

Attachment 3 - Clean Air Minnesota (CAM) Emissions Reduction Team Projects and Results  
 July 1, 2017 - June 30, 2018

Mobile Source Team - 3 projects

Project	CAM Partner	Description	Equity Considerations	Status	Implementation		Outcomes	Emissions Reductions (tons)			
					Schedule	Implementation		PM 2.5	VOC	NOX	Other
Project Green Fleet Initiative	Environmental	Incentivizes early heavy-duty diesel engine retirement and/or upgrade/retrofit with emission reduction equipment.	Prioritized outreach and engagement in Met Council's Areas of Concentrated Poverty where greater than 50% of residents are people of color (ACPS50).	Ongoing	Continued recruitment and execution of emission reduction projects in 2018/2019.	*4 engine replacements *1 off-road replacement *1 on-road replacement	0.926	0.324	18.248	CO: 2.083	
Diesel Emissions Reduction Act (DERA) grants	Minnesota Pollution Control Agency	U.S. EPA allocates funds to states for the establishment of grant, rebate and loan programs promoting clean diesel. In Minnesota, the Pollution Control Agency has targeted grants on replacing large, older diesel engines.	Scoring criteria includes Environmental Justice and Health impacts based on primary two zip codes of engine operation.	Ongoing	Additional projects to be completed through Sept 2019.	*2 truck replacements *2 forklift replacements	1.138	0.358	2.621		
Biodiesel <sup>1</sup>	American Lung Association, MN Soybean Growers	Biodiesel is blended at various ratios into most #2 diesel sold in Minnesota.	Reduces tailpipe emissions on older diesel vehicles, thus reducing exposure to pollutants near roadways.	Ongoing	B5 (5% blends cold weather months), B10 for half this time period, B20 one month.	*Greater use of biodiesel blends	150	(437.94 since 2008)	(385.53 since 2008)	HC: 201 CO: 1667 SO2: 100	

Mobile Source Project Team Subtotals, July 1, 2017 - June 30, 2018: 152,064

							0.682	20.869	HC: 201 CO: 1669,083 SO2: 100	
							482,492	547,654	HC: 201 CO: 1676,157 SO2: 100	
							480,957			

<sup>1</sup>Because the biodiesel mandate is on the scale of the statewide implementation of a policy, emission reduction numbers are on a scale larger than targeted emission reduction projects.

Wood Smoke Team - 1 project

Project	CAM Partner	Description	Equity Considerations	Status	Implementation Schedule	Outcomes	Emissions Reductions (tons)			
							PM 2.5	VOC	NOx	Other
Project Stove Swap Initiative, Minnesota Power	Environmental	Program designed to remove old, uncertified wood burning devices and replace them with newer, more efficient, and EPA-certified equipment. This Program operates in Aitkin, Beltrami, Carlton, Cass, Cook, Crow Wing, Hubbard, Itasca, Koochiching, Lake, Morrison, Ottertail, Pine, St. Louis, Stearns, Todd, and Wadena Counties.	Outreach and partnership with Northern MN tribal communities. Participants also eligible for income-subsidized funding. 12 income qualified projects completed in this time period.	Ongoing	Project will continue to be implemented through April of 2019.	*209 appliances upgraded	34,616	20,621	1,285	CO: 200,979
						(48,966 since 2008)	(26,871 since 2008)	(1,585 since 2008)	(278,799 since 2008)	

Wood Smoke Communications Projects - 3 projects

Wood Smoke Project Team Subtotals, July 1, 2017 - June 30, 2018: 34,616 PM 2.5, 20,621 VOC, 1,285 NOx, CO: 200,979  
 Since 2008: 48,966 PM 2.5, 26,871 VOC, 1,585 NOx, CO: 278,799

