

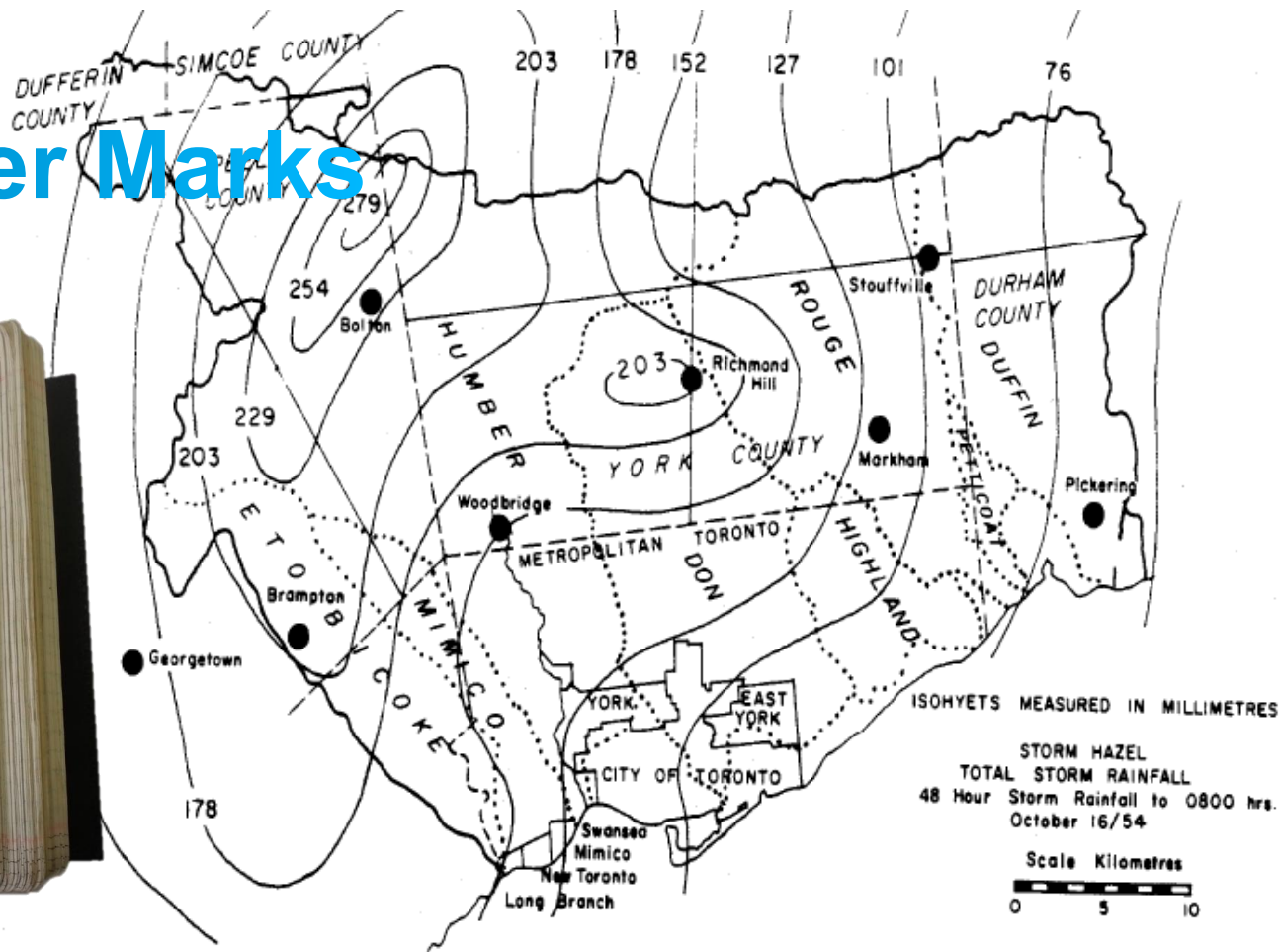
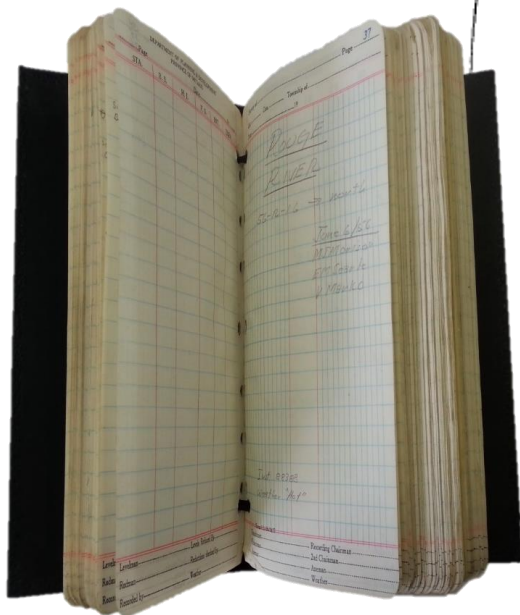
# Capturing the flow of technology:

