

Air, Water and Soil Quality

Action Item	Suggested Metrics: How might/do we measure success?	Next steps/ milestones	What resources are needed? Existing? New?
Recommendation #1: Conduct cumulative impact assessment of Southside Green Zone; prioritize overburdened neighborhoods for pollution reduction			
<p><u>Action 1.1:</u> NEW INITIATIVE Identify process for community and/or city to use the impact assessment data and generate recommendations to reduce pollution using this data.</p> <p>1.1.1 NEW INITIATIVE Any MPCA permit (new or up for renewal) shall increase monitoring and incorporate this additional data into permitting process</p>	<p>Health Data Environmental Data (contaminants)</p>	<p>Impact assessments are currently expected within the Green Zones, figuring out how to leverage and use this information to reduce pollution is a timely based on law.</p>	
<p><u>Action 1.2:</u> NEW INITIATIVE Actively engage Neighborhood Associations during comment periods of cumulative impact assessments to identify community driven pollution reduction strategies.</p>	<p>Start engagement at least 6 months before Comment Period opens</p>		
<p><u>Action 1.3:</u> NEW INITIATIVE Consider identifying other contaminants and incorporate social determinants of health into impact assessment data as pollution reduction plans are created.</p> <p>→ Air toxics collected at 6 of the state’s Twin Cities sites</p>			
<p><u>Action item 1.4:</u> NEW INITIATIVE Create a visual to show pollution in this area (e.g. heat map). Using MNRisk (working on inventory)</p> <p>→ 5 major source of point-source air pollution in Southside Green Zone: Smith Foundry, Bituminous Roadways, MetroTransit Light Rail O&M Facility, Wells Fargo Home Mortgage, Abbott-Northwestern Hospital (source: MPCA, 2015)</p>			

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<p>Action 1.5 NEW INITIATIVE Increase cumulative assessment* to full Green Zone (rather than only within mile of arsenic triangle)</p> <p>*Background Law: MN Statute 116.07 subd. 4a: requires analysis and consideration of “cumulative levels and effects of past and current pollution” before an air permit may be issued in Phillips. Smith Foundry and Bituminous Roadways (asphalt plan) are updating their operating permit under this law now.</p>			
<p>Recommendation #2: Transition higher polluting small businesses towards lesser pollution options</p>			
<p>Action item 2.1: NEW INITIATIVE Partner with neighborhood groups/associations or community organizations to reach local businesses and encourage voluntary involvement in MN-TAP.</p> <p>Background: The Minnesota Technical Assistance Program (MnTAP) is an outreach program at the University of Minnesota that helps Minnesota businesses develop and implement solutions that prevent pollution, maximize efficient use of resources, and reduce energy use and costs to improve public health and the environment. In Summer 2017, a MnTAP intern in Phillips engaged local autobody shops in degreaser education] More info: www.mntap.umn.edu/</p>	<p>Number of businesses that clean up their operations through regulatory or voluntary measures in partnership with existing programs.</p>		<p>Existing Technical Assistance: University of Minnesota, Minnesota Technical Assistance Program (MN-TAP)</p> <p>Important to leverage language abilities through city staff members to reach out to businesses</p>
<p>Action 2.2: NEW INITIATIVE Mobilize neighborhood groups/associations to generate authentic stories around as a means of compelling businesses to voluntarily participate in pollution reduction strategies, e.g. Bituminous and Smith Foundry.</p>			

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<p>Action item 2.3: ACTIVE INITIATIVE Increase the Green Business cost share from 30% by getting more organizations involved who can contribute financial capital and further incentivize the program.</p> <p>Background: The Green Business Cost Sharing Program invests in businesses that reduce pollution in Minneapolis through energy efficiency, solar energy, vehicle repair, service and maintenance, and innovative strategy program areas. Cost share is 20% citywide, Green Zone cost share is 30%. Finding additional resources could be identified from public or private (philanthropy) sources. More info: www.minneapolismn.gov/environment/green/</p>	<p>Consider auto body shops as priority based on city initiatives.</p> <p>High priority, high probability for impact</p>		
<p>Action 2.4: ACTIVE INITIATIVE Create, sustain or increase incentives for city/county/state to engage small businesses in pollution reduction activities. NOTE: Actions 2.3 and 2.4 are very similar. Review to ensure they are not duplicate.</p>			<p>Existing MPCA's Business Support program.</p>
<p>Recommendation #3: Andersen School and surrounding area is priority for further investigation and green investment</p>			
<p>Action Item 3.1: ACTIVE Air monitor on school (in progress)</p>	<p>Completing tests around lead, air quality and developing clean-up initiatives and, or, increased monitoring systems based off of those results.</p>	<p>Connect with parents, students and teachers at Andersen school to gage interest.</p>	<p>Resources to measure nanoparticles at Andersen.</p> <p>Resources for additional monitors in the community. Map zip codes in Green Zones -</p>

