Appendix A Rainfall Event Rating

Rank		Date		Tin	ne	Depth(mm)	Intensity	ARI
1	8	11	1984	22	24	90	180	>100yr
2	8	11	1984	22	54	66	132	~100yr
3	26	1	1991	14	54	60	120	~50yr
4	26	1	1991	15	24	55	110	20yr-50yr
5	20	11	1961	11	54	49	98	~20yr
6	21	8	1971	17	24	48	96	10yr-20yr
7	21	8	1971	17	54	46	92	10yr
8	20	11	1932	7	54	45	90	10yr
9	20	11	1961	12	24	45	90	10yr
10	10	3	1975	9	54	44	88	~10yr
11	10	3	1975	10	24	44	88	~10yr
12	15	2	1984	13	24	44	88	~10yr
13	26	10	1922	22	24	42	84	5yr-10yr
14	6	1	1989	14	54	42	84	5yr-10yr
15	10	4	1998	10	24	42	84	5yr-10yr
16	8	11	1984	23	24	40	80	5yr
17	20	3	1914	23	24	40	80	5yr
18	25	9	1951	18	24	38	76	~5yr
19	1	3	1977	10	24	38	76	~5yr
20	31	1	1938	6	54	38	76	~5yr
21	31	1	1938	7	24	38	76	~5yr
22	16	2	1932	0	54	37	74	2yr-5yr
23	19	1	1926	20	54	36	72	2yr-5yr
24	8	11	1967	2	54	35	70	2yr-5yr
25	8	11	1967	2	24	35	70	2yr-5yr
26	23	1	1933	3	54	34	68	2yr-5yr
27	29	9	1943	8	24	34	68	2yr-5yr
28	29	9	1943	8	54	34	68	2yr-5yr
29	10	11	1976	18	54	34	68	2yr-5yr
30	26	10	1922	21	54	34	68	2yr-5yr
31	8	11	1984	23	54	34	68	2yr-5yr
32	9	12	1988	19	24	33	66	2yr-5yr
33	15	3	1956	15	24	33	66	2yr-5yr
34	15	2	1984	12	54	33	66	2yr-5yr
35	10	3	1975	10	54	33	66	2yr-5yr
36	29	12	1934	15	24	32	64	2yr-5yr
37	10	11	1976	18	24	32	64	2yr-5yr
38	15	3	1956	15	54	32	64	2yr-5yr
39	8	11	1984	8	24	32	64	2yr-5yr
40	27	12	1955	13	54	31	62	2yr
41	8	1	1973	1	24	31	62	2yr
42	8	1	1973	1	54	31	62	2yr
43	8	1	1973	2	24	31	62	2yr
44	20	11	1932	8	24	31	62	2yr
45	1	3	1977	9	54	31	62	2yr
46	10	4	1998	9	54	31	62	2yr
47	6	9	2006	22	54	30	60	2yr
48	23	1	1933	4	24	30	60	2yr
49	21	3	1983	15	54	30	60	2yr



Rank		Date		Tir	ne	Depth(mm)	Intensity	ARI
1	8	11	1984	22	54	119	119	>100yr
2	8	11	1984	23	54	101	101	>100yr
3	10	3	1975	10	54	88	88	50yr
4	10	3	1975	9	54	74	74	20yr
5	21	8	1971	17	54	74	74	20yr
6	21	8	1971	18	54	69	69	10yr-20yr
7	20	11	1961	12	54	69	69	10yr-20yr
8	29	9	1943	8	54	68	68	10yr-20yr
9	10	4	1998	10	54	67	67	10yr-20yr
10	31	1	1938	7	54	67	67	10yr-20yr
11	26	1	1991	15	54	65	65	10yr-20yr
12	20	11	1961	11	54	64	64	10yr
13	8	11	1967	2	54	64	64	10yr
14	8	1	1973	1	54	62	62	~10yr
15	8	1	1973	2	54	62	62	~10yr
16	29	9	1943	9	54	61	61	~10yr
17	20	11	1932	8	54	60	60	5yr-10yr
18	26	1	1991	14	54	60	60	5yr-10yr
19	31	1	1938	6	54	59	59	5yr-10yr
20	25	9	1951	18	54	59	59	5yr-10yr
21	9	2	1958	1	54	59	59	5yr-10yr
22	20	11	1932	7	54	55	55	5yr
23	26	10	1922	22	54	54	54	~5yr
24	8	11	1967	3	54	52	52	~5yr
25	29	3	1957	1	54	52	52	~5yr
26	1	2	1973	8	54	52	52	~5yr
27	15	6	1949	8	54	51	51	2yr-5yr
28	19	5	1933	19	54	51	51	2yr-5yr
29	12	7	1960	16	54	51	51	2yr-5yr
30	17	3	1983	0	54	50	50	2yr-5yr
31	12	7	1960	15	54	50	50	2yr-5yr
32	9	2	1958	0	54	49	49	2yr-5yr
33	15	2	1984	13	54	48	48	2yr-5yr
34	16	2	1932	1	54	48	48	2yr-5yr
35	23	1	1955	6	54	48	48	2yr-5yr
36	23	1	1955	5	54	48	48	2yr-5yr
37	12	11	1995	0	54	47	47	2yr-5yr
38	1	2	1973	7	54	47	47	2yr-5yr
39	1	5	1955	0	54	47	47	2yr-5yr
40	30	4	1955	23	54	46	46	2yr-5yr
41	1	3	1977	10	54	46	46	2yr-5yr
42	19	11	1961	3	54	46	46	2yr-5yr
43	19	11	1961	2	54	46	46	2yr-5yr
44	1	5	1955	1	54	46	46	2yr-5yr
45	23	1	1933	4	54	46	46	2yr-5yr
46	10	11	1976	19	54	46	46	2yr-5yr
47	10	3	1975	11	54	45	45	2yr-5yr
48	25	5	1925	18		45	45	2yr-5yr
49	10	6	1991	22	54	44	44	2yr-5yr



Rank		Date		Ti	me	Depth(mm)	Intensity	ARI
1	8	11	1984	23	54	156	104.00	>100yr
2	10	3	1975	11	54	113	75.33	>100yr
3	10	3	1975	10	24	111	74.00	100yr
4	8	11	1984	22	24	110	73.33	100yr
5	8	1	1973	2	54	93	62.00	20yr-50yr
6	21	8	1971	19	24	87	58.00	20yr-50yr
7	29	9	1943	10	24	83	55.33	20yr
8	29	9	1943	8	54	83	55.33	20yr
9	21	8	1971	17	54	82	54.67	~20yr
10	31	1	1938	7	24	80	53.33	10yr-20yr
11	31	1	1938	8	54	79	52.67	10yr-20yr
12	20	11	1961	13	24	76	50.67	10yr-20yr
13	20	11	1961	11	54	73	48.67	10yr
14	1	2	1973	8	54	73	48.67	10yr
15	10	4	1998	11	54	73	48.67	10yr
16	9	11	1984	1	24	73	48.67	10yr
17	10	4	1998	10	24	72	48.00	10yr
18	23	1	1955	7	24	70	46.67	5yr-10yr
19	1	5	1955	1	24	70	46.67	5yr-10yr
20	30	4	1955	23	54	70	46.67	5yr-10yr
21	19	11	1961	4	24	69	46.00	5yr-10yr
22	9	2	1958	1	24	68	45.33	5yr-10yr
23	23	1	1933	5	54	67	44.67	5yr-10yr
24	20	11	1932	8	54	67	44.67	5yr-10yr
25	8	11	1967	2	54	66	44.00	5yr-10yr
26	8	11	1967	4	24	66	44.00	5yr-10yr
27	29	3	1957	2	54	66	44.00	5yr-10yr
28	9	2	1958	2	54	65	43.33	5yr-10yr
29	26	1	1991	16	24	65	43.33	5yr-10yr
30	8	1	1973	1	24	63	42.00	5yr
31	25	9	1951	19	24	62	41.33	5yr
32	27	3	1942	20	54	62	41.33	5yr
33	12	7	1960	16	24	61	40.67	~5yr
34	17	3	1983	1	24	60	40.00	~5yr
35	26	1	1991	14	54	60	40.00	~5yr
36	5	8	1986	14	54	59	39.33	2yr-5yr
37	16	2	1932	2	54	59	39.33	2yr-5yr
38	9	3	1913	<u>-</u> 1	24	59	39.33	2yr-5yr
39	19	5	1933	20	54	58	38.67	2yr-5yr
40	8	1	1973	4		58	38.67	2yr-5yr
41	12	7	1960	17	54	58	38.67	2yr-5yr
42	26	10	1922	23	54	58	38.67	2yr-5yr
43	27	3	1942	22	24	57	38.00	2yr-5yr
44	19	5	1933	19	24	57	38.00	2yr-5yr
45	23	1	1955	5	54	56	37.33	2yr-5yr
46	28	3	1919	<u></u>	24	56	37.33	2yr-5yr
47	15	6	1949	10	24	55	36.67	2yr-5yr
48	15	6	1949	8		55	36.67	2yr-5yr
49	16	2	1932	1	24	54	36.00	2yr-5yr
+3	10		1332	I	24	34	30.00	Zyi-0yi



Rank	[Date		Tim	е	Depth(mm)	Intensity	ARI
1	8	11	1984	23	54	180	90	>100yr
2	9	11	1984	1	54	139	69.5	>100yr
3	10	3	1975	11	54	127	63.5	>100yr
4	8	1	1973	3	54	113	56.5	50yr-100yr
5	8	1	1973	1	54	94	47	20yr-50yr
6	1	5	1955	1	54	93	46.5	20yr
7	21	8	1971	19	54	88	44	10yr-20yr
8	31	1	1938	7	54	88	44	10yr-20yr
9	29	9	1943	9	54	84	42	10yr-20yr
10	30	4	1955	23	54	84	42	10yr-20yr
11	21	8	1971	17	54	83	41.5	10yr-20yr
12	31	1	1938	9	54	82	41	10yr-20yr
13	20	11	1961	13	54	82	41	10yr-20yr
14	27	3	1942	21	54	82	41	10yr-20yr
15	10	3	1975	9	54	80	40	10yr
16	19	11	1961	3	54	80	40	10yr
17	23	1	1955	7	54	79	39.5	10yr
18	8	11	1967	3	54	78	39	~10yr
19	12	7	1960	17	54	77	38.5	5yr-10yr
20	20	11	1961	11	54	76	38	5yr-10yr
21	1	2	1973	9	54	75	37.5	5yr-10yr
22	10	4	1998	11	54	74	37	5yr-10yr
23	19	11	1961	5	54	72	36	5yr-10yr
24	9	2	1958	1	54	71	35.5	5yr-10yr
25	29	3	1957	3	54	71	35.5	5yr-10yr
26	9	3	1913	1	54	71	35.5	5yr-10yr
27	20	11	1932	9	54	70	35	5yr
28	23	1	1933	5	54	69	34.5	5yr
29	5	8	1986	15	54	68	34	~5yr
30	9	2	1958	3	54	67	33.5	2yr-5yr
31	24	10	1987	21	54	67	33.5	2yr-5yr
32	29	3	1957	1	54	66	33	2yr-5yr
33	26	1	1991	17	54	65	32.5	2yr-5yr
34	26	1	1991	15	54	65	32.5	2yr-5yr
35	17	3	1983	1	54	64	32	2yr-5yr
36	25	9	1951	19	54	63	31.5	2yr-5yr
37	5	11	1984	15	54	62	31	2yr-5yr
38	19	5	1933	19	54	62	31	2yr-5yr
39	29	9	1943	11	54	62	31	2yr-5yr
40	26	10	1922	23	54	62	31	2yr-5yr
41	23	1	1955	5	54	61	30.5	2yr-5yr
42	7	9	2006	1	54	60	30	2yr-5yr
43	28	3	1919	1	54	60	30	2yr-5yr
44	12	7	1960	15	54	60	30	2yr-5yr
45	20	4	1945	13	54	59	29.5	2yr-5yr
46	26	5	1919	7	54	59	29.5	2yr-5yr
47	19	5	1933	21	54	59	29.5	2yr-5yr
48	16	2	1932	3	54	59	29.5	2yr-5yr
49	16	2	1932	1	54	59	29.5	2yr-5yr



Rank		Date		Tim	e	Depth(mm)					
1	8	11	1984	23	54	191	63.67	>100yr			
2	9	11	1984	2	54	189	63.00	>100yr			
3	10	3	1975	11	54	135	45.00	~100yr			
4	1	5	1955	2	54	132	44.00	50yr-100yr			
5	10	3	1975	14	54	130	43.33	50yr-100yr			
6	8	1	1973	2	54	128	42.67	50yr-100yr			
7	8	1	1973	5	54	126	42.00	50yr-100yr			
8	10	4	1998	11	54	104	34.67	~20yr			
9	27	3	1942	23	54	97	32.33	10yr-20yr			
10	30	4	1955	23	54	97	32.33	10yr-20yr			
11	31	1	1938	8	54	95	31.67	10yr-20yr			
12	27	3	1942	20	54	94	31.33	10yr-20yr			
13	5	8	1986	17	54	94	31.33	10yr-20yr			
14	5	8	1986	14	54	92	30.67	10yr			
15	23	1	1955	8	54	91	30.33	10yr			
16	21	8	1971	20	54	91	30.33	10yr			
17	9	2	1958	2	54	89	29.67	5yr-10yr			
18	31	1	1938	11	54	89	29.67	5yr-10yr			
19	12	7	1960	17	54	88	29.33	5yr-10yr			
20	20	11	1961	14	54	87	29.00	5yr-10yr			
21	8	11	1967	2	54	87	29.00	5yr-10yr			
22	8	11	1967	5	54	87	29.00	5yr-10yr			
23	24	10	1987	23	54	85	28.33	5yr-10yr			
24	29	9	1943	11	54	85	28.33	5yr-10yr			
25	19	11	1961	5	54	85	28.33	5yr-10yr			
26	5	11	1984	17	54	84	28.00	5yr-10yr			
27	9	3	1913	2	54	83	27.67	5yr-10yr			
28	29	9	1943	8	54	83	27.67	5yr-10yr			
29	21	8	1971	17	54	83	27.67	5yr-10yr			
30	20	11	1961	11	54	80	26.67	5yr			
31	23	1	1933	5	54	79	26.33	5yr			
32	30	4	1988	17	54	78	26.00	5yr			
33	1	2	1973	11	54	78	26.00	5yr			
34	10	4	1998	14	54	77	25.67	2yr-5yr			
35	1	2	1973	8	54	77	25.67	2yr-5yr			
36	12	7	1960	20	54	76	25.33	2yr-5yr			
37	17	1	1988	5	54	75	25.00	2yr-5yr			
38	26	5	1919	8	54	75	25.00	2yr-5yr			
39	20	11	1932	11	54	74	24.67	2yr-5yr			
40	9	2	1958	5	54	74	24.67	2yr-5yr			
41	29	3	1957	2	54	74	24.67	2yr-5yr			
42	29	3	1957	5	54	74	24.67	2yr-5yr			
43	10	5	1925	14	54	74	24.67	2yr-5yr			
44	27	4	1966	11	54	73	24.33	2yr-5yr			
45	24	10	1987	20	54	73	24.33	2yr-5yr			
46	20	4	1945	14	54	73	24.33	2yr-5yr			
47	17	1	1988	2	54	73	24.33	2yr-5yr			
48	27	4	1966	14	54	72	24.00	2yr-5yr			
49	17	1	1988	8	54	71	23.67	2yr-5yr			



