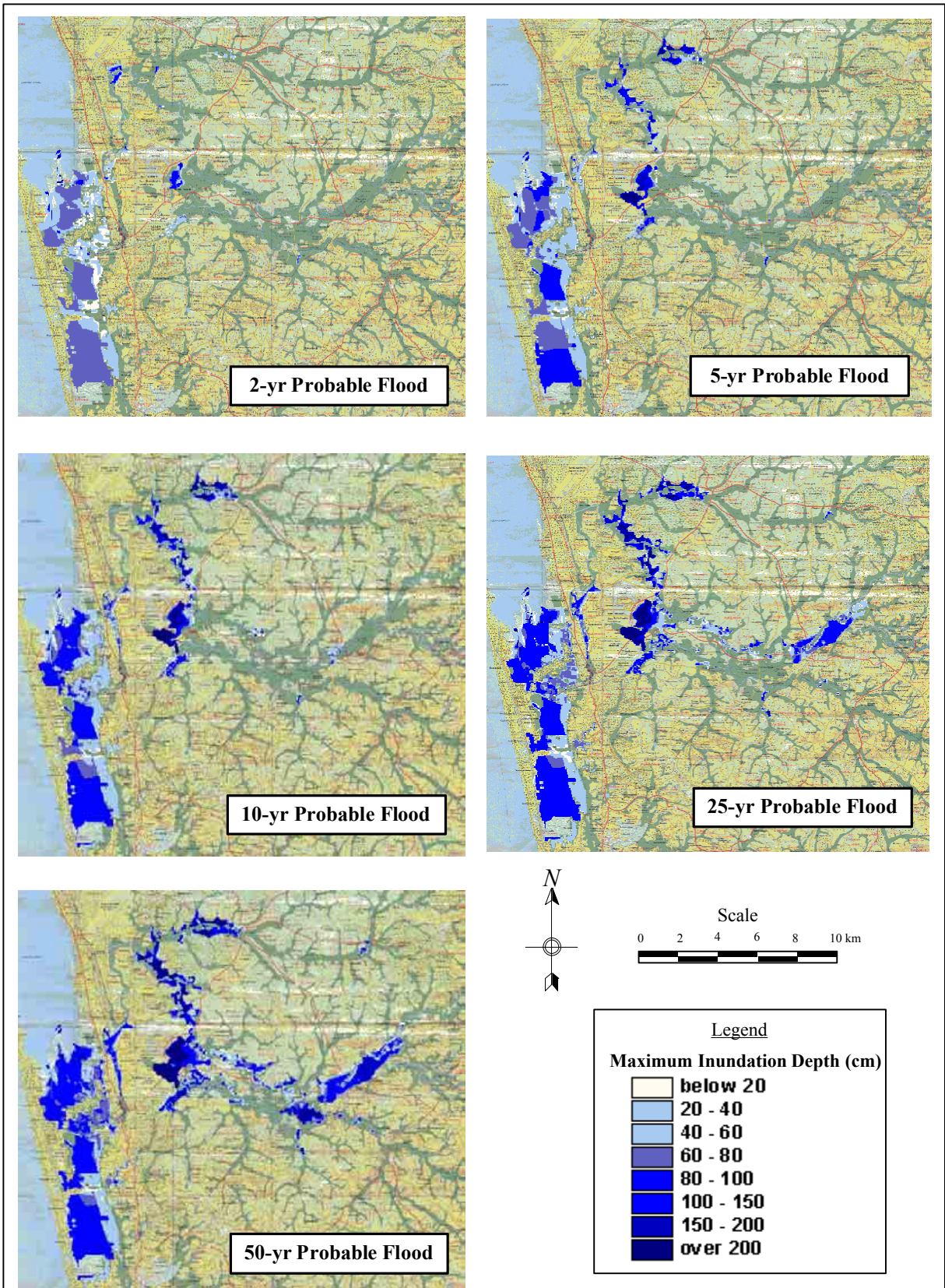


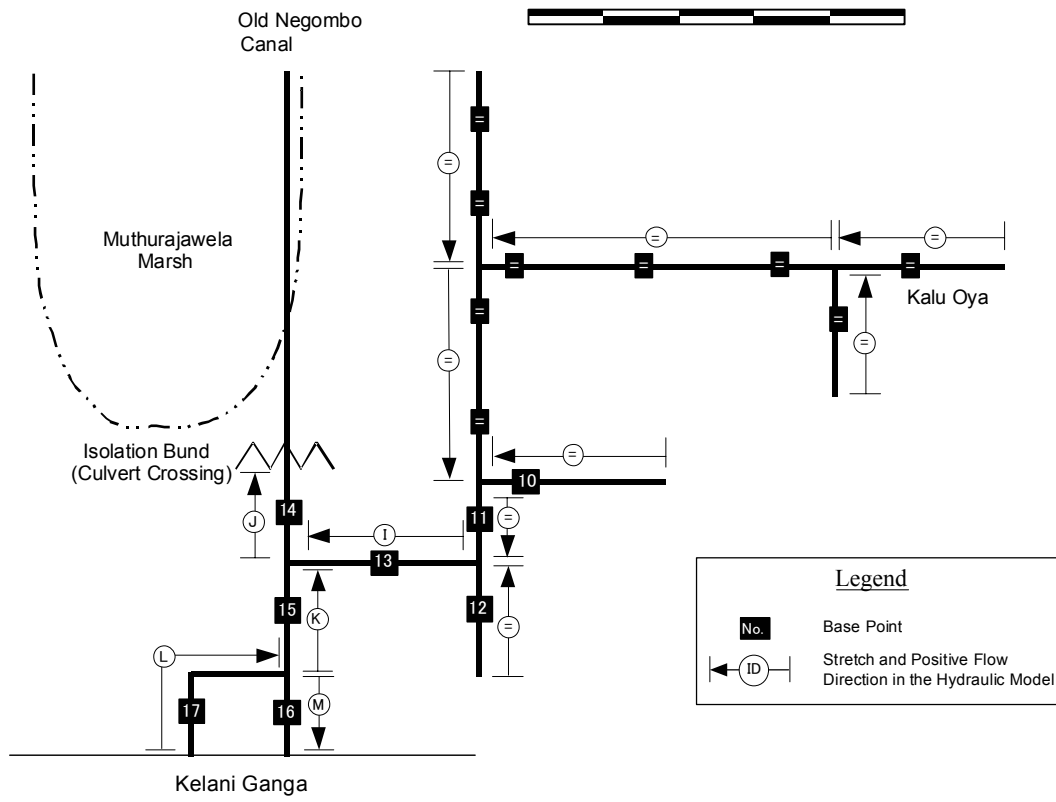
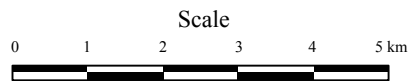
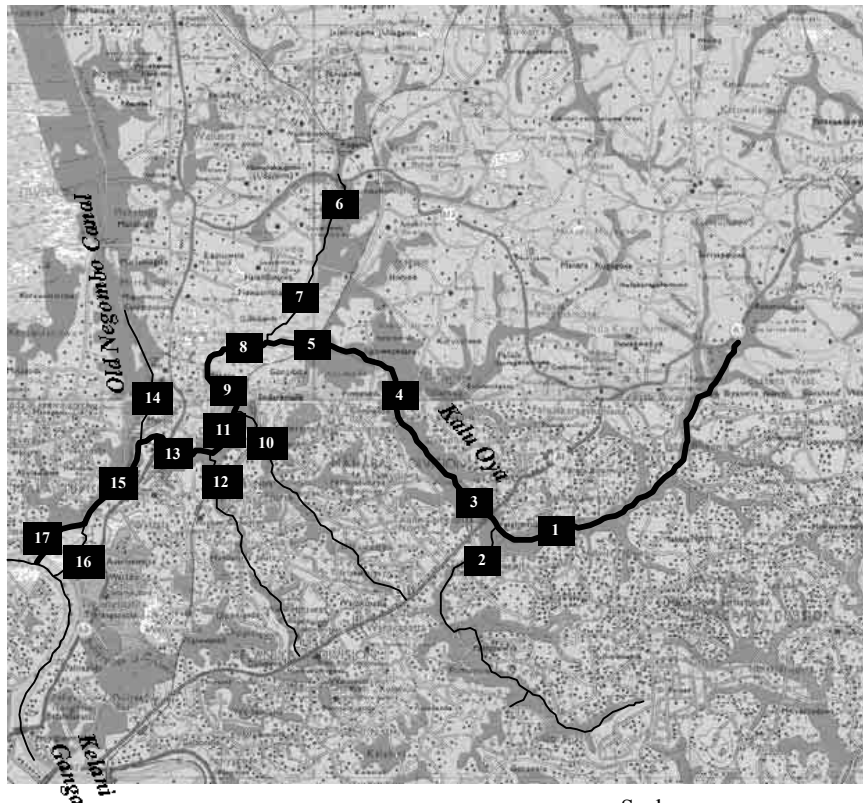
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Figure 4.8.5
Flood Inundation Maps of Attanagalu Oya
Basin (Present Land Use Condition)



