

Project: Axis Development - Stage 2
Address: Australia Avenue, Sydney Olympic Park
Client: Capital Corporation Pty Ltd
Engineer: Brett Lipscombe
Revision: A

WATER CONSUMPTION SUMMARY

Category	Base Building (kL/week)	Water Efficiency (kL/week)	Consumption Saving (kL/week)	Non-Potable Saving (kL/week)	Reduction (%)
Retail Amenities	8.074	2.519	2.490	3.065	69%
Retail Tenancies	1.332	1.332	0.000	0.000	0%
Commercial	218.400	105.300	50.700	62.400	52%
Heat Rejection	131.872	0.000	0.000	131.872	100%
Irrigation	3.233	0.000	0.000	3.233	100%
Totals	362.911	109.151	53.190	200.570	70%

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AREA SCHEDULE

Category	Stage 2	Totals
Specialties	884	884
Restaurants	0	0
Supermarket	0	0
Majors	0	0
Commercial	15600	15600
Total Area	16484	16484

POPULATION SCHEDULE (BUILDING AREA PER OCCUPANT)

Occupants	Retail	Commercial
Staff	50	10
Visitors	3	0

FIXTURE USAGE SCHEDULE (NUMBER OF USES PER DAY PER OCCUPANT)

Occupants	Water Closet	Urinal	Tapware	Showers
Male Staff	1	2	3	0.2
Female Staff	3	0	3	0.2
Male Visitors	0.2	0.4	0.6	0
Female Visitors	0.6	0	0.6	0

FIXTURE WATER CONSUMPTION (LITRES PER USE)

Occupants	Water Closet	Urinal	Tapware (20 seconds)	Showers (5 minutes)
3 Star	4	2	3	45
4 Star	3.5	1.5	2.5	37.5
5 Star	3	1	2	30
6 Star	2.5	1	1.5	30

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Base Building Assessment	Water Closet	Urinal	Tapware	Showers	Totals
Area	884	884	884	884	884
Male - Staff	9	9	9	9	9
Female - Staff	9	9	9	9	9
Male - Visitor	147	147	147	147	147
Female - Staff	147	147	147	147	147
Fixture Efficiency	3 Star	3 Star	3 Star	3 Star	
Consumption Per Use	4	2	3	45	
Male - Staff	35	35	80	80	230
Female - Staff	106	0	80	80	265
Male - Visitor	118	118	265	0	501
Female - Visitor	354	0	265	0	619
Total Consumption (L/day)	613	153	690	159	1615
Efficiency (L/m2/day)	0.69	0.17	0.78	0.18	1.83
Days Of operation Per Week	5	5	5	5	5
Total Consumption (kL/week)	3.065	0.766	3.448	0.796	8.074

Efficiency Assessment	Water Closet	Urinal	Tapware	Showers	Totals
Area	884	884	884	884	884
Male - Staff	9	9	9	9	9
Female - Staff	9	9	9	9	9
Male - Visitor	147	147	147	147	147
Female - Staff	147	147	147	147	147
Fixture Efficiency	4 Star	6 Star	6 Star	3 Star	
Consumption Per Use	3.5	1	1.5	45	
Male - Staff	31	18	40	80	168
Female - Staff	93	0	40	80	212
Male - Visitor	103	59	133	0	295
Female - Visitor	309	0	133	0	442
Total Consumption (L/day)	536	77	345	159	1117
Efficiency (L/m2/day)	0.61	0.09	0.39	0.18	1.26
Days Of operation Per Week	5	5	5	5	5
Weekly Consumption (kL/week)	2.681	0.383	1.724	0.796	5.584
Non-Potable Ratio	100%	100%	0%	0%	
Non-Potable Contribution (kL/week)	2.681	0.383	0.000	0.000	3.065
Total Consumption (kL/week)	0.000	0.000	1.724	0.796	2.519

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Base Building Assessment	Specialty	Restaurants	Supermarkets	Majors	Totals
Area	884	0	0	0	884
Consumption Rate	0.11	5.23	0.21	0.11	
Total Consumption (L/day)	266	0	0	0	266
Efficiency (L/m2/day)	0.30	#DIV/0!	#DIV/0!	#DIV/0!	0.30
Days Of operation Per Week	5	5	5	5	
Total Consumption (kL/week)	1.332	0.000	0.000	0.000	1.332

Efficiency Assessment	Specialty	Restaurants	Supermarkets	Majors	Totals
Area	884	0	0	0	884
Consumption Rate	0.11	5.23	0.21	0.11	
Total Consumption (L/day)	266	0	0	0	266
Efficiency (L/m2/day)	0.30	#DIV/0!	#DIV/0!	#DIV/0!	0.30
Days Of Operation Per Week	5	5	5	5	
Weekly Consumption (kL/week)	1.332	0.000	0.000	0.000	1.332