Rank		Date		Tir	ne	Depth(mm)	Intensity	ARI
1	23	3	1966	20	54	68	136	100yr
2	13	12	1963	3	54	45	90	10yr-20yr
3	11	11	1970	19	24	43	86	5yr-10yr
4	23	3	1966	21	24	42	84	5yr-10yr
5	8	11	1984	10	24	41	82	5yr-10yr
6	14	9	1990	18	24	39	78	~5yr
7	10	3	1975	10	24	38	76	2yr-5yr
8	13	12	1963	2	24	34	68	2yr-5yr
9	11	11	1970	19	54	34	68	2yr-5yr
10	10	3	1975	15	24	33	66	2yr-5yr
11	10	3	1975	10	54	32	64	2yr-5yr
12	10	3	1975	11	24	32	64	2yr-5yr
13	8	11	1984	9	54	32	64	2yr-5yr
14	28	2	1970	1	24	30	60	~2yr
15	17	2	1993	9	24	30	60	~2yr
16	9	4	1973	6	54	29	58	1yr-2yr
17	13	12	1963	4	54	29	58	1yr-2yr
18	20	11	1988	23	24	29	58	1yr-2yr
19	21	3	1983	16	24	29	58	1yr-2yr
20	21	8	1971	9	54	29	58	1yr-2yr
21	31	8	1978	9	54	29	58	1yr-2yr
22	7	3	1994	0	54	29	58	1yr-2yr
23	10	6	2004	21	24	28	56	1yr-2yr
24	27	11	1985	15	24	28	56	1yr-2yr
25	27	3	1987	19	54	28	56	1yr-2yr
26	13	12	1963	2	54	28	56	1yr-2yr
27	4	3	1977	8	24	28	56	1yr-2yr
28	3	3	1978	2	24	28	56	1yr-2yr
29	13	12	1963	4	24	27	54	1yr-2yr
30	17	10	1976	22	54	27	54	1yr-2yr
31	5	8	1986	11	54	27	54	1yr-2yr
32	17	2	1993	9	54	27	54	1yr-2yr
33	22	1	1999	5	54	26	52	1yr-2yr
34	9	4	1973	7	24	26	52	1yr-2yr
35	27	11	1985	14	54	26	52	1yr-2yr
36	7	3	1994	0	24	26	52	1yr-2yr
37	13	12	1963	3	24	26	52	1yr-2yr
38	31	8	1978	10	24	26	52	1yr-2yr
39	6	•	1967	20		26	52	1yr-2yr
40	29	3	1975	16	24	25	50	1yr-2yr
41	4	3	1979	14	54	25	50	1yr-2yr
42	14	9	1993	1	24	25	50	1yr-2yr
43	1	3	1977	9	54	25	50	1yr-2yr
44	28	2	1970	0	54	25	50	1yr-2yr
45	8	1	1973	0	54	24	48	1yr-2yr
46	6	10	1978	3	54	24	48	1yr-2yr
47	5	12	1992	14	54	24	48	1yr-2yr
48	6	3	1970	20	24	24	48	1yr-2yr
49	8	1	1973	2	54	24	48	1yr-2yr



Rank		Date		Tir	ne	Depth(mm)	Intensity	ARI
1	23	3	1966	20	54	78	78	20yr-50yr
2	23	3	1966	21	54	78	78	20yr-50yr
3	10	3	1975	10	54	69	69	10yr-20yr
4	10	3	1975	11	54	63	63	10yr
5	13	12	1963	4	54	63	63	10yr
6	13	12	1963	3	54	61	61	5yr-10yr
7	11	11	1970	19	54	58	58	5yr-10yr
8	8	11	1984	10	54	57	57	5yr-10yr
9	8	11	1984	9	54	48	48	2yr-5yr
10	9	4	1973	7	54	48	48	2yr-5yr
11	14	9	1990	18	54	48	48	2yr-5yr
12	13	12	1963	2	54	46	46	2yr-5yr
13	17	2	1993	9	54	44	44	2yr-5yr
14	31	1	2001	2	54	43	43	2yr-5yr
15	5	8	1986	12	54	42	42	2yr
16	5	8	1986	11	54	42	42	2yr
17	24	1	1999	6	54	41	41	~2yr
18	24	1	1999	7	54	41	41	~2yr
19	13	5	2003	10	54	40	40	1yr-2yr
20	8	1	1973	3	54	40	40	1yr-2yr
21	11	3	1974	22	54	40	40	1yr-2yr
22	10	3	1975	15	54	39	39	1yr-2yr
23	31	8	1978	10	54	39	39	1yr-2yr
24	8	1	1973	4	54	39	39	1yr-2yr
25	4	2	1971	5	54	39	39	1yr-2yr
26	17	10	1976	23	54	38	38	1yr-2yr
27	7	3	1994	0	54	38	38	1yr-2yr
28	21	3	1983	16	54	38	38	1yr-2yr
29	13	4	2009	17	54	38	38	1yr-2yr
30	6	8	1967	20	54	38	38	1yr-2yr
31	31	1	2001	1	54	37	37	1yr-2yr
32	4	3	1977	8	54	37	37	1yr-2yr
33	14	9	1993	1	54	37	37	1yr-2yr
34	6	3	1970	20	54	37	37	1yr-2yr
35	28	2	1970	1	54	37	37	1yr-2yr
36	22	1	1999	6	54	36	36	1yr-2yr
37	11	3	1974	21	54	36	36	1yr-2yr
38	21	8	1971	9	54	36	36	1yr-2yr
39	24	10	1987	20	54	36	36	1yr-2yr
40	13	5	2003	9	54	36	36	1yr-2yr
41	21	8	1971	10		35	35	1yr-2yr
42	11	12	1984	19	54	35	35	1yr-2yr
43	7	3	1994	1	54	35	35	1yr-2yr
44	27	4	1966	6	54	35	35	1yr-2yr
45	8	1	1973	2	54	34	34	1yr-2yr
46	25	9	1995	5		34	34	1yr-2yr
47	11	11	1970	20	54	34	34	1yr-2yr
48	4	3	1979	14		34	34	1yr-2yr
49	17	10	1976	22	54	34	34	1yr-2yr



Rank		Date		Ti	me	Depth(mm)	Intensity	ARI
1	13	12	1963	5	54	89	59.33	20yr-50yr
2	10	3	1975	11	54	88	58.67	20yr-50yr
3	13	12	1963	4	24	88	58.67	20yr-50yr
4	23	3	1966	22	24	79	52.67	10yr-20yr
5	23	3	1966	20	54	79	52.67	10yr-20yr
6	8	11	1984	10	24	73	48.67	10yr
7	10	3	1975	10	24	61	40.67	2yr-5yr
8	8	11	1984	11	54	60	40.00	2yr-5yr
9	11	11	1970	20	54	59	39.33	2yr-5yr
10	13	12	1963	2	54	59	39.33	2yr-5yr
11	11	11	1970	19	24	58	38.67	2yr-5yr
12	11	3	1974	23	54	58	38.67	2yr-5yr
13	8	1	1973	4	24	58	38.67	2yr-5yr
14	31	1	2001	2	54	56	37.33	2yr-5yr
15	11	3	1974	22	24	56	37.33	2yr-5yr
16	8	1	1973	5	54	54	36.00	2yr-5yr
17	28	2	1970	1	24	53	35.33	2yr-5yr
18	24	1	1999	8	54	53	35.33	2yr-5yr
19	17	2	1993	10	24	53	35.33	2yr-5yr
20	24	1	1999	7	24	52	34.67	2yr-5yr
21	21	3	1983	17	54	51	34.00	2yr-5yr
22	13	5	2003	10	24	51	34.00	2yr-5yr
23	10	3	1975	16	24	51	34.00	2yr-5yr
24	14	9	1990	19	24	50	33.33	2yr-5yr
25	31	1	2001	4	24	49	32.67	2yr-5yr
26	5	8	1986	13	24	49	32.67	2yr-5yr
27	31	8	1978	11	54	49	32.67	2yr-5yr
28	9	4	1973	8	54	49	32.67	2yr-5yr
29	9	4	1973	7	24	48	32.00	2yr
30	5	8	1986	11	54	48	32.00	2yr
31	30	4	1988	7	24	47	31.33	1yr-2yr
32	30	4	1988	8	54	47	31.33	1yr-2yr
33	27	4	1966	7	24	47	31.33	1yr-2yr
34	21	3	1983	16	24	46	30.67	1yr-2yr
35	7	3	1994	1	24	45	30.00	1yr-2yr
36	8	1	1973	2	54	44	29.33	1yr-2yr
37	22	1	1999	7	24	44	29.33	1yr-2yr
38	4	2	1971	5	54	43	28.67	1yr-2yr
39	13	5	2003	11	54	43	28.67	1yr-2yr
40	4	2	1971	7	24	42	28.00	1yr-2yr
41	13	4	2009	17	54	42	28.00	1yr-2yr
42	6	3	1970	22	24	42	28.00	1yr-2yr
43	6	8	1967	20	54	42	28.00	1yr-2yr
44	4	3	1977	8	54	42	28.00	1yr-2yr
45	10	4	1998	8	54	42	28.00	1yr-2yr
46	23	6	1976	17	54	42	28.00	1yr-2yr
47	23	6	1976	16	24	41	27.33	1yr-2yr
48	13	10	1973	8		41	27.33	1yr-2yr
49	14	9	1993	2	54	41	27.33	1yr-2yr



Rank	[Date		Tim	е	Depth(mm)	Intensity	ARI
1	13	12	1963	3	54	103	51.5	20yr-50yr
2	10	3	1975	11	54	96	48	20yr-50yr
3	13	12	1963	5	54	93	46.5	20yr
4	8	11	1984	11	54	88	44	10yr-20yr
5	23	3	1966	21	54	79	39.5	~10yr
6	8	11	1984	9	54	79	39.5	~10yr
7	23	3	1966	23	54	78	39	5yr-10yr
8	8	1	1973	5	54	77	38.5	5yr-10yr
9	8	1	1973	3	54	69	34.5	~5yr
10	11	3	1974	23	54	69	34.5	~5yr
11	10	3	1975	13	54	67	33.5	2yr-5yr
12	31	1	2001	3	54	65	32.5	2yr-5yr
13	30	4	1988	7	54	61	30.5	2yr-5yr
14	11	11	1970	21	54	59	29.5	2yr-5yr
15	27	4	1966	7	54	59	29.5	2yr-5yr
16	11	11	1970	19	54	59	29.5	2yr-5yr
17	17	2	1993	9	54	58	29	2yr-5yr
18	21	3	1983	17	54	58	29	2yr-5yr
19	28	2	1970	1	54	58	29	2yr-5yr
20	30	4	1988	9	54	57	28.5	2yr-5yr
21	5	8	1986	11	54	57	28.5	2yr-5yr
22	4	3	1977	9	54	56	28	2yr-5yr
23	5	8	1986	13	54	56	28	2yr-5yr
24	17	2	1993	11	54	56	28	2yr-5yr
25	24	1	1999	7	54	55	27.5	2yr-5yr
26	31	8	1978	11	54	55	27.5	2yr-5yr
27	24	1	1999	9	54	54	27	2yr-5yr
28	10	3	1975	15	54	53	26.5	2yr
29	13	5	2003	11	54	52	26	1yr-2yr
30	14	9	1990	19	54	50	25	1yr-2yr
31	9	4	1973	7	54	50	25	1yr-2yr
32	8	1	1973	1	54	50	25	1yr-2yr
33	10	4	1998	9	54	49	24.5	1yr-2yr
34	10	3	1975	17	54	49	24.5	1yr-2yr
35	9	4	1973	9	54	49	24.5	1yr-2yr
36	11	3	1974	21	54	48	24	1yr-2yr
37	10	6	1991	23	54	48	24	1yr-2yr
38	13	10	1973	9	54	48	24	1yr-2yr
39	14	9	1993	1	54	48	24	1yr-2yr
40	25	9	1995	7	54	48	24	1yr-2yr
41	26	2	1967	1	54	48	24	1yr-2yr
42	7	3	1994	1	54	48	24	1yr-2yr
43	24	10	1987	21	54	47	23.5	1yr-2yr
44	17	1	1972	5	54	47	23.5	1yr-2yr
45	22	1	1999	7	54	46	23	1yr-2yr
46	13	4	2009	19	54	46	23	1yr-2yr
47	31	1	1971	17	54	46	23	1yr-2yr
48	17	1	1972	3	54	46	23	1yr-2yr
49	4	2	1990	5	54	46	23	1yr-2yr



Rank		Date		Tim	e	Depth(mm)	Intensity	ARI
1	13	12	1963	5	54	138	46.00	~100yr
2	8	11	1984	11	54	105	35.00	~20yr
3	10	3	1975	11	54	101	33.67	10yr-20yr
4	10	3	1975	14	54	100	33.33	10yr-20yr
5	8	1	1973	5	54	99	33.00	10yr-20yr
6	13	12	1963	8	54	96	32.00	10yr-20yr
7	30	4	1988	8	54	86	28.67	5yr-10yr
8	8	1	1973	2	54	84	28.00	5yr-10yr
9	11	3	1974	23	54	83	27.67	5yr-10yr
10	23	3	1966	23	54	79	26.33	~5yr
11	23	3	1966	20	54	79	26.33	~5yr
12	10	3	1975	17	54	77	25.67	2yr-5yr
13	31	1	2001	5	54	75	25.00	2yr-5yr
14	27	4	1966	8	54	75	25.00	2yr-5yr
15	4	3	1977	8	54	72	24.00	2yr-5yr
16	12	3	1974	2	54	71	23.67	2yr-5yr
17	13	12	1963	2	54	68	22.67	2yr-5yr
18	30	4	1988	11	54	68	22.67	2yr-5yr
19	31	1	2001	2	54	68	22.67	2yr-5yr
20	5	8	1986	14	54	67	22.33	2yr-5yr
21	8	1	1973	8	54	66	22.00	2yr-5yr
22	4	2	1990	8	54	64	21.33	2yr-5yr
23	14	11	1969	8	54	64	21.33	2yr-5yr
24	4	3	1977	11	54	64	21.33	2yr-5yr
25	31	8	1978	11	54	64	21.33	2yr-5yr
26	17	2	1993	11	54	64	21.33	2yr-5yr
27	24	10	1987	20	54	64	21.33	2yr-5yr
28	31	8	1978	14	54	64	21.33	2yr-5yr
29	20	2	1976	20	54	63	21.00	2yr-5yr
30	4	2	1990	5	54	63	21.00	2yr-5yr
31	21	3	1983	17	54	62	20.67	2yr-5yr
32	5	8	1986	11	54	62	20.67	2yr-5yr
33	11	11	1970	23	54	61	20.33	~2yr
34	17	1	1972	5	54	61	20.33	~2yr
35	11	11	1970	20	54	61	20.33	~2yr
36	25	9	1995	8	54	61	20.33	~2yr
37	9	4	1973	8	54	61	20.33	~2yr
38	24	1	1999	8	54	60	20.00	~2yr
39	10	6	1991	23	54	60	20.00	~2yr
40	8	11	1984	14	54	60	20.00	~2yr
41	13	4	2009	17	54	59	19.67	1yr-2yr
42	28	2	1970	2	54	59	19.67	1yr-2yr
43	11	6	1991	2	54	59	19.67	1yr-2yr
44	12	6	1991	2	54	59	19.67	1yr-2yr
45	24	10	1987	23	54	59	19.67	1yr-2yr
46	21	3	1983	20	54	58	19.33	1yr-2yr
47	17	1	1988	5	54	57	19.00	1yr-2yr
48	14	9	1993	2	54	57	19.00	1yr-2yr
49	16	10	1972	14	54	56	18.67	1yr-2yr



Rank		Date		Tiı	me	Depth(mm)	Intensity	ARI
1	17	2	1993	9	30	58	116	~50yr
2	26	1	1991	15	0	52	104	~20yr
3	26	1	1991	15	30	48	96	10yr-20yr
4	10	4	1998	10	30	44	88	10yr
5	14	9	1993	1	0	38	76	5yr
6	10	4	1998	11	0	37	74	~5yr
7	17	2	1993	9	0	33	66	2yr-5yr
8	10	4	1998	7	30	33	66	2yr-5yr
9	9	4	1998	18	30	32	64	2yr-5yr
10	26	2	2006	21	0	32	64	2yr-5yr
11	10	4	1998	8	0	30	60	2yr-5yr
12	10	4	1998	17	0	29	58	2yr
13	15	2	1991	21	30	29	58	2yr
14	7	9	2006	6	0	29	58	2yr
15	17	2	1993	10	0	28	56	1yr-2yr
16	9	6	2007	7	0	26	52	1yr-2yr
17	13	4	1994	20	0	26	52	1yr-2yr
18	15	2	1991	21	0	26	52	1yr-2yr
19	17	1	2001	21	30	25	50	1yr-2yr
20	7	9	2006	5	30	24	48	1yr-2yr
21	17	1	2001	22	0	24	48	1yr-2yr
22	7	12	2007	16	0	24	48	1yr-2yr
23	3	12	2007	13	30	24	48	1yr-2yr
24	5	5	2001	15	0	24	48	1yr-2yr
25	14	9	1993	0	30	23	46	1yr-2yr
26	9	2	1992	3	0	23	46	~1yr
27	26	2	2006	21	30	22	44	~1yr
28	5	5	2001	14	30	22	44	~1yr
29	16	1	2006	4	30	22	44	~1yr
30	19	5	1998	3	30	22	44	~1yr
31	7	3	1994	5	0	22	44	~1yr
32	6	12	2007	8	0	21	42	<1yr
33	10	4	1998	17	30	21	42	<1yr
34	7	3	1994	4	30	20	40	<1yr
35	7	12	2007	15	30	20	40	<1yr
36	10	4	1998	16	30	20	40	<1yr
37	15	8	2006	16	30	20	40	<1yr
38	6	5	2001	8	30	20	40	<1yr
39	13	4	1994	20	30	19	38	<1yr
40	15	6	2007	0	0	19	38	<1yr
41	6	5	2001	9	0	19	38	<1yr
42	19	11	2001	2	30	18	36	<1yr
43	10	6	2004	21	30	18	36	<1yr
44	7	3	1993	21	30	18	36	<1yr
45	31	1	2001	3	30	18	36	<1yr
46	11	12	2007	23	0	18	36	<1yr
47	27	11	2007	3	0	18	36	<1yr
48	7	3	1993	22	0	18	36	<1yr
49	23	3	2003	22	30	18	36	<1yr