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			advocate for 2 sensors per zip code in Green Zones. Grant for research program for biomonitoring
<p><u>Action Item 3.2:</u> ACTIVE Air monitor badges on bicyclists → Potentially add action item – On students and citizen science STEM – Having people wear badges to detect pollution</p>			
<p><u>Action Item 3.3:</u> NEW Soil testing around building</p>			
<p><u>Action Item 3.4:</u> NEW Test for lead in drinking water</p>			MPS tests for lead after flushing water in the morning. State law (2017) says that lead pipe replacement has to be in Capital Improvement Plans, but the funding doesn't exist.
<p><u>Action Item 3.5:</u> NEW Test for pests/impact on indoor air quality</p>			Not sure City's jurisdiction with MPS building. Maybe FIS could provide inspection? Or Health Department?
<p><u>Action Item 3.6:</u> NEW Invest in clean-up of any outdoor or indoor air quality concerns, and water and soil concerns</p>			

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Recommendation # 4: Monitor and reduce motor vehicle traffic and pollution to and from industrial sites and along major road			
<p><u>Action item 4.1:</u> PLANNED INITIATIVE Engage planning and zoning departments to develop more bicycling infrastructure in order to combat pollution.</p> <p><u>4.1.2:</u> NEW Investment towards developing another greenway in the Green Zone</p>	<p>Number of actions taken to mitigate transportation emissions (and estimated emission reductions)</p>	<p>Minneapolis is aggressively adding bike lanes and protected bikeways. See Bicycle Master Plan Figure 9 shows long-term bicycle network including infrastructure on Bloomington between Lake and Franklin.</p>	<p>20-Year Streets funding formula Compete Streets policy 2019 – Update to Access plans</p>
<p><u>Action item 4.3:</u> NEW/PLANNED Identify priority diesel and gasoline fleets for conversion and use data to influence city fleets, city vendors, and/or community businesses (e.g., garbage trucks, dump trucks or school busses) to use electric vehicles where possible.</p> <p><u>4.3.1.</u> PLANNED Use the VW settlement money to replace diesel fleets.</p> <p><u>4.3.2.</u> NEW Encourage city vendors to take advantage this opportunity through public outreach (there is a 25% cost share).</p> <p><u>4.3.3</u> NEW Encourage Metro Transit to pilot electric fleets on bus routes through Green Zones.</p> <p><u>4.3.4.</u> NEW Encourage Metro Transit to maintain electric fleets on bus routes through Green Zones.</p>		<p>Target City Fleet replacement and conversion (EVs) to facilities located in the Green Zone. Help MPCA market funding when available.</p>	<p>Utilize Volkswagen Settlement (\$47 Million over 10 years), which will be managed by MPCA.</p> <p>City of Minneapolis Public Works currently is piloting three electric vehicles. The City Council is interested in expanding if study results show promise. We’d like to see the data from study if possible.</p>
<p><u>Action Item 4.5:</u> NEW/PLANNED Increase bus routes to serve residents in green zones, especially those with limited mobility (Bus Rapid Transit planned on Chicago Ave)</p>		<p>Support Metro Transit’s proposed “D” line (Chicago) and other transit improvements. Advocate for</p>	

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		more state funding for transit. (IGR's Legislative Agenda)	
<p><u>Action Item 4.6:</u> NEW Increase enforcement of idling ordinance or make more stringent in green zone</p>			<p>Identify resources for enforcing existing idling ordinance. Work with community to identify need to make more stringent</p>
<p><u>Action Item 4.7:</u> NEW Incentives for use of electric cars in Green Zone to reduce asthma trigger [From Health and Energy in Housing] <u>4.7.1:</u> NEW Incentives for residents to purchase/ lease EV's <u>4.7.2:</u> NEW Pilot EV rental program of some kind. Affordability is one of the issues with electric vehicles would require form of accountability for refueling etc. (similar model to bike rental in twin cities)</p>	<p>How to make affordable for low income? Adding EV infrastructure may disproportionately benefit those already well-off (not many low income buying plugins)</p>		<p>Abbott/Allina – are interested in support around bus/ transportation +/- or reduction in air pollution with parking ramps/ vehicles</p> <p>Hour Car – EV fleet with Xcel Energy want to focus in low income neighborhoods</p>
<p><u>Action Item 4.8:</u> NEW INITIATIVE Establish a traffic reduction zone/goal in the City of Minneapolis <u>4.8.1:</u> NEW INITIATIVE Develop neighborhood areas that are limited to traffic during certain periods of the day/night etc. (other countries limit vehicles during certain times).</p>		<p>City does not have a “traffic reduction” goal - work with Transportation Planning on feasibility of adopting a goal and piloting projects in the Green Zones. Work with community to develop goal</p>	

