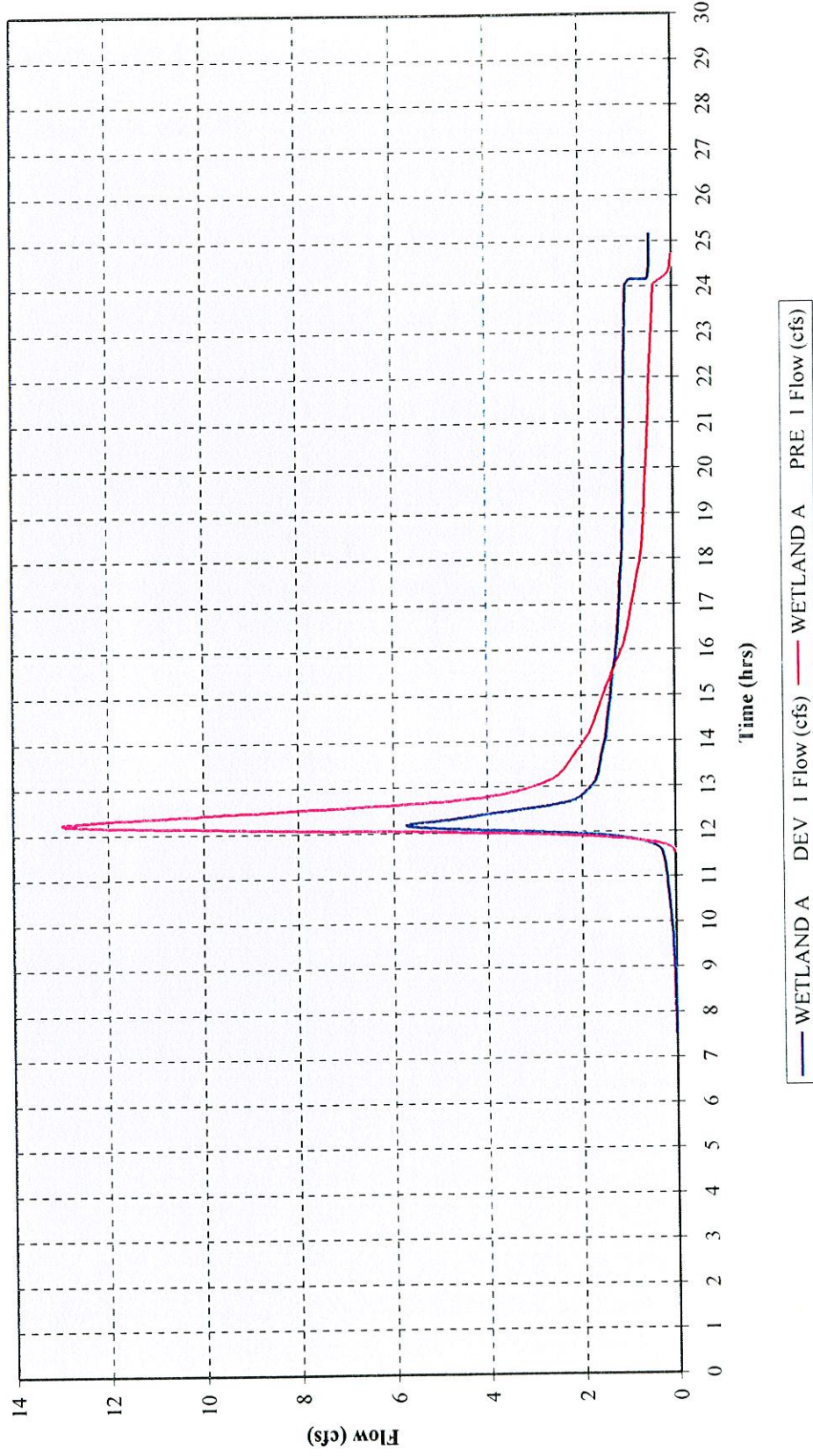


APPENDIX 2L.
PRE/POST DEVELOPMENT
HYDROGRAPHS

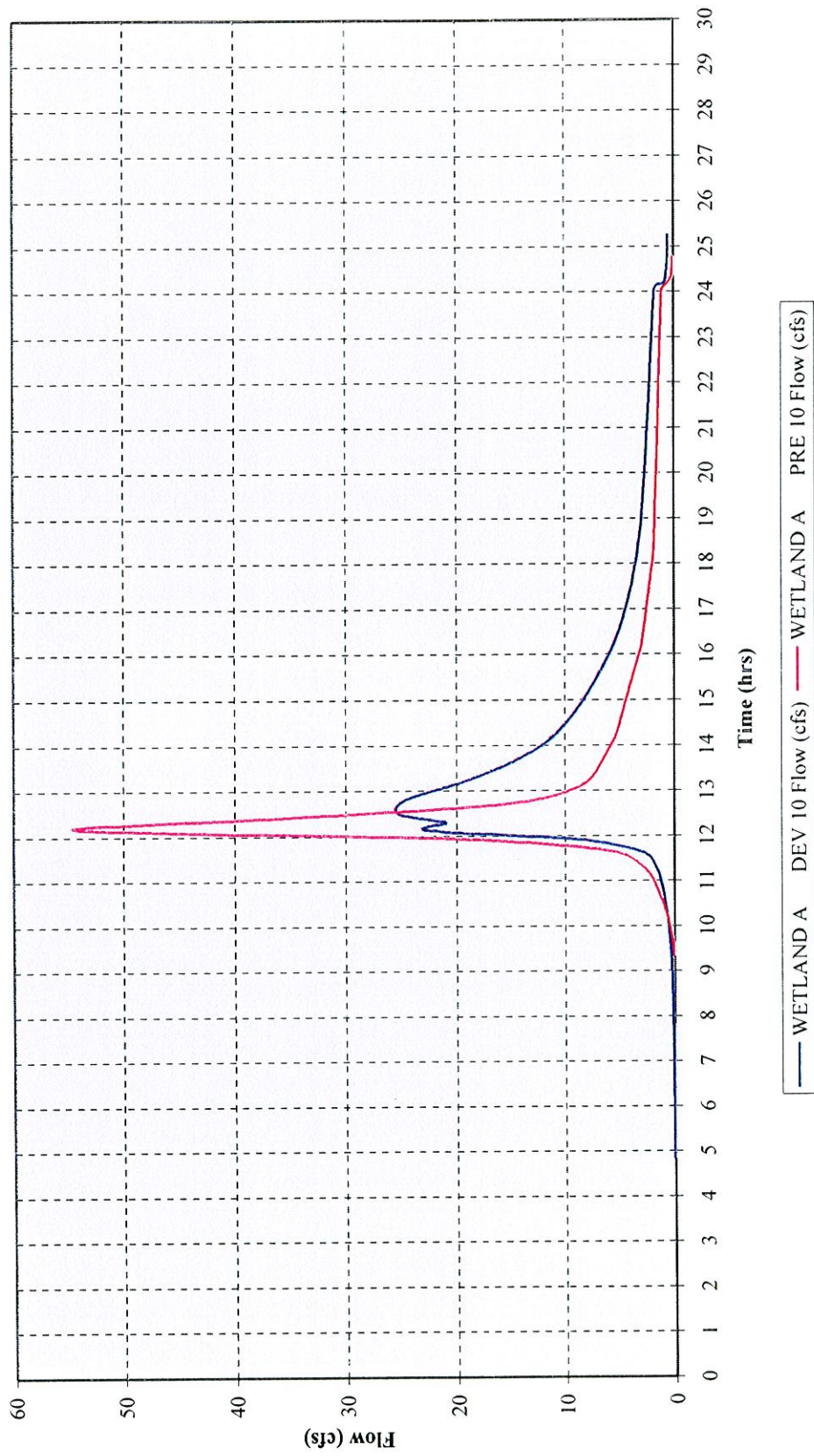
**Pre/Post-Development Hydrograph
Wetland A**

