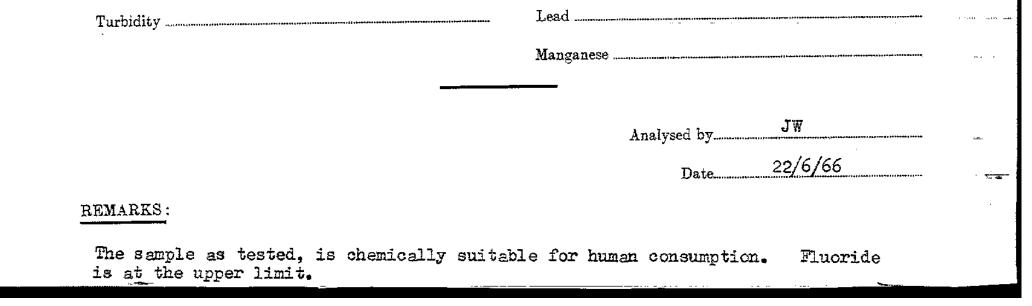
NORTH		INISTRATION-WATER RESOURCES BRANCH
NORTH	HERN TERRITORY ADM	INISTRATION-WATER RESOURCES BRANCH
	WATE	ER ANALYSIS
,		
Sample No. 8087		ceived in Laboratory21/6/66
Time and date of samp	ling2/6/66	
Location and details	Cabbage Gum Bore190	DE/90N second water - depth 135'
		I.N. 40/214
Analysis in parts per mill	lion— p.p.m. (unless otherwi	se stated)—
		Taste and odour
Conductivity (Micromb	817	7•75
Total dissolved solids	<b>C</b> 4 4	Hardness, total
		172
Suspended solids	****	Hardness, temporary 172
Suspended solids		Hardness, temporary Hardness, permanent
Suspended solids	91 11 ye- / e 1) <del>380 aa to ba</del> r / Y an ang ye baad an	Hardness, temporary Hardness, permanent Cations—
Suspended solids	66	Hardness, temporary Hardness, permanent <u>Cations</u> Sodium120
Suspended solids Total solids Anions— Chloride Sulphate	66 60	Hardness, temporary  172    Hardness, permanent  - <u>Cations</u> -    Sodium  120    Potassium  28
Suspended solids Total solids Anions— Chloride Sulphate	66	Hardness, temporary  172    Hardness, permanent  - <u>Cations</u> -    Sodium  120    Potassium  28
Suspended solids	66 60	Hardness, temporary 172 Hardness, permanent Cations Sodium 120 Potassium 28 Calcium 32
Suspended solids	66 60 21	Hardness, temporary  172    Hardness, permanent
Suspended solids	66 60 21	Hardness, temporary  172    Hardness, permanent
Suspended solids	66 60 21 156	Hardness, temporary  172    Hardness, permanent  - <u>Cations</u> -    Sodium  120    Potassium  28    Calcium  32    Magnesium  22    Ammoniacal nitrogen  -    Iron  0-1
Suspended solids	66 60 21 156	Hardness, temporary    172      Hardness, permanent    - <u>Cations</u> -      Sodium    120      Potassium    28      Calcium    32      Magnesium    22      Ammoniacal nitrogen    -      Iron    0.1



Page 1 of 11.

	NORTHERN TERRITO	ORY ADMI	DUPLICATI NISTRATIC R AN	DN-ANIMA	SIS 4 214
•	rigin of WaterTENNAN semples:Bore190- Pate Sampled10/-3/6-	-80		Specimen Ac	N. 61/533 lvice Note No ed 17/3/61
		Resul	ts in parts p	er million	
	" Tem	l · iporary · · nanent ·	 	····	- 158 - 158 - NIL - 87
	CHLORIDE SULPHATE	••••	••• •••	• • • • • • • • • • • • • • • • • • •	55 27
	FLUORIDE CALCIUM			,	·····27·····
	BICARBONATE CARBONATE		••••	·····	-299 MIL
	SODIUM POTASSIUM		,		<del>8</del> 7 25
	MAGNESIUM NITRATE	**** ****		••••	
	NITRITE AMMONIA	,	····· ····	(***	
			•••••		