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		and pilots to ensure that unintended consequences are addressed	
<p><u>Action Item 4.9</u>: NEW INITIATIVE Focus on mitigating traffic <i>congestion</i> as primary goal before reducing overall traffic- issue is vehicles sitting for long periods.</p>		<p>City uses signal optimization to reduce stopping. Congestion is reduced by increasing share of transit, pedestrians and bicyclists. City has mode share goal of 15% bicycle commuters.</p>	
<p>Recommendation #5: Target air monitoring, research and pollution reduction funding to Southside Green Zone</p>			
<p><u>Action Item 5.1</u>: NEW INITIATIVE Request/ Demand/ identify resources to increase the number of air monitors and improve the air monitoring tools within the GZ</p> <p><u>5.1.1</u> Advocate for 2 monitors in each Green Zone Zip Codes (55404, 55407, 55408) from MPCA LCCMR project</p> <p><u>5.1.2</u> Monitor for ultra-fine PM, less than 2.5 mg/cu m</p> <p> 5.1.2.1 Research best practices for fine PM monitors</p> <p> 5.1.2.2 Review MPCA ultra-fine PM data in partnership with MDH air toxicologist</p> <p><u>5.1.3</u> Monitor traffic sources (traffic going to and from industrial/large commercial sites)</p>	<p>We need to use the data we are collecting. CEED can help lead study. (Kansas State University Research soil contamination and growing.</p>		<p>Funding – These tools are expensive. Measure other than exposures.</p> <p>MPCA – air pollution reduction grant program e.g. VOC</p>

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Action Item 5.2: NEW/ACTIVE INITIATIVE Explore the use of a loan program for citizens (people) in Green Zone to use mobile air monitoring tools			
Action Item 5.3: NEW Develop a loan program for radon detection, including resources to translate materials			Resources to start loan program or subsidize State’s Radon Testing kits (existing program)
Action Item 5.4: NEW Tech training program (internship) for students/ low income community members to test air monitoring (for IPOC residents)			
Action Item 5.5: NEW Partner with Abbott Northwestern to explore partnerships on indoor air monitoring strategies.			
Action Item 5.6: NEW MPCA identify known contaminated sources within Green Zone – push these sites up on the list of prioritization		City make formal request to MPCA for list of known contaminants; publish information	
Action Item 5.7: NEW/ACTIVE INITIATIVE Improve communication of contamination to residents (consider language barriers, tenancy – who receives letters?, etc.)			
Recommendation #6: Major road infrastructure projects should assess and decrease impacts on local air quality and health			

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<p><u>Action Item 6.1</u>: NEW INITIATIVE Find another product that is more pervious and less toxic than asphalt.</p>	<p>Pilot done in Hutchinson may have metrics (Soy based sealant)</p>	<p>Legislation for soy-based sealant for asphalt – pilot project for Green Zone (Karen Clark)</p>	<p>City has tried pilot projects with pervious pavement, all failed to last longer than 3 years. Open to testing new materials/ technologies. (Soy based sealant supposed to last 12 years)</p>
<p><u>Action Item 6.2</u>: ACTIVE INITIATIVE Design transportation infrastructure for people, not cars. Create greenways, not roads. Use Untokening 1.0 - Principles of Mobility Justice resource. Complete streets design (pedestrian, bicycle, transit rider, vehicles)</p>	<p>New transit infrastructure is a hallmark of gentrification we need to develop transit in a way that doesn't drive up property values and rents</p>		<p>City already adopted Complete Streets policy. 2020 Streets and Parks funding.</p>
<p><u>Action Item 6.3</u>: ACTIVE/PLANNED INITIATIVE Partner with MnDOT and Hennepin County to design transportation infrastructure using green streets, living streets and City's forthcoming stormwater management requirements.</p>			
<p><u>Action Item 6.4</u>: NEW Adopt or encourage the State to adopt California's vehicle emission standards.</p>			
<p><u>Action Item 6.5</u>: NEW Give Lake Street a "road diet" – convert four lanes to three lanes with a center turn-lane.</p>		<p>Study past design; why wasn't turn lane incorporated? Evaluate opportunity and prioritize for next redesign</p>	<p>Lake Street reconstructed within last few years; unlikely to happen again soon</p>
<p><u>Action Item 6.6</u>: NEW Create a safe bicycle connection between Mercado Central and the Midtown Greenway.</p>			