1-year 24-hour storm

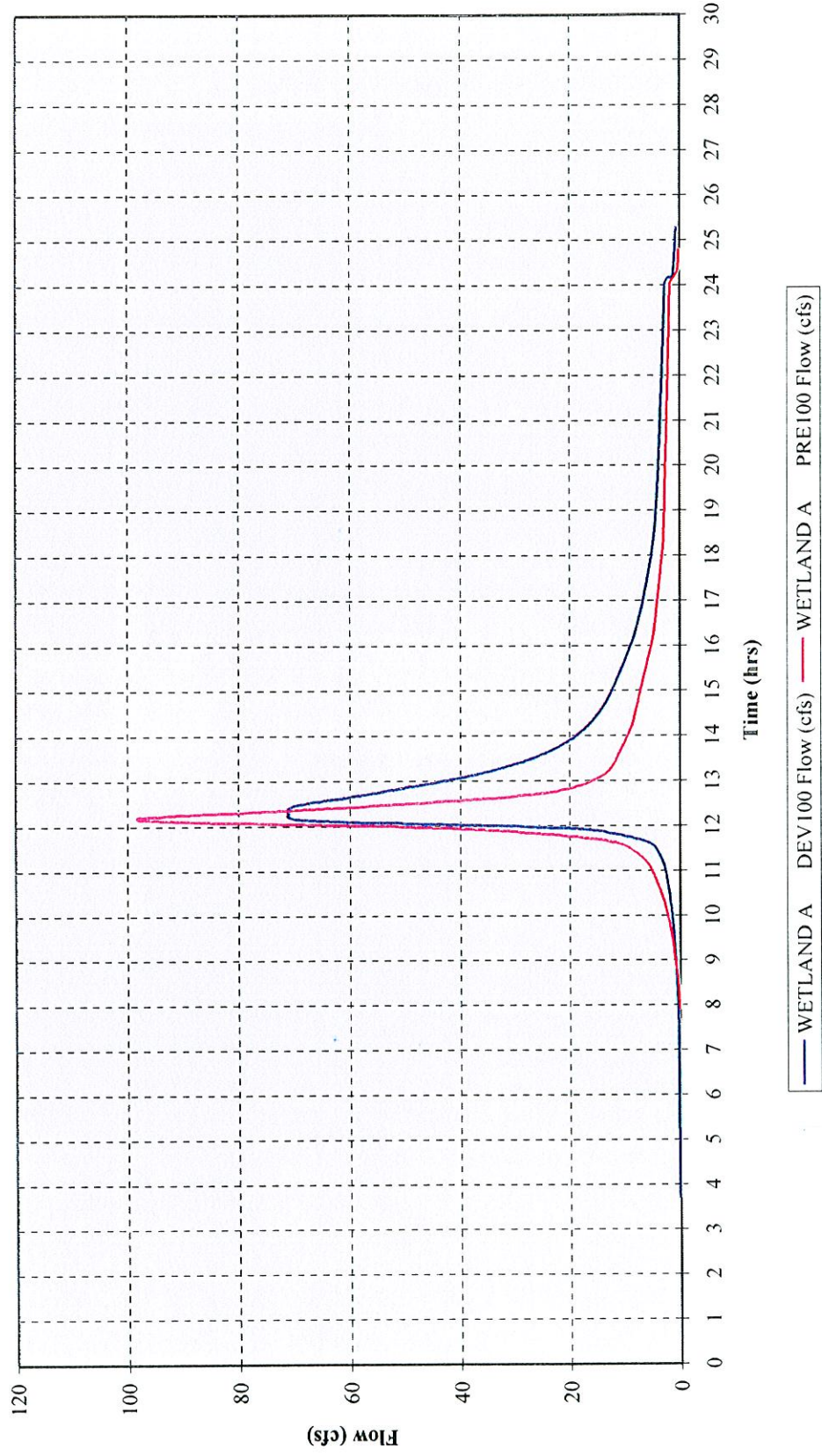


Pre/Post-Development Hydrograph
Wetland A

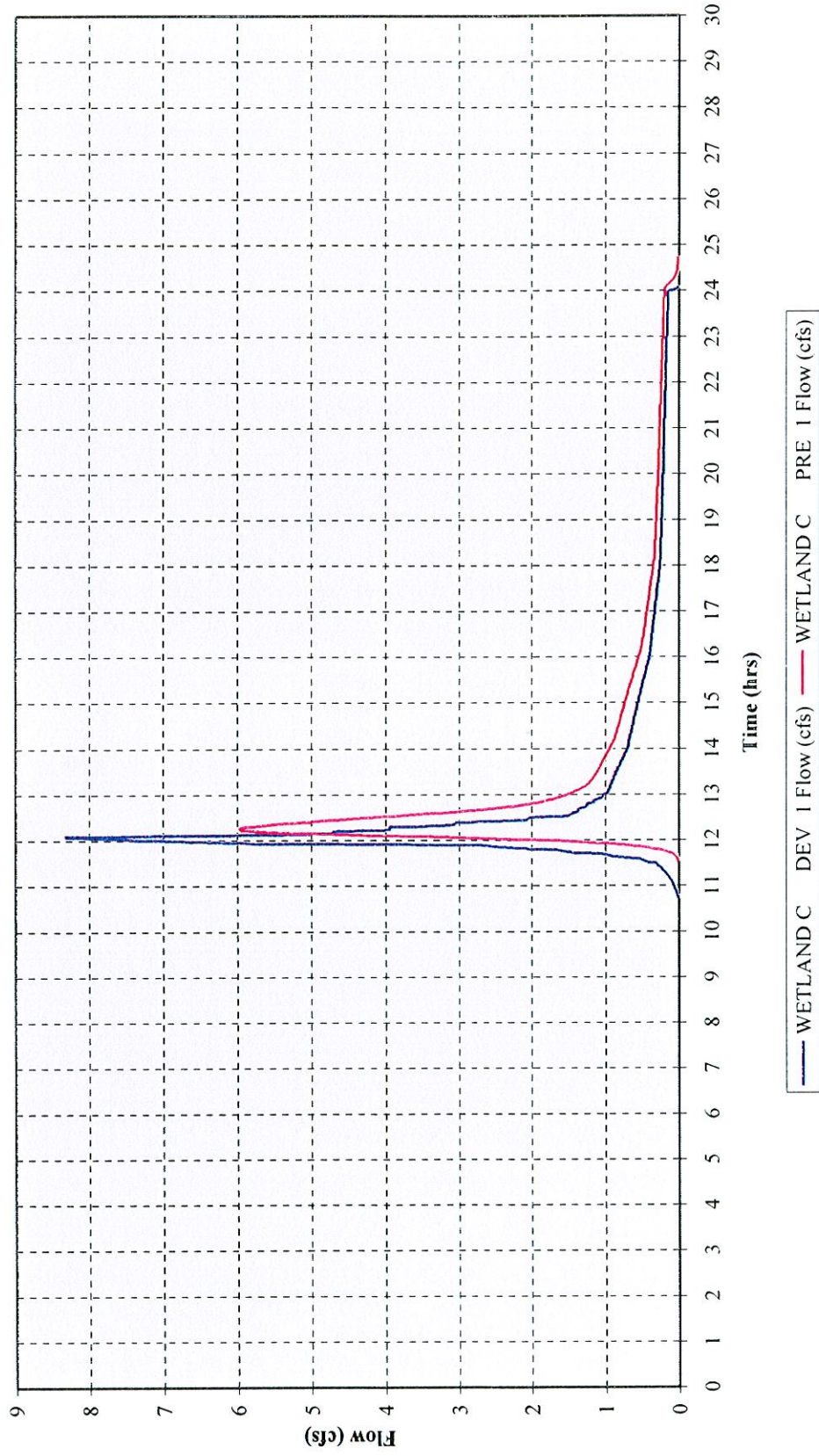
10-year 24-hour storm



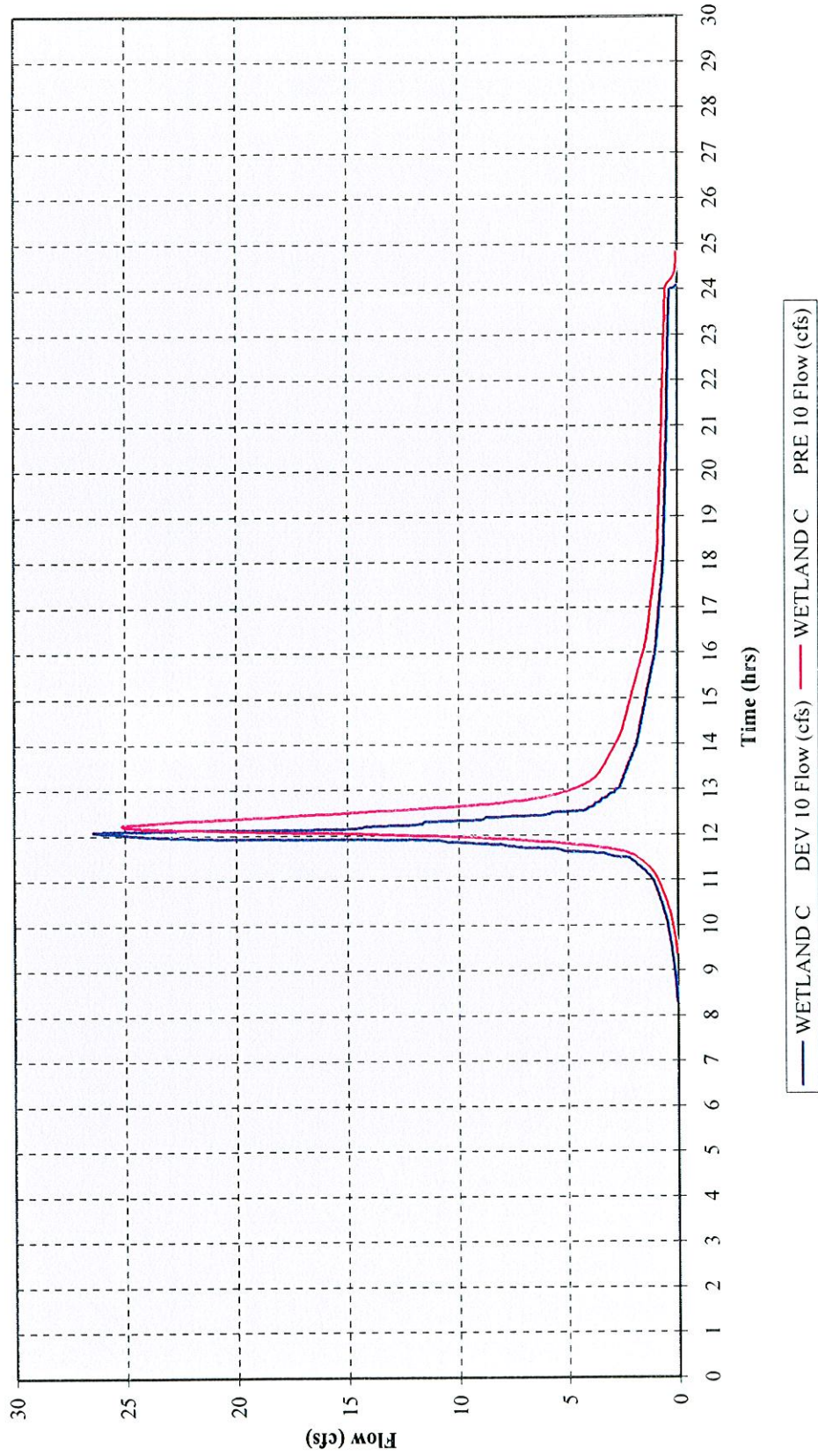
Pre/Post-Development Hydrograph
Wetland A
100-year 24-hour storm