The evolution of flood modelling & mapping

Presented by: Sameer Dhalla, Director

March 5 & 6, 2018

# 1950's High Water Marks



TOUR OF COUNCIL HILL

METROPOLITAN TORONTO

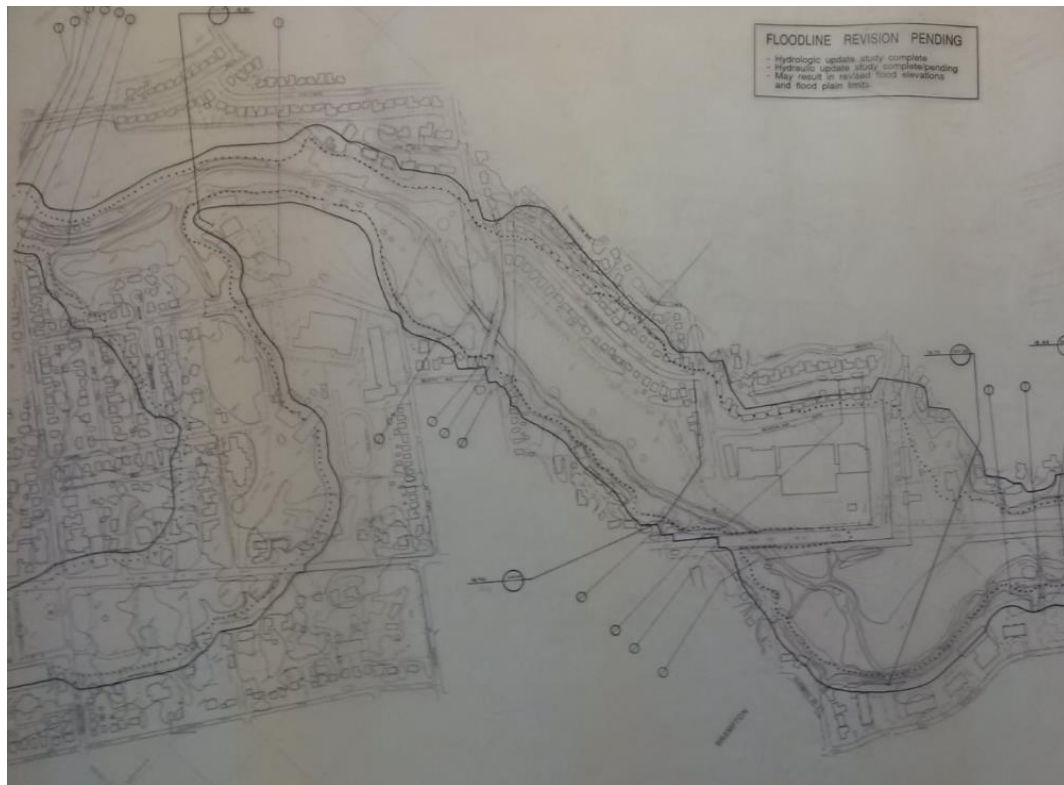
DURHAM AVENUE

SCALE 1:50,000

SUBWATERSHED DELINEATION



# 1980's HEC-2



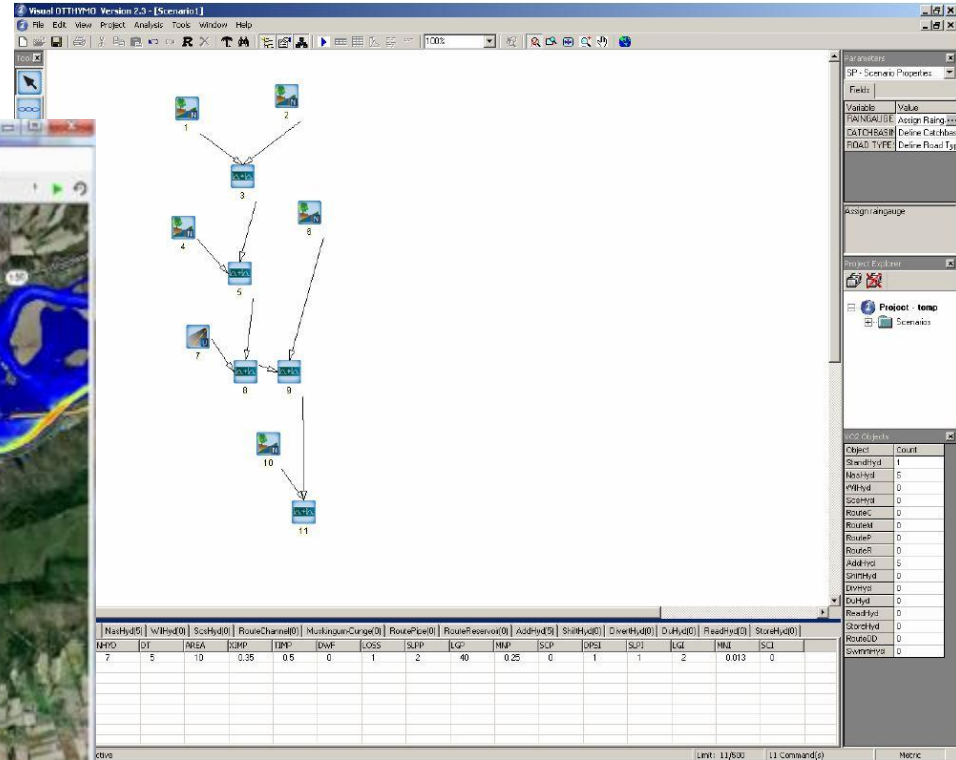
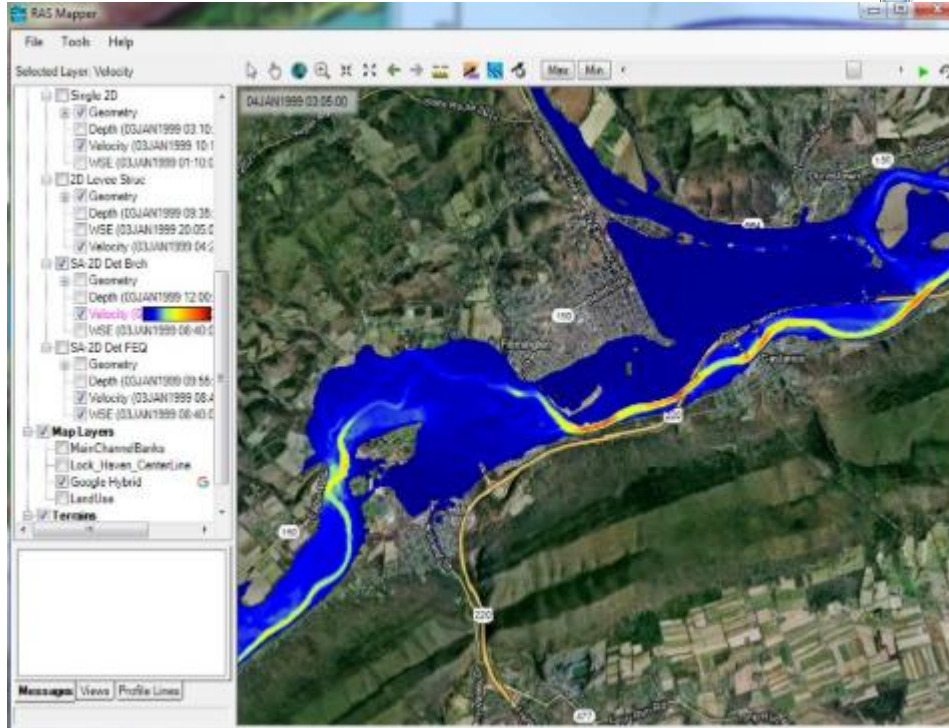
File Edit Format View Help										
T1	ROUGE RIVER; REVISION 001: CROSS-SECTIONS 100.15 - 100.25 UPDATED									
T2	WITH SURVEY DATA FROM STANLEY CONSULTING GROUP, SUMMER 1998									
T3	HYDROLOGY UPDATE:OCT 1988; HYDRAULIC UPDATE:1996									
T4	REGIONAL STORM; UNCONTROLLED FULL GROWTH QUALHYMO FLOWS									
J10.	2.	0.	0.	0	1.	0.	0.	209.12	1.	
J2 1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
J338.	43.	3.	1.	2.	40.	41.	42.	26.	25.	
J34.	8.	0.	0.	0.	0.	0.	0.	0.	0.	
NC0.055	0.055	0.035	0.1	0.3						
QT	7	297.0	70.9	58.1	49.6	37.8	30.1	20.7		
X1346.21	21	22.9	28.1							
GR 210	0	205	11	203	15.8	202	21.6	201.3	22.9	
