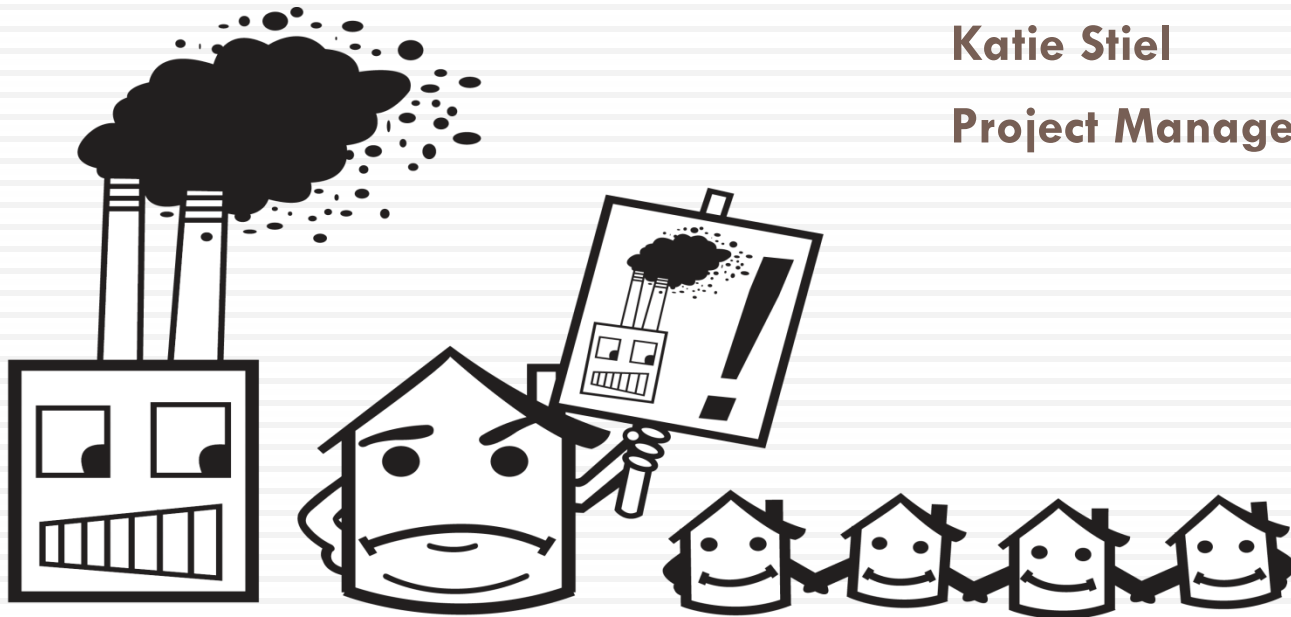


Citizen Science – Local Experiences

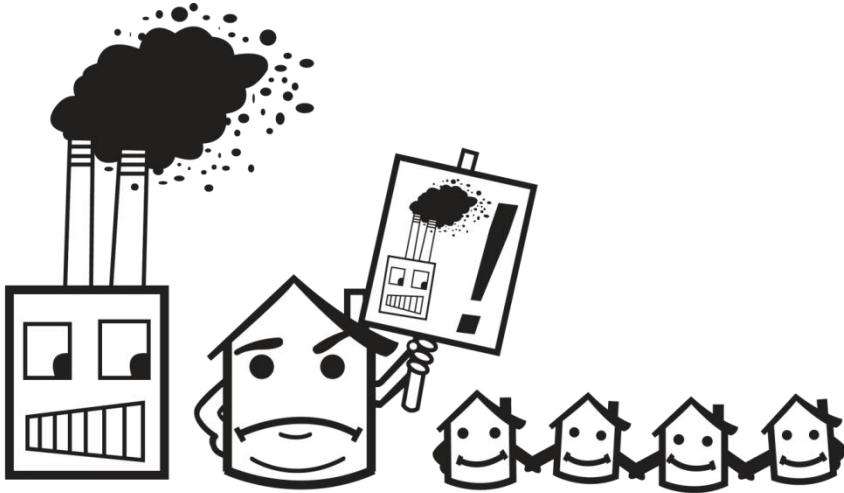