Rank		Date		Tir	ne	Depth(mm)	Intensity	ARI
1	17	2	1993	10	0	72	72	20yr
2	26	1	1991	16	0	54	54	5yr
3	26	1	1991	15	0	52	52	~5yr
4	10	4	1998	8	0	48	48	2yr-5yr
5	14	9	1993	1	0	47	47	2yr-5yr
6	10	4	1998	11	0	45	45	2yr-5yr
7	14	9	1993	2	0	44	44	2yr-5yr
8	10	4	1998	17	0	44	44	2yr-5yr
9	10	4	1998	18	0	44	44	2yr-5yr
10	15	2	1991	22	0	43	43	2yr-5yr
11	10	4	1998	9	0	42	42	2yr-5yr
12	26	2	2006	22	0	40	40	2yr
13	17	2	1993	9	0	38	38	1yr-2yr
14	26	2	2006	21	0	38	38	1yr-2yr
15	17	2	1993	11	0	38	38	1yr-2yr
16	10	4	1998	12	0	38	38	1yr-2yr
17	7	9	2006	6	0	38	38	1yr-2yr
18	9	6	2007	7	0	36	36	1yr-2yr
19	13	4	1994	21	0	34	34	1yr-2yr
20	9	4	1998	19	0	34	34	1yr-2yr
21	9	2	1992	4	0	34	34	1yr-2yr
22	7	9	2006	7	0	34	34	1yr-2yr
23	31	1	2001	4	0	34	34	1yr-2yr
24	5	5	2001	16	0	32	32	1yr-2yr
25	5	5	2001	15	0	32	32	1yr-2yr
26	9	6	2007	8	0	32	32	1yr-2yr
27	9	2	1992	3	0	32	32	1yr-2yr
28	31	1	2001	3	0	31	31	1yr-2yr
29	13	4	1994	20	0	30	30	~1yr
30	6	5	2001	9	0	30	30	~1yr
31	19	5	1998	4	0	29	29	<1yr
32	10	4	2001	4	0	28	28	<1yr
33	13	10	1999	6	0	28	28	<1yr
34	4	2	2002	19	0	28	28	<1yr
35	4	2	2002	18	0	27	27	<1yr
36	10	4	2001	3	0	27	27	<1yr
37	23	3	2003	23	0	26	26	<1yr
38	7	12	2007	16	0	26	26	<1yr
39	15	2	1991	21	0	26	26	<1yr
40	6	5	2001	10	0	26	26	<1yr
41	9	2	1992	13	0	26	26	<1yr
42	16	6	2007	17	0	26	26	<1yr
43	17	1	2001	22	0	26	26	<1yr
44	7	12	2007	17	0	26	26	<1yr
45	9	2	1992	12	0	25	25	<1yr
46	27	11	2007	4	0	25	25	<1yr
47	7	3	1993	22	0	25	25	<1yr
48	9	2	1992	18	0	25	25	<1yr
49	3	12	2007	14	0	24	24	<1yr



Rank		Date		Ti	me	Depth(mm)	Intensity	ARI
1	17	2	1993	10	30	83	55.33	20yr
2	10	4	1998	9	0	58	38.67	2yr-5yr
3	10	4	1998	18	0	56	37.33	2yr-5yr
4	26	1	1991	16	30	54	36.00	2yr-5yr
5	26	1	1991	15	0	52	34.67	2yr-5yr
6	14	9	1993	1	30	52	34.67	2yr-5yr
7	15	2	1991	22	30	46	30.67	2yr
8	17	2	1993	9	0	46	30.67	2yr
9	10	4	1998	12	0	46	30.67	2yr
10	14	9	1993	3	0	44	29.33	1yr-2yr
11	10	4	1998	10	30	44	29.33	1yr-2yr
12	31	1	2001	3	0	43	28.67	1yr-2yr
13	26	2	2006	22	30	42	28.00	1yr-2yr
14	7	9	2006	7	30	42	28.00	1yr-2yr
15	7	9	2006	6	0	42	28.00	1yr-2yr
16	9	6	2007	7	30	42	28.00	1yr-2yr
17	31	1	2001	4	30	41	27.33	1yr-2yr
18	9	2	1992	4	30	40	26.67	1yr-2yr
19	17	2	1993	12	0	40	26.67	1yr-2yr
20	5	5	2001	16	30	39	26.00	1yr-2yr
21	13	4	1994	21	0	38	25.33	1yr-2yr
22	26	2	2006	21	0	38	25.33	1yr-2yr
23	4	2	2002	19	30	38	25.33	1yr-2yr
24	10	4	1998	7	30	38	25.33	1yr-2yr
25	9	4	1998	19	30	38	25.33	1yr-2yr
26	19	5	1998	4	30	37	24.67	1yr-2yr
27	13	10	1999	6	0	36	24.00	1yr
28	10	4	1998	19	30	36	24.00	1yr
29	9	2	1992	3	0	36	24.00	1yr
30	4	2	2002	18	0	36	24.00	1yr
31	15	6	2007	0	0	36	24.00	1yr
32	13	10	1999	7	30	36	24.00	1yr
33	7	3	1994	6	0	34	22.67	<1yr
34	6	5	2001	9	0	34	22.67	<1yr
35	9	6	2007	9	0	33	22.00	<1yr
36	6	5	2001	10	30	32	21.33	<1yr
37	9	2	1992	18	0	32	21.33	<1yr
38	24	3	2003	0	0	32	21.33	<1yr
39	5	5	2001	15	0	32	21.33	<1yr
40	9	2	1992	13	30	32	21.33	<1yr
41	7	9	2006	1	30	30	20.00	<1yr
42	10	4	2001	4	30	30	20.00	<1yr
43	8	11	1999	18	0	30	20.00	<1yr
44	7	9	2006	0	0	29	19.33	<1yr
45	7	8	1998	21	0	28	18.67	<1yr
46	24	1	1999	7	30	28	18.67	<1yr
47	9	2	1992	12	0	28	18.67	<1yr
48	4	2	2002	9	0	28	18.67	<1yr
49	7	3	1993	22	30	28	18.67	<1yr



Rank		Date		Tim	ie	Depth(mm)	Intensity	ARI
1	17	2	1993	10	0	87	43.5	~20yr
2	17	2	1993	12	0	87	43.5	~20yr
3	10	4	1998	10	0	64	32	~5yr
4	10	4	1998	18	0	60	30	2yr-5yr
5	10	4	1998	20	0	58	29	2yr-5yr
6	14	9	1993	2	0	56	28	2yr-5yr
7	26	1	1991	16	0	54	27	2yr-5yr
8	26	1	1991	18	0	54	27	2yr-5yr
9	10	4	1998	8	0	52	26	2yr-5yr
10	31	1	2001	4	0	49	24.5	~2yr
11	10	4	1998	12	0	48	24	~1yr
12	16	2	1991	0	0	47	23.5	~1yr
13	15	2	1991	22	0	46	23	1yr-2yr
14	9	2	1992	4	0	46	23	1yr-2yr
15	9	2	1992	6	0	46	23	1yr-2yr
16	7	9	2006	8	0	46	23	1yr-2yr
17	27	2	2006	0	0	45	22.5	1yr-2yr
18	4	2	2002	20	0	45	22.5	1yr-2yr
19	7	9	2006	6	0	44	22	1yr-2yr
20	9	6	2007	8	0	44	22	1yr-2yr
21	14	9	1993	4	0	44	22	1yr-2yr
22	26	2	2006	22	0	44	22	1yr-2yr
23	19	5	1998	4	0	44	22	1yr-2yr
24	7	3	1994	8	0	42	21	1yr-2yr
25	5	5	2001	18	0	42	21	1yr-2yr
26	5	5	2001	16	0	41	20.5	1yr-2yr
27	7	3	1994	6	0	40	20	1yr-2yr
28	9	4	1998	20	0	40	20	1yr-2yr
29	13	4	1994	22	0	40	20	1yr-2yr
30	31	1	2001	6	0	39	19.5	~1yr
31	10	4	2001	6	0	39	19.5	~1yr
32	10	4	1998	14	0	38	19	~1yr
33	6	5	2001	10	0	38	19	~1yr
34	15	6	2007	2	0	38	19	~1yr
35	13	10	1999	8	0	38	19	~1yr
36	8	11	1999	18	0	38	19	~1yr
37	8	11	1999	20	0	38	19	~1yr
38	19	5	1998	6	0	38	19	~1yr
39	4	2	2002	18	0	38	19	~1yr
40	13	10	1999	6	0	38	19	~1yr
41	27	11	2007	6	0	38	19	~1yr
42	15	6	2007	0	0	38	19	~1yr
43	9	2	1992	18	0	37	18.5	<1yr
44	9	2	1992	20	0	37	18.5	<1yr
45	9	2	1992	14	0	36	18	<1yr
46	10	4	2001	4	0	36	18	<1yr
47	7	9	2006	2	0	36	18	<1yr
48	24	3	2003	0	0	35	17.5	<1yr
49	9	2	1992	12	0	34	17	<1yr



Rank		Date		Tim	ne	Depth(mm)	Intensity	ARI
1	17	2	1993	12	0	98	32.67	10yr-20yr
2	10	4	1998	12	0	78	26.00	5yr
3	10	4	1998	9	0	64	21.33	2yr-5yr
4	10	4	1998	21	0	63	21.00	2yr-5yr
5	10	4	1998	18	0	62	20.67	2yr-5yr
6	10	4	2001	6	0	58	19.33	2yr
7	14	9	1993	3	0	57	19.00	2yr
8	9	2	1992	6	0	56	18.67	1yr-2yr
9	31	1	2001	6	0	55	18.33	1yr-2yr
10	26	1	1991	18	0	54	18.00	1yr-2yr
11	10	4	1998	15	0	53	17.67	1yr-2yr
12	26	1	1991	15	0	52	17.33	1yr-2yr
13	19	5	1998	6	0	52	17.33	1yr-2yr
14	4	2	2002	21	0	52	17.33	1yr-2yr
15	7	9	2006	9	0	50	16.67	1yr-2yr
16	27	2	2006	0	0	50	16.67	1yr-2yr
17	16	2	1991	0	0	50	16.67	1yr-2yr
18	17	2	1993	15	0	50	16.67	1yr-2yr
19	9	6	2007	9	0	50	16.67	1yr-2yr
20	9	2	1992	3	0	49	16.33	1yr-2yr
21	31	1	2001	3	0	48	16.00	1yr-2yr
22	27	11	2007	6	0	48	16.00	1yr-2yr
23	17	2	1993	9	0	48	16.00	1yr-2yr
24	7	9	2006	3	0	47	15.67	1yr-2yr
25	4	2	2002	18	0	46	15.33	1yr-2yr
26	7	3	1994	9	0	46	15.33	1yr-2yr
27	7	9	2006	6	0	46	15.33	1yr-2yr
28	14	9	1993	6	0	46	15.33	1yr-2yr
29	6	5	2001	9	0	46	15.33	1yr-2yr
30	31	8	1996	6	0	46	15.33	1yr-2yr
31	13	10	1999	6	0	46	15.33	1yr-2yr
32	13	10	1999	9	0	46	15.33	1yr-2yr
33	5	5	2001	18	0	45	15.00	~1yr
34	9	2	1992	15	0	45	15.00	~1yr
35	4	2	2002	9	0	44	14.67	<1yr
36	6	5	2001	12	0	44	14.67	<1yr
37	13	4	1994	21	0	44	14.67	<1yr
38	4	2	2002	12	0	42	14.00	<1yr
39	9	2	1992	12	0	42	14.00	<1yr
40	24	3	2003	3	0	42	14.00	<1yr
41	14	5	2003	12	0	42	14.00	<1yr
42	9	2	1992	21	0	41	13.67	<1yr
43	15	6	2007	3	0	41	13.67	<1yr
44	9	4	1998	21	0	41	13.67	<1yr
45	21	10	2004	6	0	40	13.33	<1yr
46	7	3	1994	6	0	40	13.33	<1yr
47	7	8	1998	21	0	40	13.33	<1yr
48	16	6	2007	3	0	40	13.33	<1yr
49	8	11	1999	21	0	40	13.33	<1yr



Appendix B

Community Questionnaire





ACTION

This brochure is to inform you about a Flood Study that is being prepared for the Alexandra Canal Catchment area, and invites you to contribute to the successful completion of the study.

OMMITTE

formed, which will be made up of a number of representatives from relevant authorities as well as community members. This committee will oversee the floodplain management process, and contribute to revisions and reviews.

A Floodplain Management Committee will soon be

The Draft Flood Study is currently scheduled for completion in June 2010. The community will be invited to view and comment on the Draft Study, when it is displayed at the City's One Stop Shop, neighbourhood service centres and libraries.

www.cityofsydnev.nsw.gov.au

YOUR HELP PLEASE?

Our community consultation includes this brochure and questionnaire (for collection of historical flood data). Residents and business operators' local knowledge of the catchment and personal experiences of flooding provide an invaluable source of data. We are specifically interested in any historical records of flooding that the residents might hold, including photos, flood marks or observations. This information would allow the City to understand the current flooding mechanisms in more detail, allowing the City to later invest in the most effective flood hazard management measures.

Please complete the questionnaire and return it in the reply paid envelope, or complete it online at www. cityofsydney.nsw.gov.au (preferred).

FOR FURTHER DETAILS?

Please contact:



CITYOFSYDNEY

Cardno Lawson Treloar

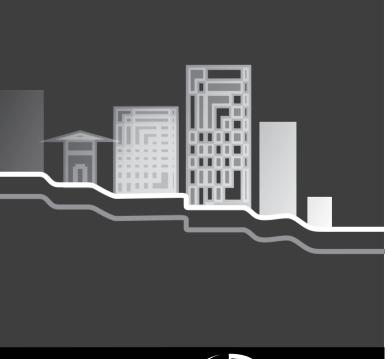
Rhys Thomson Ph: 9499 3000 City of Sydney

Myl Senthilvasan Ph: 9246 7223

To access the questionnaire online visit: www.cityofsydney.nsw.gov.au



Alexandra Canal Catchment Flood Study







The implementation of sound flood management is important to reduce flood damages, improving social and economic opportunities.



The City of Sydney Council has resolved to undertake a Flood Study for the Alexandra Canal Catchment area. The purpose of the Flood Study is to identify the nature of flooding in the catchment area to enable the City to better understand, plan and manage the potential flood risk.

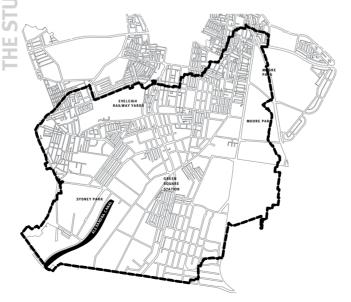
Under the NSW Government Flood Prone Land Policy, management of flood prone land is, primarily, the responsibility of councils. The Policy specifies a staged approach to the floodplain management process (see flowchart). The City will follow this process in order to manage the floodplain in your area.

The objectives of the Alexandra Canal Catchment Flood Study are to:

- Investigate historical flooding in the Alexandra Canal Catchment;
- Develop an electronic flood model that can be used to predict the magnitude and extent of future floods; and
- Provide the City with the necessary information to make effective investments in flood management in the future.

The Alexandra Canal Catchment includes the suburbs of Alexandria, Erskineville, Waterloo, Surry Hills, Rosebery, Beaconsfield, Redfern, Newtown, Eveleigh, Moore Park and Zetland. Their combined catchment area is approximately 14km², and includes residential, commercial and industrial properties, and parkland including Sydney Park and Waterloo Park.

In the past, flooding in the Alexandra Canal Catchment has caused property damage, and posed a hazard to people close to the main drainage channels or drainage paths. Flooding may also occur along natural depressions and near stormwater pits. The City is currently attempting to quantify and understand the extent of these types of flooding within the Alexandra Canal Catchment.



The Alexandra Canal Catchment Flood Study will be based on historical data, and include an electronic model that represents flooding in your area. The information from the Flood Study will help future planning in the City of Sydney LGA.