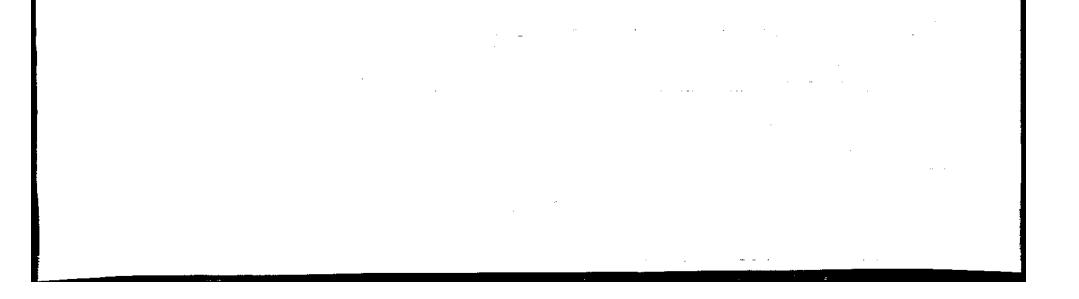
General remarks of Analysing Officer with particular reference to suitability of the water 1 for the purpose for which it is stated to be required. ÷ The sample, as analysed, is chemically mutable for human consumption, except for KNIXX infants under one year, where an alternative low-mitrate source would be desirable. Signature <u>18.4.61.</u> Date Ŧ ÷ 6,250 ppm. equals approx. 1 oz. per gall.

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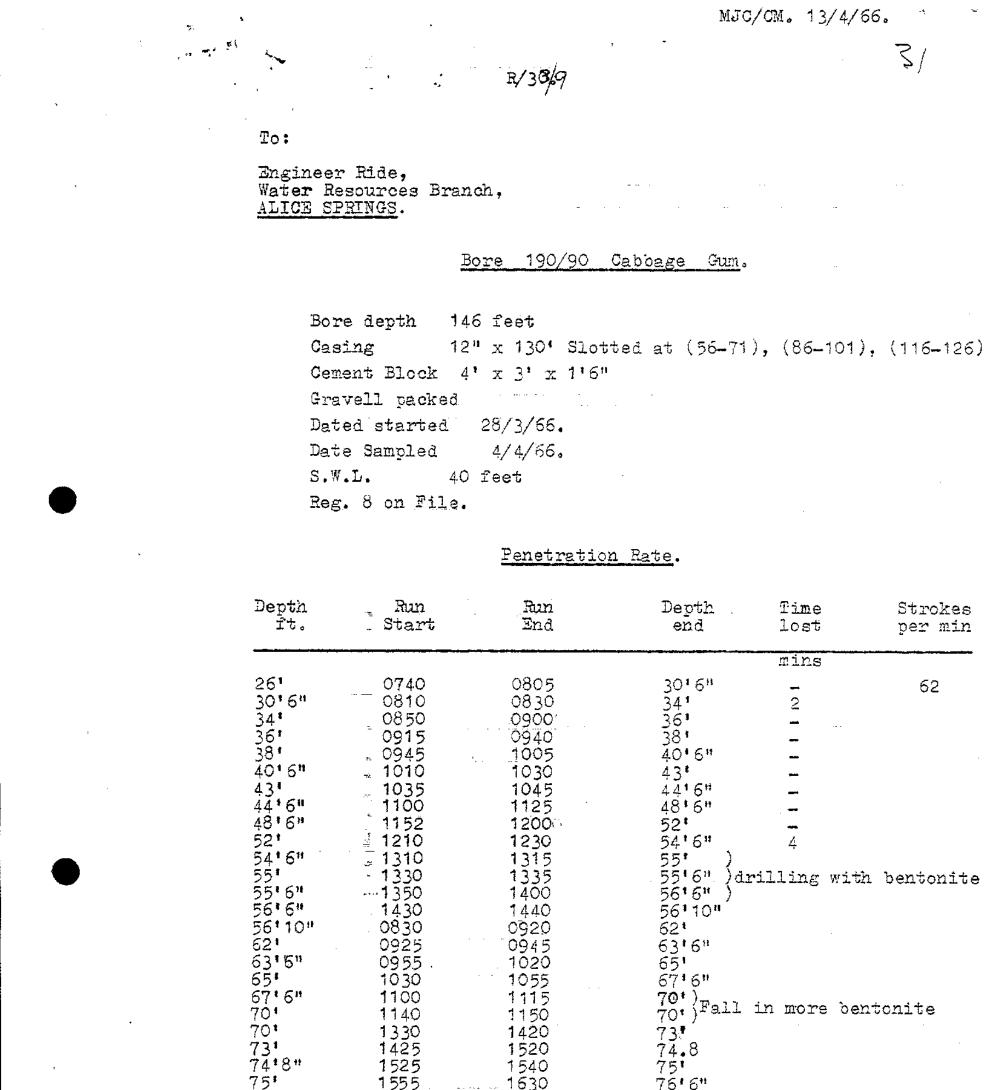
	E53/14 - 312 <u>CABBAGE GUM GRID</u> <u>190/90</u>
Depth	40/214 Description
0 - 3	Soil horizon; clear & rust coated, rounded to angular very fine to coarse quartz sand in a clay matrix. Some small crystalline - rock fragments A rusty red clayey sand.
3 - 9	As 0 - 3' but contains many poorly rounded limestone grains of fine to medium sand size.
9 - 12	Quartz and limestone grains of fine to coarse sand sized and poorly rounded. Appear to be rounded grains of sandstone present. An orange-buff coloured clayey sand.
12 - 20	As 9 - 12' but with no limestone.
20 - 35	As 12 - 20', buff coloured.
36 - 40	As 12 - 20', buff coloured.
40 - 46	As 9 - 12', but with some limestone and buff coloured.
46 - 59 59 - 62	Missing Very fine sand to small pebble angular to very well rounded (spherical grains) of milky and ferraginous quartz grains of white, yellow and brick red colours. Some small rock fragments of quartz cemented by ferruginous material. An orange-buff slightly clayey sand.