October 23, 2013

Katie Stiel

Project Manager



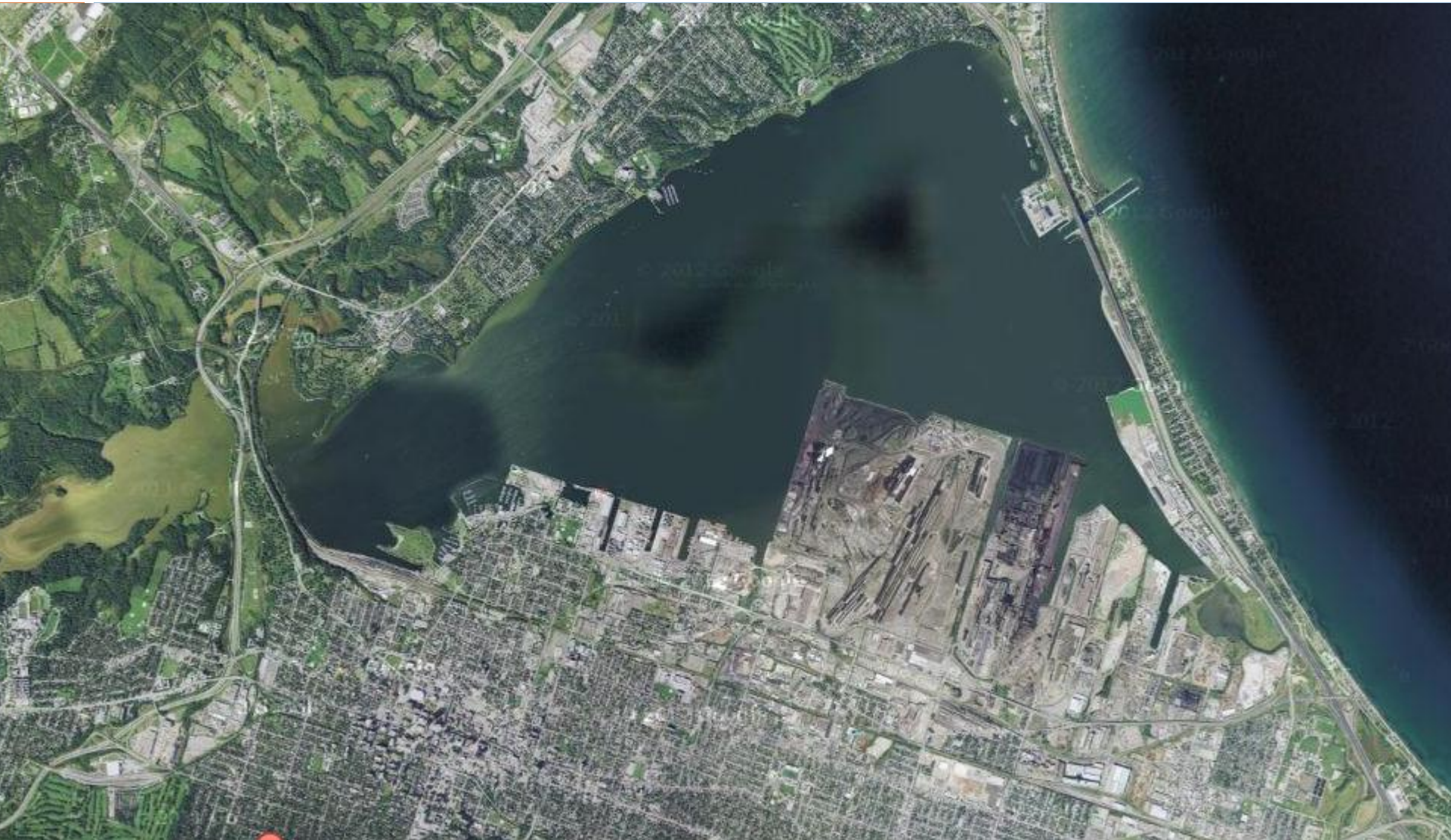
Two Programs to Discuss:



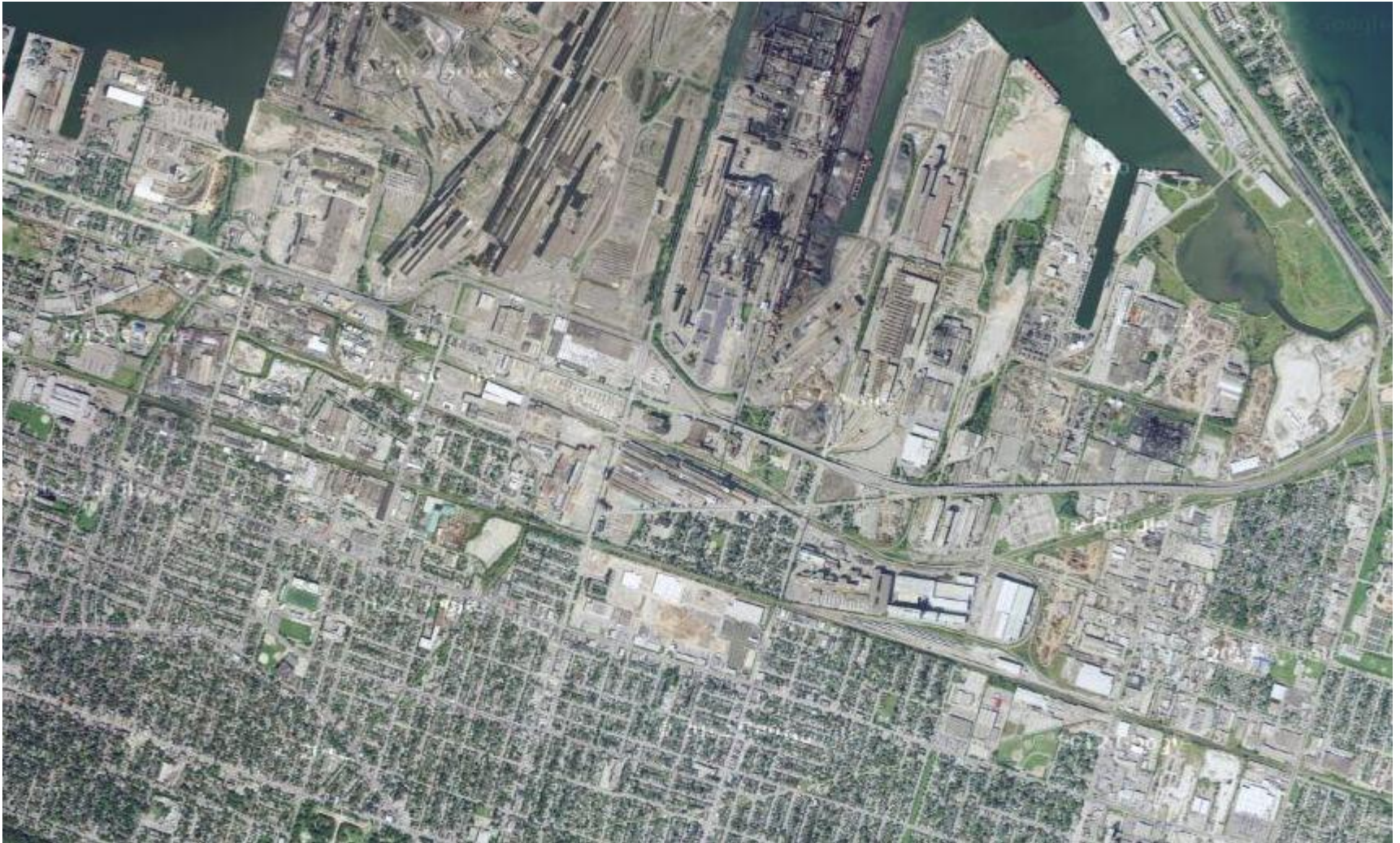
Good Neighbour Campaign



Hamilton, ON



The Industrial Sector



ArcelorMittal-Dofasco



Community Impacts/Reports Included:

- ❑ Burning eyes + sore throats
- ❑ Coughing
- ❑ Impaired breathing
- ❑ Excess particulate
- ❑ Properties being damaged
- ❑ Can't enjoy their homes!

