

Appendix F

Polder Models: Hurricane Katrina Validation, Inflows

Hurricane Katrina Metro Polder Inundation Inflows

Time	17th St. Canal Floodwall Breach				Orleans Ave Floodwall Breach		London Ave N Floodwall Breach		London Ave S Floodwall Breach		IHNC Overtopping South		IHNC Overtopping North		IHNC-3 Breaches	
	Lake Stage ft	Length (ft)	450.00	Length (ft)	200.00	Length (ft)	300.00	Length (ft)	80.00	Length (ft)	7,000.00	Length (ft)	14,000	Length (ft)	290.00	
		C	0.65		C		0.65		C		0.65		C		0.65	C
Invert ft	Cumulative Flow Acre-Ft	Invert ft	Cumulative Flow Acre-Ft	Invert ft	Cumulative Flow Acre-Ft	Invert ft	Cumulative Flow Acre-Ft	Invert ft	Cumulative Flow Acre-Ft	IHNC Stage ft	Invert ft	Cumulative Flow Acre-Ft	Invert ft	Cumulative Flow Acre-Ft	Invert ft	Cumulative Flow Acre-Ft
5:00 AM										9.00						
5:30 AM										9.25						
6:00 AM										9.50						
6:30 AM										10.00						
7:00 AM	8.00								2.50	11.00					3.00	
7:30 AM	9.00							2.00	85.55	12.00					3.00	
8:00 AM	9.50	7.00		9.50	-	2.50	412.17	1.50	208.38	12.50	12.00	-	12.00	-	3.00	1,009.60
8:30 AM	10.00	5.00	147.47	9.50	-	2.00	872.79	1.00	358.46	13.00	12.00	220.96	12.00	378.79	3.00	1,605.28
9:00 AM	11.00	4.00	564.58	9.50	5.86	1.50	1,435.57	0.50	537.53	13.50	12.00	845.94	12.00	1,450.18	3.00	2,248.60
9:30 AM	11.00	3.00	1,255.52	9.50	36.32	0.50	2,163.83	-	763.19	14.00	12.00	1,994.09	12.00	3,418.45	3.00	2,940.77
10:00 AM	10.50	2.00	2,099.68	9.50	66.78	-	3,010.06	-	1,005.16	14.00	12.00	3,761.79	12.00	6,448.79	3.00	3,682.97
10:30 AM	10.00	1.00	3,024.22	9.50	83.37	-	3,856.28	-	1,230.82	13.50	12.00	5,529.49	12.00	9,479.13	3.00	4,425.16
11:00 AM	9.00	-	4,031.51	9.50	89.23	-	4,642.79	-	1,440.56	13.00	12.00	6,677.65	12.00	11,447.40	3.00	5,117.33
11:30 AM	8.20	-	5,038.81	-	-	-	5,314.32	-	1,619.63	12.50	12.00	7,302.62	12.00	12,518.78	3.00	5,760.65
12:00 PM	7.50	-	5,914.83	-	-	-	5,898.33	-	1,775.37	12.00	-	7,523.59	-	12,897.58	3.00	6,356.33
12:30 PM	7.00	-	6,681.10	-	-	-	6,409.18	-	1,911.59	11.50	-	-	-	-	3.00	6,905.61
1:00 PM	6.50	-	7,372.04	-	-	-	6,869.81	-	2,034.43	11.00	-	-	-	-	3.00	7,409.75
1:30 PM	6.50	-	7,990.29	-	-	-	7,281.98	-	2,144.34	10.50	-	-	-	-	3.00	7,870.08
