

Congestion Mitigation and Air Quality Project Application Instructions

How to apply

Please fill out both the CMAQ application (page 3) and the appropriate emissions form. Additional Information may be required based on the project type (See below).

All applications are due on Monday December 12, 2018.

Please email the completed application, emissions form and any other required information to both Brandon Kovnat at kovnatb@swmpc.org AND Kim Gallagher at gallagherk@swmpc.org. Please include "CMAQ Application" in the subject line

Additional Information is required for the following projects:

Carpool Lot Expansion

- Indicate the number of spaces
- Indicated how many users you expect

Dedicated Turn Lanes

- Indicate the length of the lanes
- Indicate traffic counts,

Intersection Improvements

- Include a diagram of the modification

Non-Motorized Paths

Eligible if they are not exclusively recreational and if they reduce vehicle trips

- Please include maps detailing the location of the proposed path
- Detail the land uses that surround the path
- Explain how the path provides access to jobs, services, and centers of trade
- List all connections to other non-motorized paths, if applicable

Signal Interconnection

- Include all locations in the Location Description
- Indicate the number of signals in the Work Description

Traffic Operations Center (TOC)

- Please list specific activities to be funded

Transit

- Vehicle lease/purchase : how many will be leased or purchased
- Operating Assistance: specify which years are being requested (year 1, 2, 3 and/or 3)
- Equipment: type to be funded

Carpooling/Vanpooling (RideShare)

- Specify if Marketing or Capital (or both)

Emissions forms to Use

For the following projects use the appropriate FHWA Emission Toolkit which can be found at: https://www.fhwa.dot.gov/environment/air_quality/cmaq/toolkit/ or they can be downloaded through the links below (opens as an excel file):

Project Category	FHWA Emissions Toolkit
Dedicated Turn Lanes	Congestion Reduction and traffic Flow Improvements
Signal Interconnects	
Signal Optimization or Actuation, not part of an interconnect project	
Roundabouts	
Rideshare/vanpooling:	Carpooling and Vanpooling
Operation of New Public Transit Services	Transit Bus and Fleet Expansion
Bus Purchase or Replacements	Transit Bus Retrofits and Replacement Transit Bus and Fleet Expansion*
Diesel Retrofits / Truck Replacements	Advanced Diesel Truck/Engine Technologies
Alternative Fuels and Vehicles Projects	Alternative Fuels and Vehicles

*use this toolkit for gasoline vehicles.

For the following projects use the appropriate MDOT Emissions Form which can be found on MDOT's CMAQ page at: https://www.michigan.gov/mdot/0,4616,7-151-9621_11041_60661---.00.html or you open them directly through the links below (Fillable pdf forms)

Note that the forms only work with Internet Explorer

Project Category	Emissions Form
Other Project (may need additional details)	MDOT Form 2608
Intelligent Transportation System (ITS)	MDOT Form 2612
Park and Ride Lots	MDOT Form 2613
Traffic Operations Centers Operations	MDOT Form 2616
Travel Demand Management Program	MDOT Form 2619
Non-Motorized Pathways	MDOT Form 2621

Congestion Mitigation and Air Quality Project Application

Click "Enable Editing" to begin filling out this form. You may save this form at any time.

Section 1. Applicant Information

Agency Name	Van Buren County Road Commission		
Contact Name	Lawrence Hummel, P.E.	Title	Engineer Manager
Phone Number	269-674-8011	Email	larryhummel@vbcrc.org

Section 2. Project Information

Project Name: Cab & Chassis Truck Replacement		Fiscal Year of Project: 2021	
City/Village/ Township: n/a		County: Van Buren	
Project Location <i>(short description of where the project is located)</i>	Lawrence, MI		
Which Emissions form is being used? (list the form name not the MDOT form number)	On Road Diesel Repower/Replacement		
Work Description <i>(Short description of work being performed. Please provide enough information for eligibility to be determined)</i>	Replacment of Truck Currently Beyond Its Service Life with New Cab & Chassis Clean Diesel		
Sponsor <i>(If different from Applicant)</i>			
Project Cost <i>Only include CMAQ eligible expenses</i>	Federal - CMAQ \$110,400	State \$0	Local \$27,600
			Total \$138,000

Section 3. Performance measures

Besides emissions reductions what other performance measures will the project contribute to? <i>(select all that apply)</i> <input type="checkbox"/> Safety <input type="checkbox"/> Pavement Condition <input type="checkbox"/> System Reliability <input type="checkbox"/> Transit State of Good Repair	If you checked any of the Performance Measures please indicate how the project will improve them:
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Section 4. Additional Questions		
Question	Y/N	If Yes, Provide Brief Explanation of How the Application will meet these Criteria
Will the project be ready for obligation by July 1 of the year in which it's programmed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Will this project use multiple funding sources/be combined with another Non-CMAQ project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is the project being carried out by a sponsored agency, or is a private entity providing funding, materials, or services in support of this project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Does the project require Right of Way (ROW) acquisition or an easement?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, attach a signed letter from that agency granting permission to implement all or part of this project in their right-of-way.

Section 5. Estimated Project Schedule	
Activity	Estimated Date
Resolution of Support for Local Match Submitted to SWMPC	10/20
Project Application Submitted to MOT	11/20
Grade Inspection Package Submitted to MDOT	NA
Grade Inspection Meeting Scheduled	NA
Final Plan and Estimate to MDOT	NA
Right of Way (ROW) certified	NA
Rail Road Permits	NA
Environmental Mitigation	NA
Project Obligated	NA
Project Letting	NA
Construction Start	NA
Project Completion	NA

Enter NA for any activity that doesn't apply to the project.

Please remember to attach the emissions form/toolkit and any supplemental information when you submit the application

On-Road Diesel Repower/Replacement

This calculator will estimate the reduction in emissions resulting from a diesel repower/replacement.

INPUT

Note: Inputs for this tool should be specific to the vehicles to be replaced/repowered.