Following the Flood Study, a Flood Risk Management Study and Plan will be prepared, where specific flood management options will be investigated.

Floodplain
Management Committee

Data
Collection

Flood
Study

Flood Risk
Management Study

Flood Risk
Management Plan

Implementation
of Plan

LOW CHART





Question 8
Did you notice any bridges and/or culverts to be blocked during the event? Yes No
If Yes, please provide details (please mark the location on the map if possible, and how blocked would you say it was? (e.g. 50% blocked, 80% blocked). What was causing the blockage?
Question 9
Do you have any evidence of past flood events (eg photos, video footage, watermarks on walls or posts)? Yes No
If YES, please give as much detail as possible:
Question 10
If you have any additional information that would facilitate the Alexandra Canal Catchment Flood Study, please provide it in the space below:
Question 11
Are you interested in participating in the Floodplain Risk Management Committee? Yes No
If Yes please provide your contact details in Question 1 for Council staff to contact you
, , , , , , , , , , , , , , , , , , , ,
Thank you for providing this information. Please remember to place all pages in the reply paid envelope and send to Cardno Lawson Treloar by 28 September 2009. A representative from Cardno Lawson Treloar may contact you in the near future to discuss your response.
Council will keep any persons who respond to the questionnaire included in future mail outs (related to the project).

Introduction

City of Sydney Council has resolved to undertake a Flood Study for the Alexandra Canal Catchment. The purpose of the Flood Study is to identify the nature of flooding in the catchment area to enable Council to better understand, plan and manage the potential flood risk.

Your local knowledge of the catchment and personal experiences of flooding provide an invaluable source of data.



Question 1	
Can you please in this question	provide us with the following details? We may contact you to discuss some of the information that you provide naire.
Name:	
Address:	
Email:	
Phone(B/H):	
Question 2	
How long have y	you lived or worked in this locality?
	Years Months
Question 3	
How aware are v	you of stormwater flooding from streets or channels in the catchment? (Please tick one)
	Aware
	Some knowledge
=	Not aware





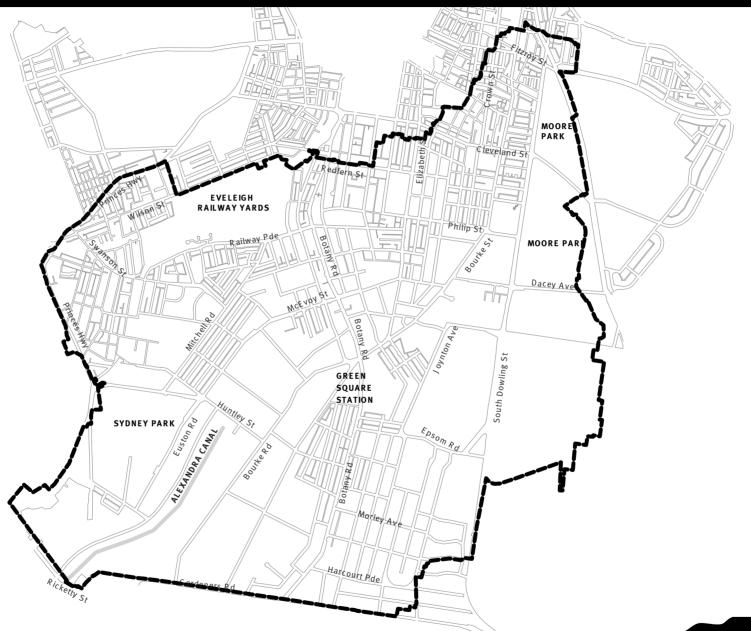
Your input will allow Council to better understand the current flooding mechanisms, allowing Council to later invest in the most effective flood hazard management measures.



Alexandra Canal Catchment Flood Study Community Questionnaire

	ESCION 4		Qu	estion 6			
	Yes No	ter/stormwater from streets or channels in this locality?		rour residential/commercial posteriors on this locality? (surchare) Yes No		ise of uncontrolled floodwater/stormwater from streets or	
√	Answer My/our daily routine was affected	Dates / Times / Description	If you	ı answered Yes, where was vo	our property flooded, and wh	nen did it occur? (You may tick more than one)	
	(eg it was difficult to get to work)		,	,,	,		
	My/our safety was threatened		✓	Location	Dates/1	imes/Description	
				Frontyard or Backyard			
	Access to our property was affected (eg driveways or roads flooded)			Garage or Shed			_
	Our annuality and for the contents were demand			Residential (below floor level)			
	Our property and/or its contents were damaged			Residential (above floor level)			
	My/our business was unable to operate during the flooded			Commercial (eg. Shops) (above f	loor level)		
	period			Commercial (below floor level)			
	Other (please specify)			Industrial (e.g. Factories)			
				Other (please specify)	·		
							-
Que	stion 5		Qu	estion 7			
Can yo	ou remember when that was? Yes No		•	have experienced flooding, se mark the location on the e	•	een flooded? ith the questionnaire in the reply paid envelope)	
f you		e. To assist, flooding may have occurred on the following dates: pril 1998 February 1993	✓	Location	Address	Description	
		lovember 1988 Other		Residential or Commercial			
	AirportLink ® GREEN SQUARE			Roads or Footpaths			
	V → Troins			Parks			
1				Other (please specify)			









W4785 ALEXANDRA O	CANAL CATCH										04	C								05					
Q	1	Q2		Q3							Q4	Comments								Q5					
		How long lived or																							
2000		worked in locality?		Some	Not		Routine	0	Safety	0	Access	5	0	Business	01.0	Remember When?							0.0	Property From flooded? Bac	k
Number Street 1 Belmont Street	Suburb Alexandria	Years 24	Months Aware	e Knowledge	e Aware	1 1	affected 1	I can't be specific - at least six	Threatened 1	Comment	affected Comment 1	Damage 0	Comment	affected 0	Comment Other	Yes/No N	Jun-07 F	eb-01 A	or-98 Feb-	93 Jan-9	11 Jan-89	Nov-88	Other	Yes/No Yard	d Comment
								times in past 24 years - Belmont and adjacent streets																	
								have been flooded up to doorstep of my house as																	
								water has flowed from north to south accumulating in																	
								depression at corner of Belmont/Huntley Streets.																	
2 Brandling St	Alexandria	3	6		1	1																		N	
3 Victoria Rd	Bellevue Hill	18	6 1			1					 Various dates/times - usually after heavy 					N								N	
											rains														
4 Ralph St	Alexandria	7	1			1																		N	
5 Botany Rd	Alexandria	26	1			1									Clients cars damaged by water (1m high) in Morley Ave -	N								N	
															opposite.										
	1																								
6 South Dowling St &	Alexandria	15			1	1																		N	
Epsom Rd 7 Holdsworth St	Newtown	60			1	1																		N	
8 Bridge St	Erskineville	4	1			1									Intersection between Bridge St & Victoria Rd Erskineville was	N								N	
															under water (approx 1 foot deep) Happens about once yearly on										
															average after torrential rain										
9 Burrows Rd	St Peters	11					1	Difficult to get to work due to	0		1 Flooded road	0		0	Has happened a few times 1998-	N.								Y	
9 Bullows Rd	St Feleis	11	1				1	flooding of Burrows Rd.	0		between Huntley & Canal Rd.	0		0	2009	N								ī	
10 Mandible St	Alexandria		6		1	1					Canal Rd.					N								N	
11 Telopea St 12 Belmont Street	Redfern Alexandria	10		1	1	1																		N N	
	1																								
	1																								
13 Shirley St	Alexandria	1	1	1	1	1												\perp		+				N	
14 Gowrie St 15 Brennan St	Newtown Alexandria	19		1	<u> </u>	1 1									Have floodwater when rains								When it rains	N N	
To Diemidii St	nichaliuila	7	2	1											heavily - cnr McEvoy & Brennan	Y							When it rains	"	
16 Mitchell Rd	Erskineville	15	5	1		1									St.	N	\vdash	+		+					
	1																								
17 Pleasant Ave	Erskineville	26	1 1	1		1	1	Can't remember exact dates -				1	Carpet in kitchen & living			Y		+		1			1984?	Y 1	Backyard
I Ioasalit Ave	2.5.01041116	20	. '					think it was 1984 evening had to take time off work.					room had to be replaced.												Juonyaru
								to take time on work.																	
	1																								
	1																								
	1																								
	1																								
18 Holdsworth St 19 Loveridge St	Newtown Alexandria	9 5	5	1	1	1		Winter/Spring 2007/2008	0		1	0		0	While stormwater was severe,	N Y	1	$-\mathbb{F}$		-		\vdash		N N	
	1							Stormwater covering Loveridge, Brennan, McAvoy							pedestrians were impeded but little risk to safety. Significant										
	1							St, impeding pedestrian access							safety issue for vehicles.										
20 Mitchell Rd	Erskineville	16			1	1																		N	
21 Cope St	Waterloo	1	6 1			1										1							· 	Υ	

Q	21	Q2	Q3						Q4	Comments						Q	5				
		How long																			
		lived or worked in locality?	Some	Not	Routine	Safety		Access			Business		Remember When?						Property flooded?	Front/ Back	
Number Street 22 Marriott St	Suburb Redfern	Years Month			N affected Comment	Threatened	Comment		Comment	Damage 1	Comment affected Flooded 900deep 1984	Comment Other		Jun-07 Feb-01	Apr-98	Feb-93 J	an-91 Jan	89 Nov-88 Other Oct-8	Yes/No	Yard Co	omment
											October										
23 PO Box 616	Botany	3 8		1																	
24 Brandling St	Alexandria	2 1	1	1	Over past 2 yrs there has			1		1	Unable to get car out of		N						Y		
					been 2-3 times when heave storms cause Newton Lane	y e		-			garage & flooding caused damage to										
					(at rear of my residence) to flood due to inadequate drainage at low point.	0					garage roller door and woodrot in timber frame due to extended water										
					dramage at low point.						exposure.										
25 Brandling St	Alexandria	14	1	1	1 Good Friday 10/4/98 8am			1 (Car in garage	1	Garage flooded		Y	 	1				Y	1 ba	ckyard Good iday 10/4/98
					approx.			ľ	existing in Newton lane was flooded											F	day 10/4/98
26 Mitchell Rd	Erskineville	3		1															N		
27 Septimus St 28 Cope St	Erskineville Waterloo	16 2		1 1									N						N N		
29 Grandstand Pde	Zetland	6 9	1									Traffic issue had to cross to othe side of road to get to destination	er Y n.						N		
30 Macdonald St	Erskineville	10	1	1	1 Driving to work thru								N						N		
					Alexandria especially come Mitchell & Coulson St.	er															
31 Bowden St	Alexandria	20	1	1	1			1		-			N						Y		
32 Burrows Rd	Alexandria	15	1	1	1 Numerous heavy downpou	ırs.		1 1	Numerous heavy	<u> </u>			N					Throughout the years- various times Burrows	Y		
									downpours									Rd gets flooded.			
33 Charles St	Redfern	1		1	1								N						N		
34 Eve St	Erskineville	5	1	1	1 Spring/summer 2007 - stor led to flooded streets - King	rm g							N					late 2007	N		
			1 1		St, Coulson St, Lord St.																
						,								1 1	Ì	1		1 1	1	i I	
																					,
35 Pitt St	Redfern	52 11		1 1	At times we have to go 50r to cross road when it rains	m -						Check if stormwater pits are the correct level for water to flow.	· N					Every time it rains.	N		
35 Pitt St	Redfern	52 11		1 1	At times we have to go 50 to cross road when it rains not othertimes.	m -							· N					Every time it rains.	N		
35 Pitt St	Redfern	52 11		1 1	to cross road when it rains	m -						correct level for water to flow.	· N					Every time it rains.	N		
					to cross road when it rains not othertimes.	m -						correct level for water to flow.						Every time it rains.			
35 Pitt St 36 Mitchell Rd 37 Lachlan St	Redfern Erskineville Waterloo	7 4 6	1	1 1	to cross road when it rains not othertimes.	m -		1	2007 O'dea Ave was flooded - could not			correct level for water to flow.	N N Y	1				Every time it rains.	N N N		
36 Mitchell Rd	Erskineville	7	1		to cross road when it rains not othertimes.	m -		1	2007 O'dea Ave was flooded - could not get to unit.			correct level for water to flow.	N	1				Every time it rains.	N		
36 Mitchell Rd	Erskineville	7		1 1	to cross road when it rains not othertimes.	m -		1	flooded - could not			correct level for water to flow.	N	1				Every time it rains.	N		

Column C	Q	1		02	Q3						Q ²	Comment	rs.						(Q 5					
March Marc																									
14 - 1			lived or worked in	n																			Property	Front/	
Company Comp	Number Street						Y N	Routine affected Comment				Damage	Comment affected	Comment	Othor		Jun-07 Feb-01	Apr-98	Feb-93	Jan-91	Jan-89 N		flooded? Yes/No	Back Yard C	Comment
March Marc	41 Baptist St	Redfern	40	3	1		1					1	bedroom, bed &		affected is Baptist St between	Y		1							
Column C															Phillip to Zamia Streets.										
Column C																									
Control	42 Renwick St	Alexandria	21	4	1		1	Not sure of dates.		1						N							N		
Control																									
Control	43 Spencer St	Rose Bay	20			1	1			1	Nov-88					Y					1		N		
Company Comp						1	1																N		
Company Comp	45 Mandible St	Alexandria	2		1					1	Long time ago					N Y						Late 1960's early 1970's			
Column C						1	1				Zong time ago					N N						24.0 10000 04.1, 10700	N		
No.			_		1		1								A couple of winters. Our local	N									
Second																									
Second	49 Morley Ave	Rosebani	12	2	1		4									-							NI		
Company Comp	50 Eve St						1																IN		
Company Comp																									
Displayed Disp																									
Company Comp																									
Displayed Disp																									
Signature Sign	51 Boronia St	Redfern	5	5	1												1						N		
Section Sect															to Bunnings have driven through water over the road.										
Section Sect																									
Section Sect																									
Section Sect																									
Section Sect																									
Section Sect	52 November Ct	Alamandria	-			4	1									N							N		
No. No. No. No.	54 Bowden St	Alexandria	2			1	1																N		
Self-latery Fig. Self-latery Self-late					1	-	1									IN .									
Self-latery Fig. Self-latery Self-late																						0.10			
Section Sect	57 Ralph St	Alexandria	3	6	1		1		water	1	work damage to car	1	destroyed nature strips			Y	1					Oct/Sep 2008	N		
Signatury Plant											being stuck in water.		(Kaipri/Gillespie Ave)												
Sil Calabar St. South So	58 Botany Rd	Rosebery	22		1		1			1						N	1						Y		
61 Chalmers St. Redfern 3 2 1 1 1 1 1 1 1 1 1	59 Botany Rd	Rosebery	22	+	1	+	1			1		-				N	1						Y	\vdash	
61 Challmers St. Redfern 3 2 1 1																ļ									
## Services Services		Redfern	3		1	1	_			1	9th Sept. 2009 Even	1										See Q4		+	
Col Dowell St Water out St St St St St St St											this caused		26Feb 2008 garage and												
62 Dowell St Waterloo 1 10 1 1 1 1 Water running down 1 10 1 1 1 1 Water running down 1 Holdsworth St above level of guiter, provided at broth or of street against embankment, as deep that these were were were were were were were w											people walking on		damaged one of our lifts.												
Can't remember dates, but he holdsworth St Newtown T											tile street.														
Can't remmether dates, Noworth St																									
Can't remmether dates, Noworth St	62 Dowell St	Waterloo	1	10	1		1									N							N	\vdash	
gutter, ponded at bottom of street against embankment, so deep that there were wheelie bins floating in it. All time Park St Ultimo 2 1 1 1 1 1 1 1 1 1								1 Water running down	el of	1															
So deep that there were wheelie bins floating in it. So deep t								gutter, ponded at bottom	of													twice in last 5 years -			
64 Wattle St								so deep that there were														day of very heavy rain in a longer spell of wet			
65 Park St St. Kilda West 5 1 1 1 1 N N N N N N																						weather.			
67 Eve St Erskineville 4 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	64 Wattle St																								
69 Victoria Rd Beaconsfield 3 4 1 1 1 1 Flooding on Botany Road 2008. Stormwater near				11		1	1									N							Y		
69 Victoria Rd Beaconsfield 3 4 1 1 1 1 Flooding on Botany Road 2008. Stormwater near				1																					
ZUUS. Stormwater near McDonalds Alexandria.						1	1	1 Flooding on Botany Roa	d																
								McDonalds Alexandria.																	

