ARUN DISTRICT COUNCIL LUDP/SHEDOC

WEST OF WETLANDS

DWELLINGS
Carehome
Commercial Land
Primary School
Retail

Non Residential Land Foul Flows
SFA7 (B5.1)
Domestic Flow = 0.6 l/sec/Ha of developable area
Trade Flow = 0.5 l/sec/Ha of developable area

EAST OF WETLANDS

800 DWELLINGS

Future Pump Station
6 x dwf (in) = 33 l/s
3 x dwf (out) = 16.5 l/s

Rising Main discharges pumped flow of 16.5 l/s to Proposed 225ø Gravity Sewer + 39 dwellings with 6dwf of 1.62 l/s Total =18.1 l/s

FUTURE RISING MAIN

16.5 l/s

Non-Resi Land

100 Bed Hotel
dwf = 550 litres/room/day
dwf = 0.64 l/s
6dwf = 3.84 l/s

PARCEL C1

Phase 2 - 56 Units
1dwf= 0.39 l/s
6dwf= 2.34 l/s

Part PARCEL C2

Phase 2 - 19 units
Next Phase - 9 units

28 Units
1dwf= 0.19 l/s
6dwf= 1.14 l/s

84 dwellings + 100 bed Hotel
6dwf= 7.34 l/s x 10% infil
= 8.10 l/s

Non-Resi Land
0.81 Hectares
0.91 l/s

Non-Resi Land
0.32 Hectares
0.35 l/s

288 units + Non Resi
6dwf=12 l/s + 1.9 l/s) x 10%
= 15.30 l/s

C1 Resiblock

42 Units
1dwf= 0.29 l/s
6dwf= 1.75 l/s

Part PARCEL C2
16 Units
1dwf= 0.11 l/s
6dwf= 0.66 l/s

181 units + Non resi
(6dwf= 7.54 l/s + 1.9 l/s) x 10%
= 10.40 l/s

Prop 150ø
Prop 150ø Capacity 12.5 l/s
Prop 225ø Capacity 37 l/s
Prop 225ø Capacity 39 l/s
Prop 150ø
Prop 150ø Capacity 14 l/s
EX 150ø
Prop 150ø
Prop 225ø Capacity 39 l/s
EX 150ø
Prop 150ø

411 dwellings + 100 bed Hotel
(dwf = 2.85l/s + 0.64 l/s = 3.52 l/s)
• 6dwf= 17.10 l/s + 3.84 l/s = 20.94 l/s
• + Pumped 3dwf flow from East of Wetlands = 16.5 l/s
• + Flow from non-resi land = 1.9 l/s

Sub-total = (39.34 litres / second) x 10% infiltration
TOTAL = 43.30 litres / second
(Prop 225ø @ 1in100 full bore capacity = 45.6 l/s)

Block A & Block B Parcel
(Retail & Resi) 95 Units
1dwf= 0.66 l/s
6dwf= 3.96 l/s

Block B
(Retail & Resi)
30 Units
1dwf= 0.21 l/s
6dwf= 1.26 l/s

Block A
(Retail & Resi)
65 Units
1dwf= 0.45 l/s
6dwf= 2.70 l/s

Part PARCEL B2
23 Units
1dwf= 0.16 l/s
6dwf= 0.96 l/s

Non-Resi Land
0.90 Hectares
1.0 l/s

192 dwellings + Primary School + Carehome
• 1dwf = 1.33l/s + 0.39 l/s + 0.26 l/s = 2.34 l/s
• 6dwf = 8.0 l/s + 2.34 l/s + 1.56 l/s

Sub-total = (11.9 litres / second) x 10% infiltration
TOTAL = 13.10 litres / second
(Ex 150ø full bore capacity = 12 l/s)

PARCEL A1

114 Units
1dwf= 0.79 l/s
6dwf= 4.74 l/s

PARCEL B1

X Units
1dwf= x l/s
6dwf= x l/s

EX 150ø

PARCEL B3 & B5

121 Units
1dwf= 0.84 l/s
6dwf= 5.0 l/s

Part PARCEL B2
19 Units

PARCEL B4
31 Units

50 Units
1dwf= 0.35 l/s
6dwf= 2.1 l/s

FUTURE 150ø

60 Bed Care Home

375 litres/bed/day
dwf = 0.26 l/s
6dwf = 1.56 l/s

S98 Foul Pump Station
Incoming pipe 250ø on MGJV drawings
Will be increased to 300ø with capacity of 80 l/s

Primary School
(Assumed 420 Pupils)

80 litres/pupil/day
dwf = 0.39 l/s
6dwf = 2.34 l/s

246 dwellings: dwf
6dwf= 10.26 l/s + Non resi 1.9 l/s)
x 10% infil = 13.40 l/s

PARCEL A2

37 Units
1dwf= 0.26 l/s
6dwf= 1.56 l/s

PARCEL B6

21 Units
1dwf= 0.15 l/s
6dwf= 0.90 l/s

250ø RISING MAIN (approx 2km long