2:00 PM	6.50	-	8,608.54	-	-	-	7,694.14	-	2,254.25	10.00	-	-	-	-	3.00	8,287.93
2:30 PM	6.50	-	9,226.79	-	-	-	8,106.31	-	2,364.16	9.50	-	-	-	-	3.00	8,664.70
3:00 PM	6.50	-	9,845.04	-	-	-	8,518.47	-	2,474.07	9.00	-	-	-	-	3.00	9,001.83
3:30 PM	6.50	-	10,463.29	-	-	-	8,930.64	-	2,583.98	8.50	-	-	-	-	3.00	9,300.82
4:00 PM	6.50	-	11,081.54	-	-	-	9,342.81	-	2,693.89	8.00	-	-	-	-	3.00	9,563.22
4:30 PM	6.50	-	11,699.79	-	-	-	9,754.97	-	2,803.80	7.50	-	-	-	-	3.00	9,790.67
5:00 PM	6.50	-	12,318.03	-	-	-	10,167.14	-	2,913.72	7.30	-	-	-	-	3.00	9,984.87
5:30 PM	6.50	-	12,936.28	-	-	-	10,579.30	-	3,023.63	7.10	-	-	-	-	3.00	10,166.27
6:00 PM	6.50	-	13,554.53	-	-	-	10,991.47	-	3,133.54	6.90	-	-	-	-	3.00	10,335.16
6:30 PM	6.50	-	14,172.78	-	-	-	11,403.63	-	3,243.45	6.70	-	-	-	-	3.00	10,491.84
7:00 PM	6.50	-	14,791.03	-	-	-	11,815.80	-	3,353.36	6.50	-	-	-	-	3.00	10,636.63
7:30 PM	6.50	-	15,409.28	-	-	-	12,227.97	-	3,463.27	6.30	-	-	-	-	3.00	10,769.83
8:00 PM	6.50	-	16,027.53	-	-	-	12,640.13	-	3,573.18	6.10	-	-	-	-	3.00	10,891.79
8:30 PM	6.50	-	16,645.78	-	-	-	13,052.30	-	3,683.09	5.90	-	-	-	-	3.00	11,002.83
9:00 PM	6.50	-	17,264.03	-	-	-	13,464.46	-	3,793.00	5.70	-	-	-	-	3.00	11,103.29
9:30 PM	6.50	-	17,882.27	-	-	-	13,876.63	-	3,902.91	5.60	-	-	-	-	3.00	11,193.55
10:00 PM	6.40	-	18,500.52	-	-	-	14,288.80	-	4,012.82	5.50	-	-	-	-	3.00	11,278.84
10:30 PM	6.30	-	19,104.56	-	-	-	14,691.49	-	4,120.21	5.40	-	-	-	-	3.00	11,359.25
11:00 PM	6.20	-	19,694.49	-	-	-	15,084.78	-	4,225.09	5.30	-	-	-	-	3.00	11,434.89
11:30 PM	6.10	-	20,270.44	-	-	-	15,468.74	-	4,327.48	5.20	-	-	-	-	3.00	11,505.85
12:00 AM	6.00	-	20,832.51	-	-	-	15,843.45	-	4,427.40	5.10	-	-	-	-	3.00	11,572.24
12:30 AM	5.90	-	21,380.81	-	-	-	16,208.99	-	4,524.88	5.00	-	-	-	-	3.00	11,634.15
1:00 AM	5.80	-	21,915.46	-	-	-	16,565.42	-	4,619.92	4.90	-	-	-	-	3.00	11,691.69
1:30 AM	5.70	-	22,436.58	-	-	-	16,912.83	-	4,712.57	4.80	-	-	-	-	3.00	11,744.97
2:00 AM	5.60	-	22,944.28	-	-	-	17,251.30	-	4,802.82	4.70	-	-	-	-	3.00	11,794.09
2:30 AM	5.50	-	23,438.67	-	-	-	17,580.90	-	4,890.72	4.60	-	-	-	-	3.00	11,839.19
