

http://www.hiea.org/presentations/HHWSP-Presentation-to-Sep-2012.pdf



A TEAM EFFORT



Water Monitoring in Chemistry Course



Expanded

Summer

Monitoring



Participated in CityLab



Water Monitoring in Environmental Science Course

Combined sewage system Watershed boundary Separated sewage system Niagara Escarpment Combined sewage overflow storage Open stream Sampling location **Buried stream** Hamilton Harbour BARTON S Point KING ST COOTES ABERDEEN AV DSLER DR IMERIDGE RD LINCOLN M. ALEXANDER STONE CHURCH RD Chedoke watershed_ RYMAL RD Adapted from Stormwater Management Overview, City of Hamilton

CHEDOKE WATERSHED

Scenic Falls

Princess Falls

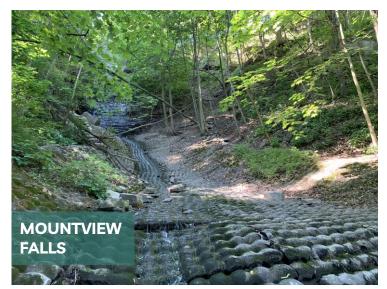
Mountview Falls

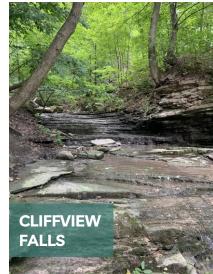
Westcliff Falls

Cliffview Falls

Chedoke Falls

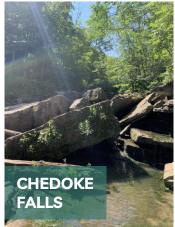
Cootes Paradise







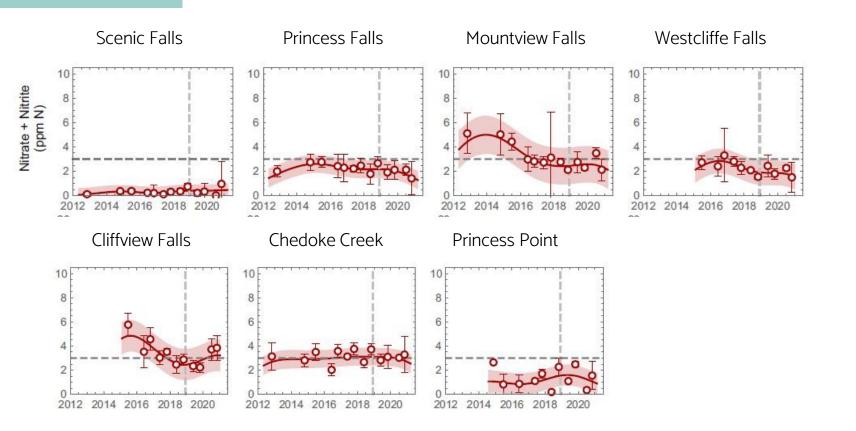






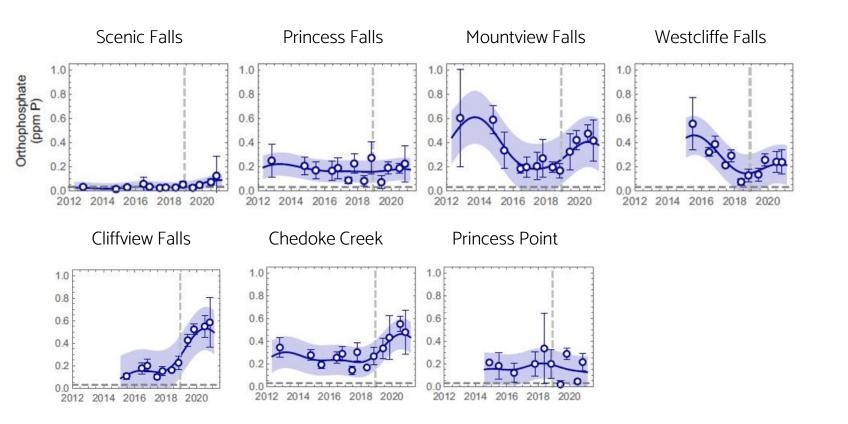


TRENDS NITRATE

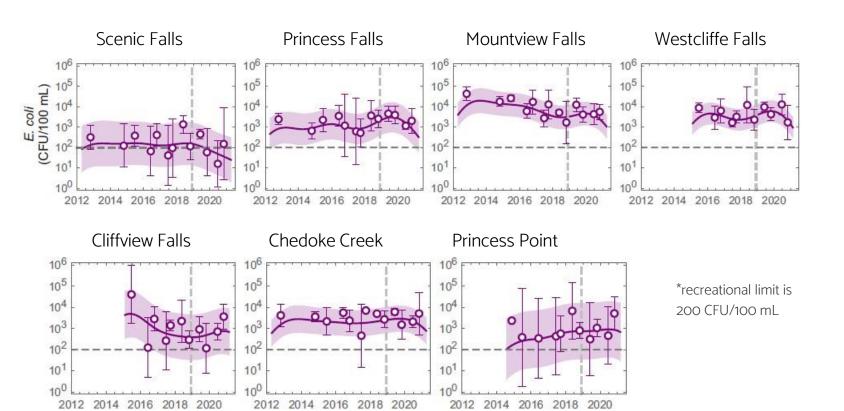


TRENDS

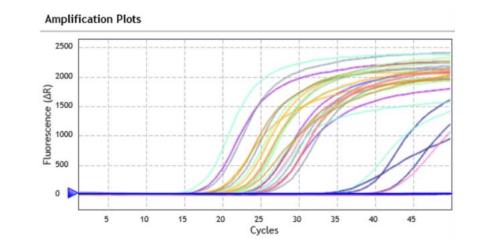
PHOSPHATE



TRENDS E.COLI



MICROBIAL SOURCE TRACKING NOV. 3, 2020



Microbial Source
Tracking allows us to
determine the source of
fecal contamination

Our data suggest that human sewage is widespread

CONCLUSIONS

- More urbanized sites are more contaminated than our site in Iroquois Heights
- Several sites improved prior to 2018 (while city was repairing cross-connections)
- Microbial Source Tracking confirms presence of human sewage
- Phosphate concentrations have increased since 2018 (when phosphate was added to address lead)





ACKNOWLEDGEMENTS





Redeemer University

CENTRE FOR CHRISTIAN SCHOLARSHIP