- (1) What is your project evaluation year?
- (2) What is the repower/replacement vehicle type?
- (3) What is the model year of the vehicles that will be repowered/replaced?
- (4) What is the model year of the repower/replacement vehicles?
- (5) What activity data do you have?
Note: You must choose at least one
- ☒ Vehicle Miles Traveled
☒ Vehicle Population
☐ Vehicle Hotelling Hours
- (6) Input the annual activity for the total number of vehicles to be repowered/replaced
- | | |
|-------------------------------------|---|
| <input type="text" value="14,700"/> | Total Vehicle Miles Traveled |
| <input type="text" value="1"/> | Repower/Replacement Vehicle Population |
| <input type="text"/> | Total Vehicle Hotelling Hours |

OUTPUT

FLEET PERFORMANCE

Last Updated: #####

Annual Activity for Vehicles to be Repowered/Replaced

Metric

<input type="text" value="14700"/>	Total Vehicle Miles Traveled
<input type="text" value="1"/>	Total Vehicle Population
<input type="text"/>	Total Hotelling Hours

EMISSION REDUCTIONS

Pollutant	Total kg/day
Carbon Monoxide (CO)	0.626
Particulate Matter <2.5 µm (PM _{2.5})	0.080
Particulate Matter <10 µm (PM ₁₀)	0.100
Nitrogen Oxide (NOx)	1.218
Volatile Organic Compounds (VOC)	0.239

Congestion Mitigation and Air Quality Project Application Instructions

How to apply

Please fill out both the CMAQ application (page 3) and the appropriate emissions form. Additional Information may be required based on the project type (See below).

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Please email the completed application, emissions form and any other required information to both Brandon Kovnat at kovnatb@swmpc.org AND Kim Gallagher at gallagherk@swmpc.org. Please include "CMAQ Application" in the subject line

Additional Information is required for the following projects:

Carpool Lot Expansion

- Indicate the number of spaces
- Indicated how many users you expect

Dedicated Turn Lanes

- Indicate the length of the lanes
- Indicate traffic counts,

Intersection Improvements

- Include a diagram of the modification

Non-Motorized Paths

Eligible if they are not exclusively recreational and if they reduce vehicle trips

- Please include maps detailing the location of the proposed path
- Detail the land uses that surround the path
- Explain how the path provides access to jobs, services, and centers of trade
- List all connections to other non-motorized paths, if applicable

Signal Interconnection

- Include all locations in the Location Description
- Indicate the number of signals in the Work Description

Traffic Operations Center (TOC)

- Please list specific activities to be funded

Transit

- Vehicle lease/purchase : how many will be leased or purchased
- Operating Assistance: specify which years are being requested (year 1, 2, 3 and/or 3)
- Equipment: type to be funded

Carpooling/Vanpooling (RideShare)

- Specify if Marketing or Capital (or both)

Emissions forms to Use

For the following projects use the appropriate FHWA Emission Toolkit which can be found at: https://www.fhwa.dot.gov/environment/air_quality/cmaq/toolkit/ or they can be downloaded through the links below (opens as an excel file):

Project Category	FHWA Emissions Toolkit
Dedicated Turn Lanes	Congestion Reduction and traffic Flow Improvements
Signal Interconnects	
Signal Optimization or Actuation, not part of an interconnect project	
Roundabouts	
Rideshare/vanpooling:	Carpooling and Vanpooling
Operation of New Public Transit Services	Transit Bus and Fleet Expansion
Bus Purchase or Replacements	Transit Bus Retrofits and Replacement Transit Bus and Fleet Expansion*
Diesel Retrofits / Truck Replacements	Advanced Diesel Truck/Engine Technologies
Alternative Fuels and Vehicles Projects	Alternative Fuels and Vehicles

*use this toolkit for gasoline vehicles.

For the following projects use the appropriate MDOT Emissions Form which can be found on MDOT's CMAQ page at: https://www.michigan.gov/mdot/0,4616,7-151-9621_11041_60661---.00.html or you open them directly through the links below (Fillable pdf forms)

Note that the forms only work with Internet Explorer

Project Category	Emissions Form
Other Project (may need additional details)	MDOT Form 2608
Intelligent Transportation System (ITS)	MDOT Form 2612
Park and Ride Lots	MDOT Form 2613
Traffic Operations Centers Operations	MDOT Form 2616
Travel Demand Management Program	MDOT Form 2619
Non-Motorized Pathways	MDOT Form 2621

Congestion Mitigation and Air Quality Project Application

Click "Enable Editing" to begin filling out this form. You may save this form at any time.

Section 1. Applicant Information

Agency Name	Van Buren County Road Commission		
Contact Name	Lawrence Hummel, P.E.	Title	Engineer Manager
Phone Number	269-674-8011	Email	larryhummel@vbcrc.org

Section 2. Project Information

Project Name: Cab & Chassis Truck Replacement		Fiscal Year of Project: 2022	
City/Village/ Township: n/a		County: Van Buren	
Project Location <i>(short description of where the project is located)</i>	Lawrence, MI		
Which Emissions form is being used? (list the form name not the MDOT form number)	On Road Diesel Repower/Replacement		
Work Description <i>(Short description of work being performed. Please provide enough information for eligibility to be determined)</i>	Replacement of Truck Currently Beyond Its Service Life with New Cab & Chassis Clean Diesel		
Sponsor <i>(If different from Applicant)</i>			
Project Cost <i>Only include CMAQ eligible expenses</i>	Federal - CMAQ \$115,920	State \$0	Local \$28,980 Total \$144,900

Section 3. Performance measures

Besides emissions reductions what other performance measures will the project contribute to? <i>(select all that apply)</i> <input type="checkbox"/> Safety <input type="checkbox"/> Pavement Condition <input type="checkbox"/> System Reliability <input type="checkbox"/> Transit State of Good Repair	If you checked any of the Performance Measures please indicate how the project will improve them:
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Section 4. Additional Questions		
Question	Y/N	If Yes, Provide Brief Explanation of How the Application will meet these Criteria
Will the project be ready for obligation by July 1 of the year in which it's programmed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Will this project use multiple funding sources/be combined with another Non-CMAQ project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is the project being carried out by a sponsored agency, or is a private entity providing funding, materials, or services in support of this project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Does the project require Right of Way (ROW) acquisition or an easement?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, attach a signed letter from that agency granting permission to implement all or part of this project in their right-of-way.

Section 5. Estimated Project Schedule	
Activity	Estimated Date
Resolution of Support for Local Match Submitted to SWMPC	10/2021
Project Application Submitted to MOT	11/2021
Grade Inspection Package Submitted to MDOT	NA
Grade Inspection Meeting Scheduled	NA
Final Plan and Estimate to MDOT	NA
Right of Way (ROW) certified	NA
Rail Road Permits	NA
Environmental Mitigation	NA
Project Obligated	NA
Project Letting	NA
Construction Start	NA
Project Completion	NA

Enter NA for any activity that doesn't apply to the project.

Please remember to attach the emissions form/toolkit and any supplemental information when you submit the application

On-Road Diesel Repower/Replacement

This calculator will estimate the reduction in emissions resulting from a diesel repower/replacement.

