



HEATH CONSULTING ENGINEERS

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Our Ref: L03_08_064.doc

7 June 2010

Cambrune Pty Ltd
233 College Road
BATHURST NSW 2795

Attention: Mr Ray Carter

Dear Sir

RE. ASSESSMENT OF WATER & SEWER FOR VARIOUS PROPERTIES WITHIN BATHURST REGIONAL COUNCIL

As requested Heath Consulting Engineers has carried out an assessment of the properties provided by you with regard to water and sewer access charges. The assessment of these properties was carried out using the same method used by us in our report for your property at 16 Vale Road, Bathurst. That report calculated the water meter size utilising two different methods; Equivalent Tenements and Probable Simultaneous Demand.

The Equivalent Tenement method utilised actual water consumption data to determine the average amount of water actually used by the property. This value was then assessed against the water demand for one (1) Equivalent Tenement (ET) to determine the number of ET's for the property. The Probable Simultaneous Demand (PSD) method was used to determine the probable flow rate for the property based on the number of water supply fixtures on the property. The PSD was then used to determine the size of water meter required with and without considering the fire hose reel requirement for the site.

The results of the assessment are included on the attached sheets and summarised on the front sheet. The results indicate that in many instances the water meters are oversized for the properties. They also show that in the majority of instances a much large water meter is only required in order to satisfy the flow requirements for fire hose reels.

Of particular interest is that the sewer access charge is very similar regardless of whether the charge is based on Equivalent Tenements or the Nominal Water Meter size (without fire hose reels).


It should be noted that where the number of ET's was calculated to be less than 1, a minimum value of 1 was adopted. There may be some argument that the actual number of ET's is considered particularly if Council consider lesser ET's for residential unit developments, (sometimes Council consider smaller units ie 1 or 2 bedroom units to be 0.5 or 2/3 of an ET).

These examples prove that the sewerage charges paid by the properties were in no way a reflection of the sewerage loads placed on Council's sewerage system. In actual fact they are at odds with Department of Water & Energy's best practice guidelines and also the true principles of pay for use.

We firmly believe that the information contained in these assessments continues to support the views outlined in our letter to you dated 13 May 2009, that the sewer charges adopted by Bathurst Regional Council are firmly at odds with their own sewerage pricing policy principles and the Department of Water and Energy's best practice guidelines.

We trust that this information satisfies your requirements, however, if you require further information do not hesitate to contact the undersigned.

Yours faithfully
Heath Consulting Engineers

A handwritten signature in black ink, appearing to read 'R.A. Heath', written in a cursive style.

Per:
ROGER HEATH

Enc

Summary Sheet for Years 2003 to 2010

Property Address	Property Owner	Lot No.	DP Number	Initial Water Meter Size		Downsized Water Meter Size (ref. J. Humphreys)	Sewer Non-Residential Access Charges Applied		Sewer Access Charge based on Equivalent Tenements		Sewer Access Charge based on Nominal Water Meter Size		Water Availability Charge based on Nominal Water Meter Size for PSFR of Building only (No. of Building)		Water Availability Charge based on Nominal Water Meter Size for PSFR of Building with FHR's	
				mm	mm		No. of ET's	ET's Applied	Access Charge	Nominal Size (mm)	Access Charge	Nominal Size (mm)	Availability Charge	Nominal Size (mm)	Availability Charge	
5475 Great Western Hwy	Prefabricated Buildings Pty Ltd	1	530650		50	50	\$ 7,778.60	0.8	1	\$ 1,888.00	25	\$ 2,960.00	25	\$ 2,165.00	32	\$ 3,554.00
1 Adrienne Street	Coveport Pty Limited	31	870672		50	50	\$ 11,426.60	0.9	1	\$ 1,888.00	25	\$ 2,960.00	25	\$ 2,165.00	32	\$ 3,554.00
3 Adrienne Street	WE, RW and IR Carter	1	845855		50	32	\$ 6,756.50	0.5	1	\$ 1,888.00	25	\$ 2,960.00	25	\$ 2,165.00	32	\$ 3,554.00
11 Adrienne Street	WE, RW and IR Carter	215	776787		40	40	\$ 5,429.40	0.5	1	\$ 1,888.00	20	\$ 1,888.00	20	\$ 1,388.00	32	\$ 3,554.00
13 Adrienne Street	Carter Bros Engineering Pty Ltd	214	776787		40	40	\$ 4,717.85	3.5	3.5	\$ 6,608.00	20	\$ 1,888.00	20	\$ 1,388.00	32	\$ 3,554.00
15 Adrienne Street	WE, RW and IR Carter	213	776787		2 X40	32	\$ 5,954.70	0.7	1	\$ 1,888.00	20	\$ 1,888.00	20	\$ 1,388.00	32	\$ 3,554.00
3 Toronto Street	Carter Bros Engineering Pty Ltd	81	1007537		32	32	\$ 4,693.50	1.3	1.3	\$ 2,509.47	25	\$ 2,960.00	25	\$ 2,165.00	32	\$ 3,554.00
2 Littlebourne Street	WE, RW and IR Carter	5	714297		40	32	\$ 5,429.40	2.9	2.9	\$ 5,420.13	20	\$ 1,888.00	20	\$ 1,388.00	32	\$ 3,554.00
6 Littlebourne Street	WE, RW and IR Carter	6	714297		32	32	\$ 3,418.95	1.6	1.6	\$ 3,094.75	25	\$ 2,960.00	25	\$ 2,165.00	40	\$ 5,553.00
10 Littlebourne Street	WE, RW and IR Carter	4	714297		50	40	\$ 8,480.25	0.7	1	\$ 1,888.00	20	\$ 1,888.00	20	\$ 1,388.00	32	\$ 3,554.00
22 Hampson Park Road	Carter Bros Engineering Pty Ltd	3	877326		40	40	\$ 5,907.20	0.9	1	\$ 1,888.00	32	\$ 4,851.30	25	\$ 2,165.00	40	\$ 5,553.00
Bradford Street	WE, RW and IR Carter	3	285006		?	?	\$ 7,313.10	2.1	2.1	\$ 4,048.19	25	\$ 2,960.00	25	\$ 2,165.00	32	\$ 3,554.00
5 Zagreb Street	Coveport Pty Ltd	21	884404		80	40	\$ 16,016.10	1.3	1.3	\$ 2,455.97	20	\$ 1,888.00	20	\$ 1,388.00	32	\$ 3,554.00
15 Zagreb Street	Waraba Pty Ltd	22	884404		50	50	\$ 1,760.70	0.1	1	\$ 1,888.00	20	\$ 1,888.00	20	\$ 1,388.00	32	\$ 3,554.00
369 Stewart Street	Prefabricated Buildings Pty Ltd	2	270264		100	100	\$ 45,716.85	0.2	1	\$ 1,888.00	40	\$ 7,574.00	40	\$ 5,553.00	40	\$ 5,553.00
16 Vale Rd	Cambrune Pty Ltd	2	815754		40	32	\$ 7,313.10	0.5	1	\$ 1,888.00	20	\$ 1,888.00	20	\$ 1,388.00	32	\$ 3,554.00
TOTALS																
							\$ 149,928.70		\$ 44,904.51	\$ 47,177.30	\$ 123,337.00	\$ 34,589.00	\$ 66,415.00			