GR 200.8	23	200.8	28	201.3	28.1	201.5	32	202	64	
GR 202.5	79	203	93	205	99	205.5	109	206	124.6	
GR 206.5	136	207	160	208	189	209	198	210	204	
GR 211	209.7									
QT	7	110.5	25.9	20.3	16.7	12.2	9.5	6.3		
X1100.0111.	56.	60.	170.	150.	70.					
GR211.	0.	209.	30.	204.	44.	203.3	56.	203.3	60.	
GR203.5 62.	204.	66.	206.	76.	208.	114.	209.	118.		
GR210.	150.									
X1100.02 11.	80.	87.	132.	118.	132.					
GR213.	0.	207.	40.	206.	42.	205.	76.	204.3	80.	
GR204.3 87.	205.	92.	209.	102.	210.	108.	211.	109.		
GR213.	146.									
X1100.0310.	38.	48.	94.	130.	126.					
GR213.	0.	208.	14.	207.	26.	206.	34.	205.3	38.	
GR205.3 48.	206.	49.	207.	52.	210.	82.	213.	146.		
X1100.048.	154.	158.	180.	132.	178.					
GR212.5 0.	211.	130.	208.	146.	207.7	154.	207.7	158.		
GR208.	160.	209.	168.	213.	390.					
X1100.059.	160.	164.	110.	108.	132.					
GR213.	0.	212.5	40.	212.5	110.	210.	136.	209.1	160.	
GR209.1 164.	210.	170.	213.	270.	214.	332.				
X1100.0612.	113.	117.	124.	82.	144.					