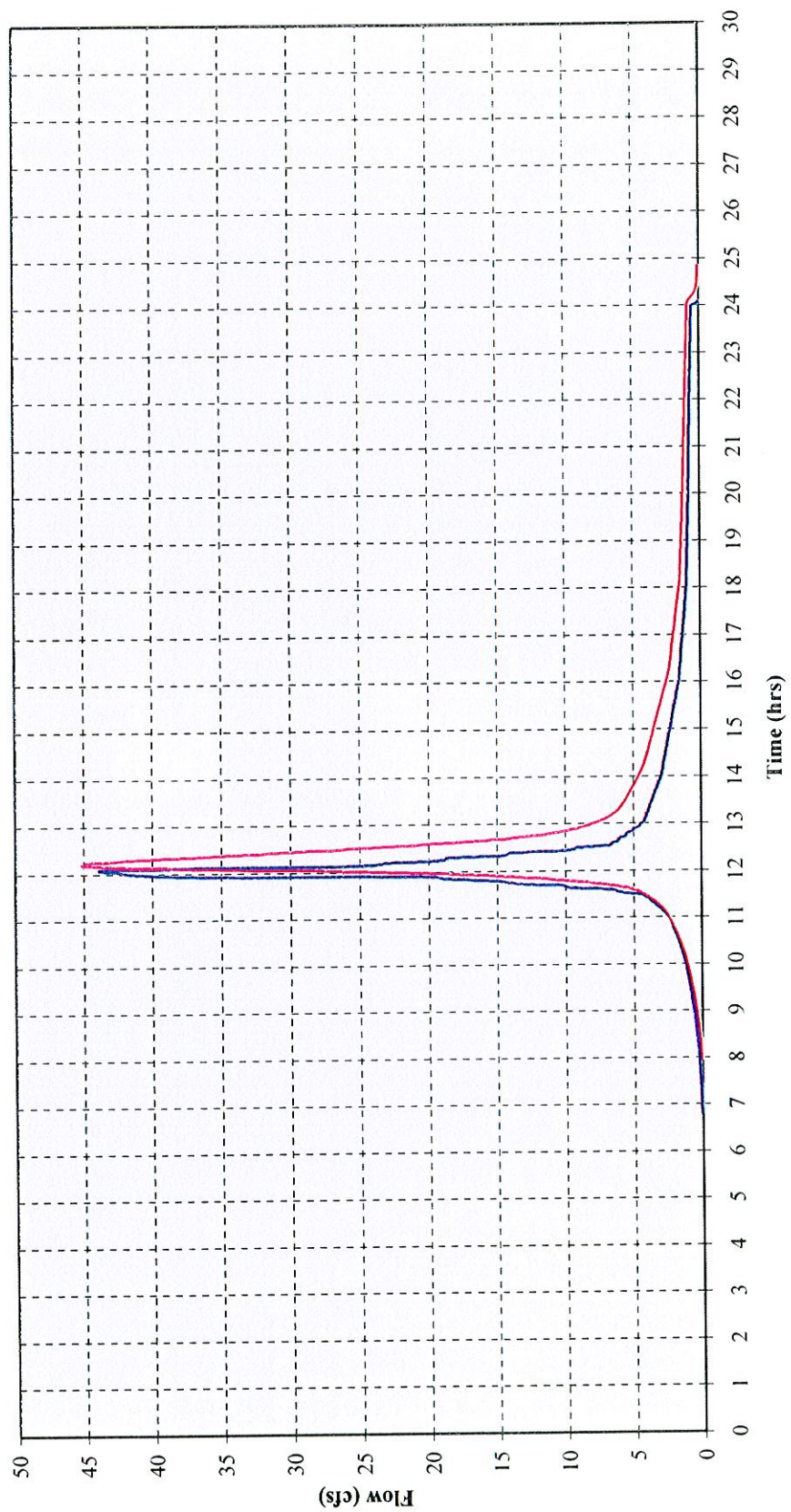
Pre/Post-Development Hydrograph
Wetland C
1-year 24-hour storm