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Base Building Assessment	Water Closet	Urinal	Tapware	Showers	Totals
Area	15600	15600	15600	15600	15600
Male - Staff	780	780	780	780	780
Female - Staff	780	780	780	780	780
Fixture Efficiency	3 Star	3 Star	3 Star	3 Star	
Consumption Per Use	4	2	3	45	
Male - Staff	3120	3120	7020	7020	20280
Female - Staff	9360	0	7020	7020	23400
Total Consumption (L/day)	12480	3120	14040	14040	43680
Efficiency (L/m2/day)	0.80	0.20	0.90	0.90	2.80
Days Of operation Per Week	5	5	5	5	5
Total Consumption (kL/week)	62.400	15.600	70.200	70.200	218.400

Efficiency Assessment	Water Closet	Urinal	Tapware	Showers	Totals
Area	15600	15600	15600	15600	15600
Male - Staff	780	780	780	780	780
Female - Staff	780	780	780	780	780
Fixture Efficiency	4 Star	6 Star	6 Star	3 Star	
Consumption Per Use	3.5	1	1.5	45	
Male - Staff	2730	1560	3510	7020	14820
Female - Staff	8190	0	3510	7020	18720
Total Consumption (L/day)	10920	1560	7020	14040	33540
Efficiency (L/m2/day)	0.70	0.10	0.45	0.90	2.15
Days Of operation Per Week	5	5	5	5	5
Weekly Consumption (kL/week)	54.600	7.800	35.100	70.200	167.700
Non-Potable Ratio	100%	100%	0%	0%	
Non-Potable Contribution (kL/week)	54.600	7.800	0.000	0.000	62.400
Total Consumption (kL/week)	0.000	0.000	35.100	70.200	105.300

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Base Building Assessment	Specialty	Restaurants	Supermarket	Majors	Commercial	Totals
Area	884	0	0	0	15600	16484
Consumption Rate	1.6	1.6	1.6	1.6	1.6	
Total Consumption (L/day)	1414	0	0	0	24960	26374
Efficiency (L/m2/day)	1.60	#DIV/0!	#DIV/0!	#DIV/0!	1.60	
Days Of operation Per Week	5	5	5	5	5	
Total Consumption (kL/week)	7.072	0.000	0.000	0.000	124.800	131.872

Efficiency Assessment	Specialty	Restaurants	Supermarket	Majors	Commercial	Totals
Area	884	0	0	0	15600	16484
Consumption Rate	1.6	1.6	1.6	1.6	1.6	
Total Consumption (L/day)	1414	0	0	0	24960	26374
Efficiency (L/m2/day)	1.60	#DIV/0!	#DIV/0!	#DIV/0!	1.60	
Days Of operation Per Week	5	5	5	5	5	
Weekly Consumption (kL/week)	7.072	0.000	0.000	0.000	124.800	131.872
Non-Potable Ratio	100%	100%	100%	100%	100%	
Non-Potable Contribution (kL/week)	7.072	0.000	0.000	0.000	124.800	131.872
Total Consumption (kL/week)	0.000	0.000	0.000	0.000	0.000	0.000

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Base Building	January	February	March	April	May	June	July	August	September	October	November	December	Totals
Weeks	4.4	4.0	4.4	4.3	4.4	4.3	4.4	4.4	4.3	4.4	4.3	4.4	52.0
Applications	3	3	2	2	2	1	1	1	2	2	2	3	
Area	500	500	500	500	500	500	500	500	500	500	500	500	
Irrigation Rate	25	25	25	25	25	25	25	25	25	25	25	25	
Requirement	330	300	220	215	220	108	110	110	215	220	215	330	
Rainfall	118.8	144.8	131.9	110.0	86.0	116.2	56.7	55.1	59.9	84.5	95.2	86.9	1148.7
Monthly	105.600	77.600	44.050	52.500	67.000	0.000	26.650	27.450	77.550	67.750	59.900	121.550	727.600
Weekly	24.000	19.400	10.011	12.209	15.227	0.000	6.057	6.239	18.035	15.398	13.930	27.625	168.131

Water Efficiency	January	February	March	April	May	June	July	August	September	October	November	December	Totals
Weeks	4.4	4.0	4.4	4.3	4.4	4.3	4.4	4.4	4.3	4.4	4.3	4.4	52.0
Applications	3	3	2	2	2	1	1	1	2	2	2	3	
Area	500	500	500	500	500	500	500	500	500	500	500	500	
Irrigation Rate	25	25	25	25	25	25	25	25	25	25	25	25	
Requirement	330	300	220	215	220	108	110	110	215	220	215	330	
Rainfall	118.8	144.8	131.9	110.0	86.0	116.2	56.7	55.1	59.9	84.5	95.2	86.9	1148.7
Monthly	105.600	77.600	44.050	52.500	67.000	0.000	26.650	27.450	77.550	67.750	59.900	121.550	727.600
Weekly Consumption (kL/week)	24.000	19.400	10.011	12.209	15.227	0.000	6.057	6.239	18.035	15.398	13.930	27.625	168.131
Non-Potable Ratio	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
Non-Potable Contribution (kL/week)	24.000	19.400	10.011	12.209	15.227	0.000	6.057	6.239	18.035	15.398	13.930	27.625	168.131
Total Consumption (kL/week)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000