

ILSAX INPUT DATA

NOTE BRADKEN FOUNDRY. EXISTING SITE

NOTE Job # - 2006.0763

NOTE: AAA DRAINS TO BASIN AND DISCHARGE TO MARMION AVENUE

1.6 ha
developed
Catchment

AAA 001 0 -1
3 0 100.0 0.2 0.012 1 600 0.0 0.00 0 0 1.0 0 -1 0
1.60 85 12.0 0 15 27.0 0.0

AAA 002 0 -1
3 0 100.0 0.2 0.012 1 600 0.0 0.00 0 0 1.0 0 -1 0
1.22 0 35.0 0 100 50.0 0.0

NOTE: DETENTION BASIN MINIMAL DISCHARGE PRIOR TO 650m3 STORAGE

AAA 003 -1 -1
10 0 1.0 1.0 0 -1
5
0.000 0.0 0.000
1.000 50 0.003
2.000 650.0 0.004
3.0 730 0.20
4.000 860.0 0.40
0.0
0.00 100 0.0 0 0 0.0 0.0

AAA 004 0 -1
3 0 200 0.20 0.012 1 600 2.000 36.00 1.00 0 1.0 0 -1 0
0.00 100 0.0 0 0 0.0 0.0

OUT

NOTE: AAB IS CROMWELL ROAD CATCHMENT

AAB 001 0 -1
3 0 100.0 0.2 0.012 1 600 0.0 0.00 0 0 1.0 0 -1 0
2.2 85 12.0 0 15 27.0 0.0

AAB 001 0 -1
3 0 50.0 0.2 0.012 1 600 0.0 0.00 0 0 1.0 0 -1 0
0.0 100 12.0 0 15 27.0 0.0

OUT
END

ILSAX OUTPUT DATA (20-year ARI peak flow rates)

BRADKEN FOUNDRY: EXISTING SITE

PEAK FLOWS AMONG RUNOFFS FROM 22 RAINFALL PATTERNS

(The following lines give Branch and Reach names;
Maximum surface flow arriving at an entry point or pit,
Maximum flow in the pit before routing through downstream reach,
Maximum surface overflow and Total flows to this point (m3/s);
Pipe Diameter or Normal Depth (open sections) (mm) & Capacity
(m3/s).

Other information is given for non-circular reaches
- refer to the program code for details.)

AAA 001	.306	.306	.000	.306	610.	.311
AAA 002	.014	.289	.000	.289	610.	.311
AAA 003	.000	.287	.000	.287	610.	.000
AAA 003	.000	.042	.000	.042	610.	.311
AAB 001	.421	.421	.000	.421	686.	.425
AAB 001	.000	.394	.000	.394	686.	.425

END

421 L/S Peak discharge
rate from existing basin
in 20-yr ARI event

Peak discharge
to Cromwell Rd
(394 L/S)

ILSAX OUTPUT DATA (100-Year ARI peak flow rates)

BRADKEN FOUNDRY: EXISTING SITE

PEAK FLOWS AMONG RUNOFFS FROM 22 RAINFALL PATTERNS

(The following lines give Branch and Reach names;
Maximum surface flow arriving at an entry point or pit,
Maximum flow in the pit before routing through downstream reach,
Maximum surface overflow and Total flows to this point (m3/s);
Pipe Diameter or Normal Depth (open sections) (mm) & Capacity
(m3/s).

Other information is given for non-circular reaches
- refer to the program code for details.)

AAA 001	.458	.458	.000	.458	762.	.563
AAA 002	.045	.458	.000	.458	762.	.563
AAA 003	.000	.438	.000	.438	762.	.000
AAA 003	.000	.142	.000	.142	762.	.563
AAB 001	.629	.629	.000	.629	838.	.725
AAB 001	.000	.629	.000	.629	838.	.725
END						

142 L/s Peak discharge
rate from existing
basin in 100-yr-ARI
event.

Peak discharge to
Gronwell Rd.
(629 L/s)

