



										ARCHITECT	CLIENT	PROJECT	STATUS			TITLE				
												Sydney Office— L2, 8 Windmill St, Sydney NSW 2000 P / +61 2 9770 3300 E / info@bgeeng.com bgeeng.com		2 FIGTREE DRIVE SYDNEY OLYMPIC PARK (SITE 53)	ISSUED FOR APPROVAL			SITWORKS PLAN		
NOT TO BE USED FOR CONSTRUCTION																				
DRAWN	DESIGNED	CHECKED	APPROVED																	
LM	TW	TW																		
DATUM	GRD	SCALE																		
AHD	MGA	1:250																		

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# Auburn City Council Rainfall Intensities

## AUBURN COUNCIL RAINFALL INTENSITIES

LOCATION            33.850 S 151.050 E

ISSUES 18<sup>TH</sup> FEBRUARY 1988 REF GN2530

$$\ln(I) = a + b*(\ln(T)) + c*(\ln(T))^{**2} + d*(\ln(T))^{**3} + e*(\ln(T))^{**4} + f*(\ln(T))^{**t} + g*(\ln(T))^{**6}$$

I = Intensity in millimetres per hour

T = Time in Hours

RETURNED PERIOD (YEARS)	a	b	c	d	e	f	g
1	3.2926	-0.5932	-0.0437	0.00585	0.002353	0.0000507	-0.0001071
2	3.5431	-0.5904	-0.0414	0.00644	0.001994	-0.0000173	-0.0000867
5	3.7887	-0.5800	-0.0362	0.00669	0.001360	-0.0000756	-0.0000595
10	3.9060	-0.5746	-0.0334	0.00677	0.001028	-0.0000926	-0.0000477
20	4.0439	-0.5706	-0.0310	0.00709	0.000710	-0.0001364	-0.0000319
50	4.1985	-0.5657	-0.0286	0.00728	0.000424	-0.0001742	-0.0000179
100	4.3017	-0.5623	-0.0268	0.00736	0.000205	-0.0001867	-0.0000105

### RAINFALL INTENSITY IN MM/HR FOR VARIOUS DURATIONS AND RETURN PERIODS

#### RETURN PERIOD

DURATION (TIME)	1 YEAR	2 YEARS	5 YEARS	10 YEARS	20 YEARS	50 YEARS	100 YEARS
5 MIN	87.1	111.	141.	158.	180.	209.	231
6 MIN	81.6	104.	132.	148.	169.	197.	217
10 MIN	66.8	85.5	108.	122.	139.	162.	179
20 MIN	48.8	62.6	79.5	89.1	102.	119.	131.
30 MIN	39.7	50.9	64.8	72.7	83.3	97.0	107.
60 MIN	26.9	34.5	44.2	49.7	57.0	66.6	73.8
2 HRS	17.5	22.6	29.1	32.9	37.9	44.5	49.5
3 HRS	13.5	17.4	22.6	25.7	29.7	34.9	38.9
6 HRS	8.54	11.1	14.6	16.7	19.4	23.0	25.8
12 HRS	5.52	7.19	9.56	11.0	12.8	15.2	17.1
24 HRS	3.67	4.78	6.34	7.29	8.50	10.1	11.4
48 HRS	2.44	3.16	4.17	4.78	5.56	6.59	7.38
72 HRS	1.85	2.40	3.16	3.62	4.21	4.99	5.58

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# Preliminary WSUD Catchments

[illegible]

STATUS				TITLE			
<h1 style="text-align: center;">ISSUED FOR APPROVAL</h1> <p style="text-align: center;">NOT TO BE USED FOR CONSTRUCTION</p>							
DRAWN		DESIGNED		CHECKED		APPROVED	
DATE		GRID		SCALE		PROJECT No.	
						DRAWING No.	
						REV.	