INPUT

Note: Inputs for this tool should be specific to the vehicles to be replaced/repowered.

- (1) What is your project evaluation year?
- (2) What is the repower/replacement vehicle type?
- (3) What is the model year of the vehicles that will be repowered/replaced?
- (4) What is the model year of the repower/replacement vehicles?
- (5) What activity data do you have?
Note: You must choose at least one
- ☒ Vehicle Miles Traveled
☒ Vehicle Population
☐ Vehicle Hotelling Hours
- (6) Input the annual activity for the total number of vehicles to be repowered/replaced
- | | |
|--------|--|
| 14,700 | Total Vehicle Miles Traveled |
| 1 | Repower/Replacement Vehicle Population |
| | Total Vehicle Hotelling Hours |

OUTPUT

FLEET PERFORMANCE

Last Updated: #####

Annual Activity for Vehicles to be Repowered/Replaced

Metric

14700
1

Total Vehicle Miles Traveled
Total Vehicle Population
Total Hotelling Hours

EMISSION REDUCTIONS

Pollutant	Total kg/day
Carbon Monoxide (CO)	0.626
Particulate Matter <2.5 µm (PM _{2.5})	0.080
Particulate Matter <10 µm (PM ₁₀)	0.100
Nitrogen Oxide (NOx)	1.218
Volatile Organic Compounds (VOC)	0.239

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Diesel Retrofits / Truck Replacements	Advanced Diesel Truck/Engine Technologies
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Non-Motorized Pathways	MDOT Form 2621

Congestion Mitigation and Air Quality Project Application

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Section 1. Applicant Information

Agency Name	Van Buren County Road Commission		
Contact Name	Lawrence Hummel, P.E.	Title	Engineer Manager
Phone Number	269-674-8011	Email	larryhummel@vbcrc.org

Section 2. Project Information

Project Name: Cab & Chassis Truck Replacement			Fiscal Year of Project: 2023	
City/Village/ Township: n/a			County: Van Buren	
Project Location <i>(short description of where the project is located)</i>	Lawrence, MI			
Which Emissions form is being used? (list the form name not the MDOT form number)	On Road Diesel Repower/Replacement			
Work Description (Short description of work being performed. Please provide enough information for eligibility to be determined)	Replacement of Truck Currently Beyond Its Service Life with New Cab & Chassis Clean Diesel			
Sponsor (If different from Applicant)				
Project Cost <i>Only include CMAQ eligible expenses</i>	Federal - CMAQ \$121,716	State \$0	Local \$30,429	Total \$152,145

Section 3. Performance measures

<p>Besides emissions reductions what other performance measures will the project contribute to? <i>(select all that apply)</i></p> <p><input type="checkbox"/> Safety</p> <p><input type="checkbox"/> Pavement Condition</p> <p><input type="checkbox"/> System Reliability</p> <p><input type="checkbox"/> Transit State of Good Repair</p>	<p>If you checked any of the Performance Measures please indicate how the project will improve them:</p>
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Section 4. Additional Questions		
Question	Y/N	If Yes, Provide Brief Explanation of How the Application will meet these Criteria
Will the project be ready for obligation by July 1 of the year in which it's programmed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Will this project use multiple funding sources/be combined with another Non-CMAQ project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is the project being carried out by a sponsored agency, or is a private entity providing funding, materials, or services in support of this project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Does the project require Right of Way (ROW) acquisition or an easement?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, attach a signed letter from that agency granting permission to implement all or part of this project in their right-of-way.

Section 5. Estimated Project Schedule	
Activity	Estimated Date
Resolution of Support for Local Match Submitted to SWMPC	10/2022
Project Application Submitted to MOT	11/2022
Grade Inspection Package Submitted to MDOT	NA
Grade Inspection Meeting Scheduled	NA
Final Plan and Estimate to MDOT	NA
Right of Way (ROW) certified	NA
Rail Road Permits	NA
Environmental Mitigation	NA
Project Obligated	NA
Project Letting	NA
Construction Start	NA
Project Completion	NA

Enter NA for any activity that doesn't apply to the project.

Please remember to attach the emissions form/toolkit and any supplemental information when you submit the application

On-Road Diesel Repower/Replacement

This calculator will estimate the reduction in emissions resulting from a diesel repower/replacement.

INPUT

Note: Inputs for this tool should be specific to the vehicles to be replaced/repowered.

- (1) What is your project evaluation year?
- (2) What is the repower/replacement vehicle type?
- (3) What is the model year of the vehicles that will be repowered/replaced?
- (4) What is the model year of the repower/replacement vehicles?
- (5) What activity data do you have?
Note: You must choose at least one
- ☒ Vehicle Miles Traveled
☒ Vehicle Population
☐ Vehicle Hotelling Hours
- (6) Input the annual activity for the total number of vehicles to be repowered/replaced
- | | |
|-------------------------------------|---|
| <input type="text" value="14,700"/> | Total Vehicle Miles Traveled |
| <input type="text" value="1"/> | Repower/Replacement Vehicle Population |
| <input type="text"/> | Total Vehicle Hotelling Hours |

OUTPUT

FLEET PERFORMANCE

Last Updated: #####

Annual Activity for Vehicles to be Repowered/Replaced

Metric

<input type="text" value="14700"/>	Total Vehicle Miles Traveled
<input type="text" value="1"/>	Total Vehicle Population
<input type="text"/>	Total Hotelling Hours

EMISSION REDUCTIONS

Pollutant	Total kg/day
Carbon Monoxide (CO)	0.626
Particulate Matter <2.5 µm (PM _{2.5})	0.080
Particulate Matter <10 µm (PM ₁₀)	0.100
Nitrogen Oxide (NOx)	1.218
Volatile Organic Compounds (VOC)	0.239



Emissions Calculator Toolkit

Carpooling

This calculator will estimate the reduction in emissions resulting from carpooling.

