

Community nuisance odour case study

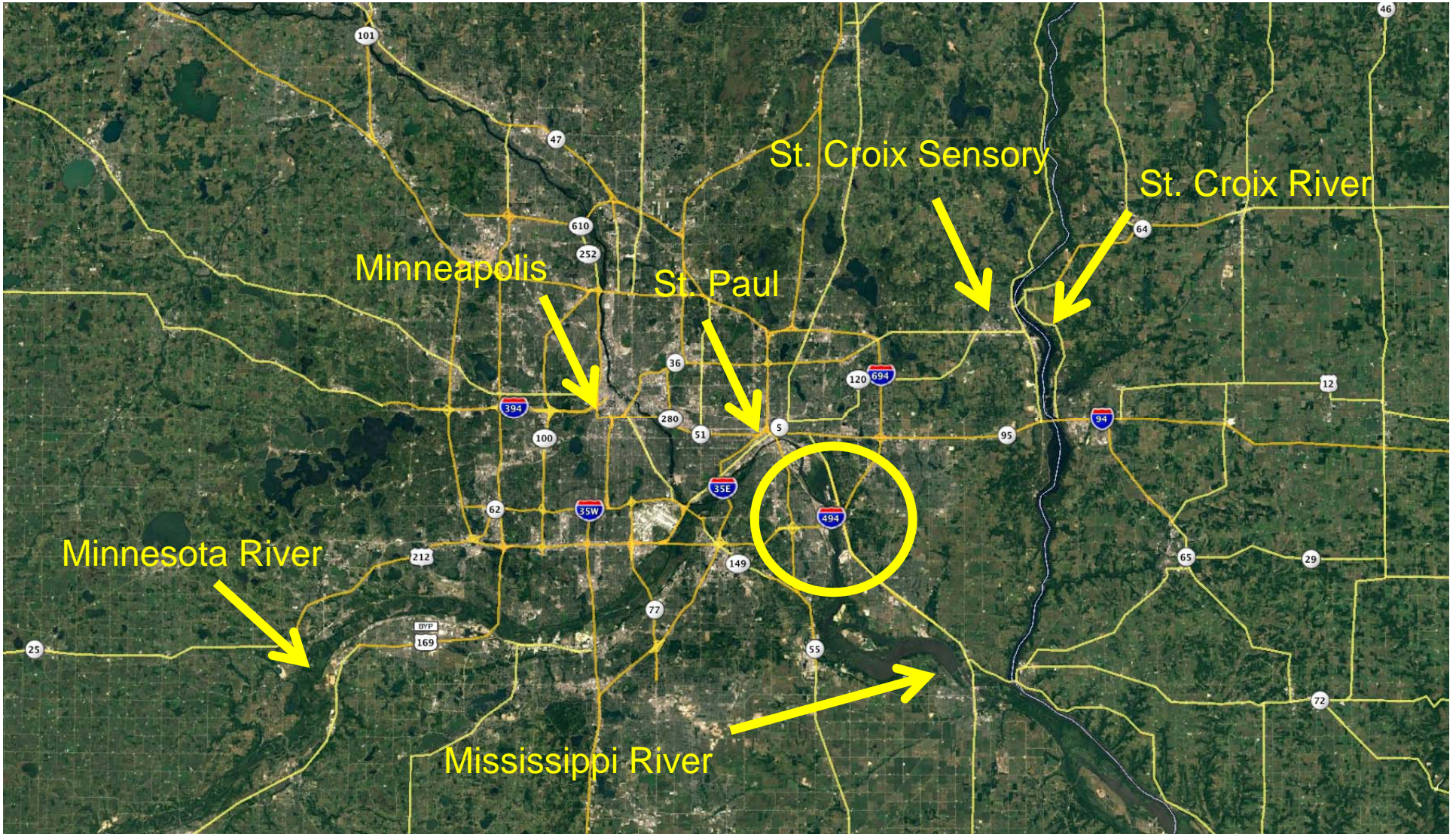
Michael A. McGinley, P.E.

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St. Croix Sensory, Inc.