# 1990's Digital Mapping Products

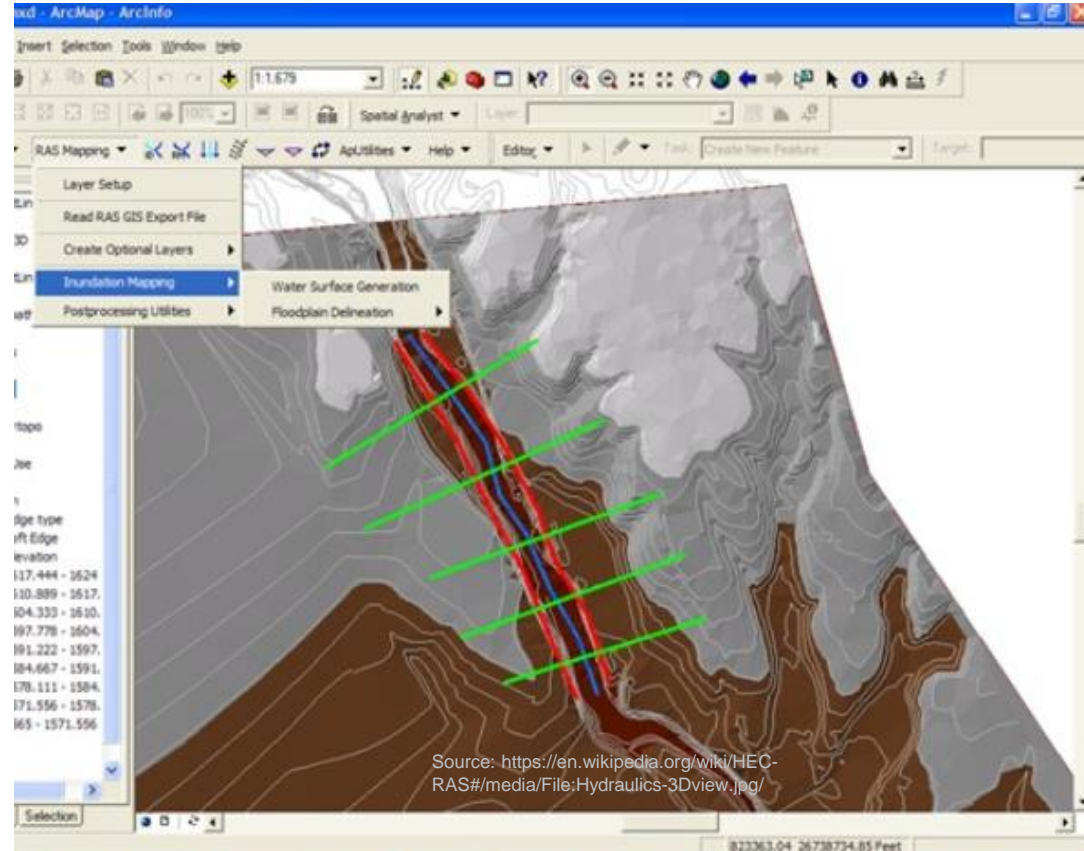
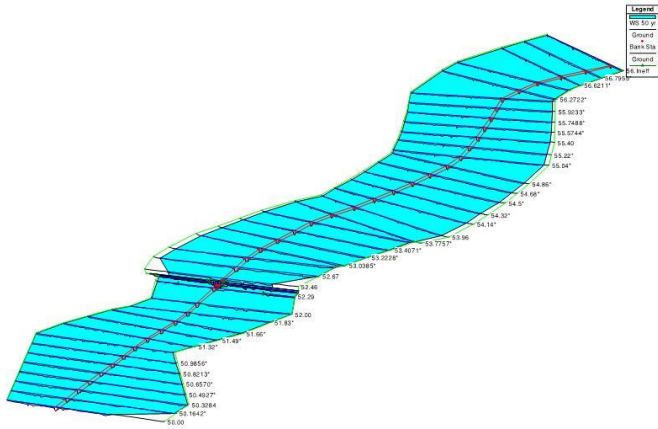