Navigator

Carpooling

Vanpooling

INPUT

- (1) What is your project evaluation year?
- (2) Are the pick-up/drop-off locations centralized? ☐ Yes
- (2a) What is the average distance participants drive to the central locations? Enter as roundtrip mileage
- (3) Please choose one of the following questions to answer:
- (3a) What is the population of commuting workers?
- (3b) What is the number of vehicles participating in the carpool program? ☒ ☐
- Default values based on national averages
- (4) What share of commuters participate in pool? Input as a percentage
- (5) On average, how many passengers are there per carpool vehicle? Driver not included
- (6) What is the average commute distance? Enter as roundtrip mileage

OUTPUT

EMISSION REDUCTIONS

Pollutant	Total (kg/day)
Carbon Monoxide (CO)	1.557
Nitrogen Oxide (NOx)	0.116
Particulate Matter <10 µm (PM ₁₀)	0.004
Particulate Matter <2.5 µm (PM _{2.5})	0.003
Volatile Organic Compounds (VOC)	0.049

Congestion Mitigation and Air Quality Project Application

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Section 1. Applicant Information

Agency Name	Southwest Michigan Planning Commission		
Contact Name	Kristopher Martin	Title	Associate Planner
Phone Number	2699251137x1521	Email	martink@swmpc.org

Section 2. Project Information

Project Name: Van Buren County Southwest Michigan Rideshare Promotion Standard Program		Fiscal Year of Project: 2021
City/Village/ Township:		County: Van Buren County
Project Location <i>(short description of where the project is located)</i>	This rideshare program is for residents and employees that live and work in and around Van Buren County Michigan.	
Which Emissions form is being used? (list the form name not the MDOT form number)	FHWA CMAQ Toolkit Carpooling and Vanpooling Tool	
Work Description <i>(Short description of work being performed. Please provide enough information for eligibility to be determined)</i>	<p>This rideshare program offers a free rideshare matching service to everyone that lives, works, and commutes in the county. In this program the rideshare coordinator identifies and proactively markets directly to employers with the goal of conducting on-site meetings to explain rideshare and transportation options. The coordinator also offers free presentations/trainings to employees on the sign up and use of the rideshare services and provides free educational materials, it also promotes the MichiVan Commuter VanPool program and the online resources on www.mywaythere.org. The presentations/trainings are available to businesses, employees, community groups, nonprofits organizations, employment agencies, libraries and anyone else interested. The coordinator will attend local job fairs or community events to promote the rideshare services. The coordinator will also promote the rideshare services in the media, in municipal buildings, carpool lots, and libraries. The coordinator also partners with other rideshare agencies across the state. The coordinator will help people sign up for the rideshare service over the phone or by email. The coordinator also manages the www.mywaythere.org website. This website is a great tool to learn what rideshare and public transportation services are available. On this site it has information on free or reduced rides, rideshare, transit, non-emergency medical information, information for seniors and people with disabilities and so much more.</p>	

Sponsor (If different from Applicant)				
Project Cost <i>Only include CMAQ eligible expenses</i>	Federal - CMAQ \$10,000	State \$	Local \$	Total \$

Section 3. Performance measures

Besides emissions reductions what other performance measures will the project contribute to? *(select all that apply)*

- ☐ Safety
☐ Pavement Condition
☐ System Reliability
☐ Transit State of Good Repair

If you checked any of the Performance Measures please indicate how the project will improve them:

Section 4. Additional Questions

Question	Y/N	If Yes, Provide Brief Explanation of How the Application will meet these Criteria
Will the project be ready for obligation by July 1 of the year in which it's programmed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Will this project use multiple funding sources/be combined with another Non-CMAQ project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is the project being carried out by a sponsored agency, or is a private entity providing funding, materials, or services in support of this project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Does the project require Right of Way (ROW) acquisition or an easement?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, attach a signed letter from that agency granting permission to implement all or part of this project in their right-of-way.

Section 5. Estimated Project Schedule

Activity	Estimated Date
Resolution of Support for Local Match Submitted to SWMPC	
Project Application Submitted to MOT	
Grade Inspection Package Submitted to MDOT	
Grade Inspection Meeting Scheduled	

Final Plan and Estimate to MDOT	
Right of Way (ROW) certified	
Rail Road Permits	
Environmental Mitigation	
Project Obligated	
Project Letting	
Construction Start	
Project Completion	

Enter NA for any activity that doesn't apply to the project.

Please remember to attach the emissions form/toolkit and any supplemental information when you submit the application



Emissions Calculator Toolkit

Carpooling

This calculator will estimate the reduction in emissions resulting from carpooling.

Navigator

Carpooling

Vanpooling

INPUT

- (1) What is your project evaluation year?
- (2) Are the pick-up/drop-off locations centralized? ☐ Yes ☐ No *Enter as roundtrip mileage*
- (2a) What is the average distance participants drive to the central locations?
- (3) Please choose one of the following questions to answer:
- (3a) What is the population of commuting workers? ☐ ☐
- (3b) What is the number of vehicles participating in the carpool program? ☒
- Default values based on national averages*
- (4) What share of commuters participate in pool? *Input as a percentage*
- (5) On average, how many passengers are there per carpool vehicle? *Driver not included*
- (6) What is the average commute distance? *Enter as roundtrip mileage*

OUTPUT

EMISSION REDUCTIONS

Pollutant	Total (kg/day)
Carbon Monoxide (CO)	1.557
Nitrogen Oxide (NOx)	0.116
Particulate Matter <10 µm (PM ₁₀)	0.004
Particulate Matter <2.5 µm (PM _{2.5})	0.003
Volatile Organic Compounds (VOC)	0.049

Congestion Mitigation and Air Quality Project Application

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Section 1. Applicant Information

Agency Name	Southwest Michigan Planning Commission		
Contact Name	Kristopher Martin	Title	Associate Planner
Phone Number	2699251137x1521	Email	martink@swmpc.org

Section 2. Project Information

Project Name: Van Buren County Southwest Michigan Rideshare Promotion Standard Program		Fiscal Year of Project: 2022
City/Village/ Township:		County: Van Buren County
Project Location <i>(short description of where the project is located)</i>	This rideshare program is for residents and employees that live and work in and around Van Buren County Michigan.	
Which Emissions form is being used? (list the form name not the MDOT form number)	FHWA CMAQ Toolkit Carpooling and Vanpooling Tool	
Work Description <i>(Short description of work being performed. Please provide enough information for eligibility to be determined)</i>	<p>This rideshare program offers a free rideshare matching service to everyone that lives, works, and commutes in the county. In this program the rideshare coordinator identifies and proactively markets directly to employers with the goal of conducting on-site meetings to explain rideshare and transportation options. The coordinator also offers free presentations/trainings to employees on the sign up and use of the rideshare services and provides free educational materials, it also promotes the MichiVan Commuter VanPool program and the online resources on www.mywaythere.org. The presentations/trainings are available to businesses, employees, community groups, nonprofits organizations, employment agencies, libraries and anyone else interested. The coordinator will attend local job fairs or community events to promote the rideshare services. The coordinator will also promote the rideshare services in the media, in municipal buildings, carpool lots, and libraries. The coordinator also partners with other rideshare agencies across the state. The coordinator will help people sign up for the rideshare service over the phone or by email. The coordinator also manages the www.mywaythere.org website. This website is a great tool to learn what rideshare and public transportation services are available. On this site it has information on free or reduced rides, rideshare, transit, non-emergency medical information, information for seniors and people with disabilities and so much more.</p>	