**Pre/Post-Development Hydrograph
Wetland C
10-year 24-hour storm**

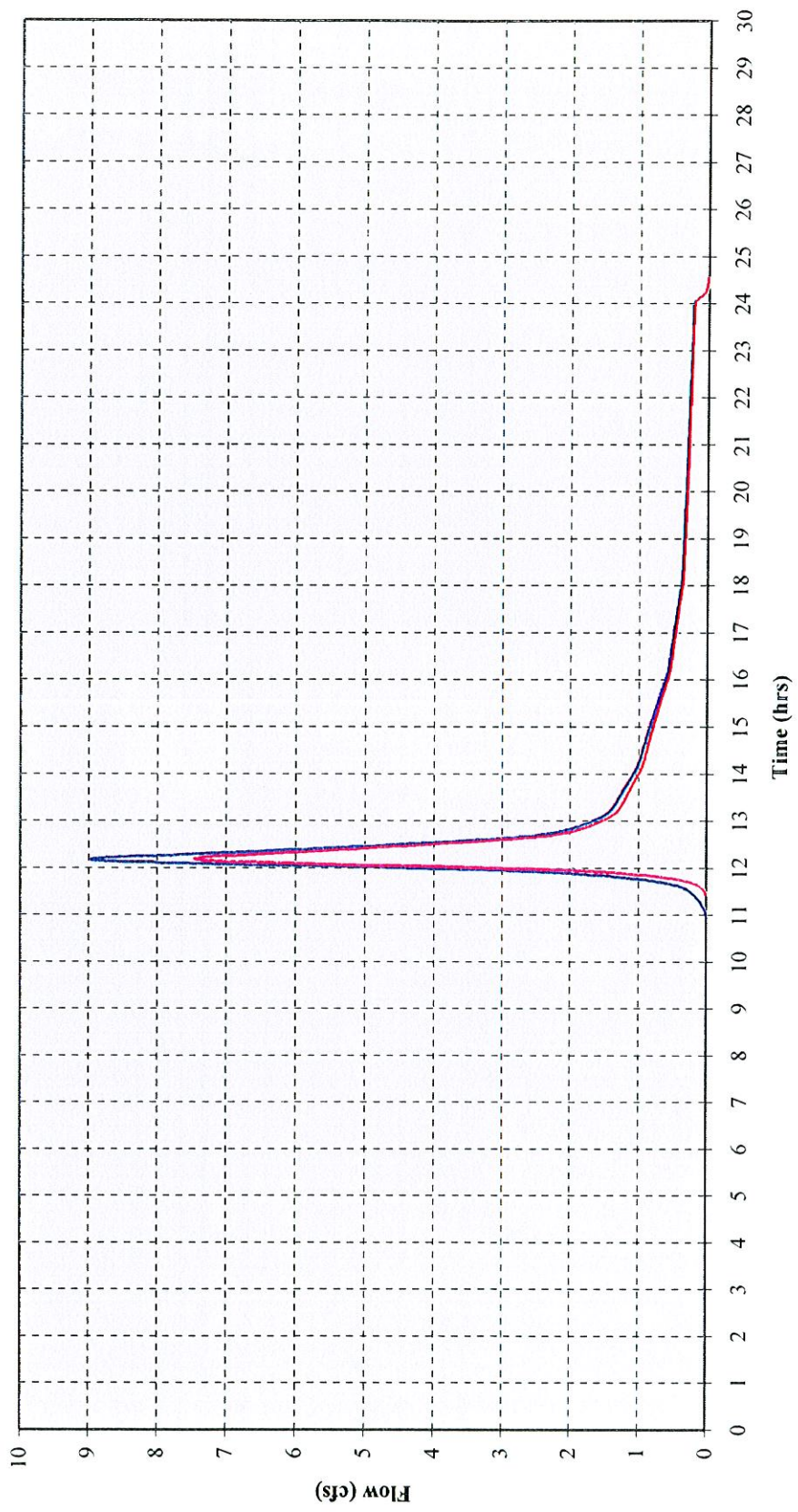


**Pre/Post-Development Hydrograph
Wetland C
100-year 24-hour storm**



— WETLAND C DEV100 Flow (cfs) — WETLAND C PRE100 Flow (cfs)

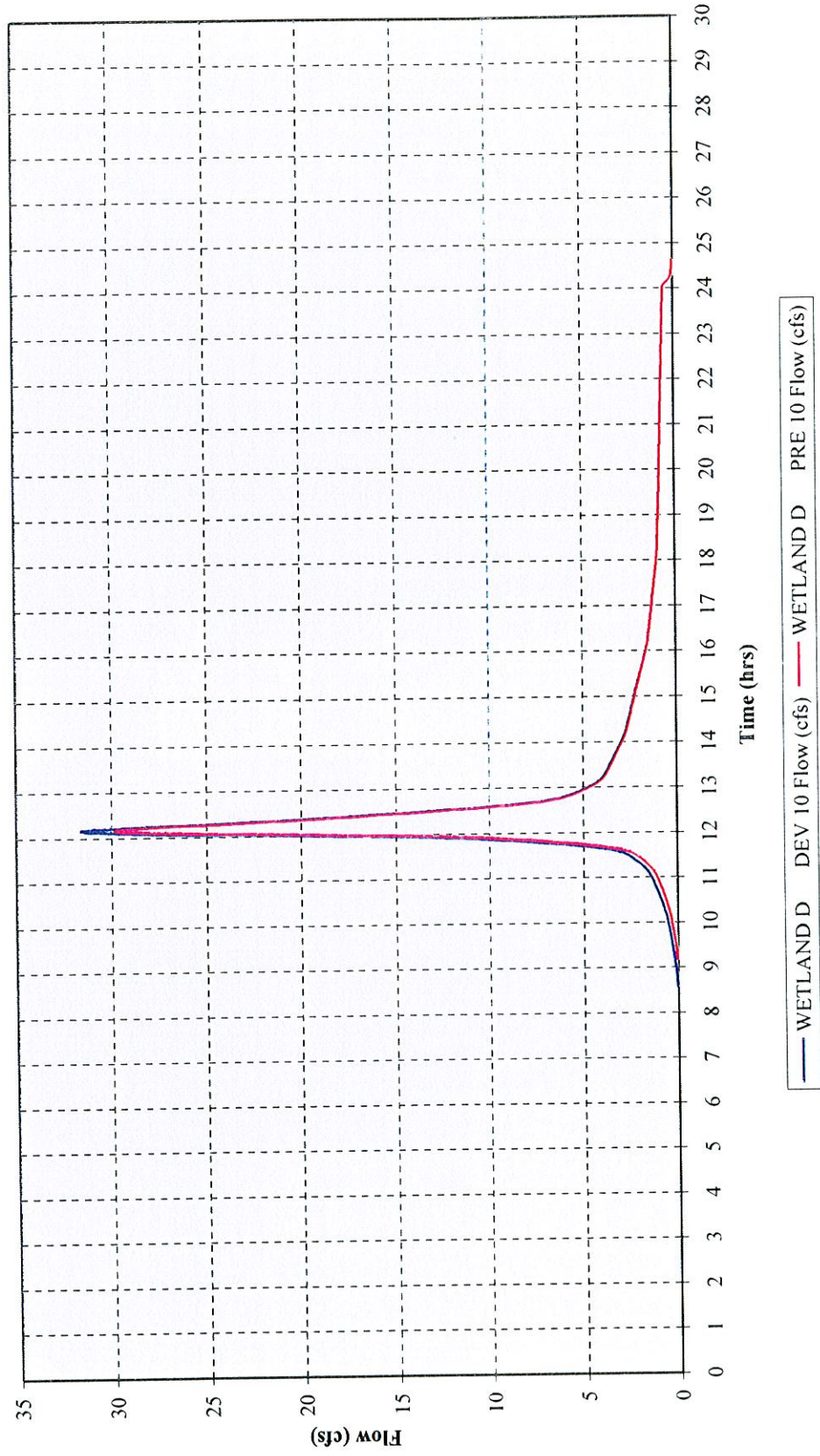
Pre/Post-Development Hydrograph
Wetland D
1-year 24-hour storm



— WETLAND D DEV 1 Flow (cfs) — WETLAND D PRE 1 Flow (cfs)