The Twin Cities

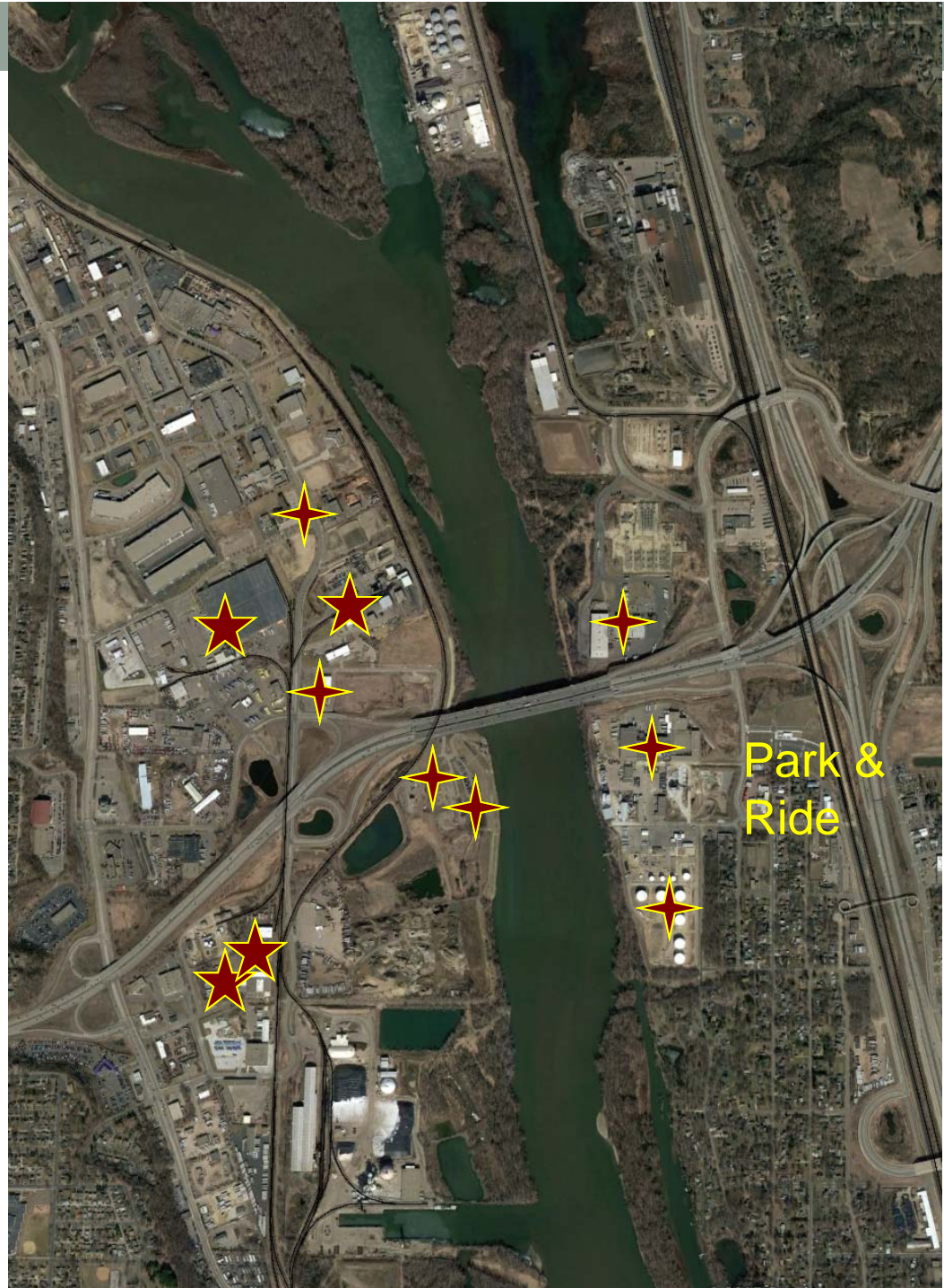


★ Primary Sources

- ★ Rendering Plant
- ★ Hide
- ★ Tanning
- ★ Food Mfg from Animal Proc.

★ Secondary Sources

- ★ Waste / Recycle Center
- ★ Pet Crematorium
- ★ Waste Oil Processing
- ★ Lift Station
- ★ Compost Site





“Stinky Bridge”