# 2000



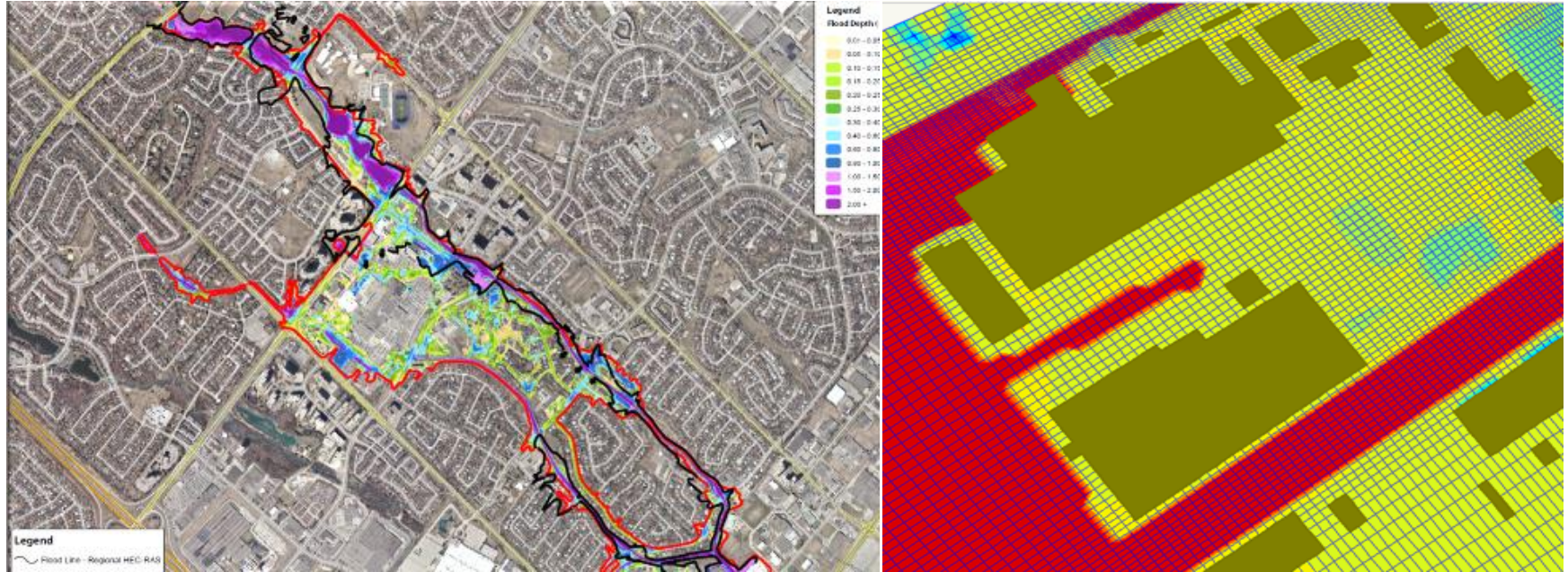


# HEC-GeoRAS



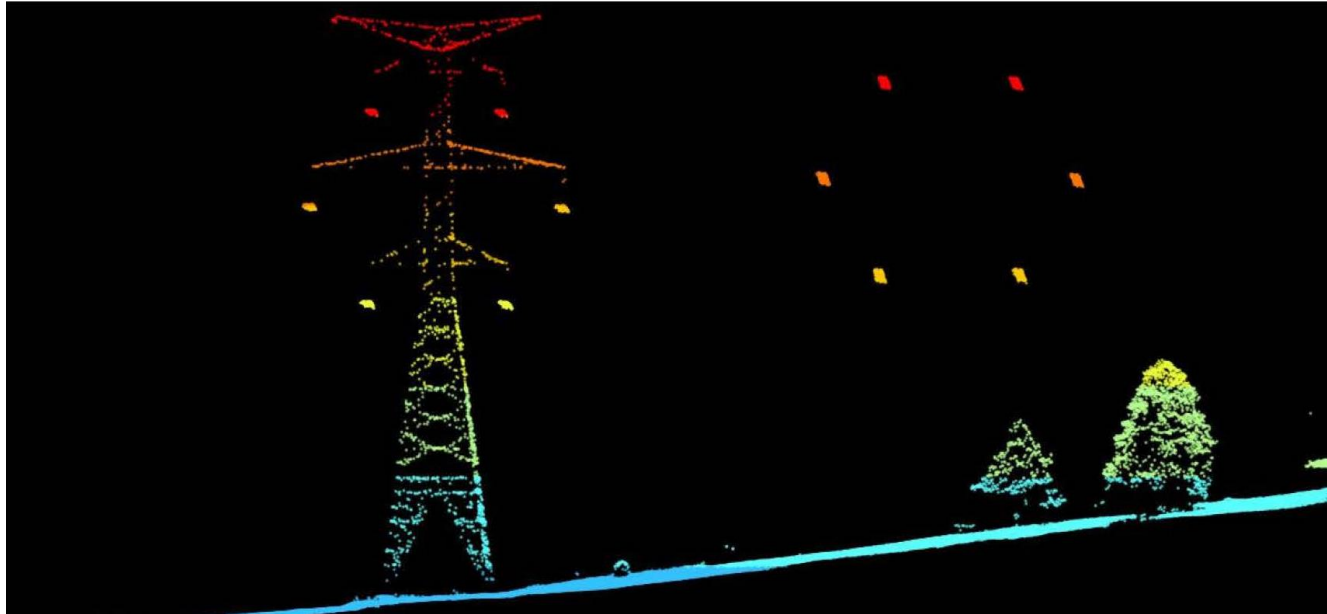