Sponsor (If different from Applicant)				
Project Cost <i>Only include CMAQ eligible expenses</i>	Federal - CMAQ \$10,000	State \$	Local \$	Total \$

Section 3. Performance measures

Besides emissions reductions what other performance measures will the project contribute to? *(select all that apply)*

- ☐ Safety
☐ Pavement Condition
☐ System Reliability
☐ Transit State of Good Repair

If you checked any of the Performance Measures please indicate how the project will improve them:

Section 4. Additional Questions

Question	Y/N	If Yes, Provide Brief Explanation of How the Application will meet these Criteria
Will the project be ready for obligation by July 1 of the year in which it's programmed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Will this project use multiple funding sources/be combined with another Non-CMAQ project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is the project being carried out by a sponsored agency, or is a private entity providing funding, materials, or services in support of this project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Does the project require Right of Way (ROW) acquisition or an easement?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, attach a signed letter from that agency granting permission to implement all or part of this project in their right-of-way.

Section 5. Estimated Project Schedule

Activity	Estimated Date
Resolution of Support for Local Match Submitted to SWMPC	
Project Application Submitted to MOT	
Grade Inspection Package Submitted to MDOT	
Grade Inspection Meeting Scheduled	

Final Plan and Estimate to MDOT	
Right of Way (ROW) certified	
Rail Road Permits	
Environmental Mitigation	
Project Obligated	
Project Letting	
Construction Start	
Project Completion	

Enter NA for any activity that doesn't apply to the project.

Please remember to attach the emissions form/toolkit and any supplemental information when you submit the application



Emissions Calculator Toolkit

Carpooling

This calculator will estimate the reduction in emissions resulting from carpooling.

Navigator

Carpooling

Vanpooling

INPUT

- (1) What is your project evaluation year?
- (2) Are the pick-up/drop-off locations centralized? ☐ Yes Enter as roundtrip mileage
- (2a) What is the average distance participants drive to the central locations? Enter as roundtrip mileage
- (3) Please choose one of the following questions to answer:
- (3a) What is the population of commuting workers? ☐
- (3b) What is the number of vehicles participating in the carpool program? ☒
- Default values based on national averages*
- (4) What share of commuters participate in pool? Input as a percentage
- (5) On average, how many passengers are there per carpool vehicle? Driver not included
- (6) What is the average commute distance? Enter as roundtrip mileage

OUTPUT

EMISSION REDUCTIONS

Pollutant	Total (kg/day) kg/day
Carbon Monoxide (CO)	1.557
Nitrogen Oxide (NOx)	0.116
Particulate Matter <10 µm (PM ₁₀)	0.004
Particulate Matter <2.5 µm (PM _{2.5})	0.003
Volatile Organic Compounds (VOC)	0.049

Congestion Mitigation and Air Quality Project Application

Click "Enable Editing" to begin filling out this form. You may save this form at any time.

Section 1. Applicant Information

Agency Name	Southwest Michigan Planning Commission		
Contact Name	Kristopher Martin	Title	Associate Planner
Phone Number	2699251137x1521	Email	martink@swmpc.org

Section 2. Project Information

Project Name: Van Buren County Southwest Michigan Rideshare Promotion Standard Program		Fiscal Year of Project: 2023
City/Village/ Township:		County: Van Buren County
Project Location <i>(short description of where the project is located)</i>	This rideshare program is for residents and employees that live and work in and around Van Buren County Michigan.	
Which Emissions form is being used? (list the form name not the MDOT form number)	FHWA CMAQ Toolkit Carpooling and Vanpooling Tool	
Work Description <i>(Short description of work being performed. Please provide enough information for eligibility to be determined)</i>	<p>This rideshare program offers a free rideshare matching service to everyone that lives, works, and commutes in the county. In this program the rideshare coordinator identifies and proactively markets directly to employers with the goal of conducting on-site meetings to explain rideshare and transportation options. The coordinator also offers free presentations/trainings to employees on the sign up and use of the rideshare services and provides free educational materials, it also promotes the MichiVan Commuter VanPool program and the online resources on www.mywaythere.org. The presentations/trainings are available to businesses, employees, community groups, nonprofits organizations, employment agencies, libraries and anyone else interested. The coordinator will attend local job fairs or community events to promote the rideshare services. The coordinator will also promote the rideshare services in the media, in municipal buildings, carpool lots, and libraries. The coordinator also partners with other rideshare agencies across the state. The coordinator will help people sign up for the rideshare service over the phone or by email. The coordinator also manages the www.mywaythere.org website. This website is a great tool to learn what rideshare and public transportation services are available. On this site it has information on free or reduced rides, rideshare, transit, non-emergency medical information, information for seniors and people with disabilities and so much more.</p>	

Sponsor (If different from Applicant)				
Project Cost <i>Only include CMAQ eligible expenses</i>	Federal - CMAQ \$10,000	State \$	Local \$	Total \$

Section 3. Performance measures

Besides emissions reductions what other performance measures will the project contribute to? *(select all that apply)*

- ☐ Safety
☐ Pavement Condition
☐ System Reliability
☐ Transit State of Good Repair

If you checked any of the Performance Measures please indicate how the project will improve them:

Section 4. Additional Questions

Question	Y/N	If Yes, Provide Brief Explanation of How the Application will meet these Criteria
Will the project be ready for obligation by July 1 of the year in which it's programmed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Will this project use multiple funding sources/be combined with another Non-CMAQ project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is the project being carried out by a sponsored agency, or is a private entity providing funding, materials, or services in support of this project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Does the project require Right of Way (ROW) acquisition or an easement?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, attach a signed letter from that agency granting permission to implement all or part of this project in their right-of-way.

Section 5. Estimated Project Schedule

Activity	Estimated Date
Resolution of Support for Local Match Submitted to SWMPC	
Project Application Submitted to MOT	
Grade Inspection Package Submitted to MDOT	
Grade Inspection Meeting Scheduled	

Final Plan and Estimate to MDOT	
Right of Way (ROW) certified	
Rail Road Permits	
Environmental Mitigation	
Project Obligated	
Project Letting	
Construction Start	
Project Completion	

Enter NA for any activity that doesn't apply to the project.