Q)1	Q2		Q3							Q4 (Comments								Q5				
Number Street	Suburb	How long lived or worked in locality?		Some Knowledge	Not e Aware	YN	Routine affected	Comment	Safety Threatened Comment	Access affected	Comment	Damage Comment	Business affected	Comment Ot	her	Remember When? Yes/No		Feb-01 /		Jan-91 Jan-89 Nov-8	B Other		Front/ Back Yard Con	nment
70 Jones St 71 Botany Rd	Ultimo Beaconsfield	5 16	1			1	1			1		1				N N	1	1	1		Several times since we	N Y		veral times during
																					have lived here.		hea	avy rain
72 Eve St 73 Buckland St	Erskineville Alexandria	10	1		1	1																N N		
74 Clifford St	Mosman				1	1										N						N		
75 Beamish St	Campsie	5	3		1	1										N						N		
76 Mount St	Redfern	12	1			1	1	Numerous times during heavy rain Bourke St North of Green Square & O'Riordan St Sth of Green Square & O'Riordan St Sth of Green Square become flooded making driving dangerous. On a couple of occasions in last 3 yrs O'Riordan St has been closed due to flooding.			Date unsure, but in last 2 years, street drain at corner of Mount & Charles Streets Redfern was blocked & floodwaters blocked access to our front door.					N						N		
77 Chapman St 78 Belmont Street 79 Mitchell Rd 80 Park St	Surry Hills Alexandria Erskineville Erskineville	6 7 3	6 7 5	1	1 1 1	1 1 1										N						N N N		
81 Smiths Lane	Erskineville	6	1			1	1	Walking Victoria St & Ashmore Rd blocked.			Smiths Lane flooded to just over footpaths.					N						N		
82 Mitchell Rd 83 Burren St	Erskineville Erskineville	4	10	1	1	1								sto en	rs on street affected ie rising rmwater from gutters rose & tered many cars on Burren St. skinville.	N Y					Around early 2009 , late 2008	N N		
84 Lawrence St	Alexandria	4	4 1			1																N		
85 Alexander St	Alexandria	15	1			1					Street flooded - blocked drains.					Y			1			N		
86 Rochschild Ave	Rosebery		9		1	1																N		
87 Ralph St	Alexandria	5	2		1	1										NI NI						N		
88 Sterling Circuit 89 Gadigal Ave, Victoria Park 90 Bradford Street	Zetland Alexandria	3 6	6 1		1	1 1								Ga flo res	heavy rain intersection of digal and Joynton Aves oded, water almost reached staurant on north west corner of r building.	Y	1					N N		
SS Stadiora Street	, something		ı I				1		<u> </u>	1	ı	I	1	<u> </u>		<u> </u>			1	<u> </u>	1	<u>, </u>	I	_

	Q1		Q2	Q3						Q4	Comments							Q5					
			How long																				
			lived or worked in												Remember						Property	Front/	
Number	Street	Suburb	locality? Years Month	Some Knowledg		Rou N affe	utine cted Comment	Safety Threatened Comment	Access affected	Comment	Damage	Busine Comment affect		Other	When?	Jun-07 Feb-01	Anr-98	Feh-93 Jan	-91 .lan-89	Nov-88 Other	flooded? Yes/No	Back Yard Co	mment
	Hunter Street	Waterloo	6	1	,	1	old Common.	THE CANADA COMMISSION	directed	Common	Damago	oommon. unset	Comment	outo.	100,110	oun or Teb or	7ф1 50	1 CD 33 Gail	041100	1407 00 04101	N	7414 00	- International Control of the Contr
92	Ada St	Erskineville	15	1	1				1 ;	3 times in last 15 yrs.					N	1	1	1		2/3 yrs ago, 4/5 yrs ago	N		
										Street under 300mm of water										& 10 yrs ago.			
93	Morley Ave Powell St	Rosebery Waterloo	2 1		1	1	1		1					Both of these stem from the fac	N • V					When ever rain is	N		
94	Fowell St	waterioo	4				1		1					that when there is heavy rain the area where Powell St meets	e					particularly heavy			
														Bourke St in Waterloo becomes flooded.	;								
95	Laveridge St	Alexandria	8 2	1	1	 	Henderson Rd was flooded							nooded.	N					About 2 months ago.	N		
96	Victoria Rd	Beaconsfield	2		1	1									-						N		
	Bunyip Blue Gum Rd	Faulconbridge	Not at all.		1	1																	
98	Cope St	Waterloo	11	1	1			Work as Psychologist in	1					All cars at the lower end of Cope St were flooded internally causing	e Y ng	1					N		ontyard received th water.
								area & patients car was flooded						much permanent damage.									
								in Cope St. This distressed her															
								greatly & did expensive															
								damage which still causes															
								problems 2.5 yrs later.															
	Royal St	Maroubra	30			1									N						N		
101		Alexandria Rosebery	9		1	1									N						N N		
102	Olivia Lane Lachlan St	Surry Hills Waterloo	3 6	1	1	1								No specific flooding that	N						N N		
														disrupted.									
404	Overage Change	Danahani					4 Harry rain in Winter 2000													Winter 2000	V		
104	Queen Street	Rosebery	6 5		'		 Heavy rain in Winter 2006 flooded Gardners Rd near O'Riordan St and Kent Road. 								Y					Winter 2006	Y		
							O Klordan St and Kent Koad.																
105	Belmont Street	Alexandria	10	1	1		1							Projects on which I worked were affected & we made special	N						N		
														provisions for future flooding (flood barrier) along Powel St in									
														Waterloo for the developments the former Chubb site.	on								
4.0-	Caulage Of	Factorion	10							Floor floor Pro													
106	Coulson St	Erskineville	12 9	1						Flash flooding over last decade causing					N						Y		
										road flooding.													
107	Mitchell Rd	Alexandria		1		1									N						N		
	Telopea St	Redfern	7	1	1 1	1									N						N		

	Q1	Q	2		Q3						Q4 C	Comments							C	Q5				
		How long lived or																						
		worked in			C	Net	Routine		Cofotu		A		Duringer			Remember When?							Property Front flooded? Ba	ont/
Number Street	Suburb	locality? Years	Months	Aware Kr	Some nowledge	Not Aware		Comment	Safety Threatened	Comment	Access affected Comment	Damage Comment	Business affected	Comment	Other		Jun-07	Feb-01 Apr-98	Feb-93	Jan-91 Jan-	-89 Nov-88	Other	Yes/No Ya	ard Comment
109 Pleasant Ave	Erskineville	15			1		1				1 Our street/pavement outside our house					N							N	
											has flooded about 5													
											times.													
110 Stedman St	Rosebery		10	-	1		1									N			+				N	
111 Bourke Rd	Alexandria	4	4		1		1 1	Road flooded cnr. Bourke Rd								N							N	
								& Huntley St Alexandria & Bourke Rd & Gardeners Rd.																
112 Brennan St	Alexandria	7	6		1		1									N							N	
]]					
113 Nobbs St	Surry Hills	3				1					4 11510					N							N	
114 Nobbs St	Surry Hills	14	11		1		'				Limited flooding in underground garage					N]]				r	
445 0	Dad/:						1																N	
115 Bourke Rd 116 Baptist St	Redfern Redfern	8 5	+	1		1	1		1							N		_	+ +		+		N N	
117 Nobbs St	Surry Hills	3	2			1	1																N	
118 Mitchell Rd	Erskineville	6	7		1		1																N	
119 Joynton Ave	Zetland	7	3	1			1 1									N							N	
120 Belmont Street	Alexandria	27	-		1		1												+ +				N	
121 Mandible St	Alexandria	4		1			1				1 Road flooding				Botany Rd, O'Riodan St	Y						April 2008?	N	
											7/12/07 difficult to access area.				frequently flood over with excess water. Also Henderson Rd									
															frequently floods with excessive rain.									
122	Erskineville	4			1		1									N			+ +				N	
123 Lawrence St	Alexandria	28	9	1			1				1 Regularly after	During 1999 Hailstorm minor damage - water			Flooding thru Sydney Park pond								Y	1 Backyard Nov88? Yard 150mm under
											heavy rains Lawrence St gutters	ingress via hail damaged			system to top of handrail on pond with island.									raid 150mm under
											are running 2-3m wide.	skylight.												
]]					
]]					
124 Victoria Park Pde 125 Botany Rd	e Zetland Waterloo	3	2	1		1	1 1	Slowly down O'riordan St.	1							N N			+		-		N	
126 Ralph St	Alexandria	3				1	1																N	
127 Boronia St	Redfern	9		1			1																N	
128 Dellview St	Tamarama	2				1	1																N	
129 Pindari Ave 130 Mitchell Rd	Camden Alexandria	27	-			1	1	+	1						+	N N		+	+ +	-	+		N N	
131 Mitchell Rd	Erskineville	9		1			1								Not a daily occurrence, just	Y	1	1	1 1				N	
															affected on ad hoc basis driving down streets impassable by									
															stormwater flooding - around Canal Rd				1 1					
]]					

Q1	1	Q2	Q3						Q4 Comn	monte							Q5					
Q1					Τ				Q+ Collin	inchio												
		How long lived or																				
		worked in locality?	Som			Routine Safety		ess			Business		Rememi When	•						Property flooded?	Front/ Back	
Number Street 132 Cornelia St	Suburb Wiley Park	Years Mont	hs Aware Knowle		1 1		Comment affe	cted Comment	Dam	nage Co	omment affected	Comment Other	Yes/No	Jun-07 Feb-01	Apr-98	Feb-93	Jan-91	Jan-89 No	ov-88 Other	Yes/No N	Yard C	omment
133 Ashmore St	Erskineville	26	1		1								N							N		
134 Rothschild Ave	Rosebery	3	1		1							- never bee	apartment in rosebery n inconvenienced by							N		
												uncontrolled stormwater.	d floodwater or									
100 100 100																						
135 Victoria St	Beaconsfield	60	1	1					1		ainly carpets placement.	out many tir	have been flooded Y mes - but not past few						Before these dates.	Y	1	
												- water cam	ets had to be replaced e up thru bathroom &									
												kitchen floo	r.									
136 Nobbs St	Surry Hills	31	1	1				I 4 January 19	89 in				t times of rainfall Y					1		1 Y		
								afternoon. 8 November 19	184 in			events from since I publi	pluviograph data ished in 1994 a									
								morning. 5 A 1986 day tim	ugust e.				alysis of Sydney flash to 1991 from a									
												meteorologi	cal perspective. - worked as									
												meteorologi	st in Bureau of Met.									
												Research F	ellow at Climate									
												Change Re	search Centre UNSW.									
137 Walker St	Waterloo	10	1	1	-		<u> </u>	Following all	heavy	+			Y	+ +	-				All heavy downpours.	N		
								downpours w builds to 75-1	ater										,			
								deep in kerb immediately	& gutter													
								my property.	outside													
138 Eve St	Erskineville	4 5		1	1															N		
139 Lawrence St	Alexandria	10	1	1		1		1					t rains heavily our Y oded to bottom of car	1					Every heavy rainfall.	N		
													ains overflow.									
140 PO Box 795	Woy Woy 2256	45	1	1		1		1					N							N		
141 Park St 142 Jennings St	Erskineville Alexandria	24 10	1	1 1	_	Flooding in Maddox St years														N N		
143 Grandstand Pde	Zetland	6		1 1		ago. 1 During or after big rain.		1 During or righ	it after			Our cars sw	imming in flooded Y/N						Right after or during big	3 N		
								big rain.					ging the engine.						rain.			
144 Gadigal Ave, 145 Mandible St	Zetland Alexandria	5 8	1 1		1															N N		
146 Abercronbie St	Darlington	25 1		1	_	Flooding occurred early Oct.			1	1 10	0/1984 flooding - back		Y						Oct-8		1	
						1984 my car was flooded up to seats - engine damaged -					art of my house was boded & backyard.											
						unable to go to work.																
147 Rothschild Ave 148 Bowden St	Rosebery Alexandria	9		1	1								N							N N		
140 DOWNEII St	Vievquinig	3	1		'															IN		
149 Powell St	Waterloo	5 9	1	1	+	1 On Joynton Ave near				-+			Y	1	-	-				N		
						Elizabeth St.																
150 Young St 151 Harbourview Cres.	Redfern Milsons Point 2	9 5	1		1								N							N N		
					'																	
152 Newton St	Alexandria	9	1										N							Y	1	
	<u> </u>				1					_					L							
						•												_				

Q:	1	Q2		Q3						Q4	Comments				<u> </u>					Q5				_	
Number Street	Suburb	100.0	onths Aware	Some Knowledge	Not Aware Y	N at	Routine ffected Comment	Safety Threatened Comment	Access affected	Comment	Damage	Comment	Business affected	Comment	Other		Remember When? Yes/No	Jun-07 Feb-01	Apr-98	Feb-93 Jan	-91 Jan-89	Nov-88 Other	Property flooded? Yes/No	Front/ Back Yard Comment	
153 Botany Rd 154 Brandling St	Alexandria Alexandria	72	8 1		1 1	1			1	15-20 years ago?					My house is 1/4 v	way up from	N					1980's?	N N		
										Approx, cars & houses were flooded at bottom of street.					bottom of street I built higher from water did come u	ground - the									
155 Botany Rd 156 Lawrence St	Alexandria Alexandria	17	11 1		1		Laurence St - huge volume of	f	1	Prior to street level							N N					The situation occurs with	N Y	Due to volumes of	of
							water runs down street during storms. Level rises to pavement regardless of drian (corner of Maddox & Laurence Streets) spreads across street.			being raised, small cars often flooded (floor level) if parked parallel to pavement. Significant volumes of water run down street to go down drain at corner of Huntley & Laurence Sts.												storm flooding.		water in Laurence water seems to pu back up my drain pipes (possibly original 1880) and small front yard is flooded. Has not risen above 10cm step into my house	e St ush d
157 Grandstand Pde 158 Belmont Street	Zetland Alexandria	+	10 5	1	1 1	1									Walking across re	road to bus stop	N N						N N		-
															was difficult due to walk around dr										
159 Cope St 160 Eve St	Waterloo Erskineville		6	1 1	1	1	Unable to walk to station via															Dec.2007 Area marked	N N		コ
Tool Eve St	Liskileville			'			normal route.															on map flooded for a few days.			
161 Belmont Street	Alexandria	20		1											Minor flooding at Huntley St many inconvenience ex	t cnr. Belmont & y years ago no xperienced.	N						N		
162 Erskineville Road 163 McDonald St	Newtown Mordialloc 3195	1 Investor	5		1	1											N N						N N		-
164 Phillip St	Waterloo	4			1																		N		
165 Shirley St 166 Nobbs St	Alexandria Surry Hills	5 1	4		1	1											N						N N		\dashv
167 PO Box 7056 168 Chalmers St	Brighton 3186 Redfern		6 1		1 1	1			1	Feb 2007 excessive			+				N Y					Feb-0	N Y		\dashv
169 Norman St	Darlinghurst	6			1	1				flooding into carpark of building caused lift malfunction. Inconvenienced for 1 week.													N		
170 Erskineville Road	Newtown	6	9	1	1				1	Angel St					Difficulty crossing corner of Wilson dry on Erskinevill due to flooding or	St. Also staying lle Rd at Bridge						Aug-0-	I N		