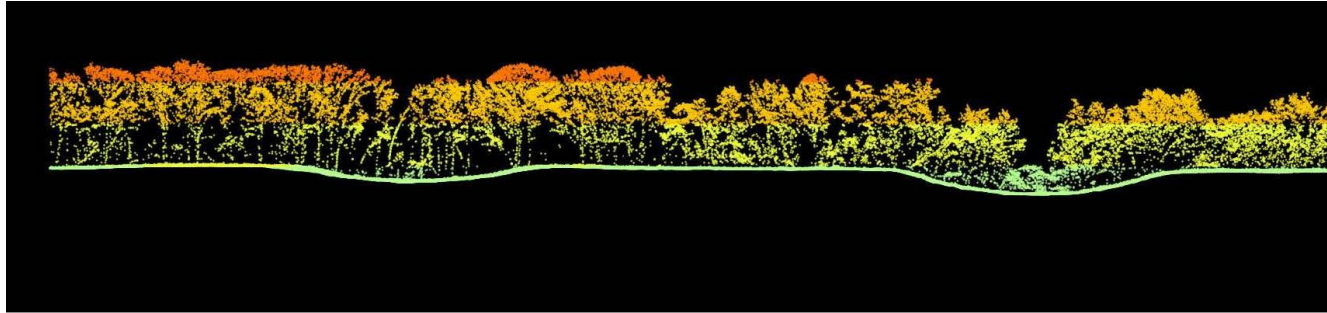
Source: <https://slideplayer.com/slide/5103726/>