Please remember to attach the emissions form/toolkit and any supplemental information when you submit the application

~~2023~~
2020

Congestion Mitigation and Air Quality Project Application

Click "Enable Editing" to begin filling out this form. You may save this form at any time.

Section 1. Applicant Information			
Agency Name	Van Buren Transit		
Contact Name	Tony Dacoba	Title	Director
Phone Number	2694277377	Email	dacobat@vbco.org

Section 2. Project Information				
Project Name: Transit bus replacement			Fiscal Year of Project: 2020	
City/Village/ Township: Bangor			Van Buren	
Project Location <i>(short description of where the project is located)</i>	Van Buren Transit Bangor 49013			
Which Emissions form/toolkit is being used? (list the form name not the MDOT form number)				
Work Description <i>(Short description of work being performed. Please provide enough information for eligibility to be determined)</i>	Replace 2014 diesel bus with newer less emissions model			
Sponsor <i>(If different from Applicant)</i>				
Project Cost <i>Only include CMAQ eligible expenses</i>	Federal - CMAQ \$83360.00	State \$20569.00	Local \$	Total \$102929.00

Section 3. Performance measures	
Besides emissions reductions what other performance measures will the project contribute to? <i>(select all that apply)</i> <input type="checkbox"/> Safety <input type="checkbox"/> Pavement Condition <input type="checkbox"/> System Reliability <input checked="" type="checkbox"/> Transit State of Good Repair	If you checked any of the Performance Measures please indicate how the project will improve them: Old buses are worn out 200,000 plus miles

--

Section 4. Additional Questions

Question	Y/N	If Yes, Provide Brief Explanation of How the Application will meet these Criteria
Will the project be ready for obligation by July 1 of the year in which it's programmed?	x <input type="checkbox"/> Yes <input type="checkbox"/> No	Age / mileage
Will this project use multiple funding sources/be combined with another Non-CMAQ project?	<input type="checkbox"/> Yes x <input type="checkbox"/> No	
Is the project being carried out by a sponsored agency, or is a private entity providing funding, materials, or services in support of this project?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Van Buren Transit
Does the project require Right of Way (ROW) acquisition or an easement?	<input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, attach a signed letter from that agency granting permission to implement all or part of this project in their right-of-way.

Section 5. Estimated Project Schedule

Activity	Estimated Date
Resolution of Support for Local Match Submitted to SWMPC	
Project Application Submitted to MOT	
Grade Inspection Package Submitted to MDOT	
Grade Inspection Meeting Scheduled	
Final Plan and Estimate to MDOT	
Right of Way (ROW) certified	
Rail Road Permits	
Environmental Mitigation	
Project Obligated	
Project Letting	
Construction Start	
Project Completion	

Enter NA for any activity that doesn't apply to the project.

Please remember to attach the emissions form/toolkit and any supplemental information when you submit the application.

2021
2021

Congestion Mitigation and Air Quality Project Application

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Section 1. Applicant Information			
Agency Name	Van Buren Transit		
Contact Name	Tony Dacoba	Title	Director
Phone Number	2694277377	Email	dacobat@vbco.org

Section 2. Project Information				
Project Name: Transit bus replacement		Fiscal Year of Project:		
City/Village/ Township: Bangor		Van Buren 2021		
Project Location <i>(short description of where the project is located)</i>	Van Buren Transit Bangor 49013			
Which Emissions form/toolkit is being used? (list the form name not the MDOT form number)				
Work Description <i>(Short description of work being performed. Please provide enough information for eligibility to be determined)</i>	Replace 2014 diesel bus with newer less emissions model			
Sponsor <i>(If different from Applicant)</i>				
Project Cost <i>Only include CMAQ eligible expenses</i>	Federal - CMAQ \$83360.00	State \$20569.00	Local \$	Total \$102929.00

Section 3. Performance measures	
Besides emissions reductions what other performance measures will the project contribute to? <i>(select all that apply)</i> <input type="checkbox"/> Safety <input type="checkbox"/> Pavement Condition <input type="checkbox"/> System Reliability <input checked="" type="checkbox"/> Transit State of Good Repair	If you checked any of the Performance Measures please indicate how the project will improve them: Old buses are worn out 200,000 plus miles

Section 4. Additional Questions

Question	Y/N	If Yes, Provide Brief Explanation of How the Application will meet these Criteria
Will the project be ready for obligation by July 1 of the year in which it's programmed?	x <input type="checkbox"/> Yes <input type="checkbox"/> No	Age / mileage
Will this project use multiple funding sources/be combined with another Non-CMAQ project?	<input type="checkbox"/> Yes x <input type="checkbox"/> No	
Is the project being carried out by a sponsored agency, or is a private entity providing funding, materials, or services in support of this project?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Van Buren Transit
Does the project require Right of Way (ROW) acquisition or an easement?	<input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, attach a signed letter from that agency granting permission to implement all or part of this project in their right-of-way.

Section 5. Estimated Project Schedule

Activity	Estimated Date
Resolution of Support for Local Match Submitted to SWMPC	
Project Application Submitted to MOT	
Grade Inspection Package Submitted to MDOT	
Grade Inspection Meeting Scheduled	
Final Plan and Estimate to MDOT	
Right of Way (ROW) certified	
Rail Road Permits	
Environmental Mitigation	
Project Obligated	
Project Letting	
Construction Start	
Project Completion	

Enter NA for any activity that doesn't apply to the project.

Please remember to attach the emissions form/toolkit and any supplemental information when you submit the application.

Congestion Mitigation and Air Quality Project Application

Click "Enable Editing" to begin filling out this form. You may save this form at any time.

Section 1. Applicant Information			
Agency Name	Van Buren Transit		
Contact Name	Tony Dacoba	Title	Director
Phone Number	2694277377	Email	dacobat@vbco.org

Section 2. Project Information				
Project Name: Transit bus replacement			Fiscal Year of Project: 2022	
City/Village/ Township: Bangor			Van Buren	
Project Location <i>(short description of where the project is located)</i>	Van Buren Transit Bangor 49013			
Which Emissions form/toolkit is being used? (list the form name not the MDOT form number)				
Work Description <i>(Short description of work being performed. Please provide enough information for eligibility to be determined)</i>	Replace 2014 diesel bus with newer less emissions model			
Sponsor <i>(If different from Applicant)</i>				
Project Cost <i>Only include CMAQ eligible expenses</i>	Federal - CMAQ \$83360.00	State \$20569.00	Local \$	Total \$102929.00