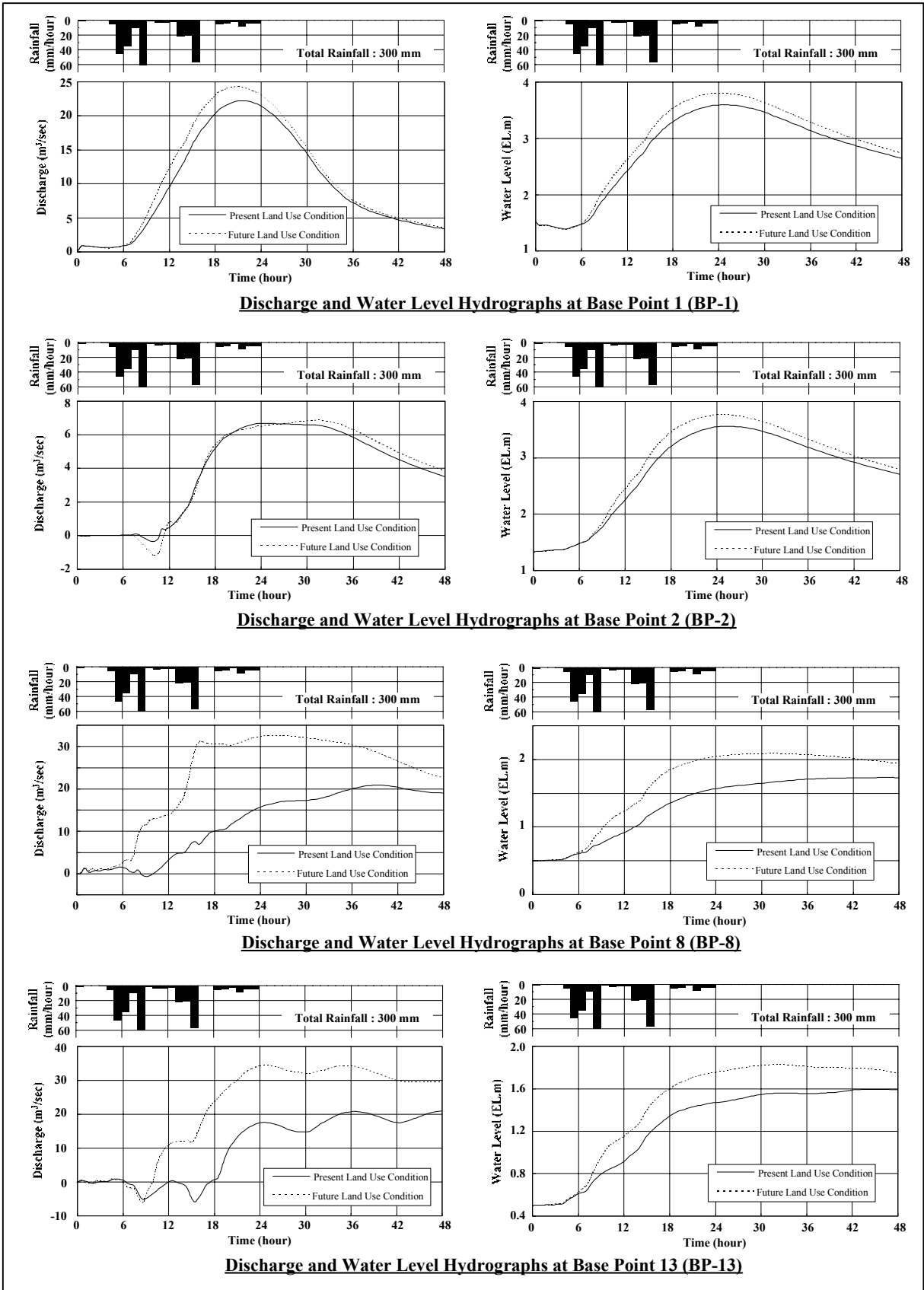
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Figure 4.8.6
Flood Inundation Maps of Attanagalu Oya
Basin (Future Land Use Condition)