# 2010 2-Dimensional Modelling

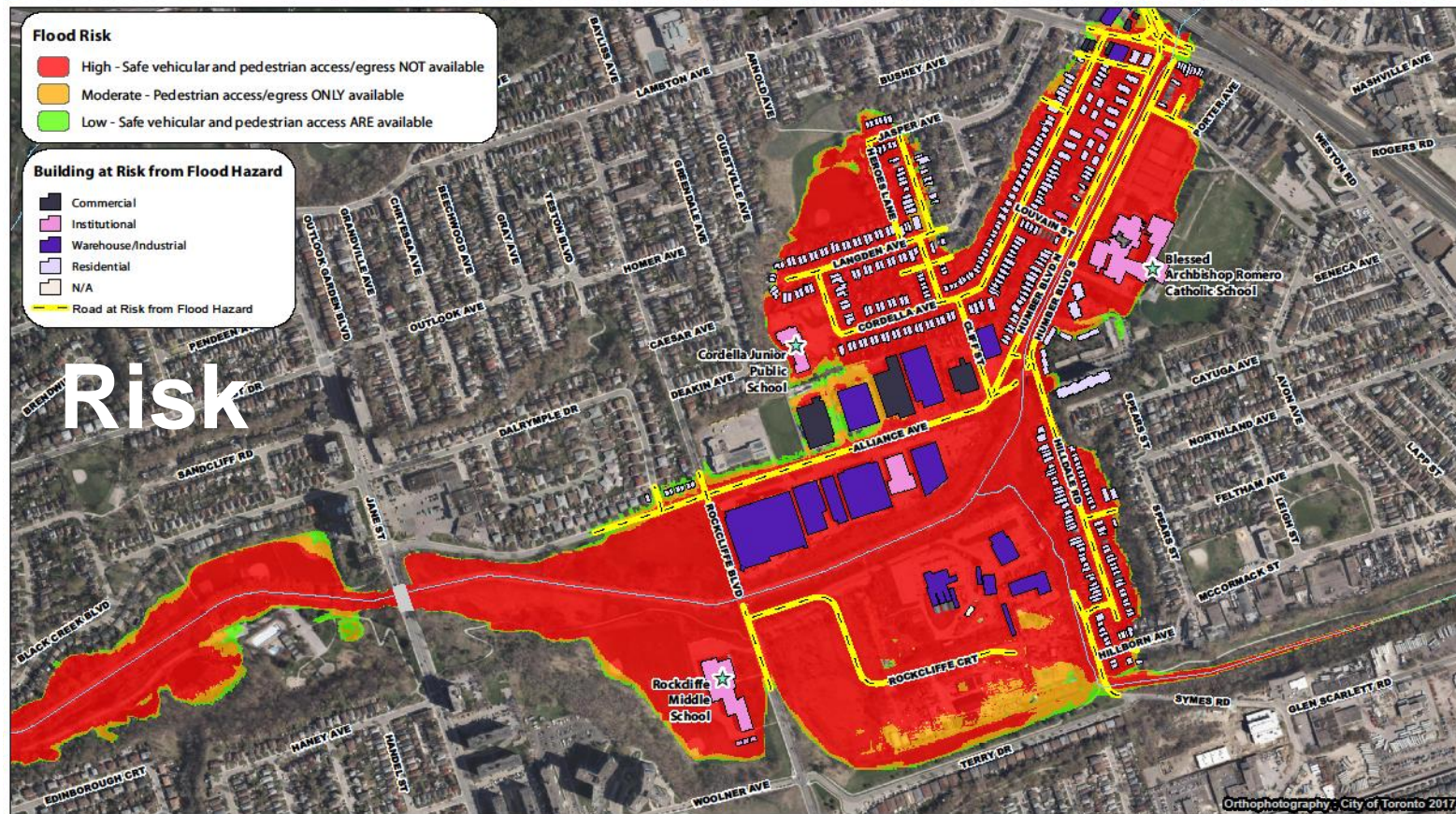




# 2015 LiDAR



# Today



**Rockcliffe Special Policy Area  