Section 3. Performance measures	
<p>Besides emissions reductions what other performance measures will the project contribute to? <i>(select all that apply)</i></p> <p><input type="checkbox"/> Safety</p> <p><input type="checkbox"/> Pavement Condition</p> <p><input type="checkbox"/> System Reliability</p> <p><input checked="" type="checkbox"/> Transit State of Good Repair</p>	<p>If you checked any of the Performance Measures please indicate how the project will improve them:</p> <p>Old buses are worn out 200,000 plus miles</p>

Section 4. Additional Questions

Question	Y/N	If Yes, Provide Brief Explanation of How the Application will meet these Criteria
Will the project be ready for obligation by July 1 of the year in which it's programmed?	x <input type="checkbox"/> Yes <input type="checkbox"/> No	Age / mileage
Will this project use multiple funding sources/be combined with another Non-CMAQ project?	<input type="checkbox"/> Yes x <input type="checkbox"/> No	
Is the project being carried out by a sponsored agency, or is a private entity providing funding, materials, or services in support of this project?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Van Buren Transit
Does the project require Right of Way (ROW) acquisition or an easement?	<input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, attach a signed letter from that agency granting permission to implement all or part of this project in their right-of-way.

Section 5. Estimated Project Schedule

Activity	Estimated Date
Resolution of Support for Local Match Submitted to SWMPC	
Project Application Submitted to MOT	
Grade Inspection Package Submitted to MDOT	
Grade Inspection Meeting Scheduled	
Final Plan and Estimate to MDOT	
Right of Way (ROW) certified	
Rail Road Permits	
Environmental Mitigation	
Project Obligated	
Project Letting	
Construction Start	
Project Completion	

Enter NA for any activity that doesn't apply to the project.

Please remember to attach the emissions form/toolkit and any supplemental information when you submit the application.

Congestion Mitigation and Air Quality Project Application

Click "Enable Editing" to begin filling out this form. You may save this form at any time.

Section 1. Applicant Information			
Agency Name	Van Buren Transit		
Contact Name	Tony Dacoba	Title	Director
Phone Number	2694277377	Email	dacobat@vbco.org

Section 2. Project Information				
Project Name: Transit bus replacement			Fiscal Year of Project: 2023	
City/Village/ Township: Bangor			Van Buren	
Project Location <i>(short description of where the project is located)</i>	Van Buren Transit Bangor 49013			
Which Emissions form/toolkit is being used? (list the form name not the MDOT form number)				
Work Description <i>(Short description of work being performed. Please provide enough information for eligibility to be determined)</i>	Replace 2014 diesel bus with newer less emissions model			
Sponsor <i>(If different from Applicant)</i>				
Project Cost <i>Only include CMAQ eligible expenses</i>	Federal - CMAQ \$83360.00	State \$20569.00	Local \$	Total \$102929.00

Section 3. Performance measures	
<p>Besides emissions reductions what other performance measures will the project contribute to? <i>(select all that apply)</i></p> <p> <input type="checkbox"/> Safety <input type="checkbox"/> Pavement Condition <input type="checkbox"/> System Reliability <input checked="" type="checkbox"/> Transit State of Good Repair </p>	<p>If you checked any of the Performance Measures please indicate how the project will improve them:</p> <p>Old buses are worn out 200,000 plus miles</p>

Section 4. Additional Questions

Question	Y/N	If Yes, Provide Brief Explanation of How the Application will meet these Criteria
Will the project be ready for obligation by July 1 of the year in which it's programmed?	x <input type="checkbox"/> Yes <input type="checkbox"/> No	Age / mileage
Will this project use multiple funding sources/be combined with another Non-CMAQ project?	<input type="checkbox"/> Yes x <input type="checkbox"/> No	
Is the project being carried out by a sponsored agency, or is a private entity providing funding, materials, or services in support of this project?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Van Buren Transit
Does the project require Right of Way (ROW) acquisition or an easement?	<input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, attach a signed letter from that agency granting permission to implement all or part of this project in their right-of-way.

Section 5. Estimated Project Schedule

Activity	Estimated Date
Resolution of Support for Local Match Submitted to SWMPC	
Project Application Submitted to MOT	
Grade Inspection Package Submitted to MDOT	
Grade Inspection Meeting Scheduled	
Final Plan and Estimate to MDOT	
Right of Way (ROW) certified	
Rail Road Permits	
Environmental Mitigation	
Project Obligated	
Project Letting	
Construction Start	
Project Completion	

Enter NA for any activity that doesn't apply to the project.

Please remember to attach the emissions form/toolkit and any supplemental information when you submit the application.

Congestion Mitigation and Air Quality Project Application

Click "Enable Editing" to begin filling out this form. You may save this form at any time.

Section 1. Applicant Information

Agency Name	City of Hartford		
Contact Name	Yemi Akinwale	Title	City Manager
Phone Number	269.621.2477	Email	citymanager@cityofhartfordmi.org

Section 2. Project Information

Project Name: 60 th Avenue Sidewalk Project		Fiscal Year of Project: 2020	
City/Village/ Township: City of Hartford		County: Van Buren	
Project Location (short description of where the project is located)	S. Center Street from Maple Hill Village to Center Street Apartments, and 60 th Ave from S. Center Street to Woodside Drive		
Which Emissions form is being used? (list the form name not the MDOT form number)	Non Motorized Pathways		
Work Description (Short description of work being performed. Please provide enough information for eligibility to be determined)	Construct 5' wide sidewalk from the Maple Hill Village Trailer Park, north to the Center Street Apartments. Connect this sidewalk to the existing sidewalk at Woodside drive via a new 5' wide sidewalk constructed on along 60 th Avenue.		
Sponsor (If different from Applicant)			
Project Cost <i>Only include CMAQ eligible expenses</i>	Federal - CMAQ \$112,000	State \$	Local \$28,000
			Total \$140,000

Section 3. Performance measures

<p>Besides emissions reductions what other performance measures will the project contribute to? (select all that apply)</p> <p><input checked="" type="checkbox"/> Safety</p> <p><input type="checkbox"/> Pavement Condition</p> <p><input type="checkbox"/> System Reliability</p> <p><input type="checkbox"/> Transit State of Good Repair</p>	<p>If you checked any of the Performance Measures please indicate how the project will improve them:</p> <p>Providing a sidewalk will provide a safe path, direct path, for pedestrians to walk between the school and the trailer park and apartments.</p>
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Section 4. Additional Questions

Question	Y/N	If Yes, Provide Brief Explanation of How the Application will meet these Criteria
Will the project be ready for obligation by July 1 of the year in which it's programmed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Plans and specs will be prepared by a consultant
Will this project use multiple funding sources/be combined with another Non-CMAQ project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is the project being carried out by a sponsored agency, or is a private entity providing funding, materials, or services in support of this project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Does the project require Right of Way (ROW) acquisition or an easement?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, attach a signed letter from that agency granting permission to implement all or part of this project in their right-of-way.