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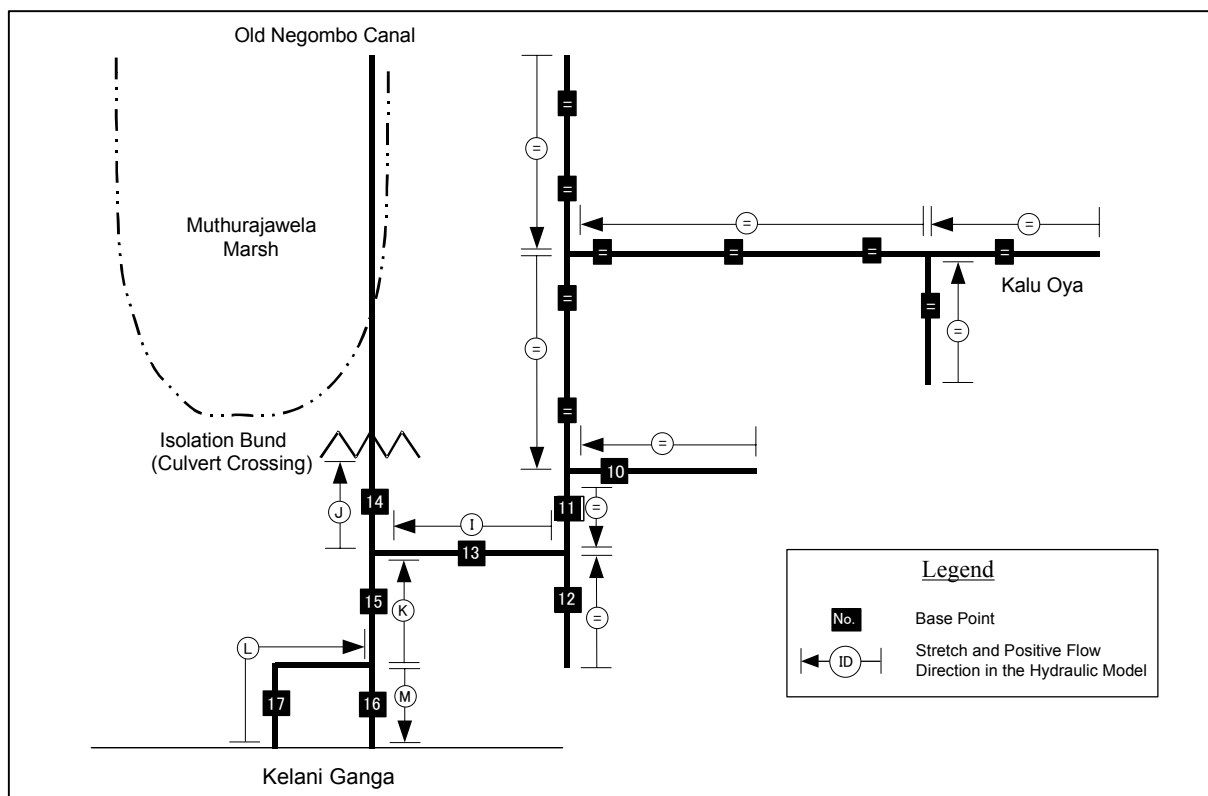
Figure 4.8.7
Base Points in the Kalu Oya Drainage System



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Figure 4.8.8
Calculated 50-yr Probable Flood Hydrographs
for the Kalu Oya Basin