	- 2
75 – 78	Sub-rounded to rounded, medium to coarse grains of quartz sand in a clay matrix. A greyish yellow clayey sand.
78 - 86	As 75-78, but with angular fine quartz sand rock fragmen $\pi$
86 <b>-8</b> 9	As 75-78', but with much iron staining, and some chalcedney fragments. Colour is deeper.
89 - 91	A regular to sub-rounded, medium sand sized quartz grains. A light orange coloured sandy clay.
91 - 93	Sub-rounded to very well rounded medium to coarse sand sized particles of white and iron stained quartz. A light yellow sandy clay.
93 - 10 <b>3</b>	As 91-93', but a slightly browner colour.

M. Freeman.



Bore Report RN005401

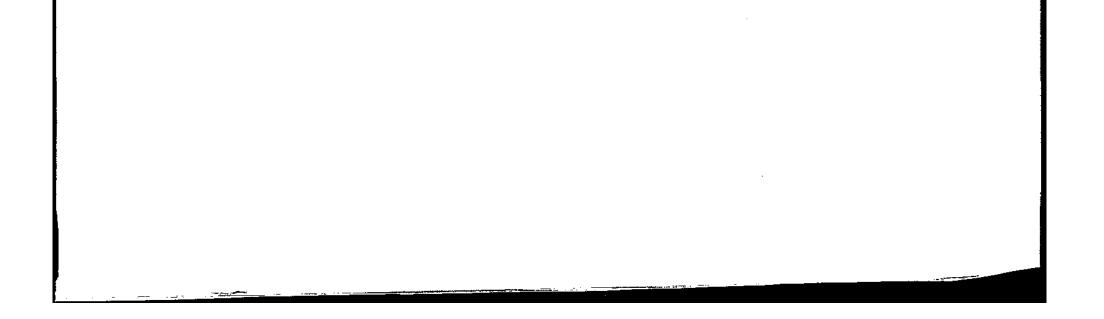


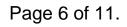
7616" 7016" 8016" 8216" 8416" 8516" 8916" 9116" 9316" 10016"	1635 0740 0835 0935 1045 1125 1350 1430 1450 1610	1710 0825 0925 1025 1120 1215 1420 1445 1605 1640 1705	7816" 8016" 8216" 8416" 8616" 9116" 9316" 10016" 1041	