ILSAX INPUT DATA

NOTE BRADKEN FOUNDRY. INCREASED BASIN CAPACITY

NOTE Job # - 2006.0763

NOTE AAA DRAINS TO BASIN AND DISCHARGE TO MARMION AVENUE

*2.0 ha
developed
area*

AAA 001 0 -1
3 0 100.0 0.2 0.012 1 600 0.0 0.00 0 0 1.0 0 -1 0
2.0 85 12.0 0 15 27.0 0.0

AAA 002 0 -1
3 0 100.0 0.2 0.012 1 600 0.0 0.00 0 0 1.0 0 -1 0
0.7 0 35.0 0 100 50.0 0.0

NOTE: DETENTION BASIN EXPANDED TO 840m3 BEFORE SPILL

AAA 003 -1 -1
10 0 1.0 1.0 0 -1
5
0.000 0.0 0.000
1.000 50 0.003
2.000 840.0 0.004
3.0 920 0.20
4.00 1040.0 0.40
0.0
0.00 100 0.0 0 0 0.0 0.0

AAA 003 0 -1
3 0 200 0.20 0.012 1 600 2.000 36.00 1.00 0 1.0 0 -1 0
0.00 100 0.0 0 0 0.0 0.0

OUT

NOTE: AAB DRAINS TO CARPARK INTERCEPTOR

AAB 001 0 -1
3 0 100.0 0.2 0.012 1 600 0.0 0.00 0 0 1.0 0 -1 0
0.71 90 12.0 0 15 27.0 0.0

NOTE: CAR PARK SURFACE DETENTION STORAGE

AAB 002 -1 -1
10 0 1.0 1.0 0 -1
5
0.000 0.0 0.000
1.000 5 0.07
2.000 30.0 0.11
3.0 40 0.13
4.00 100.0 0.14
0.0
0.00 100 0.0 0 0 0.0 0.0

AAB 003 0 -1
3 0 50.0 0.2 0.012 1 600 0.0 0.00 0 0 1.0 0 -1 0
0.0 100 12.0 0 15 27.0 0.0

NOTE: AAC DRAINS TO WESTERN INTERCEPTOR

AAC 001 0 -1
3 0 100.0 0.2 0.012 1 600 0.0 0.00 0 0 1.0 0 -1 0
1.15 90 12.0 0 15 27.0 0.0

AAC 002 0 -1
3 0 50.0 0.2 0.012 1 600 0.0 0.00 0 0 1.0 0 -1 0
0.0 100 12.0 0 15 27.0 0.0

NOTE: AAD DRAINS TO CROMWELL ROAD VIA TANK SPILLAGE

AAD 001 0 -1
3 0 100.0 0.2 0.012 1 600 0.0 0.00 0 0 1.0 0 -1 0
0.36 90 12.0 0 15 27.0 0.0

AAD 002 0 -1
3 0 50.0 0.2 0.012 1 600 0.0 0.00 0 0 1.0 0 -1 0
0.0 100 12.0 0 15 27.0 0.0

NOTE: AAB 003 COMBINED DISCHARGE TO CROMWELL ROAD

ADD AAC TO AAB

ADD AAD TO AAB

AAB 003 0 -1

Continued...