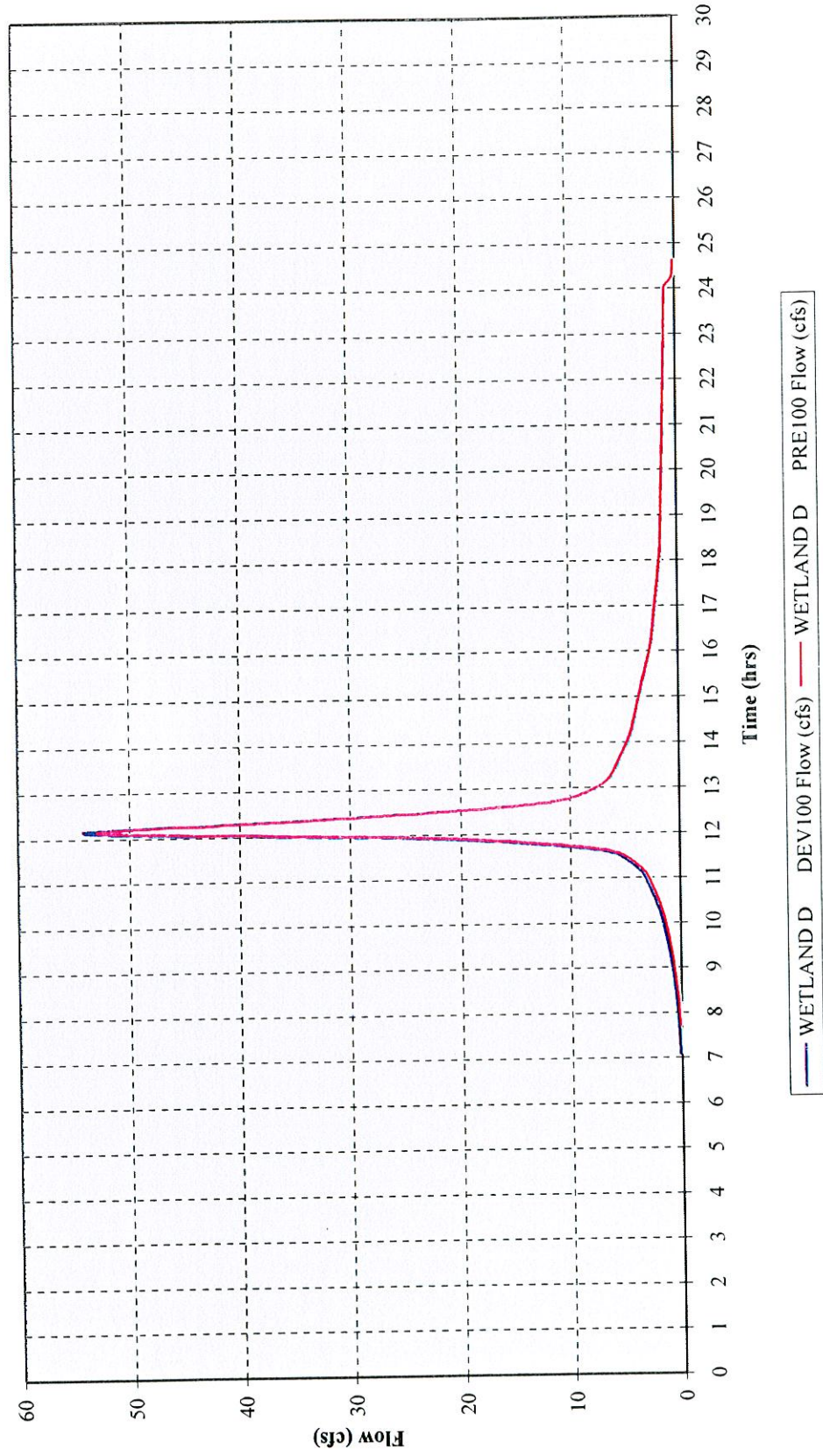
Pre/Post-Development Hydrograph
Wetland D