Sewer Access		
Total Amount Charged by Council from 2003 to 2010	\$	149,928.70
Total Amount Based on ET's	\$	44,904.51
Difference	\$	105,024.19

Sewer Access		
Total Amount Charged by Council from 2003 to 2010	\$	149,928.70
Total Amount Based on Nominal Water Meter Size	\$	47,177.30
Difference	\$	102,751.40

Water Availability		
Total Amount Charged by Council from 2003 to 2010	\$	123,337.00
Water Availability Charge based on Nominal Water Meter Size for PSFR of Building only (No FHR's)	\$	34,589.00
Difference	\$	88,748.00

Water Availability		
Total Amount Charged by Council from 2003 to 2010	\$	123,337.00
Water Availability Charge based on Nominal Water Meter Size for PSFR of Building with FHR's	\$	66,415.00
Difference	\$	56,922.00

RATE ASSESSMENT

PROPERTY ADDRESS: Prefabricated Buildings Pty Ltd

LOT NO: 1

DP NO: 530650

ASSESSMENT NO: 6005-61000-8

METER NO: MKS3669

5475 Great Western Hwy
Raglan

YEAR	WC	SHR	SINK	BSN	URNL	HW	STM	FHR	YD	TAP	SIZE	USED WATER MTR. SIZE	KL WATER CONSUMPTION	SDF	SEWER NON-RES ACCESS	WATER AVAILABILITY CHARGE	REQUIRED AVAILABILITY CHARGE	Sewer Access Charge based on Equivalent Number of ET's	Sewer Access Charge based on Nominal Water Meter Size	Water Availability Charge based on Nominal Water Meter Size	Water Availability Charge based on Nominal Water Meter Size Required for FHR's
2004-05	5	2	2	4	0	2	4	2	4	2	50	50	50	0	100% NIL	\$ 500.00	\$ 500.00	\$ 390.00	\$ 456.00	\$ 390.00	\$ 640.00
2005-06	5	2	2	4	0	2	4	2	4	2	50	50	50	0	100% NIL	\$ 1,563.00	\$ 1,563.00	\$ 290.00	\$ 456.00	\$ 390.00	\$ 640.00
2006-07	5	2	2	4	0	2	4	2	4	2	50	50	5738	100%	\$ 1,824.00	\$ 1,613.00	\$ 307.00	\$ 480.00	\$ 404.00	\$ 663.00	
2007-08	5	2	2	4	0	2	4	2	4	2	50	50	190	95%	\$ 1,894.45	\$ 1,679.00	\$ 318.00	\$ 498.00	\$ 419.00	\$ 688.00	
2008-09	5	2	2	4	0	2	4	2	4	2	50	50	121	95%	\$ 1,896.45	\$ 1,474.00	\$ 334.00	\$ 523.00	\$ 367.00	\$ 603.00	
2009-10	5	2	2	4	0	2	4	2	4	2	50	50	168	95%	\$ 2,076.70	\$ 782.00	\$ 349.00	\$ 547.00	\$ 195.00	\$ 320.00	
															Totals \$	\$ 7,778.60	\$ 7,637.00	\$ 1,888.00	\$ 2,960.00	\$ 2,165.00	\$ 3,554.00

Calculation of Water Meter Size based on Probable Simultaneous Flow Rates as Outlined in AS3500.1

No. Per Fixture	2	2	3	1	2	8	0	8	Total
Total No.	10	4	6	4	0	15	0	15	56

Probable Simultaneous Flow Rate for Building 0.65 L/s

Nominal Meter Size Required to cater for above flow 25 mm

Require Fire Hose Reel Flow (2 FHR's @ 0.35L/s each) 0.66 L/s

TOTAL Flow Rate Required for the Site 1.31 L/s

Nominal Meter Size Required to allow for Fire Hose Reels 32 mm

Assessment of Peak Load in Equivalent Tenements based on Average Water Consumption

Average Water Usage = 159.67 kl/annum (average taken on as many similar years as possible. Years of zero flow and very high flow not counted in average)

Peak load per ET = 200 kl/annum (refer to report by Heath Consulting Engineers for 16-Vale Road, Bathurst dated 2 December 2008)

No. of ET's = 0.8 ET's

Minimum ET = 1 ET which equivalent to a 20mm diameter water meter

RATE ASSESSMENT

Coveport Pty Limited
PROPERTY ADDRESS

METER NO

ASSESSMENT NO.

DP NO.

LOT NO

1 Adrienne Street
Raglan

98F000525

50338-00000-8

870672

31

YEAR	WC	SHR.	SINK	BSN.	URNL	HW	STM	FHR	YD	TAP	SIZE	INITIAL WATER METER SIZE	USED WATER MTR. SIZE	KL WATER CONSUMPTION	SDF	SEWER NON-RIS ACCESS	WATER AVAILABILITY CHARGE	REQUIRED AVAILABILITY CHARGE	Sewer Access Charge based on Equivalent Number of ET's on Nominal Water Meter Size	Water Availability Charge based on Nominal Water Meter Size	Water Availability Charge based on Nominal Water Meter Size Required for FHR's
2004-05	2	1	1	1	2	1	1	2	2	4	50	50	50	835	100%	\$ 1,824.00	\$ 1,563.00	\$ 290.00	\$ 456.00	\$ 640.00	
2005-06	2	1	1	2	1	1	1	2	4	50	50	50	43	100%	\$ 1,824.00	\$ 1,563.00	\$ 290.00	\$ 456.00	\$ 640.00		
2006-07	2	1	1	2	1	1	2	4	50	50	50	50	91	100%	\$ 1,824.00	\$ 1,619.00	\$ 307.00	\$ 480.00	\$ 663.00		
2007-08	2	1	1	2	1	1	2	4	50	50	50	50	37	95%	\$ 1,891.45	\$ 1,679.00	\$ 318.00	\$ 498.00	\$ 688.00		
2008-09	2	1	1	2	1	1	2	4	50	50	50	50	73	95%	\$ 1,986.45	\$ 1,474.00	\$ 334.00	\$ 523.00	\$ 603.00		
2009-10	2	1	1	2	1	1	2	4	50	50	50	50	18	95%	\$ 2,076.70	\$ 782.00	\$ 349.00	\$ 547.00	\$ 320.00		
Totals																\$ 1,888.00	\$ 2,960.00	\$ 2,165.00	\$ 3,554.00		