Risk Map - 100 Year Flood Event**

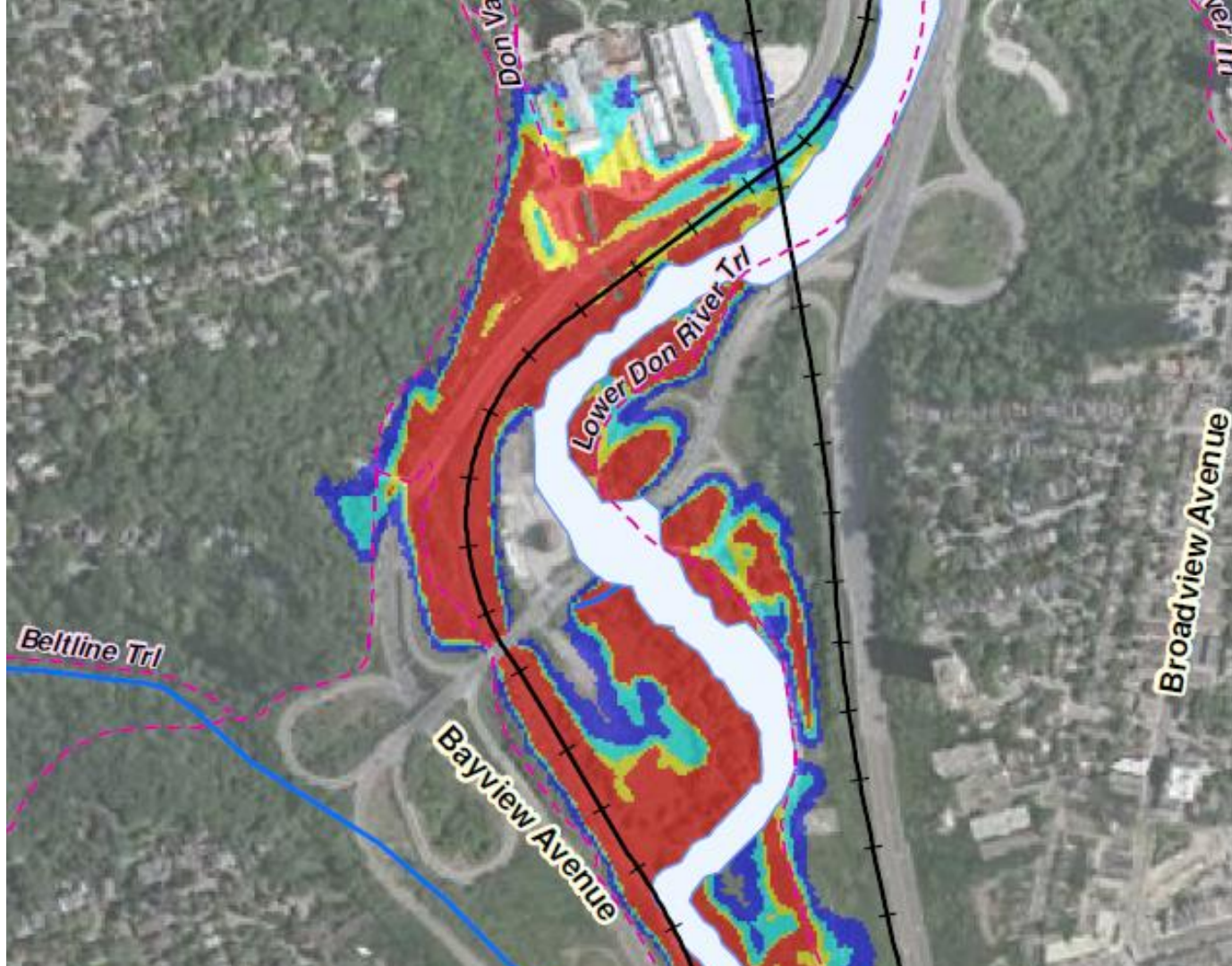




# 1965



# Today





[www.trca.ca](http://www.trca.ca)