Q:	1	Q2		Q3						Q4	Comment	s						Q	5				
		How long																					
		lived or worked in locality?		Some	Not		Routine	Safety	Access			Business			Remember When?						Property flooded?	Front/ Back	
Number Street 171 Park St	Suburb Erskineville	Years Mo	onths Awa	re Knowledge	Aware Y	N I	affected Comment 1 O'Riordan St in Alexandria ws	Threatened Comme	nt affected	Comment	Damage	Comment affected	Comment	Other Solander Park on Park St	Yes/No Y	Jun-07 Feb-01	1 Apr-98	Feb-93	Jan-91 Jan-	1-89 Nov-88 Other	Yes/No N	Yard Co	comment
							closed/flooded several times during heavy rain. Sometimes it is closed off, or							Erskineville gets flooded very easily. Creates a very muddy area.									
							if not it is unuseable & dangerous to drive thru.																
172 Berith St	Auburn	3	1		1	1									N						N		
173 Victoria Park Pde	Zetland	2	2	1	1		2009 Can't remember exact date - raining after work - a lot of water on street - not								Y						1 N		
174 Phillip St	Waterloo	4	1 1		1		floodwater. 1 Cnr Young & Danks St - late	1 See prev	vious 1	Oct/Nov 2007 - but				These flooding episodes happer	n Y	1				Late Oct.2007 during	Y		
174 Pilling St	Waterioo	1	. .				afternoon - Danks St Festigal 2007 - half road inundated	i Gee pre-	vious	numerous times				when there is a quick but severe storm.		'				Danks St Festival.			
							after heavy downpour.																
175 Mullens St	Balmain	8	6	1	1		1 Sunday Afternoon Early 2006	Not reall however was clos	r road sed to	Our address was unaffected.	0			Nothing of any significance - onl area reguarly flooding is Rickert St & Canal Rd near Airport.	ly N y						N		
								public or later.	n hour														
176 Rosedale Rd	St.Ives	29			1	1									N						N		
177 Harcourt Pde	Rosebery	40	1		1		Luckily mainly on weekends or evenings so getting to work or school not a problem		1	Dates unknown - driveway, road & footpath knee deep.	1	Water did not enter house.			Y					Jan 1996 & Jul 2009	N	ste	Vater reached first tep leading to house could not see the
																							rass.
178 Phillip St (now 3	Waterlan	7													N.						N.		
Bank St Richmond 3121	Waterloo	7			1										N						N		
179 Morley Ave	Rosebery	4	11 1		1		1		1	2007? Morley Ave flooded during heavy	,				Y	1					N		
										rain.													
180 Brandling St	Alexandria	50+	1		1	+	1 1980's		1		1	Vehicles			N						Y	1 Fr	ront - 1980's
181 Kingsclear Rd	Alexandria	39	1								1	Good Friday 1997 house			Y		1				Y		
131 Kingsoledi Ku	ruckanund	33									'	flooded.											
182 PO Box 24	Nowra 2541	15	5		1	1											$oxed{oxed}$				N		
183 Shirley St	Alexandria	7		1	1				1	The apartment complex has					Y					2008 & 2009	N		
										driveway access in Ralph St in heavy rains it floods here.													

	ents Q5
How long lived or worked in locality? Some Not Routine Safety Access	Remember When? Yes/No Jun-07 Feb-01 Apr-98 Feb-93 Jan-91 Jan-89 Nov-88 Other Yes/No Yard Comment
Number Street Suburb Years Months Aware Knowledge Aware Y N affected Comment Threatened Comment affected Comment Dame 184 Bourke Rd Surry Hills 18 10 1 1 1 Difficult to get to work as it was necessary to walk thru water. 185 Surry Hills 18 10 1 1 0 Difficult to get to work as it was necessary to walk thru water.	Age Comment affected Comment Other Yes/No Jun-07 Feb-01 Apr-98 Feb-93 Jan-91 Jan-89 Nov-88 Other Yes/No Yard Comment This incident of flooding was sometime in the early 90's and water just came pouring down Rainford St right up to my front step. If it had come over step water would have been inside house. Y 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
185 Phillip St Waterloo 30 1 1 1 1 1985 1 1	Y Aug or Sept 1985 Y 1
186 Grandstand Pde Zetland 2 1 1 1 187 Cope St Waterloo 4 6 1	N N N October 07? Y 1 Flooded up to front
	flooded twice resulting in damaged carpets & computer under dash board.
188 Cope St Waterloo 25 1 1 1 1 1	
189 Chalmers St Redfern 2 6 1 1 1 7/12/2007 stormwater flooded building garage and lift well breaking the lift. 26/2/2008 1 As previous 1 As previous	On both occasions stormwater Y flooded from the street into our building and from there into lift well, breaking lift. We have had to install extra concrete step in front of lift to prevent further damage.
190 Park St Erskineville 25 1 1 1 1 Minor change of route because of water over roadways. 191 Rothschild Ave Rosebery 6 1 1 1	N Every heavy rainfall. N N N N N N N N N N N N N N N N N N

	Q1		Q2	Q3		<u> </u>			Q4	Comments	s						Q5				_
			How long lived or																		
Number	Street	Suburb	worked in locality?	Some Knowledge	Not e Aware Y	Routine N affected Comment	Safety Threatened Cor	Access	I Comment	Damage	Business affected	Comment	Other	Remember When? Yes/No	Jun-07 Feb-01	Apr-98	Feh-93 .la	n-91 .lan-89	Nov-88 Other	Property flooded? Yes/No	Front/ Back Yard Comment
192 Kings		Alexandria	27	1	1			1		1		OSTATION.	During heavy downpour storm water flowing down Kingsclear Lane could not drain from this	Y	04.101	740.00	1 00 00 00	or can so	1 Best I can remember is mid or late 80's	Y	Water built up in back land and flowed thru several houses
													"dead end" St (due to high retaining wall) The banked up								in Eastern side of Kingsclear Rd, also
													water flowed thru properties on Kingsclear Rd also some properties in Alexander St								property in Alexander St. Water rose 300mm above
													including the Benevolent Society Nursing Home yard.								floor level in my property
193 Wilso	on St	Newtown	8		1 1			1	June 2009 water flooding out of street gutter across path					Y					During wet weather spell in June 2009 - I think.	Y	1 June 2009, front path, standing water
									and into house path. Due to slope water then sits on house												
									pathway. Flood risk as house has basement - some												
									minor water seepage suffered into												
									basement.												
194 Nobb	os St	Surry Hills	7	1	1								My apartment ground floor was						Friends in Arthur St	Y	
													flood damaged prior to my purchase in 2002.						Surry Hills were affected which is next to Nobbs St. Surry Hills flooded		
																			after 1995 - not sure of date.		
195 196																					
196 197 198 Eve :	St	Erskineville	16		1	1				1	Only large hail storm									N	
											May 1999.										
100 Morle	ov Avo	Panahan/	2 5							4	1.5 yrs ago approx. my			N						N	
199 Morle	ey Ave	Rosebery	2 5	1						1	1.5 yrs ago approx. my car was completely flooded by flooding of			N						N	
											stormwater drain in Morley Ave.										
200 Philli 201 Maco	p St donald St	Waterloo Erskineville	14 2 9	1	1 Y	1							Path through the industrial estate	9	1					N N	
202 Epso	ım Pd	Zetland	10		1	1							was flooded.							N	
		St Peters	30			1								N						N	
204 Buck	land St	Alexandria	26	1	Y					1	Nov 1988 my kitchen floor was almost level			Y				+	1	Y	See Q4
											with backyard surface and the constant rain										W.T
											soaked soil & rainwater could not run off properly and the water covered										
											the kitchen floor.										
205 Bapti	ist St	Redfern	5		1	1														N	

Q1		Q2		Q3							Q4	Comments	5							Q5					
		Hamilana																							
		How long lived or																					_		
		worked in locality?	s	Some	Not		Routine	Safety		Access			Business			Remembe When?							Property flooded?	Front/ Back	
Number Street 206 Newton St	Suburb Alexandria	Years Months	Aware Kno	wledge	Aware Y	1 1	affected Comment	Threatened	Comment	affected	Comment	Damage	Comment affected	Comment	Other	Yes/No	Jun-07 Feb-0	1 Apr-98	Feb-93	3 Jan-91	Jan-89	Nov-88 Other	Yes/No N	Yard C	Comment
207 Spring St 208 Hunter Street	Rosebery Waterloo	2 2		1	1 1					1	Approx Nov 2007					N Y						Nov 2007 approx.	N N		
											Hunter St & Bourke St Waterloo Flooded														
											after a heavy storm.														
209 Restwell Road	Bossley Park	rental property			1	1										N							N		
210 Arthur St 211 Renwick St	Surry Hills Alexandria	15 27	1	1		1										N							N		
211 Kenwick St	Alexandria	21	'			'																			
212 Powell St	Waterloo	9	1		1			1	Flooding around Bourke St &	1						Y						Winter (July) 2009	N		
									Powell St																
								l l	intersection (near The Taylors	г															
									College/Jimmy Possum Store)																
									when there is heavy rainfall.																
									neavy rannan.																
213 Spring St	Rosebery	3	1			1										N							N		
214 Victoria St	Beaconsfield	4	1		1				I was concerned							Y	1						N		
									that my car would not make i																
									thru the flooded section.																
215 Botany Rd	Waterloo	15		1	1		1			1			No, but water came very 1 close to entering the		The stormwater drainage does not cope with heavy rainfall or	S Y						Latest was 2008 - we rang Council.			
													shops.		our part of Botany Rd.										
216 Locked bag 5010	Alexandria	26	1		1							1	1			N						About 2-3 times/year!!!	Y		
217 Weedmouth Ave	Rosebery	36 2	1		1		1 1974, 1986, 1989 - could not					1	Slightly - backyard was			Y					1	1987 or 1986 and 1974	Υ		973 or 1974, 1989 an
							get through Lentall St (near Epsom Rd)						flooded, mulch & debris flowed in from											J	an
													neighbouring properties & pets would have												
													drowned had I not been home.												
040 Ma - Da 11 O	English 10	12								1										1					
218 MacDonald St	Erskineville	13	1			1																	N		
219 Grandstand Pde	Zetland			1		1										N		<u>L</u>		$_{\perp}$			N		
						_				_						_		_	_	_			_		

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1 Durrows Rd Diverseys & 1 Rds & foogsate N N N N
1 Burrous Rd Dinnessips 8 1 Rds 6 tooppain: N N N N N N N N N
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1 Across the road Memory is talk water creates large pool in gater about in an across, time N N N N N N N N N
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14 N. Seyoy & Brennan St. Can't explain. 1 McEvoy & Brennan St. Can't explain. N N N N Idive in an a block - wall and on the whole that was that useful. 17 1 Kitchen & Living room N N N N N N N N N N N N N N N N N N N
14 N. Seyoy & Brennan St. Can't explain. 1 McEvoy & Brennan St. Can't explain. N N N N Idive in an a block - wall and on the whole that was that useful. 17 1 Kitchen & Living room N N N N N N N N N N N N N N N N N N N
16 S S S S S S S S S S S S S S S S S S S
16 S S S S S S S S S S S S S S S S S S S
15 McEvoy & Cant explain. N N N Live in an Elive in an
Brennan St. 16 17 1 Kitchen & Living room N N Were room to combination heavy raw ret to cope Sack page a page
16 16 1 N N Live in an ablock - wall don't think that usual. 17 1 Kitchen & Living room N N Were told tombination heavy man be not ocope. Si back lane to been enlarg lane in Plane in
block - wall don't think that useful. 17 1 Kitchen & Living room N N Were told to combination heavy rain Drains were to cope. S back lane to been enlard lane is Part
block - wall don't think that useful. 17 1 Kitchen & Living room N N Were told to combination heavy rain Drains were to cope. S back lane to been enlare lane is Part lane
don't think that useful. 17 1 Kitchen & Living room N N N Were told to combination heavy rain to cope. Si back lane to been ental lane is Part lane is Part
17 1 Kitchen & Living room N N N Were told to combination heavy rain Drains were to Cope. S back lane c been enlarg lane is Part
17 1 Kitchen & Living room N N N Were told tombination heavy rain to cope. St back lane to been enlarg lane is Part
room combination heavy rain Drains were to cope. Si back lane been enlar lane is Pari
heavy rain to cope. St back lane to been entire to lane is Part
Drains were to cope. Stored to
to cope. Si back lane ce de la
back lane in the state of the s
been enlarq lane is Pari
Fear of Ple
18
19 1 Brennan, Stormwater up to N N Mark on ma
McEvoy Streets. & covering
20 1 1 Car Park N N N

ī						Q6												Q7						Q8	Q9	Q10
Number	Garage/Shed (Comment	Res. below flr.level	Comment	Res.above flr.level	Comment	Com.above flr. level	Comment	Com.below flr.level	Comment	Industrial	Comment	Other	Res/	Address Description	Roads/ Footpaths	Address	Description	Parks Ad	ddress	Description	Other	Yes/N o C		res/N o Comment	Additional Information
22					1	Oct.1984 approx 10p.m.							Flooded to a depth 900mm in 1984.			1	Our address	At least two occasions since					N		N	Drains in our street are sometimes full of
													The Waterboard was doing large					1984 - approx 1994 the water has risen								refuse. We have contacted Council and
													excavation work at North end of our					to our front door since.								they come and clean it. However this
													street at the time.					Sirioc.								should be done on an annual basis.
																										ailiuai basis.
23																1	Cnr. Pitt &	There is a large	1 Al	fred Park			N		N	Why is there no water
																	Cleveland Sts on side same as PO	collects on road			crossing park turns into a bog					harvesting done in Sydney. There is a
																	Building	which sprays pedestrians.			when it rains. Pathway by					valuable resource going to waste into the
																					school is too broken.					sea. Collect this wate & purify it then sorts
																										the water shortages out!!
24	1 E	Believe it was Winter 2008.												1	Brandling St. See Q4								N		Y Damage to	
	ľ	Williel 2000.																							garage - watermarks	&
																									woodrot.	
25	1	Garage			1						1		All storm drains were blocked on			1	Brandling St, Newton Lane,							T		Flooding in Brandling St, Newton Lane &
													Friday 10/4/98.				Kingsclear St.									Kingsclear St caused damage to most
																										parked cars. (the Alex.Canal was
																										flooded) Storm drains in these streets could
																										not accept the
																										rainwater. I had my car repaired at a cost
																										of \$1,000. Reported flood at time to Mr.
																										Philip Gratton at City of Sydney Cncl.
26 27																							N		N N	
28																	O Double A	0					N		N	N-d
29																1	Young St	Suspect drains blocked, several					N		N	Mark on map
																		occasions each year water on road								
																		required travel other side follows								
																		heavy rainfalls.								
30			1				1									1							N		N	
55																										
31													Driveway flooded could not enter our										Y 9	0%	N	
													complex.													
32												<u> </u>	Road at front of			1	Burrows, Euston							+	Y Garden bed	s
													building gets serious flooding or				Rds.								eroded.	
													many occasions.													
33																					0.1		N		N	
34																				exandria	Sydney Park is regularly flooded		N		N	
																					& water takes months to drain					
																					properly away.					
35											+			\vdash		1		Flooding because					N	+	N	
																		blocked by debris -								
																		need clearing regularly plus								
																		barrier to stop debris.								
															achlan St. Outside Lands	4	O'dos Arra	Noor Kaasas 1					N		N N	
36						l	1							1 1	Lachlan St. Outside Lachlan St.	1		Near Kennards Storage.					N		N	
36 37									'									3 -		Į.						
37 38																							N		N	
37																							N N		N N	

					Q6													Q7						Q8	Q9	Q10
umber Garage/Shed (Comment	Res. below flr.level	Comment	Res.above flr.level	Comment	Com.above flr. level	Comment	Com.below flr.level	Comment	Industria	Comment	Other	Res	n Address	Description	Roads/ Footpaths	Address	Description	Parks	Address	Description	Other	Yes/N	Comment	Yes/N o Comm	nent Additional Informati
41							Commone			madoma	Common					Состранно			, and							When it rains the wa
																										gutters (street gutte unaided because of
																										the tree roots.
42													1	Intersection		1	Botany Rd, Odea						N		N	
														of Mitchell Rd &			Ave, Bourke Rd.									
														Anderson S												
43													1	Mitchell Rd		1	local		1	Erskinville			N		N	
44										-			-							Oval					N	
45 46										1	Late 1960's early	/ 1970's											N N		N N	
											Edito 1000 0 dany	1														
47 48																1	Cnr	During heavy rain					N N		N N	
																		floods - nearly to								
																		our house.								
49 50 1		4	At times of hear													4	Cor Bridge 0	About 1 foot of		Sudno: Dad	Lorgo poddies o		N		N N	
50 1			At times of heavy rain, parts of our													1	Victoria St	About 1 foot of water of about 50	1	Syuriey Park	Large puddles & muddy lasting for		N		IN	
			common parking area become														Erskineville	square metres.			weeks.					
			flooded (there are 2 dips where it																							
			occurs). Last up to 1 hour - Eve St.																							
			Erskineville																							
51													1	Surry Hills	Localised flooding							Young St end	N		N Neighb	pour has Mark on map
														Shopping Centre car	in bottom section of carpark approx							of Boronia St water on road			lived in	n area 40 & tells
														park	200mm deep.							up to footpath.			stories	of having ace the
																									carpet	twice but drain has
																									fixed the problem	his
																									Boroni	
53																							N		N	
53 54 55																							N		N N	
56																1		Road flooding 2007	7				N		N	Mark on map
																	Wellington St Waterloo									
57																1	Botany Rd 2008, McEvoy 2008/07,		1	Alexandria Park 2007			N		N	Mark on map
																	Ralph St 2008.									
58					†			1					1		50cm of water			50cm of water					N		N	
				<u> </u>	<u> </u>									Alexandria 8 Rosebery			Alexandria & Rosebery			<u> </u>		<u> </u>				
59	·							1					1	Botany Rd Alexandria	50cm of water		Alexandria &	50cm of water					N		N	
60					 	-						-	-	Rosebery	1		Rosebery		-		-		N		N	
61 1	As per Q4 -															1	Bourke Rd	Sections of the	1				N		N N	
	apartment,garage was flooded during																	street were flooded immediately after	1							
ľ	these two events.																	thunderstorm. I was travelling from	1							
																		Green Square Junction to								
																		Gardeners Rd using Bourke Rd.								
				<u> </u>	<u>L</u>			<u></u>				<u> </u>			<u> </u>			<u></u>		<u> </u>	<u> </u>	<u>L_</u> _				
62 63	-			1	1										1	1	Wilson St.	Drains blocked or		1			N N		N N	Mark on map
																		backed up and water up to and								
																		over gutters.								
64													#										N		N	
65 67		1	Unerground	-	+	+				-		+	+			1	Cnr. Mitchell Rd	Flooding Gutters	1			-	N N		N N	Mark on map
			carpark Oct/Nov 2004.														& Coulsen Sts.									
						1										İ			1			İ	1 1		N	
68																- 1	Botany Rd	Various in	- 4	Sydney Park	Paths flooded		N			
68 69																1		Various in stormwater flooding	1	Sydney Park	Paths flooded		N		N	