Project	CAM Partner	Description	Equity Considerations	Status	Implementation Schedule	Outcomes
Wood Smoke Awareness	Ramsey County Public Health	Outreach to Ramsey County residents on adverse health and air quality issues associated with burning improper materials in backyard firepits such as wet wood, plastic, garbage and yard waste.	Yard waste mailers with this messaging were sent to all single family households in Ramsey County + sent via e-newsletter and Twitter.	Ongoing	Will continue to add messaging to additional outreach materials as opportunities arise.	*139,559 In-person impressions (direct mail piece to single family households) *1,229 online impressions (opened e-newsletter where message was posted) *1,294 social media impressions on Twitter
Project Stove Swap Initiative	Environmental	Promotion and engagement on project Stove Swap resources and successes.	Promoted through partner networks including Tribal communications.	Ongoing	Project and communications will continue through 2019.	*One-year anniversary press release *5 article publications *1 television feature
State Fair Bookmarks	Minnesota Department of Health	Information distribution for emission reductions distributed at the EcoExperience at the Minnesota State Fair in coordination with MN Pollution Control Agency.		Ongoing	Bookmarks will continue for various events.	*6,900 bookmarks distributed at the 2017 Minnesota State Fair

Neighborhood/Area Source Team - 5 projects

Emissions Reductions (tons)

Project	CAM Partner	Description	Equity Considerations	Status	Implementation		Outcomes	PM 2.5	VOC	NOx	Other
					Schedule	Implementation					
MPCA Environmental Assistance Grant - North Minneapolis	Minnesota Technical Assistance Program	Community focused project in North Minneapolis to introduce safer chemicals and reduce air emissions.	Project is targeted to the North Minneapolis, a diverse and low-wealth area.	Ongoing	8 facilities remain in the safer chemical testing stage-continue followup and assistance.		*16 companies contacted *Recommended 10 safer chemicals to 9 facilities; 1 has implemented so far	0.0395	(.0395 since 2008)		HAPs: .044 (.044 since 2008)
EPA Source Reduction Grant - Phillips Community	Minnesota Technical Assistance Program	Community focused project in which four interns will work with commercial and industrial businesses in the Phillips Communities of Minneapolis to reduce air emissions. MnTAP staff will provide assessments for additional businesses.	Project is targeted to the Phillips Community, a diverse and low-wealth area in south Minneapolis. Phillips is within the City of Minneapolis' Southside Green Zone.	Ongoing	Follow up on past intern and assessment sites. One more multi-site intern project planned for summer 2019.		*23 companies implemented changes *43 products were switched to safer alternatives	0.2775	(.2775 since 2008)		HAPs: .5075 (.5075 since 2008)
MPCA Annual Grant	Minnesota Technical Assistance Program	Assist MN manufacturers with pollution prevention as requests for assistance come in.		Ongoing	Further assistance when requested.			0.035	(.035 since 2008)		HAPs: .04 (.04 since 2008)
Small Business VOC Reduction Grants	Minnesota Pollution Control Agency	A grant program to help purchase VOC-reducing equipment. Primary focus on retrofitting auto body paint booths to waterborne systems and industrial equipment change-outs.	Prioritized outreach and engagement in Met Council's Areas of Concentrated Poverty where greater than 50% of residents are people of color (ACPS50).	Ongoing	Continuing in 2018-19 by implementing awards from a recent grant round.		*5 businesses participating	13.45	(31.04 since 2008)		
Parts Washer Pilot Project	Minnesota Pollution Control Agency	25% discount on small businesses switching to aqueous parts washers.	Prioritized outreach and engagement in Met Council's Areas of Concentrated Poverty where greater than 50% of residents are people of color (ACPS50).	Ongoing	Continuing throughout 2018-19 until grant funds are fully spent.		*54 businesses participating	9.018	(13.718 since 2008)		
<b>Neighborhood/Area Source Team subtotals, July 1, 2017 - June 30, 2018:</b>								<b>22.82</b>			<b>HAPs: .5915</b>
<i>Since 2008:</i>								<i>0.259</i>	<i>56.91</i>	<i>13.17</i>	<i>HAPs: 3.5915</i> <i>SOx: 13.68</i>

Clean Air Minnesota Total Emissions Reductions

	PM 2.5	VOC	NOx	Other:
<b>CAM Total Emissions Reductions, July 1, 2017 - June 30, 2018 (tons):</b>	<b>186.68</b>	<b>44.123</b>	<b>22.154</b>	<b>CO: 1870.062</b>
				<b>SO2: 100</b>
				<b>HAPs: .5915</b>
				<b>HC: 201</b>
<b>CAM Total Emissions Reduction since 2008 (tons):</b>	<b>530.182</b>	<b>566.273</b>	<b>562.409</b>	<b>CO: 1954.956</b>
				<b>SO2: 100</b>
				<b>SOx: 13.68</b>
				<b>HAPs: 3.5915</b>
				<b>HC: 201</b>