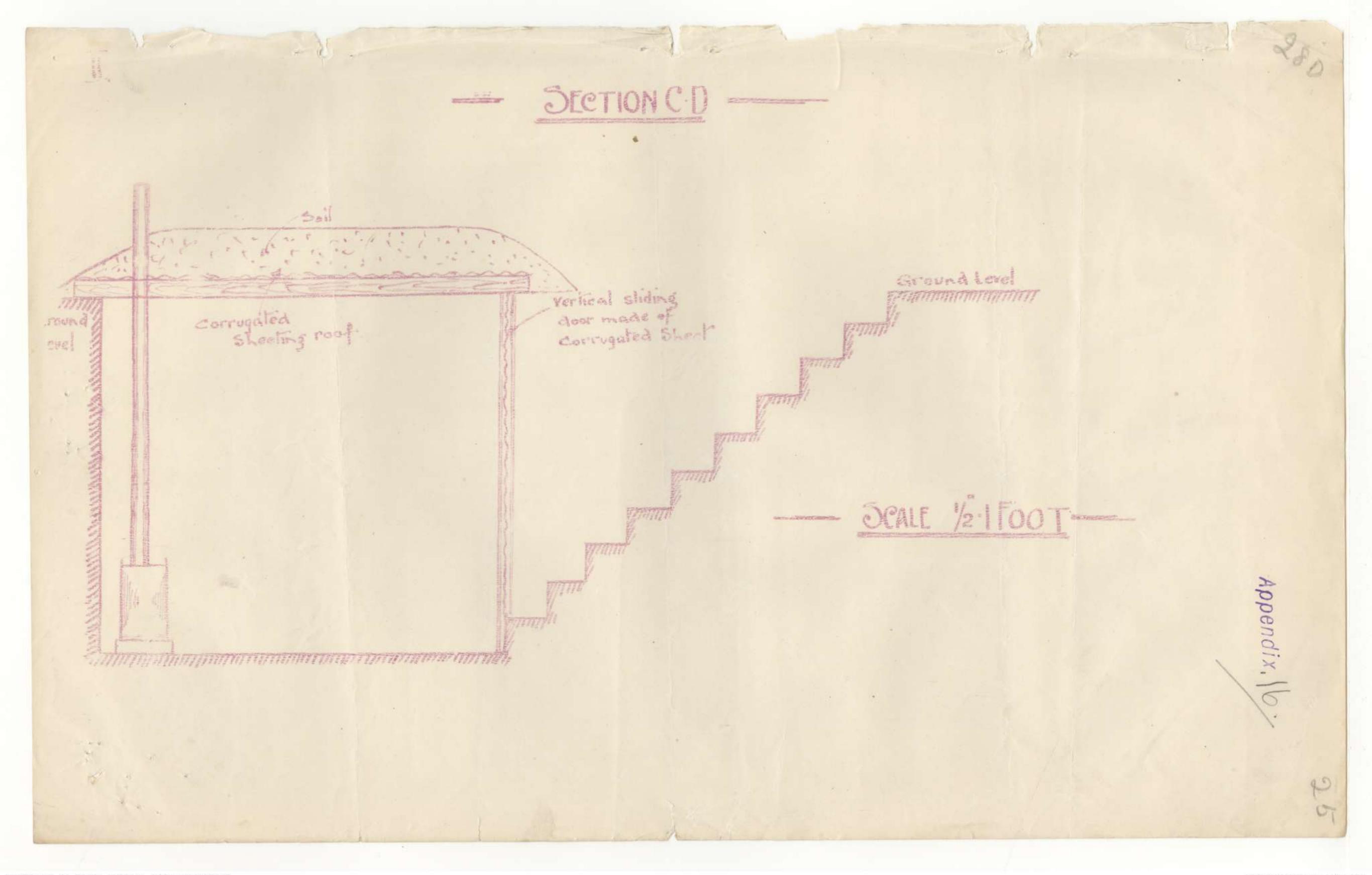
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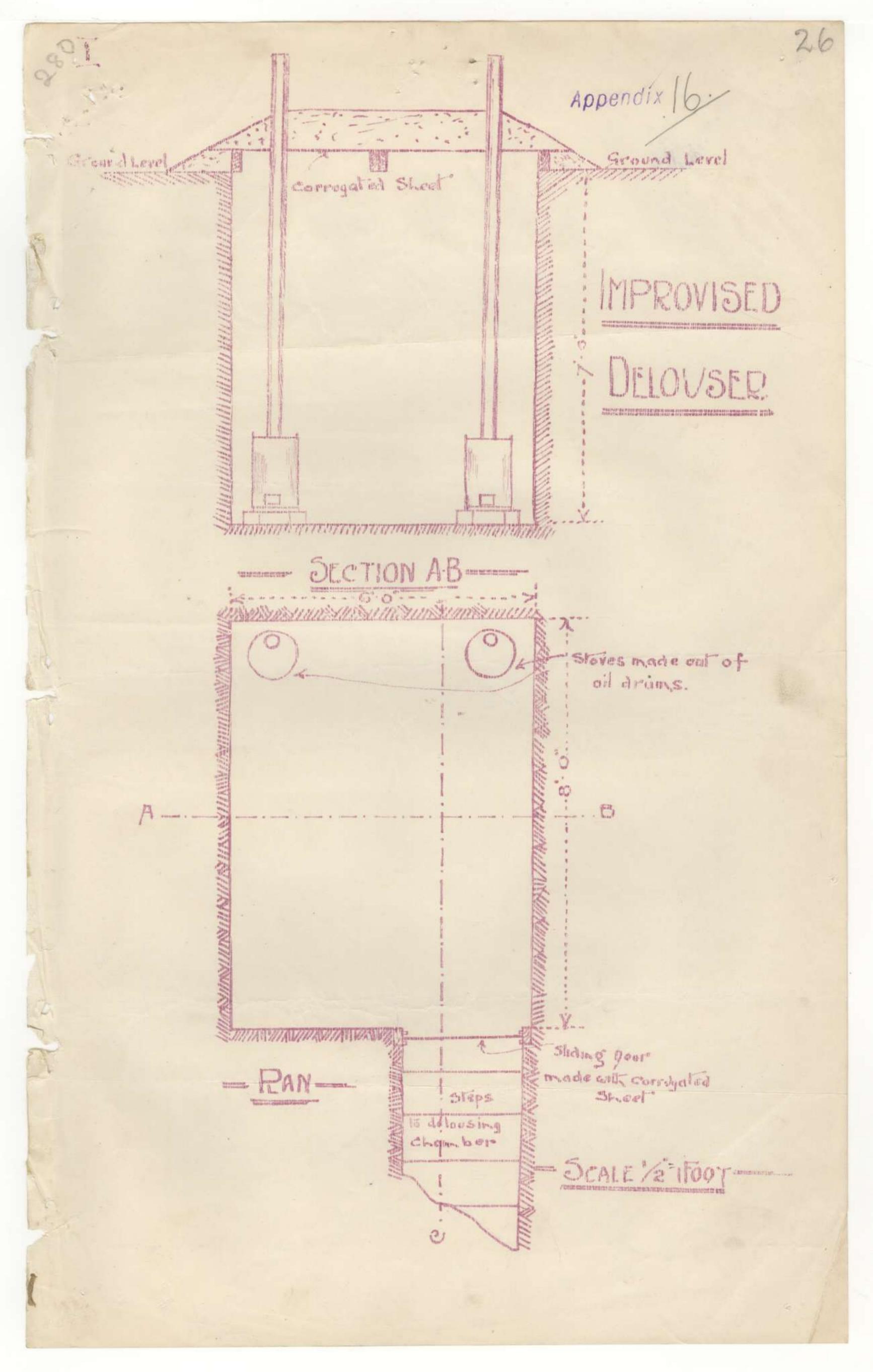
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H.Q.,L.of C. End May, 1918.