Regulation of Facilities



- EPA - Does not regulate odour



- Facilities meeting State permitting

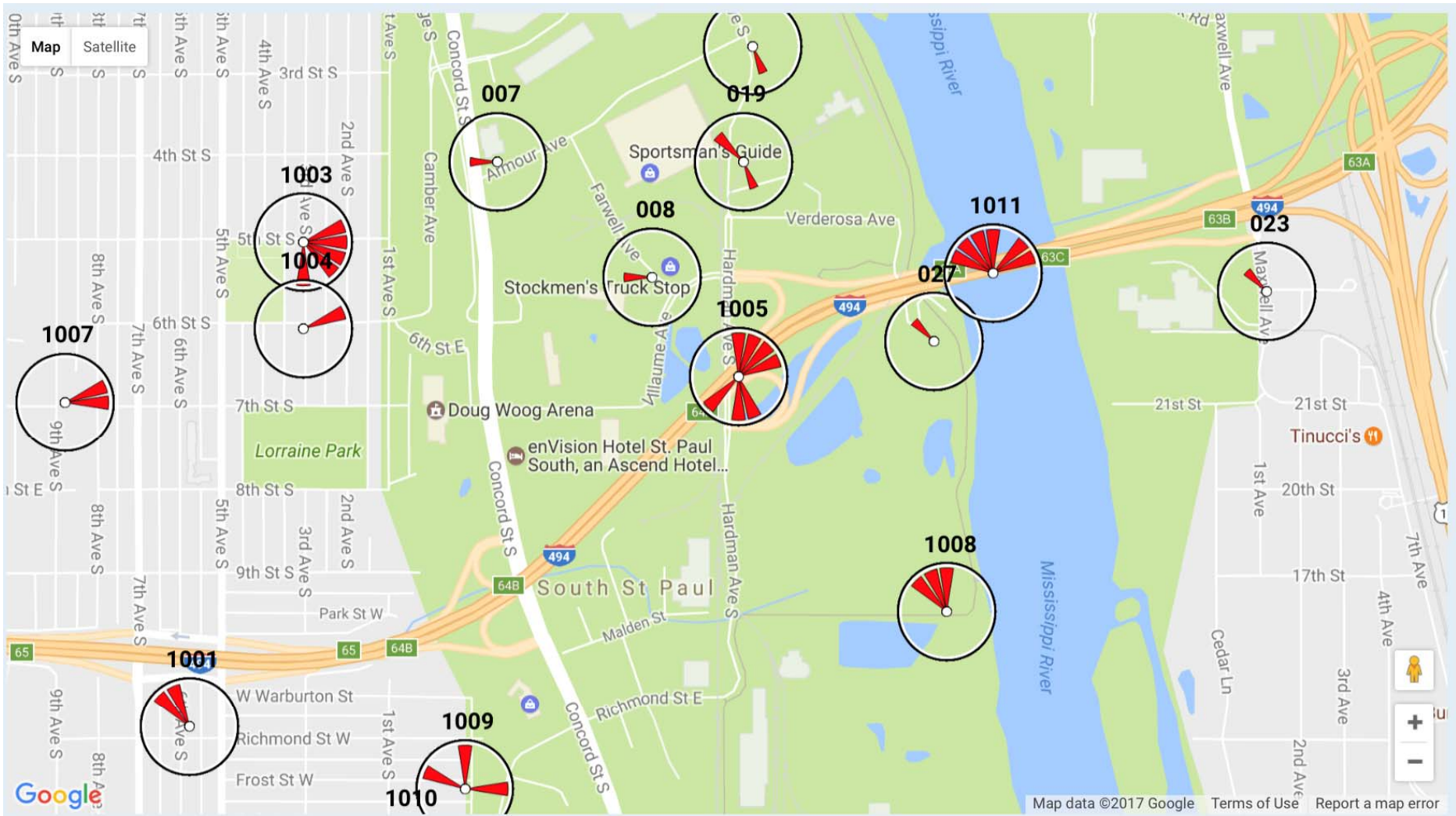


- City needed to address odour

2012 – The “Odor Consortium”