Simulated Maximum Water Level and Discharge at Base Points and Stretches

BP	2-year Probable Flood				5-year Probable Flood				10-year Probable Flood				25-year Probable Flood				50-year Probable Flood			
	PLU		FLU		PLU		FLU		PLU		FLU		PLU		FLU		PLU		FLU	
	H _{max}	Q _{max}	H _{max}	Q _{max}	H _{max}	Q _{max}	H _{max}	Q _{max}	H _{max}	Q _{max}	H _{max}	Q _{max}	H _{max}	Q _{max}	H _{max}	Q _{max}	H _{max}	Q _{max}	H _{max}	Q _{max}
1	-	6.4	-	7.8	-	11.8	-	13.5	-	15.2	-	16.9	-	19.2	-	21.2	-	22.2	-	24.4
2	-	2.1	-	2.3	-	3.7	-	4.0	-	4.7	-	5.0	-	5.9	-	6.1	-	6.7	-	6.9
3	1.95	7.1	2.13	8.5	2.39	12.8	2.62	15.1	2.66	17.2	2.91	19.7	2.97	22.7	3.23	25.5	3.17	26.8	3.45	29.7
4	1.25	5.8	1.53	7.4	1.58	9.7	1.91	13.5	1.80	12.8	2.16	18.2	2.04	17.5	2.45	24.1	2.22	21.2	2.66	28.4
5	1.10	5.1	1.42	7.3	1.39	8.5	1.62	13.8	1.55	11.9	1.77	18.7	1.66	16.8	1.98	25.0	1.76	20.4	2.14	29.6
6	1.09	2.0	1.42	2.7	1.38	3.6	1.60	4.5	1.53	4.8	1.74	6.1	1.64	6.7	1.94	8.6	1.74	8.2	2.10	10.5
7	-	0.2	-	1.6	-	1.1	-	3.4	-	1.9	-	5.6	-	3.2	-	9.0	-	4.5	-	11.4
8	-	4.3	-	6.6	-	6.9	-	15.2	-	11.3	-	20.0	-	17.1	-	27.1	-	20.9	-	32.7
9	1.08	3.4	1.41	5.6	1.37	5.6	1.55	15.5	1.50	11.2	1.67	20.3	1.59	16.5	1.84	26.7	1.66	20.4	1.97	32.3
10	-	2.0	-	2.9	-	3.2	-	4.2	-	3.9	-	5.5	-	4.9	-	7.1	-	5.9	-	8.2
11	-	3.1	-	5.0	-	4.6	-	16.3	-	12.0	-	22.0	-	16.7	-	29.6	-	20.6	-	35.9
12	-	-0.4	-	-1.5	-	-0.9	-	-3.3	-	-2.1	-	-3.5	-	-2.1	-	-3.3	-	-2.4	-	-4.0
13	1.08	2.4	1.41	3.5	1.36	3.2	1.52	17.2	1.48	12.9	1.59	22.4	1.54	17.6	1.72	29.1	1.60	21.0	1.83	34.7
14	-	2.3	-	3.2	-	2.9	-	3.4	-	3.2	-	3.5	-	3.2	-	3.7	-	3.2	-	3.8
15	1.08	0.6	1.40	0.5	1.36	1.0	1.51	-14.3	1.48	-10.2	1.56	-19.5	1.52	-14.9	1.66	-26.1	1.56	-18.4	1.74	-31.6
16	-	1.1	-	1.1	-	1.1	-	1.1	-	1.1	-	1.1	-	1.1	-	1.1	-	1.1	-	4.0
17	-	-0.6	-	-0.6	-	-0.6	-	-14.4	-	-10.3	-	-19.6	-	-15.0	-	-26.2	-	-18.5	-	-29.9

Stretch	2-year Flood Discharge (m ³ /sec)		5-year Flood Discharge (m ³ /sec)		10-year Flood Discharge (m ³ /sec)		25-year Flood Discharge (m ³ /sec)		50-year Flood Discharge (m ³ /sec)	
	PLU	FLU	PLU	FLU	PLU	FLU	PLU	FLU	PLU	FLU
A	6.5	8.1	12.1	13.9	15.4	17.3	19.3	21.5	22.3	24.6
B	2.5	2.8	4.8	5.4	6.7	7.4	9.2	10.2	11.3	12.5
C	8.0	9.3	14.5	16.2	19.1	20.8	24.7	26.5	28.8	30.7
D	3.1	3.0	5.2	5.8	6.7	7.9	9.0	10.6	10.8	13.0
E	9.5	6.6	13.3	15.5	16.1	20.3	20.2	27.1	23.5	32.7
F	2.4	3.5	3.9	5.7	5.1	7.5	6.6	9.9	7.8	11.6
G	10.9	6.3	14.9	16.4	17.8	22.7	22.0	30.5	25.3	36.9
H	1.3	-1.5	1.8	-3.3	2.3	-3.5	2.9	-3.3	3.2	-4.0
I	11.8	4.4	16.1	17.3	19.1	22.6	23.3	29.4	26.6	35.3
J	1.1	3.2	1.5	3.4	1.8	3.5	2.1	3.7	2.3	3.8
K	-12.0	2.8	-15.9	-14.3	-18.7	-19.6	-22.4	-26.2	-25.3	-31.7
L	-7.1	-0.6	-9.4	-14.4	-11.0	-19.7	-13.2	-26.3	-14.9	-30.0
M	5.1	1.1	6.8	1.1	8.0	1.1	9.6	1.1	10.8	4.0

BP : Base Point, PLU : Present Land Use Condition, FLU : Future Land Use Condition,
H_{max} : Maximum Water Level (EL.m), Q_{max} : Maximum Discharge (m³/sec)

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Figure 4.8.9
Simulated Maximum Water Level and Discharge
at Base Points in the Kalu Oya Basin