10-year 24-hour storm

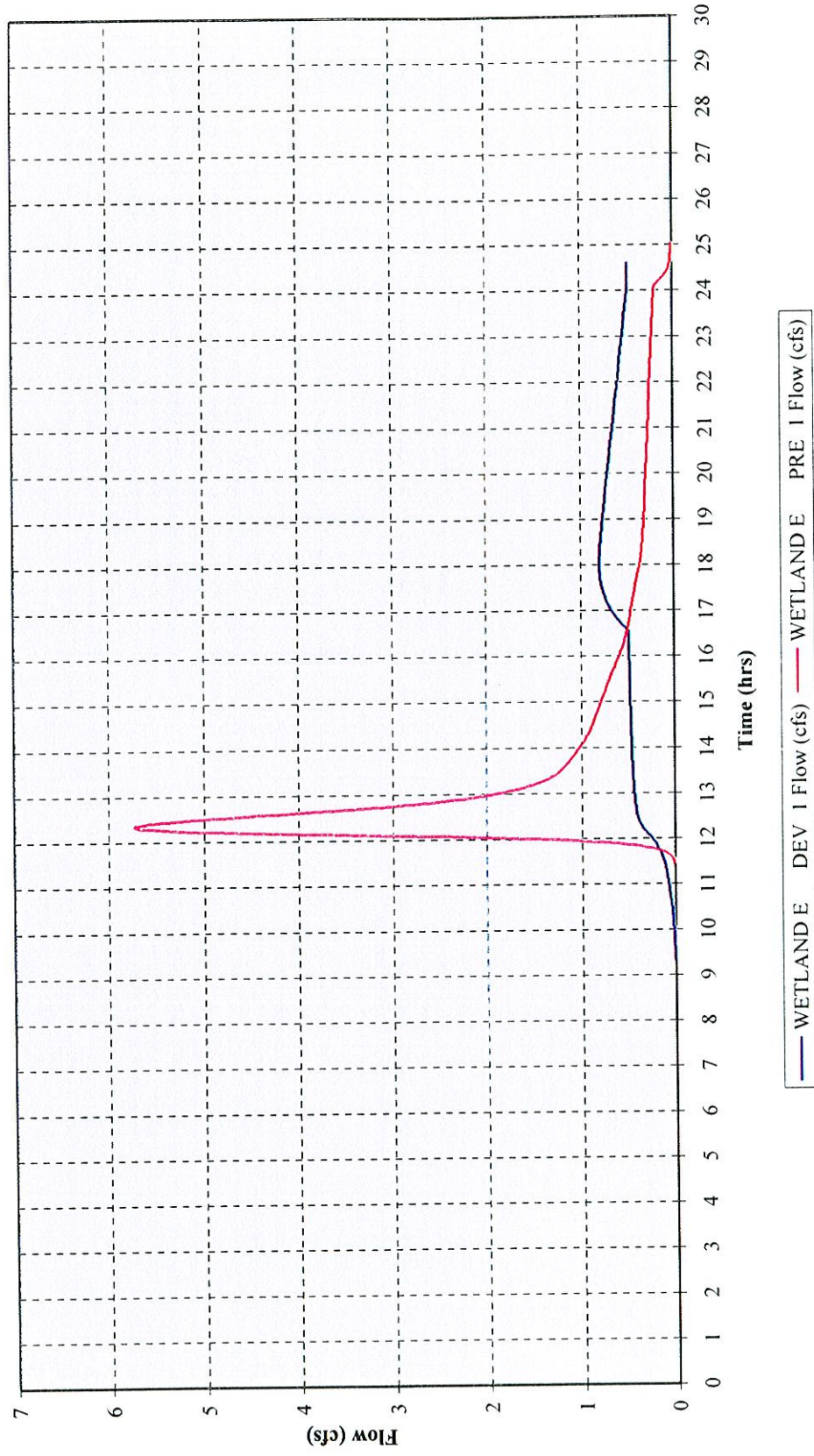


Pre/Post-Development Hydrograph
Wetland D

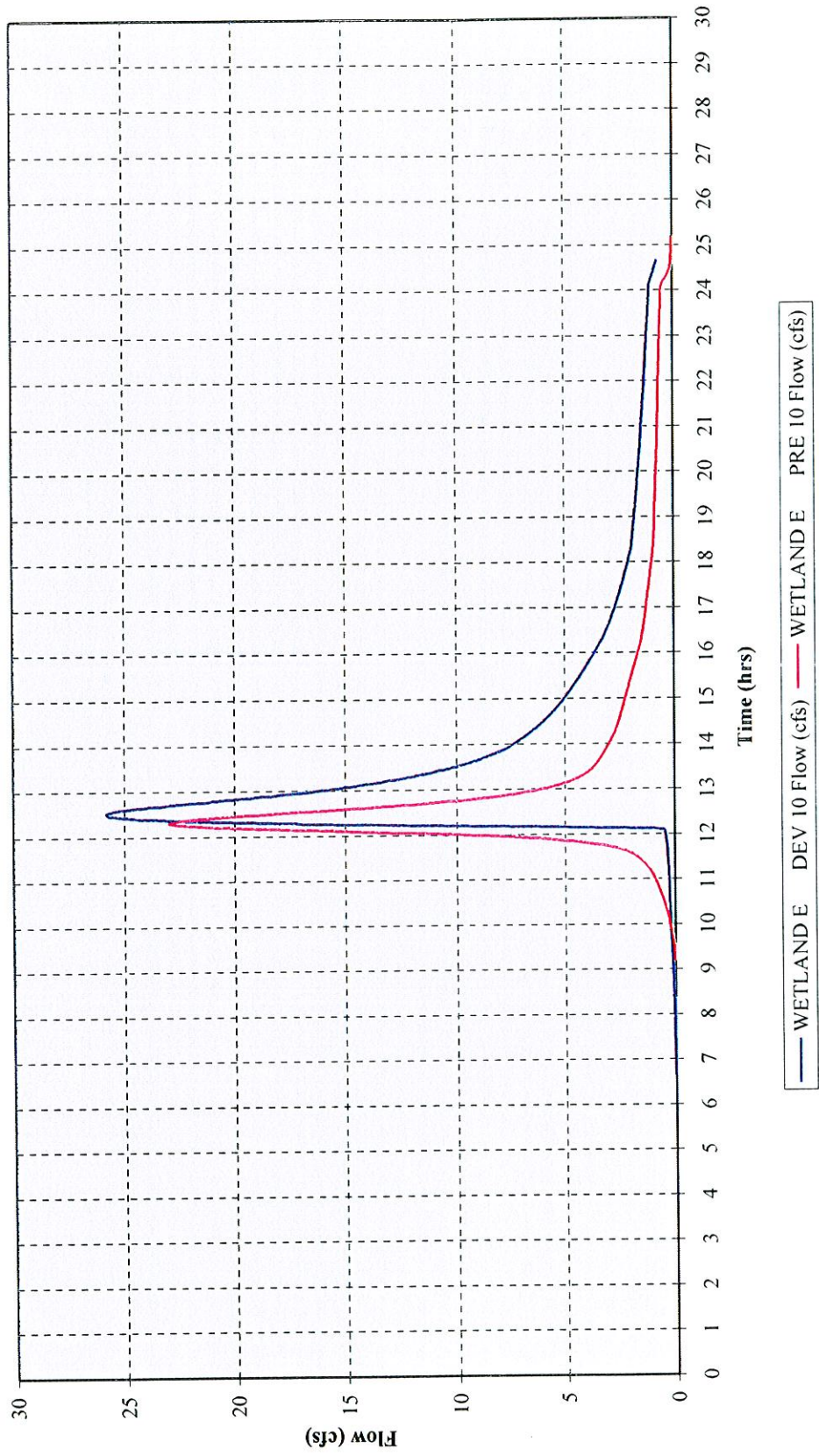