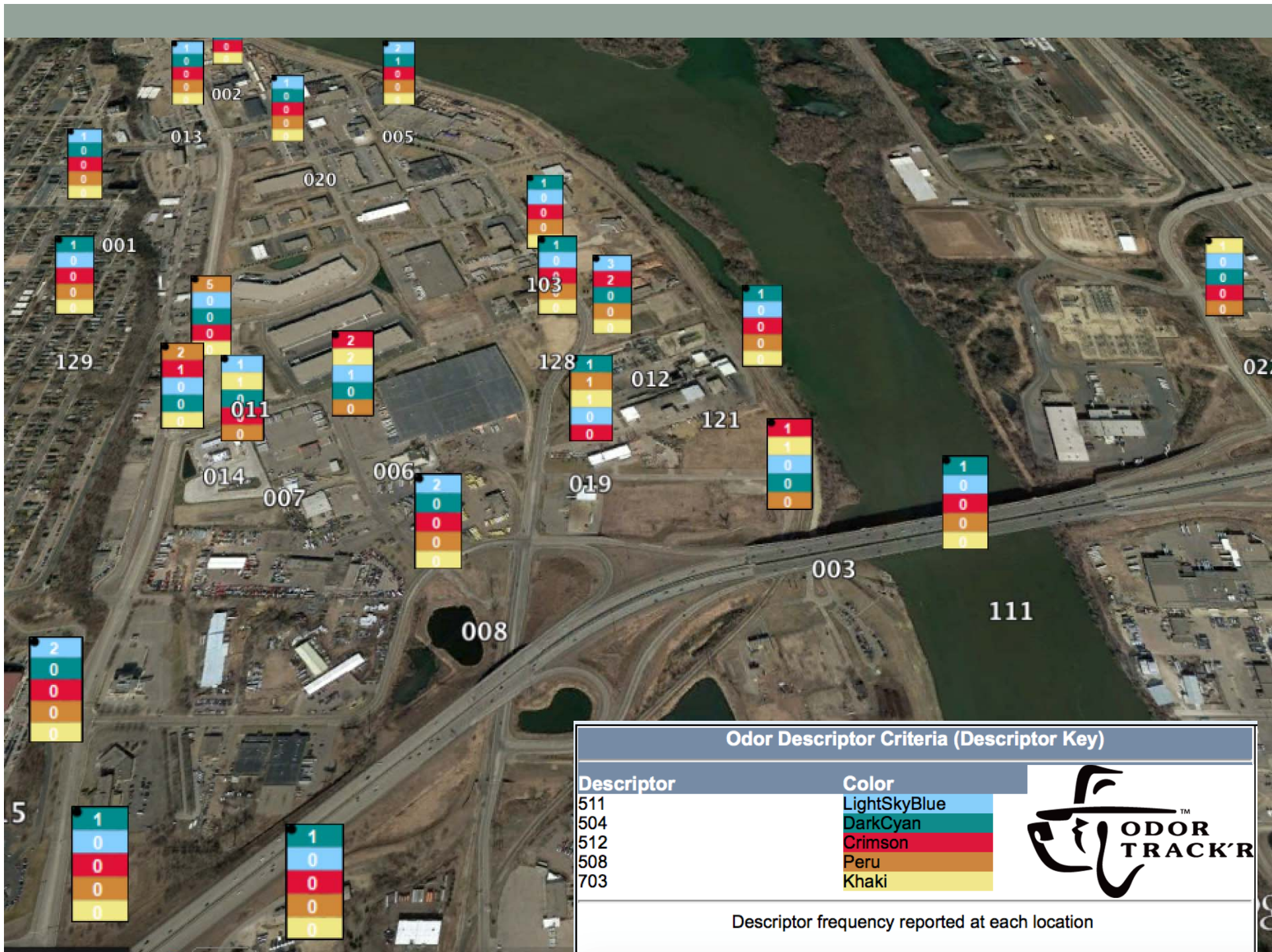
- Voluntary participation
- Main odor generators
- Multiple secondary sources
- Study odors in community – Nasal Ranger
- Consider control options





Odor DT Criteria (Odor-Rose Key)			
Avg. Log	Avg.	Rose Symbol	Description
0.000	=	ND ○	Non Detect
0.001-0.845	<	7 ▲	Weak Odor
0.845-1.477	>=	7 ▲▲	Moderate Odor
1.478-	>=	30 ▲▲▲	Stronger Odor

Date Range: 6/1/2013 thru 8/1/2013
 Any Time of Day
 Assessment Type: Inspection (DT)
 EXCLUDE Non-Detect



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2013 – “Welcome to the ‘Smell Zone’”

- Odors continued
- Development efforts increasing
- Park & Ride concerns
- County Commissioner quoted criticizing

2014 – City Ordinance

- Complaint management system
- >6 complaints in 6 months = “significant odor generator”
- Required to develop Odor Management Plan
- BMPs and BCTs
- Timeline for improvement

2014 – City Ordinance

- Complaint received
- Inspectors responded to verify complaints
- Ordinance did not specify verification methods
- However, the City did have a defined process

2015 – Violations

- Rendering facility issued violations
- “offensive and obnoxious smells”
- “malodorous malefactors”
- 2016 Odor Studies

2017 – Court Case

- Rendering facility sued the city
- no “objective odor verification standards”
- dependent on “vagaries of the human response to smells”
- Ruling: “unconstitutionally vague” –
violates right to due process

2017 – What next...

- City continues monitoring
- City preparing new ordinance
- inclusion of verification methods –
EPA Scentometer Protocol (circa 1973, Copley Studies)
- inclusion of specific 7-D/T rule with Nasal Ranger
- Facilities preparing expansion – including controls

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fivesenses.com



mike@fivesenses.com
@mcginleymike