TRUCK WASH ON SITE
2X 25mm outlets

Calculation of Water Meter Size based on Probable Simultaneous Flow Rates as Outlined in AS3500.1

No. Per Fixture	2	2	3	1	2	8	0	8	Total
Total No. Of Loading Units from AS3500.1	4	2	3	2	2	2	0	32	53

Probable Simultaneous Flow Rate for Building 0.65 L/s
Nominal Meter Size Required to cater for above flow 25 mm
Require Fire Hose Reel Flow (2 FHR's @ 0.33L/s each) 0.66 L/s
TOTAL Flow Rate Required for the Site 1.31 L/s
Nominal Meter Size Required to allow for Fire Hose Reels 32 mm

Assessment of Peak Load in Equivalent Tenements based on Average Water Consumption

Average Water Usage = 182.83 kl/annum (average taken on all water consumptions listed)
Peak Load per ET = 200 kl/annum (refer to report by Heath Consulting Engineers for 16 Vale Road, Bathurst dated 2 December 2008)
No. of ET's = 0.9 ET's
Minimum ET = 1 ET

RATE ASSESSMENT

WE, RW and IR Carter

PROPERTY ADDRESS

9 Adrienne Street
Raglan

LOT NO.

1

DP NO.

845853

ASSESSMENT NO.

5651-94210-8

METER NO.

06D011059

900604

YEAR	WC	SHR.	SINK	NO. OFF	NO. OF	INITIAL WATER METER SIZE	USED WATER MTR. SIZE	KL WATER CONSUMPTION	SDF	SEWER NON-RES ACCESS	WATER AVAILABILITY CHARGE	REQUIRED AVAILABILITY CHARGE	
2004-05	5	1	1	3	3	4	2	50	32	144	100%	\$ 1,824.00	\$ 1,593.00
2005-06	5	1	1	3	3	4	2	50	32	150	100%	\$ 1,824.00	\$ 1,593.00
2006-07	5	1	1	3	3	4	2	50	32	68	100%	\$ 1,824.00	\$ 1,619.00
2007-08	5	1	1	3	3	4	2	50	32	71	50%	\$ 408.00	\$ 688.00
2008-09	5	1	1	3	3	4	2	50	32	93	50%	\$ 428.50	\$ 603.00
2009-10	5	1	1	3	3	4	2	50	32	79	50%	\$ 448.00	\$ 320.00
Totals											\$ 6,756.50	\$ 6,356.00	

Calculation of Water Meter Size based on Probable Simultaneous Flow Rates as Outlined in AS3500.1

No. Per Fixture	2	2	3	1	2	8	Total
Total No.	10	2	3	3	0	24	58

Probable Simultaneous Flow Rate for Building 0.67 l/s

Nominal Meter Size Required to cater for above flow 25 mm

Require Fire Hose Reel Flow (2 FHR's @ 0.331 l/s each) 0.66 l/s

TOTAL Flow Rate Required for the Site 1.33 l/s

Nominal Meter Size Required to allow for Fire Hose Reels 32 mm

Assessment of Peak Load in Equivalent Tenements based on Average Water Consumption

Average Water Usage = 100 kl/annum (average taken on all water consumptions listed)

Peak Load per ET = 200 kl/annum (refer to report by Heath Consulting Engineers for 15 Vale Road, Bathurst dated 2 December 2008)

No. of ET's = 0.5 ET's

Minimum ET = 1 ET

Sewer Access Charge based on Equivalent Number of ET's	Water Availability Charge based on Nominal Water Meter Size	Water Availability Charge based on Nominal Water Meter Size	Water Availability Charge based on Nominal Water Meter Size Required for FHR's
\$ 290.00	\$ 456.00	\$ 990.00	\$ 640.00
\$ 290.00	\$ 456.00	\$ 990.00	\$ 640.00
\$ 307.00	\$ 480.00	\$ 404.00	\$ 663.00
\$ 318.00	\$ 496.00	\$ 413.00	\$ 688.00
\$ 334.00	\$ 523.00	\$ 387.00	\$ 603.00
\$ 349.00	\$ 547.00	\$ 185.00	\$ 320.00
\$ 1,888.00	\$ 2,960.00	\$ 2,165.00	\$ 3,554.00

RATE ASSESSMENT

WE, RW and IR Carter
PROPERTY ADDRESS

METER NO

ASSESSMENT NO.

DE NO.

LOT NO.

11 Adrienne Street
Raglan

05D010062

5631-94020-1

7716787

215

M/K65871

YEAR	WC	SHR.	SINK	BSN.	URNL	HW	STM	FHR	VD	TAP	WATER MTR. SIZE	USED WATER MTR. SIZE	KL WATER CONSUMPTION	SDF	SEWER NON-RES ACCESS	WATER AVAILABILITY CHARGE	ZND METER WATER AVAILABILITY CHARGE	
2004-05	2	1	1	2	0	1	4	4	4	4	40	40	32	125	100%	\$ 1,467.55	\$ 1,000.00	\$ 350.00
2005-06	2	1	1	2	0	1	4	4	4	4	40	40	32	124	100%	\$ 1,467.55	\$ 1,000.00	\$ 350.00
2006-07	2	1	1	2	0	1	4	4	4	4	40	40	37	110	100%	\$ 1,167.55	\$ 1,096.00	\$ 404.00
2007-08	2	1	1	2	0	1	4	4	4	4	40	40	86	75%	\$ 612.00	\$ 688.00	\$ 688.00	
2008-09	2	1	1	2	0	1	4	4	4	4	40	40	97	75%	\$ 642.75	\$ 603.00	\$ 603.00	
2009-10	2	1	1	2	0	1	4	4	4	4	40	40	110	75%	\$ 672.00	\$ 320.00	\$ 320.00	
Totals															\$ 5,429.40	\$ 4,697.00	\$ 4,697.00	

Note: Second meter does not belong to the property

Calculation of Water Meter Size based on Probable Simultaneous Flow Rates as Outlined in AS3500.1

No. Per Fixture	2	2	3	1	2	8	0	8	Total
Total No.	4	2	3	2	0	8	0	32	51

Probable Simultaneous Flow Rate for Building 0.62 L/s

Nominal Meter Size Required to cater for above flow 20 mm

Require Fire Hose Reel Flow (2 FHR's @ 0.33L/s each) 0.66 L/s

TOTAL Flow Rate Required for the Site 1.28 L/s

Nominal Meter Size Required to allow for Fire Hose Reels 32 mm

Assessment of Peak Load in Equivalent Tenements based on Average Water Consumption

Average Water Usage = 109 kL/annum (average taken on all water consumptions listed)

Peak Load per ET = 200 kL/annum (refer to report by Heath Consulting Engineers for 15 Vale Road, Bathurst dated 2 December 2008)