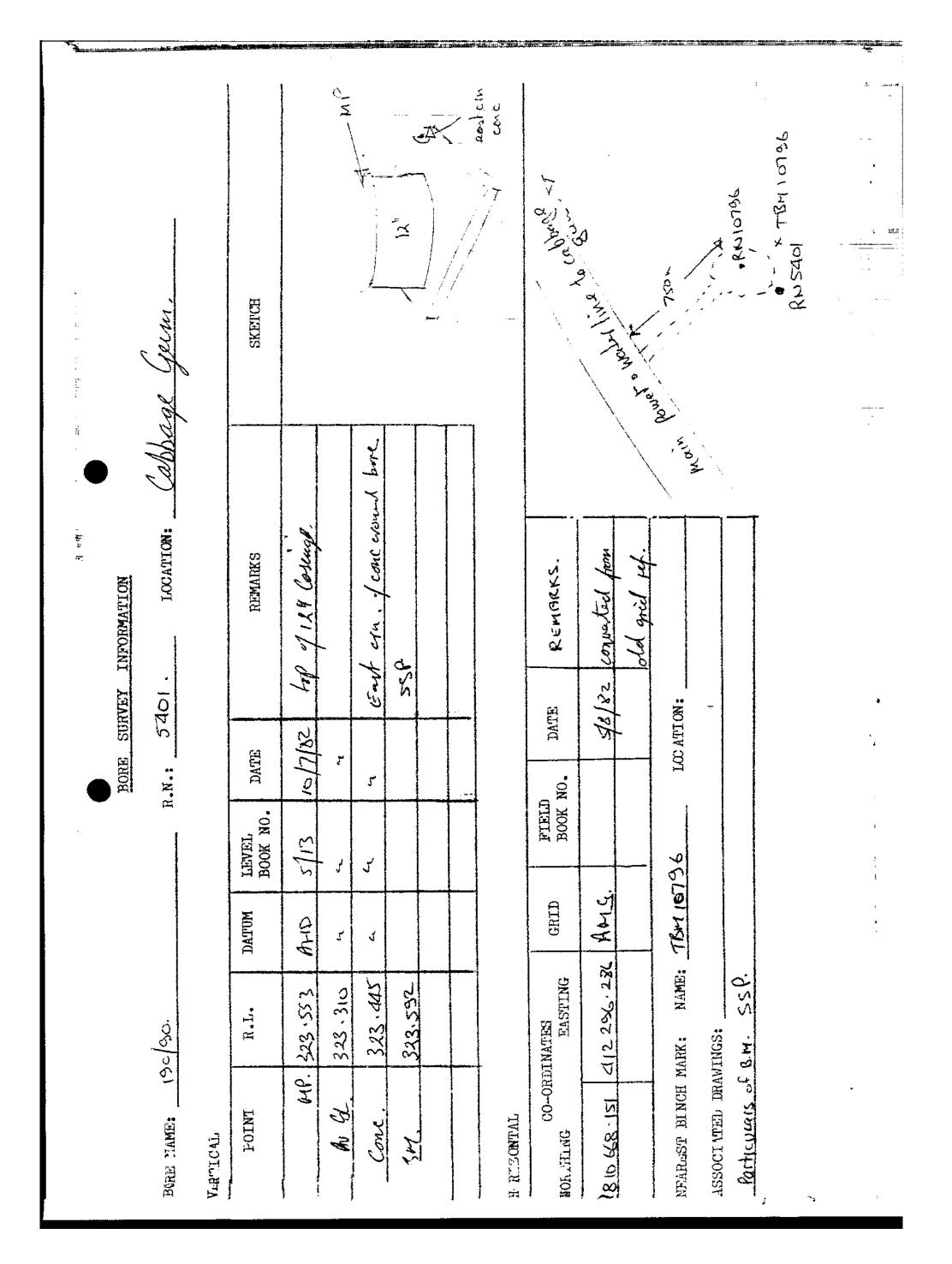
Page 5 of 11.