100-year 24-hour storm



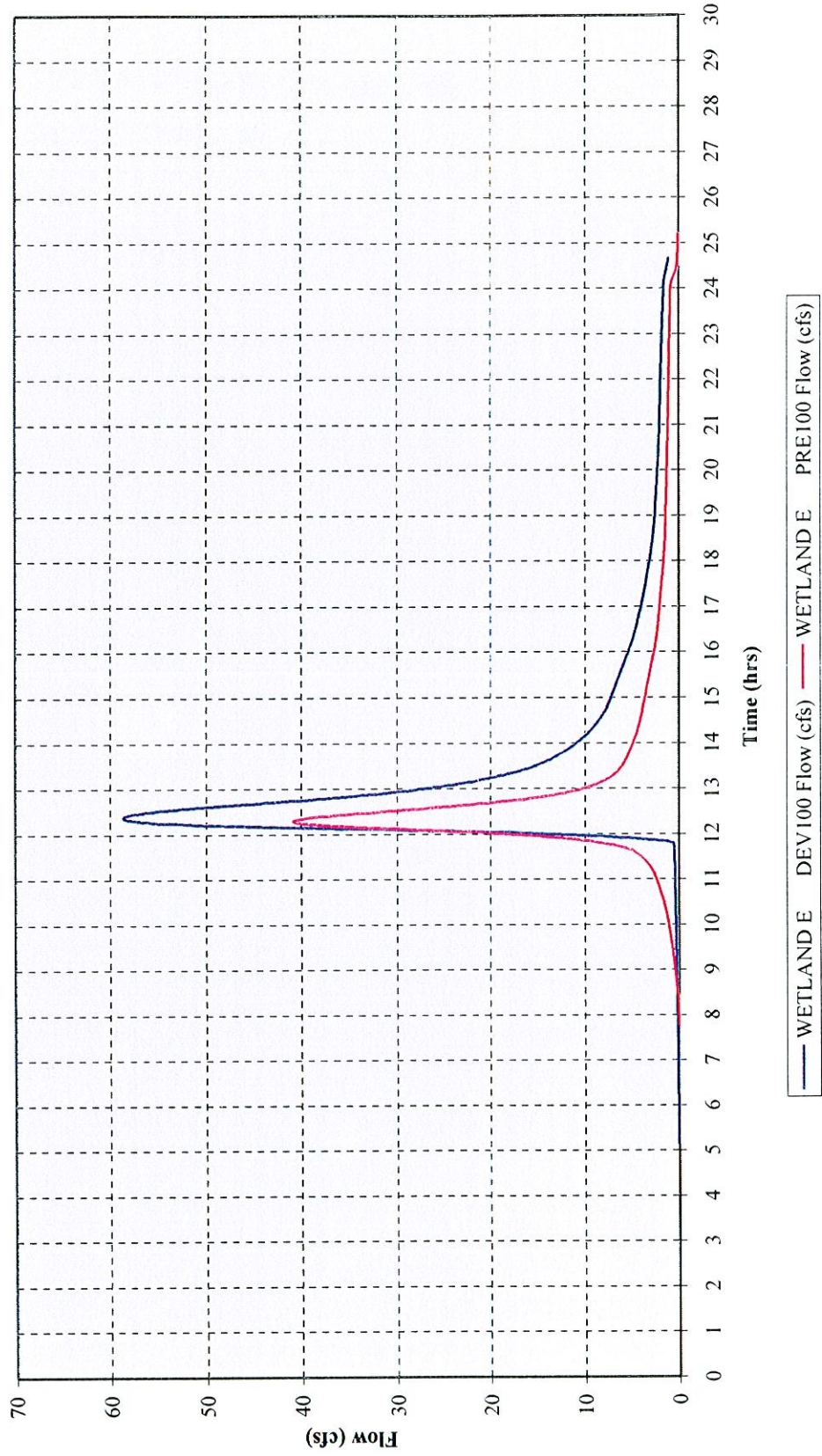
**Pre/Post-Development Hydrograph
Wetland E
1-year 24-hour storm**