No. of ET's = 0.5 ET's

Minimum ET = 1 ET

Sewer Access Charge based on Equivalent Number of ET's on Nominal Water Meter Size	Water Availability Change based on Nominal Water Meter Size	Water Availability Change based on Nominal Water Meter Size	Water Availability Change based on Nominal Water Meter Size Required for FHR's
1. Ets	20 mm	20 mm	32 mm
\$ 250.00	\$ 250.00	\$ 250.00	\$ 640.00
\$ 250.00	\$ 250.00	\$ 250.00	\$ 640.00
\$ 307.00	\$ 307.00	\$ 259.00	\$ 663.00
\$ 318.00	\$ 318.00	\$ 269.00	\$ 688.00
\$ 334.00	\$ 334.00	\$ 295.00	\$ 603.00
\$ 340.00	\$ 340.00	\$ 125.00	\$ 320.00
\$ 1,888.00	\$ 1,888.00	\$ 1,388.00	\$ 3,554.00

RATE ASSESSMENT

Carter Bros Engineering Pty Ltd

PROPERTY ADDRESS

LOT NO.

DP NO.

ASSESSMENT NO.

METER NO.

13 Adrienne Street

Raglan

2/4

775787

5651-94010-2

07D012342

MK68778
MK65871

YEAR	WC	SHR.	SINK	BSN.	URNIL	HV STM	FHR	YD TAP	INITIAL WATER METER SIZE	USED WATER MTR. SIZE	KL WATER CONSUMPTION	SDF	SEWER NON-RES ACCESS	WATER AVAILABILITY CHARGE	REQUIRED AVAILABILITY CHARGE
2004-05	2	1	1	2	0	1	3	4	40	32	889	100%	456.00	250.00	250.00
2005-06	2	1	1	2	0	1	3	4	40	32	1006	100%	1,167.55	1,000.00	1,000.00
2006-07	2	1	1	2	0	1	3	4	40	32	995	100%	1,167.55	1,036.00	1,036.00
2007-08	2	1	1	2	0	1	3	4	40	32	601	75%	612.00	688.00	688.00
2008-09	2	1	1	2	0	1	3	4	40	32	598	75%	642.75	608.00	608.00
2009-10	2	1	1	2	0	1	3	4	40	32	316	75%	672.00	320.00	320.00
Totals													4,717.85	3,897.00	

Calculation of Water Meter Size based on Probable Simultaneous Flow Rates as Outlined in A53500.1

Total No. of Loading Units from A53500.1	
No. Per Fixture	Total
2	8
4	32
Total No.	51

Probable Simultaneous Flow Rate for Building 0.62 L/s

Nominal Meter Size Required to cater for above flow 20 mm

Require Fire Hose Reel Flow (2 FHR's @ 0.33L/s each) 0.66 L/s

TOTAL Flow Rate Required for the Site 1.28 L/s

Nominal Meter Size Required to allow for Fire Hose Reels 32 mm

Assessment of Peak Load in Equivalent Tenements based on Average Water Consumption

Average Water Usage = 700 kL/annum (average taken on all water consumptions listed)

Peak Load per ET = 200 kL/annum (refer to report by Heath Consulting Engineers for 16 Vale Road, Bathurst dated 2 December 2008)

No. of ET's = 3.5 ET's

Sewer Access Charge based on Equivalent Number of ET's	Sewer Access Charge based on Nominal Water Meter Size	Water Availability Charge based on Nominal Water Meter Size	Water Availability Charge based on Nominal Water Meter Size
3.5 ET's	20 mm	20 mm	32 mm
\$ 1,015.00	\$ 290.00	\$ 250.00	\$ 640.00
\$ 1,015.00	\$ 290.00	\$ 250.00	\$ 640.00
\$ 1,074.50	\$ 307.00	\$ 259.00	\$ 643.00
\$ 1,113.00	\$ 318.00	\$ 269.00	\$ 688.00
\$ 1,169.00	\$ 334.00	\$ 285.00	\$ 688.00
\$ 1,221.50	\$ 345.00	\$ 125.00	\$ 320.00
\$ 6,608.00	\$ 1,888.00	\$ 1,388.00	\$ 3,554.00

RATE ASSESSMENT

WE, RW and IR Carter
PROPERTY ADDRESS

LOT NO. 213

ASSESSMENT NO. 5631-93000-4

METER NO. MK63195

15 Adrienne Street
Raglan

DP NO. 776787

5631-93000-4

METER NO. MK63195
000003105

YEAR	WC	SHR.	SINK	BSN.	NO. OFF	URNL	RHW	STM	FHR	YD	TAP	SIZE	INITIAL WATER METER SIZE	USED WATER MTR. SIZE	KL WATER CONSUMPTION	SDF	SEWER NON-RES ACCESS	WATER AVAILABILITY CHARGE	REQUIRED AVAILABILITY CHARGE
2004-05	2	2	2	1	2	1	4	2	4	4	2	2	32	2	2,935.10	106	100%	\$ 2,000.00	\$ 2,000.00
2005-06	2	2	1	2	1	4	4	4	4	4	4	4	32	1,167.55	110	100%	\$ 1,000.00	\$ 1,000.00	
2006-07	2	2	1	2	1	4	4	4	4	4	4	4	32	1,167.55	97	100%	\$ 1,036.00	\$ 1,036.00	
2007-08	2	2	1	2	1	4	4	4	4	4	4	4	32	408.00	188	50%	\$ 686.00	\$ 686.00	
2008-09	2	2	1	2	1	4	4	4	4	4	4	4	32	428.50	216	50%	\$ 609.00	\$ 609.00	
2009-10	2	2	1	2	1	4	4	4	4	4	4	4	32	446.00	174	50%	\$ 320.00	\$ 320.00	
Totals \$ 5,954.70 \$ 5,647.00																			

Calculation of Water Meter Size based on Probable Simultaneous Flow Rates as Outlined in ASS500.1

Total No. of Loading Units from ASS500.1	
No. Per Fixture	2 2 2 3 1 2 8 0 8
Total No.	4 4 3 3 2 0 8 0 32

Probable Simultaneous Flow Rate for Building 0.64 L/s

Nominal Meter Size Required to cater for above flow 20 mm

Require Fire Hose Reel Flow (2 FHR's @ 0.33L/s each) 0.66 L/s

TOTAL Flow Rate Required for the Site 1.3 L/s

Nominal Meter Size Required to allow for Fire Hose Reels 32 mm

Assessment of Peak Load in Equivalent Tenements based on Average Water Consumption

Average Water Usage = 149 kl/annum (average taken on all water consumptions listed)

Peak Load per ET = 200 kl/annum (refer to report by Heath Consulting Engineers for 15 Vale Road, Bathurst dated 2 December 2008)