Penetration	Cont'd.
106' 113' 115' 117' 121' 124' 127' 130' 133' 135' 138' 143' 146'	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Strata.	n n n n n n <del>n T</del> arana <b>ng na sa sa</b>
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Red subsoil Red clayey gravell Gravelly yellow and brown clay Grey siltstone Red siltstone seepage water Laterite and sand Brown clay and laterite Brown clay and laterite White laterite Sandstone or limestone Sandstone or limestone water Red and yellow clay White and yellow clay White and yellow clay

The hole was reduced in size from 135' to 146' penetrating an area of gravell from 130' to 136' by using bentonite, the bore when cased was bailed for two hours until clean with a bailer tested yield of approximately 1,500 G.P.H. with a 4' drawdown.

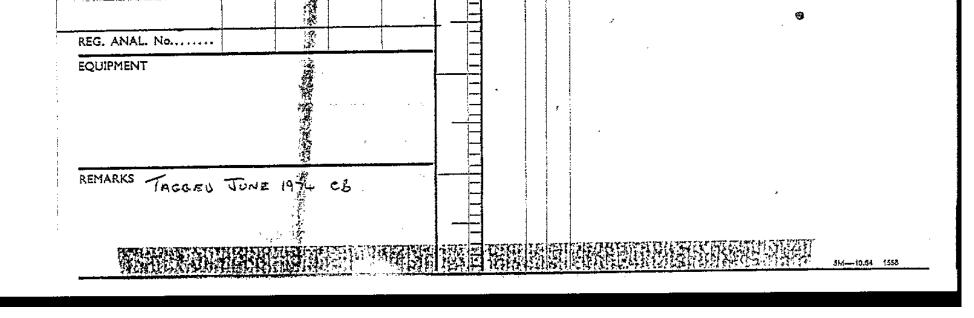






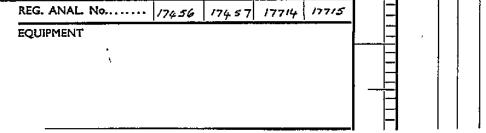
Page 7 of 11.