**Pre/Post-Development Hydrograph
Wetland E
10-year 24-hour storm**



**Pre/Post-Development Hydrograph
Wetland E
100-year 24-hour storm**



CORNWALL COMMONS
Town of Cornwall, New York
Peak Flow and Stormwater Runoff Quantity Summary
(Revised 1/24/08)

Pre-Development Wetland Drainage Conditions

Wetland Area	Rainfall Peak Flow (CFS)			Rainfall Volume (ac.ft)		
	1-Year	10-Year	100-Year	1-Year	10-Year	100-Year
Wetlands A	12.96	54.69	98.15	1.504	5.507	9.791
Wetlands B	22.28	66.16	107.48	2.211	6.414	10.546
Wetlands C Non-Jurisdictional	5.96	25.11	45.12	0.722	2.644	4.701
Wetlands D	7.46	29.85	52.87	0.799	2.841	5.004
Wetlands E	5.74	23.01	40.87	0.773	2.747	4.839
Wetlands F Non-Jurisdictional	4.16	14.22	24.16	0.500	1.597	2.714

Post-Development Wetland Drainage Conditions

Wetland Area	Rainfall Peak Flow (CFS)			Rainfall Volume (ac.ft)		
	1-Year	10-Year	100-Year	1-Year	10-Year	100-Year
Wetlands A	5.73	25.44	71.20	1.446	7.089	13.190
Wetlands B	22.28	66.16	107.48	2.211	6.414	10.546
Wetlands C Non-Jurisdictional	8.31	26.46	43.89	0.642	2.050	3.484
Wetlands D	8.98	31.63	54.08	0.914	2.995	5.135
Wetlands E	0.79	25.83	58.69	0.605	4.460	8.140
Wetlands F Non-Jurisdictional	0.00	0.00	0.00	0.000	0.000	0.000

Pre- and Post-Development Differences to Wetlands

Wetland Area	Rainfall Peak Flow (CFS)			Rainfall Volume (ac.ft)		
	1-Year	10-Year	100-Year	1-Year	10-Year	100-Year
Wetlands A	-7.23	-29.25	-26.95	-0.058	1.582	3.399
Wetlands B	0.00	0.00	0.00	0.000	0.000	0.000
Wetlands C Non-Jurisdictional	2.35	1.35	-1.23	-0.080	-0.594	-1.217
Wetlands D	1.52	1.78	1.21	0.115	0.154	0.131
Wetlands E	-4.95	2.82	17.82	-0.168	1.713	3.301
Wetlands F Non-Jurisdictional	-4.16	-14.22	-24.16	-0.500	-1.597	-2.714

CORNWALL COMMONS
Town of Cornwall, New York
Peak Flow and Stormwater Runoff Quantity Summary
(Revised 1/24/08)

Pre- and Post-Development Differences to Wetlands (Percent)

Wetland Area	Rainfall Peak Flow (Percent)			Rainfall Volume (Percent)		
	1-Year	10-Year	100-Year	1-Year	10-Year	100-Year
Wetlands A	-55.8%	-53.5%	-27.5%	-3.9%	28.7%	34.7%
Wetlands B	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Wetlands C Non-Jurisdictional	39.4%	5.4%	-2.7%	-11.1%	-22.5%	-25.9%
Wetlands D	20.4%	6.0%	2.3%	14.4%	5.4%	2.6%
Wetlands E	-86.2%	12.3%	43.6%	-21.7%	62.4%	68.2%
Wetlands F Non-Jurisdictional	-100.0%	-100.0%	-100.0%	-100.0%	-100.0%	-100.0%

Summary of Changes

Wetland Area A: The drainage area discharging to this area has increased 9.8 acres causing the stormwater quantity to increase, however peak flowrates have decreased. Stormwater Ponds C and E discharge into Area A, detention provided by the ponds causes the flowrate decrease.

Wetland Area B: The drainage area for Area B is located off-site and outside the limits of disturbance, there is no change in flows entering this wetland area.

Wetland Area C: This area is a non-regulated, non-jurisdictional wetland area. The drainage area discharging to Area C has decreased 4.65 acres, causing the stormwater quantity to decrease as well. Flowrates have increased slightly due to conversion of permeable surfaces to impermeable surfaces.

Wetland Area D: The drainage area discharging to Area D has decreased 0.25 acres, flowrates and stormwater quantities have decreased accordingly.

Wetland Area E: The drainage area discharging to Area E has increased 7.47 acres, flowrates have decreased accordingly. Pond D discharges into this area.

Wetland Area F: This area is a non-regulated, non-jurisdictional wetland area. The drainage area discharging to this area has been redirected to Wetland Area E through the proposed stormwater control system.