			I		I	Q6													Q7					Q8	Q9)	Q10
Number 70	Garage/Shed	Comment	Res. below flr.level	Comment	Res.above flr.level	Comment	Com.above flr. level	Comment	Com.below flr.level	Comment	Industrial	Comment	Other	Res/ Com	Address	Description	Roads/ Footpaths	Address	Description	Parks	Address	Description	Other	Yes/N o Comment N	Yes/N o Comm	nent A	Additional Information
71					1	Several times during heavy									Corner of Botany Rd &		1	Corner of Botany Rd and collins St						N	Y Some photog	graphs	
						rain									Collins St.										marks house	ng "tide " in our and yard	
																									sunker of our courty		
																										alu.	
72 73																								N N	N N N	V	Vhile it is obvious this
14																										is S	ssue is a problem for ome. I have never
																										p	experienced any problems. I own an envestment in the area
																										W I	which has not suffered lived within the wider area (Newtown) from
																											1005 to 2009 (early).
75 76																	1	Bourke St North	Roads & footpaths					N N	N Y Floodi	ing caused N	Mark on map
																		of Dacey Ave. O'riordan Street	flood during heavy rain. On two						by blo	cked drain r. of Mount	
																		South of Green Square	occasions I have seen O'riordan St closed by						Redfe the foo	harles St rn caused otpath to	
																			floodwaters.						subsid of inch Dama		
																									repaire still ev	ed but is rident on	
																										ction. Part	
																									at this	point has ubsided.	
77																									N		
78 79																								N	N N		
80																	1	Ashmore Rd	Beneath Rail Bridge/Intersection					N	N		
																			St, Erskinville Road severely flooded.								
81														_			1			1	1 Harry Noble	Large ponds		N	N		
																					Park	near playground up to 4 days after heavy rain.	l er				
92						1														_		nouvy ralli.	1	N	N		
83						1											1	Burren St (near dead end)	Leaves blocked drains, water rose					Y 100% blocked	N	N	Mark on map
																			to such an extent that it rose above doors & flooded					drains (what are culverts?)			
																			several cars.					Leaves & rubbish.			
84																							1	Y 80% debris caught in	N		
															<u> </u>									grids in gutters.			
85																		Alen Object	Flooding					N	N		
86						1								_			1	Alex- O'riordan S	rioouing	<u> </u>			1	N N	N N	-	
88														_						\vdash				N	N	+	
89																		Joynton Ave south of Elizabetl St intersection.	ו					Y Cnr Gadigal & Joynton	N	S	Sketch on submission
																		ot mersection.									
90						1							1												N		

						Q6											Q7						Q8	Q9	Q10
			Res. below		Res.above	Com.abo		Com.below					Res/		Roads/							Yes/N	Ve	s/N	
Number 91	Garage/Shed (Comment	flr.level	Comment	flr.level Comn		l Comment		Comment	Industrial	Comment	Other		Address Description	Footpaths Add		Description Flash floods due to	Parks Addre	ss De	escription	Other		Comment	Comment	Additional Information Mark on map
01															Wa on	aterloo [see (1) map] Bourke	heavy rain. Cars were washed down					.,		•	main on map
															St a Jur	at Powell St nction	street on one occasion. Happens								
															Wa on	map]	during heavy rain regularly. Road								
																	surface regularly washed away								
																	during heavy rain. New road surface								
																	already breaking up.								
92															1 Ada		Water build up							N	Mark on map
																	during & after torrential rain, road 300mm under						e drains were blocked (see map)		
																	water								
93 94												+	+			nr. Bourke St &						N		N N	
																aterloo	amasses quite quickly that one								
																	drives around another way.								
95																		1 Techr Park	ology I v Oval flo	was partially ooded.		N		N	
96												Botany Rd & McEvoy Rd										N		N	
												Alexandria. Stree													
												months & affected traffic flow in both directions	1												
												directions													
97																									
98															1 Cop	ppe St Waterloo	High water getting inside the whole						Did not go into street	Y Sydney City Mission who	
																	street of parked cars.						but was told by rescue	previously owned my	stormwater channels to make sure they are not
																							team that the stormwater	property were aware of my	heavy downpour of
																							channel was blocked and	property being flooded about	g rain. Mark on map
																							overflowed huge amounts of	25-30 years ago.	
																							water.		
99 100																						N N		N N	
101 102																						N N		N N	
103														Victoria St, Everytime in heavy Potts Point rain street would	1 Joh		Heavy rain gutters blocked & was						50% blocked	N	Mark on map
														flood in gutters making it impossible to cross			difficult to cross road.						with leaves/sticks.		
														street. *Not relevant for this											
												<u> </u>		area.											
104				Basement after heavy rain - can't																		N		N	
				remember when.									1												
105															Rd,	l, Bowden St,	Occurs at every heavy downpour.					Υ	Debris/leave s/branches	N	Mark on map
															& F	r of Lawrence Fountain St.									
															Eus	iston Rd									
106										-		1	1		1							Υ	Soil from	N	Mark on map. Have
																							streets leaves from		frequently phoned to ask for stormwater
																							neighbouring property's		drains to be cleared on corner of Eve St &
																							trees		Coulson St.
107 108															1 Tel	lopea St	Flooding of					N N		N N	Please contact by
100															l lei		kerbside to centre of road					'1		•	email only
			1								l		1	l l				L L				<u> </u>	1		1

						Q6													Q7						Q8	Q9	Q10
Number 109	Garage/Shed	Comment	Res. below flr.level	Comment	Res.above flr.level	Comment	Com.above flr. level	Comment	Com.below flr.level	Comment	Industrial	Comment	Other	Res/ Com	Address	Description	Roads/ Footpaths	Pleasant Ave	Road & footpath	Parks 1	Victoria St	Description Under railway	Other	Υ	Couldn't Y	Comment Sketch on	Additional Information
																			outside our house			bridge sometimes too much to drive			drive under the railway bridge in	survey form.	
																						through			Victoria Rd. Blocked by excessive		
																									water on road too deep to drive thru.		
110																								N	N		
111																	1	Summer Hill	Varies across the lanes to 400- 500mm deep					N	N		
112														1	Botany Rd	Not due to rainwater but	1				Park	Small areas in park in heavy		N	N	1	
																construction destroying a water main						rain have large area of water					
113 114	1	Underground																						N	N N		
115		garage slight flooding.																						N	N		High Inc. of all 2
116																								N	N	'	High level of rising damp in houses/buildings in
																											some parts of the catchment - altered subterranean flows. It would be important to
																											investigate/map/quanti fy subterranean water especially as aquifers
																											are known to occur with increased hard surfaces & obstructed
																											water flow (eg tunnels, underground buildings, cuttings.
																											g-
117																								N	N		
118																				1		Footpaths & grassed areas.		N	N		
119																	1		Water overflows from kerb to footpath during					N	N	I	Marks on map
120																			heavy rain					N			
121																	1	Botany Rd (near Henderson Rd)	river of water (no drainage?)					N	N		Marks on map
122																								N	N		
123					1	Units across road had carpark flooded								1		Unit carpark flooded Lawrence St Alex. SES/Fire	1	Lawrence St between Maddox & Huntley	Road up to 300mm deep at gutter.	1 1	Sydney park			Υ	Cardboard Y 95% blocked laneway		od Marks on map f
						to 1 metre.										Brigade pumped it out.		,							drains - since the conc.lintel	in Sydney Par Nov.08?	k -
																									added. Trapped pits not		
																									maintained enough & plastic		
																									bottles floating/block ing pits.		
124 125 126																	1	O'Riordan St.						N N	N N		
127																								N N	N		
129 130																								N N	N N		
131																	1	Canal Rd, Euston Rd? (not sure of name) Street						N	N		
																		surrounding back of tip off Canal Rd.									

						Q6													Q7						Q8		Q9	Q10
Number	Garage/Shed	Comment	Res. below flr.level	Comment	Res.above flr.level	Comment	Com.above flr. level	Comment	Com.below flr.level	Comment	Industrial	Comment	Other	Res/	Address	Description	Roads/ Footpaths	Address	Description	Parks	Address	Description	Other	Yes/N o	Comment	Yes/N o C	omment	Additional Information
132 133																		Victoria Rd Erskineville	Water on Rd under railway overpass.	ſ				N Y	50% water	N N		Mark on map
134																		Listanovino	raimay everpass.					N		N		
135	1		1		1		1		1		1		All of these - can remember dates											N		N		
													romoni datos															
136			1	Kentall St 8													1	Nobbs St, Surry	Road flooding.	1	Centennial	Allison Rd		Y	Road 80%	N		Marks on map
				Nov.1984 when rainwater from st. entered under front														Hills. Kendall St Surry Hills			Park	flooding.			blocked outside Nobbs St on			
				door at floor level.																					4 Jan. 1989 - litter most likely.			
																									,			
137																		Walker St, Waterloo	As previously described.					N		N		
138 139																	1	Cnr Maddox &						N N		N		Marks on map
																		Lawrence Sts also cnr Maddox & Bourke Rd.										
140														+			1								100%	N		
141																								N	general rubbish	N		
142 143																	1	Johnton Ave						N	80% blocked	N N		
143																	1	Johnson Ave							by leaves & rubbish.	IN .		
144 145																								N N		N N		
146					1								Car - engine flooded Oct 1984	1.				Buckland & Wyndham Sts.	Flooded very high and moving very fast.	1	Buckland St.	Alexandria Park	:	Y	Drains on all corners of Buckland St	N		October 84 floods - there had been heavy rain for several days
																			iast.						& Wyndham St			prior. Streets were not cleaned regularly (as
																									intersection were approx 80% blocked			they now are) and the build-up of leaves etc. in gutters caused
																									from leaves etc.			blocked drains when the rain came.
147 148																								N N		N N		There is a canal in front of my warehouse,
																												but we have not had flooding or overflow of
																												the canal in the last 9 years. (2000 - 2009)
149														++			1	Joynton Ave near Elizabeth St.		-				N		N		Have heard that
																		Liizabetti St.										Wyndham St near Green Square can flood but have not
150														$\downarrow \downarrow$						1				N		N		witnessed it. Mark on map
151																										N		
152						Not sure of date - happened before moved																		N		N		
						in. Neighbours in block told me.																						

						Q6													Q7						Q8	Q9	Q10
Number	Garage/Shed (Comment	Res. below flr.level	Comment	Res.above	Comment	Com.above flr. level	Comment	Com.below flr.level	Comment	Industrial	Comment	Other	Res	n Address	Description	Roads/ Footpaths	s Address	Description	Parks .	Address	Description	Other	Yes/N o		es/N o Comment	Additional Information
153 154														1	End of Kingsclea	Last house in stree had extensive damage.	et 1	Allan Lane end of Brandling St & Kingsclear Rd.						N		N N	Mark on map. Bigger drains were put in and improved the drainage
																damago.		rungoodar red.									in our street & Lanes. I have seen water come up the street if
																											the drains are blocked with leaves. This happens when there are very heavy rain
																											falls.
155 156																	1	Botany Rd Cnr. Maddox & Laurence St. Alexandria	Flooded road - remains after storm - work done on that							N N	Gum trees have increased level of rubbish in streets -
																			corner has not really fixed the drainage problem -						leaf litter - water spreading		Council needs to clear and mayby plant different trees.
																			gum trees along Laurence & Maddox Sts drop leaves continually						down Laurence St to Huntley St.		
																			so block drains.								
157 158																	1	Belmont Lane near Huntley St.	Flooding near					N N		N N	
159																			heavy rainfall and leaves.					N		N	
160																								N		N	Mark on map
161																								N		N	Have recently found that stormwater pipes under road near my
																											property partly blocked with sand/soil because of gaps in them This
																											could cause local flooding.
162 163																								N		N Tennant nev mentioned it	er You may get a better response from tennants than owners.
																											The map enclosed was missing all streets in Victoria Park eg.
																											Gadigal Ave, Grandstand Pde, etc.
164 165 166																								N N		N N	
166																								N		N	There are always floods on main road (O'Riordan) just outside and past
																											outside and past Green Square Station. Everytime it rains there are huge puddles and it is impossible to
																											drive. I take that road everyday to work. I marked the area on
																											the map included. Mark on map.
167 168													Also Redfern I							1	As previous.			N N		N N	
													after heavy ra serious pooling water.	n -													
169																	1							N		N	
170																	1	King St (corner of Wilson St)						N		N	

					Q6	_											Q7				(28	Q9	Q10
		Res. below		Res.above		Com.above		Com.below							Roads/									
Garage/Shed	Comment	flr.level	Comment	fir.level	Comment	flr. level	Comment	fir.level	Comment	Industrial	Comment	Other	Com	Address Description	Footpaths 1	Address O'Riordan St, Alexandria	Description	1 Solander Park, Park S		Other	o Co			Additional Information
																					N N			
1	our residential development was built on top of old water reservoir														1			& Lang Rd	d Severe flooding at the intersection.		ex co Yc Ph (50 by all ex cit 10	ception of oner of ung St & illip St illip St il	walls & Photos in terms of the	bioswales &
													1	MacDonaldto As per Q4 wn Station	1						of un bri Ma	Burren St der rwy dge at icdonaldto	N	Marks on map
																					N N			Harcourt Parade
																								mainly floods in heavy rains due to dirty gutters that then block drains stopping water flowing. On many occasions I have unblocked drains in heavy rains to stop us flooding.
																					N	1	١	
															1	Mascot, near airport tunnel.					N	1	flooding -cars damaged -	
1	1980's	1	1980's												1	Henderson Rd							N.	Lower part of Brandling St has been subjected to flooding many times over the years due to blocked drains mainly from leaves. Trees are type that constantly drop leaves. Regular cleaning of drains can assist.
		1	Good Friday 1997	1	Good Friday 1997								1									Ŋ	walls plus Insurance claims	1
															1	Botany Rd. Westside of Botany Rd	Square bus stop. Just south of Storage King Both are flooding across road from kerb,especially on				N N			
	1	1 Basement carpark - our residential development was built on top of old water reservoir according to Coursell Documents. It is possible the water table rises & partially floods our basement carpark (in corner) due to this history.	1 Basement carpark - our residential development was built on top of old water reservoir according to Council Documents. It is possible the water table rises & partially floods our basement carpark (in corner) due to this history.	1 Basement carpark - our residential development was built on top of old water reservoir according to Council Documents. It is possible the water table rises & partially floods our basement carpark (in corner) due to this history. 1 1980's 1 1980's 1 Good Friday 1997	A searage/Shed Comment ffr.level Comment ffr.level 1	Garage/Shed Comment Res. below fir. level Comment 1 Basement carpark - our residential development was built on top of old water reservor. Documents. It is possible the water table rises & partially floods our basement carpark (in corner) due to this history. 1 1 1980's 1 1 1980's 1 Good Friday 1997 1 Good Friday 1997 1 Good Friday 1997	Garage/Shed Comment Res. below fit/level Comment Commabove fit/level Comment fit/level Comment fit/level Comment Commabove fit/level Comment fit/level Comme	Garage/Shed Comment Res below Of kinet Comment Price Comment Comment 1 Basement carpark - our residential development was a country of the c	Garage-Shed Comment Res. below If level Comment Res. below If level Comment C	GungeSted Comment Ras below Comment Rivers Command	Garage/Shee Comment Residue Comment Residue Comment Com above Rickers Comment Rickers Comment Rickers Comment Rickers Comment Rickers Comment Rickers	GangaGhad Comment Residence Wildred Comment Residence Wildred Comment Company Comment Com	GampelShed Comment Rep. 3-509 Comment Rep. 3-509 Comment Rep. 3-509 Comment Rep. 3-509 Comment Rep. 3-509 Comment Rep. 3-509 Comment Rep. 3-509 Comment Command Command Comment Command Comment Command Comment Command Command Comment Command Command Comment Command Comment Command Comment Command Command Comment Command Companies Comment Rac Sidos Co	Security Security	Security Security	Second S	Comparison Com	Section Sect	Second S	Note 2 and 1	Separation Market	March Marc	Company Comp	

					Q6													Q7						Q8		Q9	Q10
	Garage/Shed	Comment	Res. below fir.level Comment	Res.above flr.level	Comment	Com.above flr. level	Comment	Com.below flr.level	Comment	Industrial	Comment	Other	Res/		Description	Roads/ Footpaths	Address	Description	Parks	Address	Description	Other		Comment		omment	Additional Information
18	4											In this area of Surry Hills we have a high water table so any flooding accentuates this and the result is rising damp and movement of the buildings causing cracks, etc.											N		N		Mark on map
18	5		1	1								It was midnight, just going to bed. At this time we lived at Marriott St. Water poured in under front door & upstairs in rooms & bathroom. Swept water under house thru removed floor boards to cavity under floor 1 m deep which filled up.		Bourke St. Redfern. Phillip St Waterloo & Young St - Walker St.	Houses were flooded in area of Telopea St.									Drains were blocked with hay washed from Police Academy in Bourke St. In our part of Marriot St there was a big trench down the middle of the road where a new sewer new sewer bip be was to be put in . Planks of wood floated.	0	AS pumped us ut twice.	Marks on map
18													1	Cope St	Around large drains that feed small canal.	S								Large volume of rain & the canal overflowed and backed up drains.	N		
18			1										1			1								90% blocked the canal on cope St between Botany Rd & Cope St.			I would like to be informed as to the results of this study and future plans for stormwater drainage. Marks on map.
18		7/12/2007, 26/02/2008																					N		N		
15																	Fountain St, Alexandria Cnr Belmore/Cnr Lawrence	Blocked drains on street corners, every time heavy rain. Flooding easily preventable by street cleaning, especially if done by local proprietors & residents. Laziness & stupidity on the part of locals.				McEvoy St/Bourke St/Lachlan Ave intersection	N		N		Many heavy rain events cause rubbish-leaves & plastics to block street drains. Council could cleanup regularly or provide street sweeps prior to forcast rain or patrol & clean up blocked drains during heavy rains and encourage local businesses & residents to clear blocked drains & report same. Marks on map.