4 <b>9</b> #	TECOR			<u> </u>	90/90	of G	eid Xel	SHEE		EX No.	ES3/14 40/21	
		in Bai					· · · · ·		REC	. No. ,		
LOCALITY		. 54				·			<del> : .</del>	No		<u> </u>
DEPTH	en georgeneren.					<u> </u>	RFORATI		÷.,		-86-101-1	6-1
CASINGS 2			<b>i. jodi</b> li Tirkitik		<b>30 IX</b>	· .	CREENS					
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		1		ORILLER			THE O	DAT	E 28.	3.66.	DATE	4.
	ан салар Тараналар								ATA SECT		1 LUNDUE	
	WATE	K LLE	1		DEPTU	1	171					
AQUIFERS					DEPTH FEET	CASING	AQU SEC.	Red	311 <b>)</b> 50:	STRA	1A	
	4816*	65	66 6	2					gravel.	•		
			IP R		Ē			Yell	cw & bi	CO1771	gravelly	' cl
STANDING WATER LEVEL				<u> </u>		1		<u>/1</u> -22-24	s11ts	tono		
PUMP G.P.H.		and the Diday	<b>大大学</b>		25 -				01140			
DRAWDOWN LEVEL.		Charles -			_				· · · · · ·	-	·	
PUMP LEVEL	ter da			and a star		1 1		Red i	siltst	)ne		• •
DURATION HOURS		م د با مرد مسجع سر د		95 -3 1		1						
R.L. S.W.L	(a.).		17. A		50 -			Restau	n offar	# 1n	terite d	r 1
WATER °C				3.2		- 	-					
TRANSMISSIBILITY		ः २८३३ के २२ विक्रम		:							· · · ·	
STORAGE COEFF		2 TO 12	No.					· Lime	stono		· -	
ANALYSES					75 -			والمتفقية المراجع	-2 2			· .
BINOMIAL CLASSIFICATION				the second				<b>K</b>			mestone	
T.D.S	£23.5		- <b>5</b> -90 - 5			····		Ređ	and ye.	LIOW	clay	
CONDUCTIVITY	نے مان ان یک کو کو کو	51. 1 Mai 1772	4804.5		1 =			White	a and y	rello	w clay	
TOTAL HARDNESS			1		100				L	,	• • •	
CHLORIDE		1			T E		×."	<i>o</i> ý.		:	• • • • •	
BICARBONATE				·				- 			*	
CARBONATE						-		Gra	vel and	i san	d	
SULPHATE			· · · · · · · · · · · · · · · · · · ·		- 125-							
NITRATE		4			† · E			3 <b>F</b>				
	<u>.                                    </u>				1		-	01a;	yey gra	avel		
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POTASSIUM		1.	<u> </u>			-		· .				
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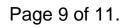
			<u>.</u> .		······································					. <u>.</u>			
			N.T	.A. WA	TER	RESO	URCE	S E	BRAŅCH				*RN005401 *
	L		BC	DRE	D	AT	A	SI	HEET			<b>1</b> 3	
						of G					40	<u>.</u>	ł
NAME 12"	RECOR	DER								INDEX No.	40/21	4 <del>4</del>	
LOCALITY CABB.	AGE G	JM BA	SIN							REG. No	5401		
DEPTH146 :	ft.									FILE No		P = = P	
CASINGS 9 length:	s 12"	welde	d joir	t to 1	30 ft		ERFORA CREENS	LION	45 1/8 slo	ots 56-71.	-86-101-11	.6-126	
LOCATION	/	/	E		I LEV	RFACE R	L.		B M LEVEL		NTUM		
CONTRACTOR W.	R.B.			DRILLER	M.J	. COS	TELLO		DATE STARTED	28.3.66.	DATE FINISHED	4.4.66.	
	WATE	R		<u> </u>			,		STRATA S	SECTION			-
AQUIFERS					DEPTH FEET	CASING	AQU. SEC.		Red sub	STRAT	A	•	
DEPTH STRUCK	4816"	65	8616"	17		-		3	Red grav		ау		
STANDING WATER LEVEL	401	- <u></u>	115-1 130 F	Ĕ  <b>-</b>		-		19 12	Yellow &	: brown (	gravelly	clay	
PUMP CRU	Not T	ested	Yet.		25				Grey sil	tstone			
DRAWDOWN LEVEL.			·	-		-							
PUMP LEVEL						-		36	Red silt	stone			
ST HOURS						-			,				
R.L. S.W.L					50 -	-			Brown cl	av & la	torito a	- n limosi	- in.
WATER C			.			-			TT.OMIL CT	ay to ta	NGITIG D		***
TRANSMISSIBILITY		 	.			- -							
STORAGE COEFF					{  -	-		20	Limeston	e	•		
ANALYSES BINOMIAL	19-4.66	19.466	21-6-69 SUITABLU HUMAN		75 -	-		25	Sandston	e or li	nestone		
CLASSIFICATION	1777-05	TOTALSON	CONSIDE	DITTO		-		56	Red and				
T.D.S	1018	1.73.7	<u> </u>	480		-		का	neu anu	AGTTON (	പപു		
	625 TOMPITT	890 TUNP 152	\$17 TEMP 172	7.38 TEMP 172	100	-			White an	d yellow	N clay		
HARDNESS		156	172			-	-	124					
CHLORIDE	40	59_											
CAPPONATE		224		157		_			Gravel	and sand	1		
SULPHATE		0	60	0 <u>40</u>	125-	-							
NITRATE		_30.5			=			13-					
FLUORIDE	0.8	0.9	1.5	1.5	Į — <sup>⊑</sup>		1.	<b>_</b>	- Clayey	gravel			
SODIUM	90	_163	120	112.				146				•	
POTASSIUM		_29_		24.5	<u>  /50 [</u>								
CALCIUM	3,3	_27_	_32_	30									
MAGNESIUM	25	21_	22	24		1							
HAKAKINITY	278	_368	_256_	258	-								
p.H/	6.85	6.90	7.75	7.65								,	
IRON	1.5	4.2	0.1	0.1	╏╶╧	-							