No. of ET's = 0.7 ET's

Minimum ET = 1 ET

Sewer Access Charge based on Equivalent Number of ET's	Sewer Access Charge based on Nominal Water Meter Size	Water Availability Charge based on Nominal Water Meter Size	Water Availability Charge based on Nominal Water Meter Size Required for FHR's
\$ 290.00	\$ 290.00	\$ 250.00	\$ 640.00
\$ 290.00	\$ 290.00	\$ 250.00	\$ 640.00
\$ 307.00	\$ 307.00	\$ 250.00	\$ 653.00
\$ 318.00	\$ 318.00	\$ 265.00	\$ 688.00
\$ 394.00	\$ 394.00	\$ 235.00	\$ 609.00
\$ 345.00	\$ 345.00	\$ 125.00	\$ 320.00
\$ 1,888.00	\$ 1,888.00	\$ 1,388.00	\$ 3,554.00

RATE ASSESSMENT

Carter Bros Engineering Pty Ltd
PROPERTY ADDRESS

MIETER INQ

ASSESSMENT_NO.

DE_NO.

LOT INQ

3 Toronto Street
Kelso

4727-251000-5

1007537

81

MKS3655

YEAR	WC	SHR	SINK	BSN	URNL	HW STM	FHR	YD TAP	WATER MTR. SIZE	USED WATER MTR. SIZE	KL WATER CONSUMPTION	SDF	SEWER NON-RES ACCESS	WATER AVAILABILITY CHARGE	REQUIRED AVAILABILITY CHARGE
2004-05	2	1	2	2	1	1	1	3	4	32	32	457	100%	747.65	640.00
2005-06	2	1	2	2	1	1	1	3	4	32	32	363	100%	747.65	640.00
2006-07	2	1	2	2	1	1	1	3	4	32	32	325	100%	747.65	663.00
2007-08	2	1	2	2	1	1	1	3	4	32	32	185	95%	775.20	688.00
2008-09	2	1	2	2	1	1	1	3	4	32	32	154	95%	814.15	603.00
2009-10	2	1	2	2	1	1	1	3	4	32	32	111	95%	851.20	320.00
													Totals \$	4,683.50	3,554.00

Calculation of Water Meter Size based on Probable Simultaneous Flow Rates as Outlined in AS3500.1

No. Per Fixture	2	2	3	1	2	8	0	8	Total
Total No.	4	2	6	2	2	8	0	32	56

Probable Simultaneous Flow Rate for Building 0.65 L/s
Nominal Meter Size Required to cater for above flow 25 mm
Require Fire Hose Reel Flow (2 FHR's @ 0.33L/s each) 0.66 L/s
TOTAL Flow Rate Required for the Site 1.31 L/s
Nominal Meter Size Required to allow for Fire Hose Reels 32 mm

Assessment of Peak Load in Equivalent Tenements based on Average Water Consumption

Average Water Usage = 265 kL/annum (average taken on all water consumptions listed)
Peak Load per ET = 200 kL/annum (refer to report by Heath Consulting Engineers for 16 Vale Road, Bathurst dated 2 December 2008)
No. of ET's = 1.3 ET's
Minimum ET = 1 ET

Sewer Access Charge based on Equivalent Number of ET's on Nominal Water Meter Size	Water Availability Charge based on Nominal Water Meter Size	Water Availability Charge based on Nominal Water Meter Size	Water Availability Change based on Nominal Water Meter Size Required for FHR's
1.3 ETs	25 mm	25 mm	32 mm
\$ 385.46	\$ 456.00	\$ 390.00	\$ 640.00
\$ 385.46	\$ 456.00	\$ 390.00	\$ 640.00
\$ 408.05	\$ 480.00	\$ 404.00	\$ 663.00
\$ 422.68	\$ 498.00	\$ 419.00	\$ 688.00
\$ 443.94	\$ 523.00	\$ 367.00	\$ 803.00
\$ 463.88	\$ 547.00	\$ 195.00	\$ 320.00
\$ 2,509.47	\$ 2,960.00	\$ 2,165.00	\$ 3,554.00

RATE ASSESSMENT

WE, RW and IR Carter

PROPERTY ADDRESS

LOT NO. 6

DP NO. 714297

ASSESSMENT NO. 2662-44000-3

METER NO. 06ECL7564

6 Littlebourne Street

Kelso

M/K78986

YEAR	WC	SHR.	SINK	BSN.	URNL	HW STM	PFR	YD TAP	WATER USED METER SIZE	KL WATER CONSUMPTION	SDF	SEWER NON-RES ACCESS	WATER AVAILABILITY CHARGE	REQUIRED AVAILABILITY CHARGE	Sewer Access Charge based on Equivalent Number of ET's on Nominal Water Meter Size	Water Availability Charge based on Nominal Water Meter Size	Water Availability Charge based on Nominal Water Meter Size Required for FHR's
2004-05	4	2	2	4	4	2	3	1	50	40	154	100%	1,824.00	\$ 1,563.00	\$ 290.00	\$ 250.00	\$ 640.00
2005-06	4	2	2	4	4	2	3	1	50	40	106	100%	1,824.00	\$ 1,563.00	\$ 290.00	\$ 250.00	\$ 640.00
2006-07	4	2	2	4	4	2	3	1	50	40	167	100%	1,824.00	\$ 1,618.00	\$ 307.00	\$ 259.00	\$ 663.00
2007-08	4	2	2	4	4	2	3	1	50	40	137	75%	955.50	\$ 1,074.00	\$ 318.00	\$ 269.00	\$ 688.00
2008-09	4	2	2	4	4	2	3	1	50	40	111	75%	1,003.50	\$ 943.00	\$ 334.00	\$ 235.00	\$ 603.00
2009-10	4	2	2	4	4	2	3	1	50	40	153	75%	1,049.25	\$ 500.00	\$ 349.00	\$ 125.00	\$ 320.00
1 CAR WASH WITH 1 X 20 d OUTLET													\$ 1,888.00	\$ 1,388.00	\$ 3,554.00		
Trade Waste Cat 2													\$ 1,888.00	\$ 1,388.00	\$ 3,554.00		
Totals													\$ 8,490.25	\$ 7,262.00	\$ 3,554.00		

Calculation of Water Meter Size based on Probable Simultaneous Flow Rates as Outlined in AS3500.1

No. Per Fixture	2	2	3	1	2	8	0	8	Total
Total No. of Loading Units from AS3500.1	8	4	6	4	0	16	0	8	46

Probable Simultaneous Flow Rate for Building 0.59 L/s

Nominal Meter Size Required to cater for above flow 20 mm

Require Fire Hose Reel Flow (2 FHR's @ 0.33L/s each) 0.66 L/s

TOTAL Flow Rate Required for the Site 1.25 L/s

Nominal Meter Size Required to allow for Fire Hose Reels 32 mm

Assessment of Peak Load in Equivalent Tenements based on Average Water Consumption