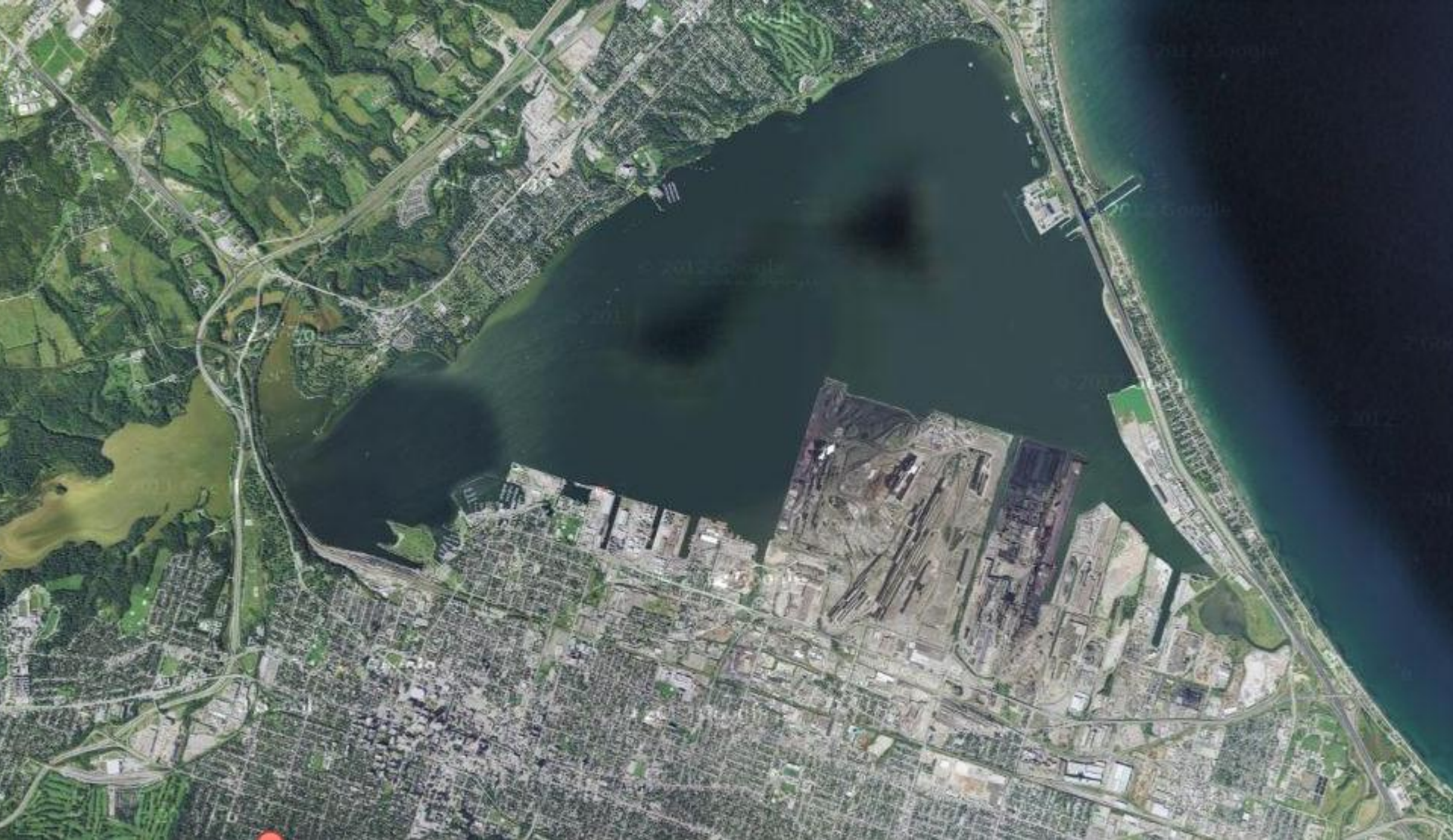
McAnulty Community



From the McAnulty Community



Who Else is Being Impacted?