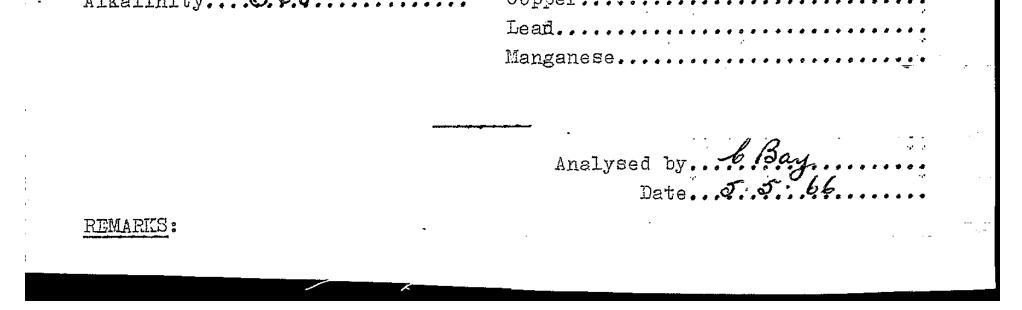
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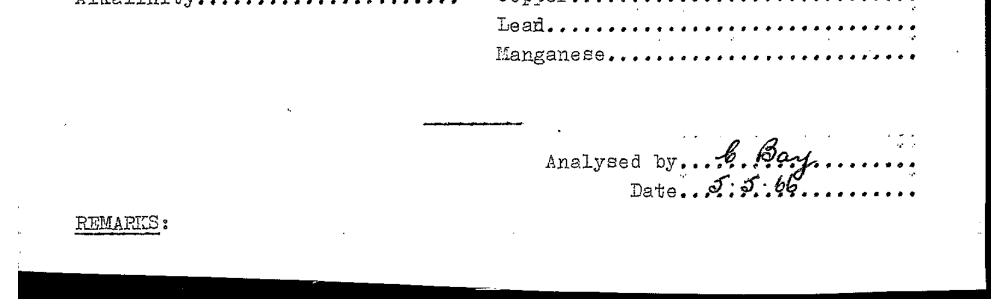


NORTHERN TERRITORY ADMINISTRATION WATER RESOURCES BRANCH. 9 MAY 1966 WATER ANALYSIS Sample No. 7.8.3.4... Date Received in Laboratory ..... 19-4.66.... Time and Date of Sampling ..... 28. 3.66. Location and Details. Cabbage. Gum. Bott. No. 190/90.... Jaken at 130 ft. Analysis in parts per million - p.p.m. (unless otherwise stated) Taste & Odour. Appearance.... Conductivity (Micromhos/cm<sup>2</sup>) at 25°C...8.9.0.... pH............... Total Dissolved Solids.. Hardness, Total ..... Hardness, Temporary..... Suspended Solids..... Hardness, Permanent..... Cations Anions 163 Sodium ... Nitrete ..... Carbonate ..... 9...... Ammoniacal Nitrogen ... Iron. 42 Fluoride....... Aluminium.... Selenium..... Silica.... Arsenic..... Boron.... Copper.....





NORTHERN TERRITORY ADMINISTRATION WATER RESOURCES BRANCH. - - 9 MAY 1966 WATER ANALYSIS Time and Date of Sampling ..... 2.3. 3. 66. Location and Details. ... Cabbage Jum. Bote No. 190/90 Jaken at 46 ft. Analysis in parts per million - p.p.m. (unless otherwise stated) Taste & Odour .. Appearance.... pH. 6.85 Hardness, Total.../88..... Total Dissolved Solids ..... Hardness, Temporary...... Suspended Solids..... Total Solids ... /0/8 Hardness, Permanent..... Cations Anions 90 Sodium .... Sulphate..... Nitrate..... Magnesium......................... Ammoniacal Nitrogen..... Bicarbonate.../7.0..... Fluoride.....0..8. Aluminium..... Selenium..... Silica..... Arsenic.... Boron..... Alkalinity....278 Copper.....



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