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section to at east.





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			1110							A Paragraphy			
	5.			64	302t	Bricklined hooded civilian well with wandles rope and bucket. Later 15ft	Surface	overflow	A	Glear	1 meas	Approac	
2 3	5.			65			Surface	overflow	fix			Good or	a
				66	3024	Civilian well with endless chain and bucket			NAL.	low ow.discolor	1 11	11 11	
5 1				67		water loft. Sft Coping. Approach unsuitable Civilian puth and covered well	for wate	r carts.	Mil	clear	1 0		
13	de		osse	3									
2 5				68	302t	Bricklined hooded vivilian well windlass .	Surface	overflow	Mil		2 11	Approac	2
EIC	3	2 !	5	69	sort	Bricklined civilian well, endless chain and buckets. Water 20ft		12	Hil		7 13	n	
	6	æ (	8	70	SOft .	Bricklined hooded well windless rope bucket	NII		Mai		1 11		
				199		Water 15ft. Suitable for water carts.	1759		-		w 12		
N IN				F9 (3)		Civilian pump & covered well	Nil	Acres 23 am	120	**	9 55	Ti I	
10	18	82	20	73	302%	Brightlined hooded well windlass rope bucket		overflow		o white sedim	T IS	11	
	7			74	4026	Bricklined well with rope and bucket also pump receiving supply from side shaft of well		overflow	1111	shtly discolor.	8 4		
10	de	L	t Egw	tont 76		water 15ft. Bad approach to well Givilian pump scaled well. Approach unsuitb			DII	clear	13		
2	6			75	SOFE	Bricklined well windless rope bucket. Water 10ft. Approach unsuitable for carts	2012		1111		1 11		
2 7	1			777		Civilian pump and scaled well	Wil		Nal	13	3 17	Good ap	7
2 57 50	0			78		" In kitchen	NII		Mil	ti ti	2 17	Marie Marie	
10	de	1	Egl:	se									
2 2				79		Civilian pump and sealed well	Surface	overflow	200	ti ti	1 11	Bad app	2
3 2	2			83		· · · · · · · · · · · · · · · · · · ·	Hil		mi	to to	7 17	n	
7.3	2			82		12 13 13 13		overflow	gin	e yellow	9 12	Bad	10
3	4			83	30ft	Bricklined civilian well with windlass rope and bucket. Diam 48to. Depth of water 15ft.	Surface	overflow	Til	alear	1 0	11	
2 2		2	a eus	84		Pump and soaled well	M21		UAR		7 . 11	D	1
7 9	THE SAL			OF		12 72 22 22		ASSESSED AND	Town or	The second second	6 11		1
62.2				86	302%	Bricklined well overheed pulley, block rope	H11	overflow	1122		į n	No	
2	3			87	SOSt	and bucket. Water 15ft. Diem., 4ft Dricklined wellwindlass rope and backet	MII .		1121	11 11 11 11	2 10	No	
1	-			-		Water 15ft. Diem 4ft					13.44		
2 50	5.5			88	3024	Pump and sealed well Bricklined well, windless rope bucket water	Surrase	overgon			9	Bad	

AUSTRALIAN WAR MEMORIAL