Average Water Usage = 138 kl/annum (average taken on all water consumptions listed)

Peak Load per ET = 200 kl/annum (refer to report by Heath Consulting Engineers for 15 Vale Road, Bathurst dated 2 December 2008)

No. of ET's = 0.7 ET's

Minimum ET = 1 ET

RATE ASSESSMENT

WE, RW and IR Carter

PROPERTY ADDRESS

10 Littlebourne Street
Keiso

LOT NO 4

ASSESSMENT NO. 2662-43000-4

METER NO MK70546

DP NO. 714297

56150

YEAR	WC	SHR	SINK	BSN	NO. OFF	URNL	RW	STM	FHR	YD TAP	WATER MTR. SIZE	USED WATER MTR. SIZE	KL WATER CONSUMPTION	SDF	SEWER NON-RES ACCESS	WATER AVAILABILITY CHARGE	REQUIRED AVAILABILITY CHARGE
2004-05	10	5	5	5	5	5	5	5	6	4	40	32	201	100%	\$ 1,167.55	\$ 1,000.00	\$ 1,000.00
2005-06	10	5	5	5	5	5	5	5	6	4	40	32	270	100%	\$ 1,167.55	\$ 1,000.00	\$ 1,000.00
2006-07	10	5	5	5	5	5	5	5	6	4	40	32	168	100%	\$ 1,167.55	\$ 1,036.00	\$ 1,036.00
2007-08	10	5	5	5	5	5	5	5	6	4	40	32	158	95%	\$ 715.20	\$ 686.00	\$ 686.00
2008-09	10	5	5	5	5	5	5	5	6	4	40	32	149	95%	\$ 814.15	\$ 605.00	\$ 605.00
2009-10	10	5	5	5	5	5	5	5	6	4	40	32	158	95%	\$ 813.20	\$ 320.00	\$ 320.00
														Totals \$	5,807.20	\$ 4,647.00	\$ 4,647.00

Calculation of Water Meter Size based on Probable Simultaneous Flow Rates as Outlined in AS3500.1

Total No. of Loading Units from AS3500.1									
No. Per Fixture	2	2	3	1	2	8	0	8	Total
Total No.	20	10	15	5	0	40	0	32	122

Probable Simultaneous Flow Rate for Building 1.21 L/s

Nominal Meter Size Required to cater for above flow 32 mm

Require Fire Hose Reel Flow (2 FHR's @ 0.33L/s each) 0.66 L/s

TOTAL Flow Rate Required for the Site 1.87 L/s

Nominal Meter Size Required to allow for Fire Hose Reels 40 mm

Assessment of Peak Load in Equivalent Tenements based on Average Water Consumption

Average Water Usage = 1.84 kL/annum (average taken on all water consumptions listed)
 Peak Load per ET = 200 kL/annum (refer to report by Heath Consulting Engineers for 15 Vale Road, Bathurst dated 2 December 2008)

No. of ET's = 0.9 ET's

Minimum ET = 1 ET

Sewer Access Charge based on Equivalent Number of ET's	Water Availability Charge based on Nominal Water Meter Size		Water Availability Charge based on Nominal Water Meter Size Required for FHR's	
	1.0 ETs	32 mm	32 mm	40 mm
\$ 290.00	\$ 747.65	\$ 640.00	\$ 1,000.00	\$ 1,000.00
\$ 290.00	\$ 747.65	\$ 640.00	\$ 1,000.00	\$ 1,000.00
\$ 307.00	\$ 787.00	\$ 663.00	\$ 1,074.00	\$ 1,074.00
\$ 318.00	\$ 835.00	\$ 686.00	\$ 943.00	\$ 943.00
\$ 334.00	\$ 857.00	\$ 320.00	\$ 500.00	\$ 500.00
\$ 349.00	\$ 895.00	\$ 320.00	\$ 500.00	\$ 500.00
\$ 1,888.00	\$ 4,851.30	\$ 3,554.00	\$ 5,553.00	\$ 5,553.00

RATE ASSESSMENT

Carter Bros Engineering Pty Ltd

PROPERTY ADDRESS

LOT NO

DE NO

ASSESSMENT NO

METER NO

22 Hampton Park Road

Kelso

3

877936

1508-01-998-9

900861

YEAR	WC	SHR	SINK	BSN	NO. OFF	URNL	HW STM	FHR	YD TAP	INITIAL WATER METER SIZE	USED WATER MTR. SIZE	KL WATER CONSUMPTION	SDF	SEWER NON-RES ACCESS	WATER AVAILABILITY CHARGE	REQUIRED AVAILABILITY CHARGE
2004-05	4	2	2	2	4	4	2	4	3	40	40	759	100%	\$ 1,167.55	\$ 1,000.00	
2005-06	4	2	2	4	4	2	4	4	3	40	40	310	100%	\$ 1,167.55	\$ 1,000.00	
2006-07	4	2	2	4	4	2	4	4	3	40	40	489	100%	\$ 1,167.55	\$ 1,036.00	
2007-08	4	2	2	4	4	2	4	3	40	40	369	95%	\$ 1,210.30	\$ 1,074.00		
2008-09	4	2	2	4	4	2	4	4	3	40	40	426	95%	\$ 1,271.10	\$ 943.00	
2009-10	4	2	2	4	4	2	4	4	3	40	40	210	95%	\$ 1,329.05	\$ 500.00	
TRUCK WASH WITH 1 X 25mm OUTLET																
														Totals	\$ 7,813.10	\$ 5,554.00

Calculation of Water Meter Size based on Probable Simultaneous Flow Rates as Outlined in AS3500.1

No. Per Fixture	2	2	3	1	2	8	0	8	Total
Total No.	8	4	6	4	0	15	0	24	62

Probable Simultaneous Flow Rate for Building 0.69 l/s
 Nominal Meter Size Required to cater for above flow 25 mm
 Require Fire Hose Reel Flow (2 FHR's @ 0.35l/s each) 0.66 l/s
 TOTAL Flow Rate Required for the Site 1.35 l/s
 Nominal Meter Size Required to allow for Fire Hose Reels 32 mm

Assessment of Peak Load in Equivalent Tenements based on Average Water Consumption

Average Water Usage = 429 kL/annum (average taken on all water consumptions listed)
 Peak Load per ET = 200 kL/annum (refer to report by Heath Consulting Engineers for 16 Vale Road, Bathurst dated 2 December 2008)
 No. of ET's = 2.1 ET's
 Minimum ET = 1 ET

Sewer Access Charge based on Equivalent Number of ET's	Sewer Access Charge based on Nominal Water Meter Size	Water Availability Charge based on Nominal Water Meter Size	Water Availability Charge based on Nominal Water Meter Size Required for FHR's
2.1 ET's	25 mm	25 mm	32 mm
\$ 621.81	\$ 456.00	\$ 390.00	\$ 640.00
\$ 621.81	\$ 456.00	\$ 390.00	\$ 640.00
\$ 698.26	\$ 480.00	\$ 404.00	\$ 663.00
\$ 681.85	\$ 498.00	\$ 419.00	\$ 688.00
\$ 716.15	\$ 523.00	\$ 367.00	\$ 603.00
\$ 748.31	\$ 547.00	\$ 195.00	\$ 320.00
\$ 4,048.19	\$ 2,960.00	\$ 2,165.00	\$ 3,554.00

RATE ASSESSMENT

WE, RW and IR Carter
PROPERTY ADDRESS

METER NO

ASSESSMENT NO.