... from previous.

```
3 0 50.0 0.2 0.012 1 600 0.0 0.00 0 0 1.0 0 -1 0  
0.0 100 12.0 0 15 27.0 0.0
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OUT  
END
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ILSAX OUTPUT DATA (20-Year ARI peak flow rates)

BRADKEN FOUNDRY: INCREASED BASIN CAPACITY + CAR PARK DETENTION

PEAK FLOWS AMONG RUNOFFS FROM 22 RAINFALL PATTERNS

(The following lines give Branch and Reach names;
Maximum surface flow arriving at an entry point or pit,
Maximum flow in the pit before routing through downstream reach,
Maximum surface overflow and Total flows to this point (m3/s);
Pipe Diameter or Normal Depth (open sections) (mm) & Capacity
(m3/s).

Other information is given for non-circular reaches
- refer to the program code for details.)

AAA 001	.382	.382	.000	.382	686.	.425
AAA 002	.008	.380	.000	.380	686.	.425
AAA 003	.000	.358	.000	.358	686.	.000
AAA 003	.000	.042	.000	.042	686.	.425
AAB 001	.144	.144	.000	.144	600.	.297
AAB 002	.000	.143	.000	.143	600.	.000
AAB 003	.000	.104	.000	.104	600.	.297
AAC 001	.233	.233	.000	.233	600.	.297
AAC 002	.000	.232	.000	.232	600.	.297
AAD 001	.073	.073	.000	.073	600.	.297
AAD 002	.000	.072	.000	.072	600.	.297
AAB 003	.000	.387	.000	.387	686.	.425
END						

Peak discharge
from basin
426/s

Peak discharge
to Cromwell Rd
(387 L/s)

ILSAX OUTPUT DATA (100-Year ARI peak flow rates)

BRADKEN FOUNDRY: INCREASED BASIN CAPACITY + CAR PARK DETENTION

PEAK FLOWS AMONG RUNOFFS FROM 22 RAINFALL PATTERNS

(The following lines give Branch and Reach names;

Maximum surface flow arriving at an entry point or pit,

Maximum flow in the pit before routing through downstream reach,

Maximum surface overflow and Total flows to this point (m3/s);

Pipe Diameter or Normal Depth (open sections) (mm) & Capacity (m3/s).

Other information is given for non-circular reaches

- refer to the program code for details.)

AAA 001	.572	.572	.000	.572	838.	.725
AAA 002	.026	.572	.000	.572	838.	.725
AAA 003	.000	.551	.000	.551	838.	.000
AAA 003	.000	.136	.000	.136	838.	.725
AAB 001	.215	.215	.000	.215	600.	.297
AAB 002	.000	.215	.000	.215	600.	.000
AAB 003	.000	.132	.000	.132	600.	.297
AAC 001	.348	.348	.000	.348	686.	.425
AAC 002	.000	.348	.000	.348	686.	.425
AAD 001	.109	.109	.000	.109	600.	.297
AAD 002	.000	.109	.000	.109	600.	.297
AAB 003	.000	.561	.000	.561	762.	.563
END						

Peak discharge
from basin
(136 L/s)

Peak discharge to
Gromwell Rd.
(561 L/s)

ILSAX INPUT DATA

NOTE: BRADKEN FOUNDRY. PIPED DISCHARGE OPTION

NOTE: Job # - 2006.0763

NOTE: AAA DRAINS TO BASIN

*2.0ha
developed
area*

AAA 001 0 -1
3 0 100.0 0.2 0.012 1 600 0.0 0.00 0 0 1.0 0 -1 0
2.0 85 12.0 0 15 27.0 0.0

AAA 002 0 -1
3 0 100.0 0.2 0.012 1 600 0.0 0.00 0 0 1.0 0 -1 0
0.7 0 35.0 0 100 50.0 0.0

NOTE: EXISTING DETENTION BASIN WITH 375MM PIPE DISCHARGE COMMENCING AT 250m3 OF STORAGE

AAA 003 -1 -1
10 0 1.0 1.0 0 -1
6
0.000 0.0 0.000
1.000 50 0.003
1.5 250 0.004
2.000 1000.0 0.08
3.0 1040 0.29
4.00 1080.0 0.49
250.0
0.00 100 0.0 0 0 0.0 0.0

AAA 003 0 -1
3 0 200 0.20 0.012 1 600 2.000 36.00 1.00 0 1.0 0 -1 0
0.00 100 0.0 0 0 0.0 0.0

OUT

NOTE: AAB DRAINS TO CARPARK INTERCEPTOR