3:00 AM	5.40	-	23,919.89	-	-	-	17,901.70	-	4,976.27	4.50	-	-	-	-	3.00	11,880.36
3:30 AM	5.30	-	24,388.03	-	-	-	18,213.80	-	5,059.49	4.40	-	-	-	-	3.00	11,917.73
4:00 AM	5.20	-	24,843.24	-	-	-	18,517.27	-	5,140.42	4.30	-	-	-	-	3.00	11,951.43
4:30 AM	5.10	-	25,285.62	-	-	-	18,812.20	-	5,219.06	4.20	-	-	-	-	3.00	11,981.59
5:00 AM	5.00	-	25,715.31	-	-	-	19,098.65	-	5,295.45	4.10	-	-	-	-	3.00	12,008.33
5:30 AM	4.90	-	26,132.41	-	-	-	19,376.72	-	5,369.60	4.00	-	-	-	-	3.00	12,031.80
6:00 AM	4.80	-	26,537.07	-	-	-	19,646.49	-	5,441.54	3.90	-	-	-	-	3.00	12,052.14
6:30 AM	4.70	-	26,929.40	-	-	-	19,908.05	-	5,511.29	3.80	-	-	-	-	3.00	12,069.51
7:00 AM	4.60	-	27,309.54	-	-	-	20,161.47	-	5,578.87	3.70	-	-	-	-	3.00	12,084.07
7:30 AM	4.50	-	27,677.61	-	-	-	20,406.85	-	5,644.31	3.60	-	-	-	-	3.00	12,095.98
8:00 AM	4.40	-	28,033.74	-	-	-	20,644.28	-	5,707.62	3.50	-	-	-	-	3.00	12,105.44
8:30 AM	4.30	-	28,378.07	-	-	-	20,873.83	-	5,768.83	3.40	-	-	-	-	3.00	12,112.63
9:00 AM	4.20	-	28,710.73	-	-	-	21,095.60	-	5,827.97	3.30	-	-	-	-	3.00	12,117.78
9:30 AM	4.00	-	29,031.85	-	-	-	21,309.68	-	5,885.06	3.20	-	-	-	-	3.00	12,121.12
10:00 AM	3.90	-	29,330.31	-	-	-	21,508.65	-	5,938.12	3.10	-	-	-	-	3.00	12,122.94
10:30 AM	3.80	-	29,617.64	-	-	-	21,700.21	-	5,989.20	3.00	-	-	-	-	3.00	12,123.58
11:00 AM	3.70	-	29,894.00	-	-	-	21,884.45	-	6,038.33	2.90	-	-	-	-		
11:30 AM	3.60	-	30,159.52	-	-	-	22,061.46	-	6,085.53	2.80	-	-	-	-		
12:00 PM	3.50	-	30,414.34	-	-	-	22,231.34	-	6,130.84	2.70	-	-	-	-		
12:30 PM	3.40	-	30,658.63	-	-	-	22,394.20	-	6,174.27	2.60	-	-	-	-		
1:00 PM	3.30	-	30,892.52	-	-	-	22,550.13	-	6,215.85	2.50	-	-	-	-		
1:30 PM	3.20	-	31,116.17	-	-	-	22,699.22	-	6,255.61	2.40	-	-	-	-		
2:00 PM	3.10	-	31,329.73	-	-	-	22,841.60	-	6,293.57	2.30	-	-	-	-		
2:30 PM	3.00	-	31,533.35	-	-	-	22,977.35	-	6,329.77	2.20	-	-	-	-		
3:00 PM	2.90	-	31,727.21	-	-	-	23,106.59	-	6,364.23	2.10	-	-	-	-		
3:30 PM	2.80	-	31,911.45	-	-	-	23,229.41	-	6,396.99	2.00	-	-	-	-		
4:00 PM	2.70	-	32,086.25	-	-	-	23,345.94	-	6,428.06	1.90	-	-	-	-		
4:30 PM	2.50	-	32,251.76	-	-	-	23,456.29	-	6,457.49		-	-	-	-		
5:00 PM		-	32,399.23	-	-	-	23,554.60	-	6,483.71		-	-	-	-		