Hamilton Beach Strip

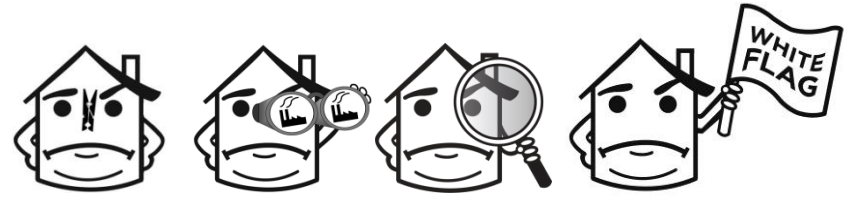


GNC Goals:

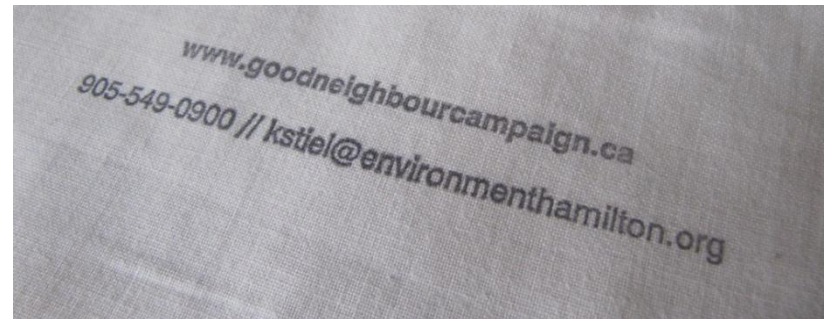


- Obtain more information on how the neighbouring residents of ArcelorMittal-Dofasco are being impacted
- Use citizen science to persuade the company and governing bodies to act