DE. NO.

LOT NO

Bradford Street
Kelso

MF76767

369-32000-7

285006

3

YEAR	WC	SHR.	SINK	BSN.	URNL	HW STM	FHR	YD TAP	USED WATER MTR. SIZE	KL WATER CONSUMPTION	SDF	SEWER NON-RES ACCESS	WATER AVAILABILITY CHARGE	REQUIRED AVAILABILITY CHARGE	Sewer Access Charge based on Equivalent Number of ET's on Nominal Water Meter Size		Water Availability Charge based on Nominal Water Meter Size		
															1.0 Ets	20 mm	20 mm	32 mm	
2004-05	2	1	1	1	4	1	4	1	?		29	100%	\$ 291.65	\$ 250.00	\$ 290.00	\$ 250.00	\$ 640.00	\$ 640.00	
2005-06	2	1	1	1	4	1	4	1			13	100%	\$ 291.65	\$ 250.00	\$ 290.00	\$ 250.00	\$ 640.00	\$ 640.00	
2006-07	2	1	1	1	4	1	4	1			27	100%	\$ 291.65	\$ 259.00	\$ 307.00	\$ 259.00	\$ 663.00	\$ 663.00	
2007-08	2	1	1	1	4	1	4	1			12	95%	\$ 302.10	\$ 269.00	\$ 318.00	\$ 269.00	\$ 682.00	\$ 682.00	
2008-09	2	1	1	1	4	1	4	1			14	95%	\$ 317.30	\$ 235.00	\$ 334.00	\$ 235.00	\$ 603.00	\$ 603.00	
2009-10	2	1	1	1	4	1	4	1			14	95%	\$ 331.55	\$ 125.00	\$ 349.00	\$ 125.00	\$ 320.00	\$ 320.00	
													Totals	\$ 1,825.90	\$ 1,388.00	\$ 1,888.00	\$ 1,388.00	\$ 3,554.00	\$ 3,554.00

Calculation of Water Meter Size based on Probable Simultaneous Flow Rates as Outlined in AS3500.1

Total No. of Loading Units from AS3500.1							
No. Per Fixture	2	2	3	1	2	8	Total
Total No.	4	2	0	1	0	8	23

Probable Simultaneous Flow Rate for Building 0.41 L/s

Nominal Meter Size Required to cater for above flow 20 mm

Require Fire Hose Reel Flow (2 PFR's @ 0.33L/s each) 0.66 L/s

TOTAL Flow Rate Required for the SRe 1.07 L/s

Nominal Meter Size Required to allow for Fire Hose Reels 32 mm

Assessment of Peak Load in Equivalent Tenements based on Average Water Consumption

Average Water Usage = 18 kL/annum (average taken on all water consumptions listed)

Peak Load per ET = 200 kL/annum (refer to report by Heath Consulting Engineers for 16 Vale Road, Bathurst dated 2 December 2008)

No. of ET's = 0.1 ET's

Minimum ET = 1 ET

RATE ASSESSMENT

Coveport Pty Ltd
PROPERTY ADDRESS

LOT NO
21

DE NO
884404

ASSESSMENT NO
50940-00000-4

METER NO
06EQ19494

5 Zagreb Street
Kelso

NO. OFF

BSN.

SINK

WC

SHR.

3

1

1

1

3

1

1

INITIAL

NO. OFF

BSN.

SINK

WC

SHR.

3

WATER

URNL

HW

STM

FHR

1

1

YD

TAP

SIZE

80

3

80

3

USED

WATER

MTR.

CONSUMPTION

40

40

40

80

3

80

3

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RATE ASSESSMENT

Warata Pty Ltd
PROPERTY ADDRESS

15 Zagreb Street
Kelso

MIETER NO

07C068E152

ASSESSMENT NO.

50341-00000-3

DP NO.

884404

LOT NO

22

YEAR	WC	SHR.	SINK	BSN.	URNL	HW STM	FHR	YD TAP	SIZE	USED WATER MTR.	KL WATER CONSUMPTION	SDF	SEWER NON-FES ACCESS	WATER AVAILABILITY CHARGE	REQUIRED AVAILABILITY CHARGE
2004-05	3	1	1	1	2	1	1	6	2	50	50	0	100%	\$ 184.40	\$ 250.00
2005-06	3	1	1	1	2	1	1	6	2	50	50	0	100%	\$ 184.40	\$ 250.00
2006-07	3	1	1	1	2	1	1	6	2	50	50	0	100%	\$ 184.40	\$ 250.00
2007-08	3	1	1	1	2	1	1	6	2	50	50	52	100%	\$ 391.00	\$ 269.00
2008-09	3	1	1	1	2	1	1	6	2	50	50	17	95%	\$ 496.85	\$ 357.00
2009-10	3	1	1	1	2	1	1	6	2	50	50	15	95%	\$ 519.65	\$ 195.00
													Totals	\$ 1,760.70	\$ 1,590.00

Calculation of Water Meter Size based on Probable Simultaneous Flow Rates as Outlined in AS3500.1

No. Per Fixture	2	2	3	1	2	8	0	8	Total
Total No.	6	2	3	2	0	8	0	16	37

Probable Simultaneous Flow Rate for Building 0.52 L/s

Nominal Meter Size Required to cater for above flow 20 mm

Require Fire Hose Reel Flow (2 FHR's @ 0.33L/s each) 0.66 L/s

TOTAL Flow Rate Required for the Site 1.18 L/s

Nominal Meter Size Required to allow for Fire Hose Reels 32 mm

Assessment of Peak Load in Equivalent Tenements based on Average Water Consumption

Average Water Usage = 28 kl/annum (average taken on all water consumptions > 0)

Peak Load per ET = 200 kl/annum (refer to report by Heath Consulting Engineers for 16 Vale Road, Bathurst, dated 2 December 2008)

No. of ET's = 0.1 ET's

Minimum ET = 1 ET

Sewer Access Charge based on Equivalent Number of ET's on 1.0 Ets	Sewer Access Charge based on Nominal Water Meter Size	Water Availability Charge based on Nominal Water Meter Size	Water Availability Charge based on Nominal Water Meter Size
\$ 250.00	\$ 290.00	\$ 250.00	\$ 640.00
\$ 250.00	\$ 290.00	\$ 250.00	\$ 640.00
\$ 307.00	\$ 307.00	\$ 259.00	\$ 663.00
\$ 318.00	\$ 318.00	\$ 269.00	\$ 683.00
\$ 334.00	\$ 334.00	\$ 285.00	\$ 703.00
\$ 349.00	\$ 349.00	\$ 325.00	\$ 720.00
\$ 1,988.00	\$ 1,888.00	\$ 1,588.00	\$ 3,554.00

RATE ASSESSMENT

Prefabricated Buildings Pty Ltd

PROPERTY ADDRESS

369 Stewart Street
Bathurst

LOT NO

2

DP NO

270264

ASSESSMENT NO.