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<p>Action Item 6.7: PLANNED Engage residents who live on high traffic corridors before reconstruction and/or major tree planting projects. Support organizations that are already doing this. Ensure City is walking its talk on engagement. (create engagement process/accountability)</p>			
<p>Action Item 6.8: NEW/PLANNED Prioritize streets projects from Public Works capital improvement plan (CIP) in the Green Zones (PW using new equity formula).</p>	<p>Be aware of impact of infrastructure investments on residents and how we support low income residents and prevent displacement.</p>		<p>Coordinate City, County and State transportation projects with GZ</p>
<p>Action Item 6.9: NEW/PLANNED Adopt electric vehicle (EV) infrastructure/charging stations.</p>		<p>Mpls repaving a lot of local streets in GZ within next few years</p>	
<p>Recommendation #7: Focus on community-identified contaminated sites for investigation and clean-up</p>			
<p>Action Item 7.1: NEW INITIATIVE Add overturning grandfathering clause of zoning law to City's state legislative agenda.</p>			
<p>Action Item 7.2/ Action Item 7.3 [Merged]: NEW INITIATIVE Identify steps, develop a strategic plan, and advocate for tools & resources to work with Smith Foundry and Bituminous Roadways to move from the Southside Green Zone to an area that does not harm other communities. Use an environmental justice lens/approach to this effort, and in the interim, enforce high air quality standards within the Southside Green Zone.</p>	<p>Considerations Smith Foundry hires felons (\$19/hr)</p>		

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Action Item 7.4: NEW/ACTIVE Establish process for community members to identify and report contaminated sites to City.	Number of contaminated sites that are cleaned up to below a health risk level		
Action Item 7.5: ACTIVE INITIATIVE Establish responsibility at City for following up on reports from community members.			
Action Item 7.6: ACTIVE INITIATIVE Ensure that workers displaced by closing or moving factories have access to Dislocated Workers resources	How many workers are based in GZ? Does moving the plant create another barrier for those workers?		Could Community Engagement team ask about this issue during engagement sessions?
Recommendation #9: Ensure redevelopment is purposeful and appropriate, creating living wage jobs for residents			
Action Item 9.1: NEW INITIATIVE City commit 3 acres of Roof Depot site to ensure state funding (\$3M request) to match city of Minneapolis commitment (for community based sustainable entrepreneurs and housing) 9.1.1 Reduce size/impact of Minneapolis water works in East Phillips - Move office worker functions and elections storage to downtown consolidated City office building to allow for footprint to be smaller and more land available for community			
Action Item 9.2: NEW/ACTIVE INITIATIVE Community benefit agreements with developers and existing commercial/industrial/institutional properties; explore barriers to CBAs with City of Minneapolis			Seward Friendship Store (explored option)

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<u>Action Item 9.3: NEW/ACTIVE INITIATIVE</u> Encourage/ Require meetings between the community/businesses (developers and area businesses) to build relationships			Smith Foundry (has partnership with East Phillips community)
<u>Action Item 9.4: ACTIVE INITIATIVE</u> Assess and promote economic development resources/ grant making for businesses within the Green Zone.	Prioritize existing residents and businesses.		Minneapolis Business Technical Assistance Program (B-TAP)
<u>Action Item 9.5: NEW INITIATIVE</u> City-owned property within GZ should be developed with community-input (community criteria for selling property or redeveloping) // <u>Action Item 9.7:</u> Develop criteria for the sale and/or redevelopment of City-owned land (RPF process)			
<u>Action Item 9.6: NEW INITIATIVE</u> Redevelopment is necessary for high polluter industries (Bituminous and Smith)			
Recommendation #10: Water quality			
<u>Action Item 10.1: NEW INITIATIVE</u> Listen to residents and students who report odd smells or tastes of drinking water, test drinking water source, and fix problem.			Maybe Hennepin County or the state for funding?
<u>Action Item 10.2: NEW INITIATIVE</u> Provide resources to residents with poor drinking water quality (for example, grants for replacing lead pipes in older homes).	How can renters take advantage? How can we help renters vs. just		

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	increasing value of home for landlords?		
<p><u>Action Item 10.3:</u> NEW INITIATIVE Require landlords to test water for contamination, publish the information to the City and tenants in multiple languages, and fix water quality problems. (Include process for flushing water through pipes when housing has sat vacant for some time)</p>			
<p><u>Action Item 10.4:</u> NEW INITIATIVE Require landlords to test windows and painted surfaces for lead. City should promote lead remediation program resources in multiple languages.</p>			
<p><u>Action Item 10.5:</u> NEW INITIATIVE Pay residents and businesses to convert pavement to vegetation (grass, gardens, etc.).</p>			Watershed Management Organizations (MWMO)