						Q6												Q7						Q8	Q9	Q10
	Garage/Shed	Comment	Res. below flr.level	Comment	Res.above flr.level C	comment	Com.above flr. level	Comment	Com.below flr.level	Comment	Industrial	Comment	Other		Address Description		Roads/ potpaths Address	Description	Parks	Address	Description	Other		Comment	es/N o Comment	Additional Information
192	1		1		1								The lane has had build up of water other times but no sufficient to cause me any damage.	ıt t										Existing drains could not handle flow also at the time it	N	It is noted that plans for a recent (07-08) development application for property on Kingsclear Rd
													me any damage.											was reported that the downpour happened at		depicts a design to allow flood water to pass under the proposed new
																								the same time as a king tide in canal.		structure (not yet built) It appears Council officers are aware of the potential problem.
193			1	Standing water																			Y	Generally		Marks on map
				caused some seepage into subfloor basement.																				appeared to be leaves covering drains. Also		
																								caused by parked cars - washed out leaves/rubbis h back up		
																								behind car wheels, reducing gutter		
																								capacity, causing water to flood across		
																								footpath.		
194			1	Carpet was taken up & relaid.																			N		N	
195 196																										
197 198																								street drain	N	
																								blocked corner Eve St & Caulson St due to		
																								heavy vegetation & sand bags left by		
																								builders in area.		
199																	1 Morley Ave, Botany Rd near rosebery	Subway flooding stormwater on roads.	of				N		N	
200																							N		N	
201																		Road flooded nea railway overpass.					N		N	Mark on map
202																									N N	
																								debris in the canal, trees & general rubbish - say 30%.		
204				It was above floor level										\dagger		\top	Buckland St	Water covered th roadway & footpath. Police					N		Y A photo "somewhere" from 2008!	Although this is late, it does explain the circumstances in my
																		were redirecting traffic so vehicles could not travel thru area.								location.Mark on map.
205											1															

ı						Q6										_			Q7						Q8		Q9	Q10
			Res. below		Res.above	e	Com.above		Com.below					Res	,		Roads/							Yes/N		Yes/N		
Number 206	Garage/Shed	Comment	flr.level	Comment	flr.level	Comment	flr. level	Comment		Comment	Industrial	Comment	Other		Address	Description			Description	Parks	Address	Description	Other		Comment		omment	Additional Information
207																								N		N		
208																	1	Waterloo	Hunter St flooded together with					N		Y To Hu	ook a photo of unter St.	Marks on map.
																			Powell & Bourke Stafter heavy rain.	t								
209 210																								N N		N N		
211				Over 27 years during extremely heavy downpours.													1		Major flooding forming a dam effect in various					N			atermarks	
				neavy downpours.															sections along the road - i.e. end of							my	ainst side of y house.	
																			Renwick & Mitchell									
212																								N		N		
213																								N		N		Residents would give more feed back if they
																												can get more educations about stormwater flooding!!!
																												o.commutor necumg
214																	1	Near cnr of Botany Rd & Bourke St	Deep flooding over Botany Rd.					N		N		
																		Bounto of										
215																	1	Botany Rd,						N		N		<u> </u>
																		Waterloo										
216									1	Commercial offices				1	King St	Commercial offices								N		N		You need to build
										flooded at floor level					Mascot	flooded.												protection walls to prevent water
																												overflowing from the canal into my property.
217	1	1973 or 1974, 1989															1	Corner of	Making a left hand turn from Dalmeny					N		N		Marks on map
	•	Jan																Gardeners Rd,	Ave into Gardeners Rd was not									
																			possible (water subsided quickly									
																			after rain ceased)									
218																	1	Victoria St	Flooded road					N		N		I understand that my
																		Erskineville under railway line										local area was once swamps - It would be
																												great to restore some areas for natural infiltration and
																												overland flow. Especially the buffer
																												zones along either side of the Erskineville
																												railway line.
219																								N		N		

Appendix C Calibration Results

Table C.1: November 1984 Calibration Results

Location ID	Location	Description	Source	Observed Flood Depth (m)	Modelled Flood Depth (m)	Observed Level (m AHD)	Modelled Level (m AHD)	Diffe	rence	Comments
								Diff. (m)	Based on (D= Depth, WL= Water Level)	
A	Joynton Ave, Patient Care Facility/Footpa th	Flood Depth of 1.0m in a patient care area of the South Sydney hospital (Joynton Ave)	WMA	1.00- 1.20m	1.07m	18.80- 19.30	18.85	0.05	WL	Satisfactory comparison between observed and modelled level.
В	Milroy Ave	Flooded 83 properties in the West Kensington areas including locations in McDougall Street, Milroy Avenue, Lenthall Street and Balfour Street. 27 of these properties were flooded above the main floor level.	WMA		0.55	25.2- 25.5	24.98	-0.22	WL	The model shows that the properties in the street are flooded and the depth refers to the low point on the street.
С	Lenthall Street	Same as Above	WMA		0.78	21.3- 21.7	21.63	-0.07	WL	Satisfactory comparison between observed and modelled level.
D	McDougall Street	Same as Above	WMA		1.23	24.60- 24.90	24.68	-0.10	WL	The model shows that the properties in the street are flooded and the depth refers to the low point on the street.

Location ID	Location	Description	Source	Observed Flood Depth (m)	Modelled Flood Depth (m)	Observed Level (m AHD)	Modelled Level (m AHD)	Diffe	rence	Comments
E	25 Pleasant Ave, Erskineville	Backyard flooded. Flooding above Floor Level. Carpet in kitchen & living room had to be replaced.	CC		0.60		10.04		WL	Floor Level= 9.61. The model shows that the property is flooded and the depth and WL refer to the backyard.
F	141 Marriott St, Redfern.	Flooded to a depth 900mm in 1984. The Waterboard was doing large excavation work at North end of our street at the time. Drains in our street are sometimes full of refuse.	CC	0.90	1.00	N/A	29.49	0.10	D	Floor Level= 28.79. The model shows that the property is flooded and the depth refers to the front of the property.
G	15 Bourke Road	Flood Level was identified at S & S Scrap Metal Pty Ltd, 15 Bourke Rd and recorded above the FFL.	HT& PC		0.63	8.96	9.08	0.12m	WL	Satisfactory comparison between observed and modelled level.
Н	9/15, Bowden Street		WMA *		0.80	7.85	8.10	0.25	WL	Reasonable comparison between observed and modelled level.
I	Low Point in Bowden Street. (Upstream of Channel)	Above Floor Level. Insufficient capacity within the road reserve to contain flows generated by storm event. Evidence in the 1984 storm event suggested backflows from drains and sewers.	WMA *	1.00	1.71	7.86	8.10	0.24	WL	The flood depth in the paper store was about 1m.

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Location ID	Location	Description	Source	Observed Flood Depth (m)	Modelled Flood Depth (m)	Observed Level (m AHD)		Difference		Comments
J	38 Bowden Street	Above Floor Level.	WMA *			7.93	8.10	0.10	WL	Satisfactory comparison between observed and modelled level.
К	STC Alcatel Building – Bowden Street.		WMA *			7.86	8.06	0.20	WL	Satisfactory comparison between observed and modelled level.
L	Intersection of Collins Street and Botany Road	29 houses and 4 shops flooded. Depth of water ranged from 0.05 to 0.5. Associated low point at the intersection of Collins Street and Botany Road.	HT& PC	0.05-0.5	0.94		13.79		D	The modelled depth of 0.9m is determined at the properties fronting Botany Road near the intersection. Floor levels would be expected to be above the modelled levels thus the model is considered satisfactory.

WMA = Webb, McKeown & Associates Pty Ltd (2008), CC = Community Consultation, HT&PC = HughesTrueman & Perrens Consultants Pty Ltd (2003), WMA *= Webb, McKeown & Associates Pty Ltd (1991)

Table C.2: - 26 January 1991 Calibration Results

Location ID	Location	Description	Source	Observed Flood Depth (m)	Modelled Flood Depth (m)	Observed Level (m AHD)	Modelled Level (m AHD)	Difference		Comments	
								Diff. (m)	Based on (D= Depth, WL= Water Level)		
А	Upstream of Hiles Street	Debris on fence.	WMA			9.22	9.38	0.16	WL	Satisfactory comparison between observed and modelled level.	
В	Roko Packaging Pty Ltd, No. 44 Hiles Street	Distinct mark on the outside wall.	WMA			9.18	9.27	0.09	WL	Satisfactory comparison between observed and modelled level.	
С	Between Hiles Street Bridge and A.T.Hydraulic Driveway.	Debris on fence.	WMA			9.10	9.25	0.15	WL	Satisfactory comparison between observed and modelled level.	
D	A.T.Hydraulic , Hiles Street.	Distinct mark on the outside wall.	WMA			8.79	9.17	0.38	WL	Observed level is queried. Model is consistent comparing the upstream and downstream levels.	

Location ID	Location	Description	Source	Observed Flood Depth (m)	Modelled Flood Depth (m)	Observed Level (m AHD)	Modelled Level (m AHD)	Diffe	erence	Comments
E	Between A.T.Hydraulic Driveway and McCauley Lane Bridge.	Debris on fence.	WMA			9.01	9.13	0.11	WL	Satisfactory comparison between observed and modelled level.
F	McCauley Lane Bridge	Debris on fence.	WMA			8.77	8.81	0.04	WL	Satisfactory comparison between observed and modelled level.
G	Upstream of McCauley Lane Bridge	Debris on Fence.	WMA			8.67	8.40	-0.27	WL	The model shows that flood water overtopped the McCauley Bridge.
Н	Downstream of McCauley Lane Bridge	Debris on Fence.	WMA		0.35	8.42	8.23	-0.19	WL	Satisfactory comparison between the observed WL.
I	Just Behind S.T.C.Buildin g, Bowden Street.	Distinct mark on overbank.	WMA			7.51	7.54	0.03	WL	Satisfactory comparison between the observed WL.
J	S.T.C.Buildin g, Bowden Street.	Distinct mark on the wall facing Bowden Street. Flood marks are clearly seen on the front wall next to the channel in	WMA	0.30	0.33	7.11	6.74	-0.37	D	Water ponding at the low point on Bowden Street.

Location ID	Location	Description	Source	Observed Flood Depth (m)	Modelled Flood Depth (m)	Observed Level (m AHD)	Modelled Level (m AHD)	Difference		Comments
		Bowden street 0.30m above the drive way.								
К	Alexandria and Main Channel Confluence	Debris on overbank – note that the reported level is rated as "Level unsure, location well defined" in the original document.	WMA			5.40	6.02	0.62	WL	The reported level is not confirmed and the modelled results are considered satisfactory the other calibration points upstream for this and the 1984 event.
L	Just before Maddox St car park.	Debris on overbank – note that the reported level is rated as "Level unsure, location well defined" in the original document. A subsequent inspection noted that "water might just reached the top of the coping."	WMA			4.94	5.48	0.54	WL	The top of bank for the channel is modelled as RL 4.97m. The carpark constructed over the channel constrains the flows and increases the flood level above the coping. The modelled results are satisfactory considering the other calibration points upstream for this and the 1984 event.

Location ID	Location	Description	Source	Observed Flood Depth (m)	Modelled Flood Depth (m)	Observed Level (m AHD)	Modelled Level (m AHD)	Diffe	erence	Comments
M	Cope Street and Wellington Street	At the junction of Cope Street and Wellington Street water was 0.40m to 0.50m deep over the footpath.	WMA	0.40m- 0.50m	0.51m		15.42	0.12	D	Satisfactory comparison to the observed depth.
N	Boronia Street and Marriott Street	It was 0.40m deep over the footpath at the Boronia Street and Marriott Street intersection.	WMA	0.40m	0.40m		30.57		D	Satisfactory comparison to the observed depth.
0	Charles Street and Boronia Street	Flooding at Charles Street and Boronia Street was reported to be 0.40m deep	WMA	0.40m	0.38m			0.03m	D	Satisfactory comparison to the observed depth.

Webb, McKeown & Associates Pty Ltd (August 1991), Sheas Creek Flood Study.

Table C.3: Validation Details - 28 February 2001 Event

Location ID	Location	Description	Source	Observed Flood Depth (m AHD)	Modelled Flood Depth (m AHD)	Observed Level (m AHD)	Modelled Level (m AHD)	Difference		Comments
								Diff. (m)	Based on (D= Depth, WL= Water Level)	
A	20 O'Riordan Street	Extent of road inundation at the peak during the event on 28 th February was about100m long.	HT&PC		0.38	11.21	11.28	0.07	WL	The model shows water ponding at an extent of 100m along the street.
В	Botany Road (Green Square Station)	There was clear evidence that water had entered the escalator/stairwell located on the western side of Botany Road not far from a local trapped depression point in Botany Road.	HT&PC		0.22		13.63		WL	The depth refers at the low point on the street. Pit blockage in Botany Road may have caused local flooding.
С	Joynton Avenue	Joynton Avenue flooded outside the Mercedes Dealership to a level just inside the property boundary at the driveway entry.Flood Depth is 0.2 to 0.3m above the top of kerb level.	HT&PC	0.2-0.3	0.25	16.95- 17.00	17.24	-	D	The discrepancy is due to the ground level in the model at this location of 17.0m AHD that is based on ALS data.

Location ID	Location	Description	Source	Observed Flood Depth (m AHD)	Modelled Flood Depth (m AHD)	Observed Level (m AHD)	Modelled Level (m AHD)	Difference		Comments
D	Hunter Street	The trapped depression in Hunter Street flooded during the event resulting in damage to at least one parked vehicle, and contributing in part to material damage sustained by the adjacent business on the east side of Hunter St.	HT&PC	0.50- 0.60	0.52		19.96	-	D	Reasonable comparison between the observed depths as shown in a photo taken during the event.
E	Wyndham Street	The Wyndham Street trapped depression provided clear evidence of pit blockage contributing to flooding.	HT&PC		0.12		9.50		WL	The model shows water ponding at the low point on the street.
F	Cope Street	Flooding just above the footpath/culvert level on top of the channel.	HT&PC	0.15 - 0.20	0.20		14.60	0.02		The model shows water ponding at the low point on the street. The depth refers at the low point on the street.

HT&PC = HughesTrueman & Perrens Consultants Pty Ltd (2003)