52444-0000-5

METER NO

YEAR	WC	SHR	SINK	RSN	NO. OFF	NO. OFF	URNL	HW	STM	FHR	YD	TAP	KL WATER CONSUMPTION	SDF	SEWER NON-RES ACCESS	WATER AVAILABILITY CHARGE	REQUIRED AVAILABILITY CHARGE	SEWER ACCESS CHARGE based on Nominal Water Meter Size	Water Availability Charge based on Nominal Water Meter Size	Water Availability Charge based on Nominal Water Meter Size Required for FHR's
2004-05	22	9	8	8	5	100	14	8	14	8	100	100	84	100%	7,297.90	6,250.00	1,047.00	1,000.00	1,000.00	40 mm
2005-06	22	9	8	8	5	100	14	8	14	8	100	100	11	100%	7,297.90	6,250.00	1,047.00	1,000.00	1,000.00	40 mm
2006-07	22	9	8	8	5	100	14	8	14	8	100	100	27	100%	7,297.90	6,475.00	1,229.00	1,036.00	1,036.00	40 mm
2007-08	22	9	8	8	5	100	14	8	14	8	100	100	0	95%	7,567.70	6,715.00	1,274.00	1,074.00	1,074.00	40 mm
2008-09	22	9	8	8	5	100	14	8	14	8	100	100	0	95%	7,845.80	5,886.00	1,398.00	943.00	943.00	40 mm
2009-10	22	9	8	8	5	100	14	8	14	8	100	100	0	95%	8,309.05	3,128.00	1,399.00	500.00	500.00	40 mm
															Totals	\$ 45,716.85	\$ 94,714.00	\$ 7,574.00	\$ 5,553.00	\$ 5,553.00

Calculation of Water Meter Size based on Probable Simultaneous Flow Rates as Outlined in AS3500.1

No. Per Fixture	2	2	3	1	2	8	0	8	Total
Total No.	44	18	24	8	10	64	0	40	208

Probable Simultaneous Flow Rate for Building 1.65 L/s
 Nominal Meter Size Required to cater for above flow 40 mm
 Require Fire Hose Reel Flow (2 FHR's @ 0.33L/s each) 0.66 L/s
 TOTAL Flow Rate Required for the Site 2.31 L/s
 Nominal Meter Size Required to allow for Fire Hose Reels 40 mm

Assessment of Peak Load in Equivalent Tenements based on Average Water Consumption

Average Water Usage = 41 kl/annum (average taken on all water consumptions > 0)
 Peak Load per ET = 200 kl/annum (refer to report by Heath Consulting Engineers for 16 Vale Road, Bathurst dated 2 December 2008)
 No. of ET's = 0.2 ET's
 Minimum ET = 1 ET

RATE ASSESSMENT

Cambrune Pty Ltd

PROPERTY ADDRESS

16 Vale Rd
Bathurst

LOT NO

2

DP NO.

815734

ASSESSMENT NO.

4758-50000-5

METER NO

MK71028

09D000327

YEAR	WC	SHR.	SINK	BSN.	URNL	HW STM	FHR	YD TAP	USED WATER METER SIZE	KL WATER SDF CONSUMPTION	SEWER NON-RES ACCESS	WATER AVAILABILITY CHARGE	REQUIRED AVAILABILITY CHARGE	Sewer Access Charge based on Equivalent 1.0 ETs	Sewer Access Charge based on Nominal Water 20 mm	Water Availability Charge based on 20 mm	Water Availability Charge based on 32 mm
2004-05	1	1	1	1	1	1	1	1	40	21	95% \$ 1,167.55	\$ 1,000.00	\$ 1,000.00	\$ 290.00	\$ 290.00	\$ 250.00	\$ 640.00
2005-06	1	1	1	1	1	1	1	1	40	0	95% \$ 1,167.55	\$ 1,000.00	\$ 1,000.00	\$ 290.00	\$ 290.00	\$ 250.00	\$ 640.00
2006-07	1	1	1	1	1	1	1	1	40	172	95% \$ 1,167.55	\$ 1,036.00	\$ 1,036.00	\$ 307.00	\$ 307.00	\$ 259.00	\$ 663.00
2007-08	1	1	1	1	1	1	1	1	40	149	95% \$ 1,210.30	\$ 1,074.00	\$ 1,074.00	\$ 318.00	\$ 318.00	\$ 269.00	\$ 688.00
2008-09	1	1	1	1	1	1	1	1	40	30	95% \$ 1,271.10	\$ 943.00	\$ 943.00	\$ 334.00	\$ 334.00	\$ 235.00	\$ 603.00
2009-10	1	1	1	1	1	1	1	1	40	32	95% \$ 1,329.05	\$ 500.00	\$ 500.00	\$ 349.00	\$ 349.00	\$ 125.00	\$ 320.00
Totals												\$ 1,868.00	\$ 1,868.00	\$ 1,368.00	\$ 3,554.00		

Calculation of Water Meter Size based on Probable Simultaneous Flow Rates as Outlined in AS3500.1

No. Per Fixture	2	2	3	1	2	8	0	8	Total
Total No.	2	2	3	3	1	2	8	0	26

Probable Simultaneous Flow Rate for Building 0.43 L/s

Nominal Meter Size Required to cater for above flow 20 mm

Require Fire Hose Reel Flow (2 FHR's @ 0.33L/s each) 0.66 L/s

TOTAL Flow Rate Required for the Site 1.09 L/s

Nominal Meter Size Required to allow for Fire Hose Reels 32 mm

Assessment of Peak Load in Equivalent Tenements based on Average Water Consumption

Average Water Usage = 90 kJ/annum (average taken on all water consumptions > 0)

Peak Load per ET = 200 kJ/annum (refer to report by Heath Consulting Engineers for 16 Vale Road, Bathurst dated 2 December 2008)

No. of ET's = 0.5 ET's

Minimum ET = 1 ET