AAB 001 0 -1
3 0 100.0 0.2 0.012 1 600 0.0 0.00 0 0 1.0 0 -1 0
0.71 90 12.0 0 15 27.0 0.0

NOTE: CAR PARK SURFACE DETENTION STORAGE

AAB 002 -1 -1
10 0 1.0 1.0 0 -1
5
0.000 0.0 0.000
1.000 5 0.05
2.000 30.0 0.1
3.0 40 0.12
4.00 500.0 0.14
0.0
0.00 100 0.0 0 0 0.0 0.0

AAB 002 0 -1
3 0 50.0 0.2 0.012 1 600 0.0 0.00 0 0 1.0 0 -1 0
0.0 100 12.0 0 15 27.0 0.0

NOTE: AAC DRAINS TO WESTERN INTERCEPTOR

AAC 001 0 -1
3 0 100.0 0.2 0.012 1 600 0.0 0.00 0 0 1.0 0 -1 0
1.15 90 12.0 0 15 27.0 0.0

AAC 002 0 -1
3 0 50.0 0.2 0.012 1 600 0.0 0.00 0 0 1.0 0 -1 0
0.0 100 12.0 0 15 27.0 0.0

NOTE: AAD DRAINS TO CROMWELL ROAD VIA TANK SPILLAGE

AAD 001 0 -1
3 0 100.0 0.2 0.012 1 600 0.0 0.00 0 0 1.0 0 -1 0
0.36 90 12.0 0 15 27.0 0.0

AAD 002 0 -1
3 0 50.0 0.2 0.012 1 600 0.0 0.00 0 0 1.0 0 -1 0
0.0 100 12.0 0 15 27.0 0.0

NOTE: AAB 003 COMBINED DISCHARGE TO CROMWELL ROAD

ADD AAC TO AAB
ADD AAD TO AAB

AAB 003 0 -1
3 0 50.0 0.2 0.012 1 600 0.0 0.00 0 0 1.0 0 -1 0
0.0 100 12.0 0 15 27.0 0.0

OUT
END

ILSAX OUTPUT DATA (20-Year ARI peak flow rates)

BRADKEN FOUNDRY: PIPE DISCHARGE OPTION

PEAK FLOWS AMONG RUNOFFS FROM 22 RAINFALL PATTERNS

(The following lines give Branch and Reach names;
Maximum surface flow arriving at an entry point or pit,
Maximum flow in the pit before routing through downstream reach,
Maximum surface overflow and Total flows to this point (m³/s);
Pipe Diameter or Normal Depth (open sections) (mm) & Capacity
(m³/s).

Other information is given for non-circular reaches
- refer to the program code for details.)

AAA 001	.382	.382	.000	.382	686.	.425
AAA 002	.008	.380	.000	.380	686.	.425
AAA 003	.000	.358	.000	.358	686.	.000
AAA 003	.000	.048	.000	.048	686.	.425
AAB 001	.144	.144	.000	.144	600.	.297
AAB 002	.000	.143	.000	.143	600.	.000
AAB 002	.000	.103	.000	.103	600.	.297
AAC 001	.233	.233	.000	.233	600.	.297
AAC 002	.000	.232	.000	.232	600.	.297
AAD 001	.073	.073	.000	.073	600.	.297
AAD 002	.000	.072	.000	.072	600.	.297
AAB 003	.000	.384	.000	.384	686.	.425
END						

Peak discharge
from basin
48 L/s
(below 50 L/s
requirement)

ILSAX OUTPUT DATA (100-Year ARI peak flow rates)

BRADKEN FOUNDRY: PIPE DISCHARGE OPTION

PEAK FLOWS AMONG RUNOFFS FROM 22 RAINFALL PATTERNS

(The following lines give Branch and Reach names;
Maximum surface flow arriving at an entry point or pit,
Maximum flow in the pit before routing through downstream reach,
Maximum surface overflow and Total flows to this point (m³/s);
Pipe Diameter or Normal Depth (open sections) (mm) & Capacity
(m³/s).

Other information is given for non-circular reaches
- refer to the program code for details.)

AAA 001	.572	.572	.000	.572	838.	.725
AAA 002	.026	.572	.000	.572	838.	.725
AAA 003	.000	.551	.000	.551	838.	.000
AAA 003	.000	.081	.000	.081	838.	.725
AAB 001	.215	.215	.000	.215	600.	.297
AAB 002	.000	.215	.000	.215	600.	.000
AAB 002	.000	.121	.000	.121	600.	.297
AAC 001	.348	.348	.000	.348	686.	.425
AAC 002	.000	.348	.000	.348	686.	.425
AAD 001	.109	.109	.000	.109	600.	.297
AAD 002	.000	.109	.000	.109	600.	.297
AAB 003	.000	.556	.000	.556	762.	.563
END						

Peak discharge from
basin 81 L/s.

Below 142 L/s from
existing site.