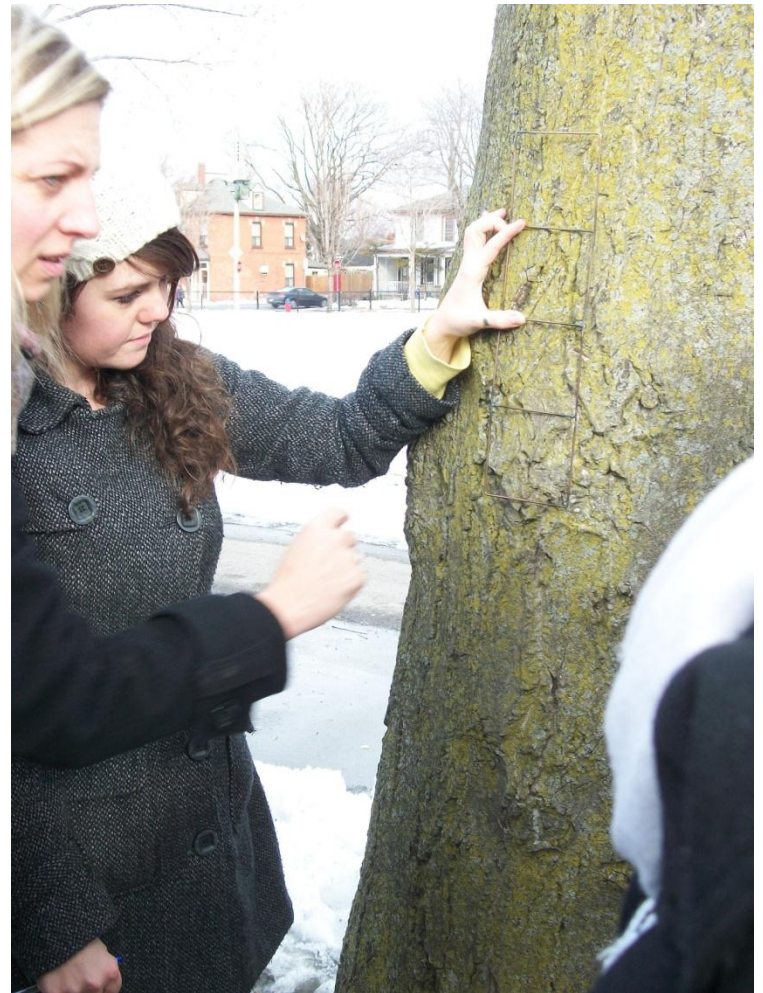
Citizen Monitoring



White Flags



Tree Lichen Monitoring



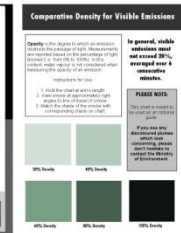
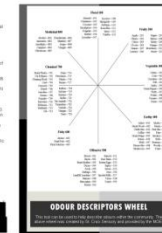
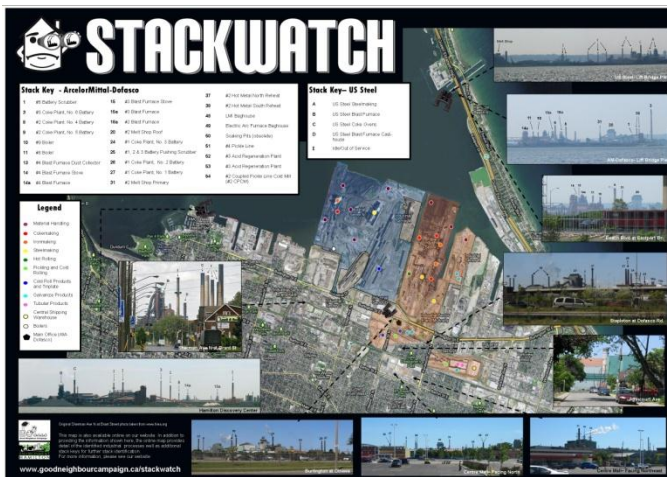
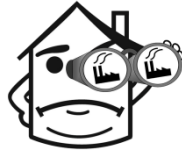
Candelaria Concolor Area Averages Map 2010/2011



* = This area contained mainly older maple trees with harder bark. Here # of lichen hold more value than size. Measurements may have been slightly underestimated for these areas.

NOTE: Please see results newsletter or GNC website for more information and lichen monitoring study details.

Stackwatch



GNC Accomplishments:

- Company and MOE received a great deal of info
- Company now holds open community meetings
 - ▣ Open Q&A with company executives
- Company newsletters now get sent out regularly
 - ▣ Answer community questions raised and include pollution contact information
- New odour suppressant being introduced
 - ▣ Which should reduce the rancid popcorn smell
- ▣ *Bezno(a)pyrene and benzene levels still remain an issue*



Another Program: Pipewatch



Visual Observations Included:

NAME:



Date/Time	Pipe Location/ Identification #	Offensive Odor	Pipe is Flowing	I Can See:	Other:	Reported
June 1/2012 14:00	DCT- 32 (Davis Creek at Marston Rd and the Rec Centre)	Yes	No	Toilet paper		Yes. Called the city and MOE on June 2, 2012. My call was fielded by John.

Pipewatch Accomplishments:



- ❑ Identified 8 problematic outfalls within the Red Hill Creek watershed
- ❑ All 8 outfalls, have a minimum of 3 volunteer pipewatchers (Adopt-A-Pipe)
- ❑ Working relationship established with the City of Hamilton (Water/Public Works)
- ❑ City attention has increased within the watershed

Looking Back:

- **Citizen science empowers communities!**
- Expands the abilities of regulators
- Visual information can paint interesting and worthwhile pictures



Thank you!

Katie Stiel

Project Manager

Environment Hamilton

Tel. 905-549-0900

kstiel@environmenthamilton.org