Section 5. Estimated Project Schedule

Activity	Estimated Date
Resolution of Support for Local Match Submitted to SWMPC	03/19
Project Application Submitted to MOT	09/19
Grade Inspection Package Submitted to MDOT	09/19
Grade Inspection Meeting Scheduled	10/19
Final Plan and Estimate to MDOT	12/19
Right of Way (ROW) certified	12/19
Rail Road Permits	N/A
Environmental Mitigation	N/A
Project Obligated	12/19
Project Letting	02/20
Construction Start	06/20
Project Completion	08/20

Enter NA for any activity that doesn't apply to the project.

Please remember to attach the emissions form/toolkit and any supplemental information when you submit the application

CITY OF HARTFORD
COUNTY OF VAN BUREN
STATE OF MICHIGAN
RESOLUTION 2019 – 002



SUPPORT FOR CMAQ PROJECT

At a Business meeting of the City of Hartford Commission, located at 19 West Main Street and called to order by Mayor Richard A. Hall on February 4, 2019.

The following resolution was offered:

Moved by Commissioner Dockter and supported by Commissioner Miller.

WHEREAS, the City Commission of the City of Hartford recognized the concentrated population base at South Center Street Apartments and Maple Hill Village Trailer Park; and

WHEREAS, the City Commission of the City of Hartford is concerned about the safety issues facing the elementary school students that reside at these two multi-family residential structures; and

WHEREAS, the City Commission of the City of Hartford recognizes that this safety concern can easily be remedied by the construction of sidewalk from the Maple Hill Village Trailer Park, north to Center Street Apartments to the existing sidewalk at Woodside Drive via a new sidewalk constructed along 60th Avenue; and

WHEREAS, the City Commission of the City of Hartford is committing their share of the funding for this project, and

WHEREAS, the engineering estimate for this project is as follows;

<u>Total Cost</u>	<u>CMAQ Program Funding</u>	<u>City Share</u>
\$140,000.00	\$112,000.00	\$28,000.00

NOW THEREFORE, BE IT RESOLVED, that the City Commission for the City of Hartford hereby certifies its support of the local share of the project cost.

YEAS: Ron Burleson; Frank Dockter; Dennis Goss; John Miller; Hellen Sullivan; Terry Tibbs and
Richard A. Hall

NAYS: None ABSENT: None

RESOLUTION DECLARED ADOPTED

DATE: February 4, 2019

RoxAnn Rodney-Isbrecht, City Clerk

I RoxAnn Rodney-Isbrecht, Clerk for the City of Hartford, do hereby certify that the foregoing is a true and complete copy of a Resolution duly adopted by the City Commission of the City of Hartford during a meeting held on February 4, 2019, and the public notice of said meeting was held in compliance with Act 267 of the Public Acts of Michigan of 1976, as amended.

DATE: February 6, 2019

RoxAnn Rodney-Isbrecht, City Clerk
City of Hartford
19 West Main Street
Hartford MI 49057

Congestion Mitigation and Air Quality Project Application

Click "Enable Editing" to begin filling out this form. You may save this form at any time.

Section 1. Applicant Information

Agency Name	City of South		
Contact Name	Bill Hunter	Title	Director of Public Works
Phone Number	269-637-0737	Email	bhunter@south-haven.com

Section 2. Project Information

Project Name: Aylworth Avenue Multi-Use Path Extension		Fiscal Year of Project: 2022	
City/Village/ Township: City of South Haven		County: Van Buren	
Project Location <i>(short description of where the project is located)</i>	The proposed non-motorized trail is located along the south side of Aylworth Avenue in South Haven, Michigan between Kalamazoo Street and Le Grange Street.		
Which Emissions form/toolkit is being used? (list the form name not the MDOT form number)	MDOT Form 2621		
Work Description <i>(Short description of work being performed. Please provide enough information for eligibility to be determined)</i>	Creation of a 10" wide path that would build a non-motorized multi-use path along Aylworth Avenue from Kalamazoo Street to Le Grange Street.		
Sponsor <i>(If different from Applicant)</i>			
Project Cost <i>Only include CMAQ eligible expenses</i>	Federal - CMAQ \$134,783	State \$	Local \$180,217
			Total \$315,000

Section 3. Performance measures

Besides emissions reductions what other performance measures will the project contribute to? <i>(select all that apply)</i> <input checked="" type="checkbox"/> Safety <input type="checkbox"/> Pavement Condition <input type="checkbox"/> System Reliability <input type="checkbox"/> Transit State of Good Repair	If you checked any of the Performance Measures please indicate how the project will improve them: The proposed project would provide a safe non-motorized trail for hundreds of employees that work at the following places of business: Vibracoustics USA, Earth Tech, Headstart South Haven, Lincoln Elementary School and South Haven High School. The path would also provide the same opportunity for residents of the adjacent
--	---

	neighborhoods to travel to various businesses in the area to both use as services or attend as employees.
--	---

Section 4. Additional Questions

Question	Y/N	If Yes, Provide Brief Explanation of How the Application will meet these Criteria
Will the project be ready for obligation by July 1 of the year in which it's programmed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Will this project use multiple funding sources/be combined with another Non-CMAQ project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is the project being carried out by a sponsored agency, or is a private entity providing funding, materials, or services in support of this project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Does the project require Right of Way (ROW) acquisition or an easement?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, attach a signed letter from that agency granting permission to implement all or part of this project in their right-of-way.

Section 5. Estimated Project Schedule

Activity	Estimated Date
Resolution of Support for Local Match Submitted to SWMPC	9/15/22
Project Application Submitted to MOT	10/21/22
Grade Inspection Package Submitted to MDOT	11/14/22
Grade Inspection Meeting Scheduled	12/14/22
Final Plan and Estimate to MDOT	1/20/23
Right of Way (ROW) certified	1/20/23
Rail Road Permits	N/A
Environmental Mitigation	N/A
Project Obligated	2/14/23
Project Letting	4/7/23
Construction Start	5/15/23
Project Completion	7/15/23

Enter NA for any activity that doesn't apply to the project.

Please remember to attach the emissions form/toolkit and any supplemental information when you submit the application.

PROJECT NAME
Aylworth Non-Motorized Trail






SUBMITTER
City of South Haven

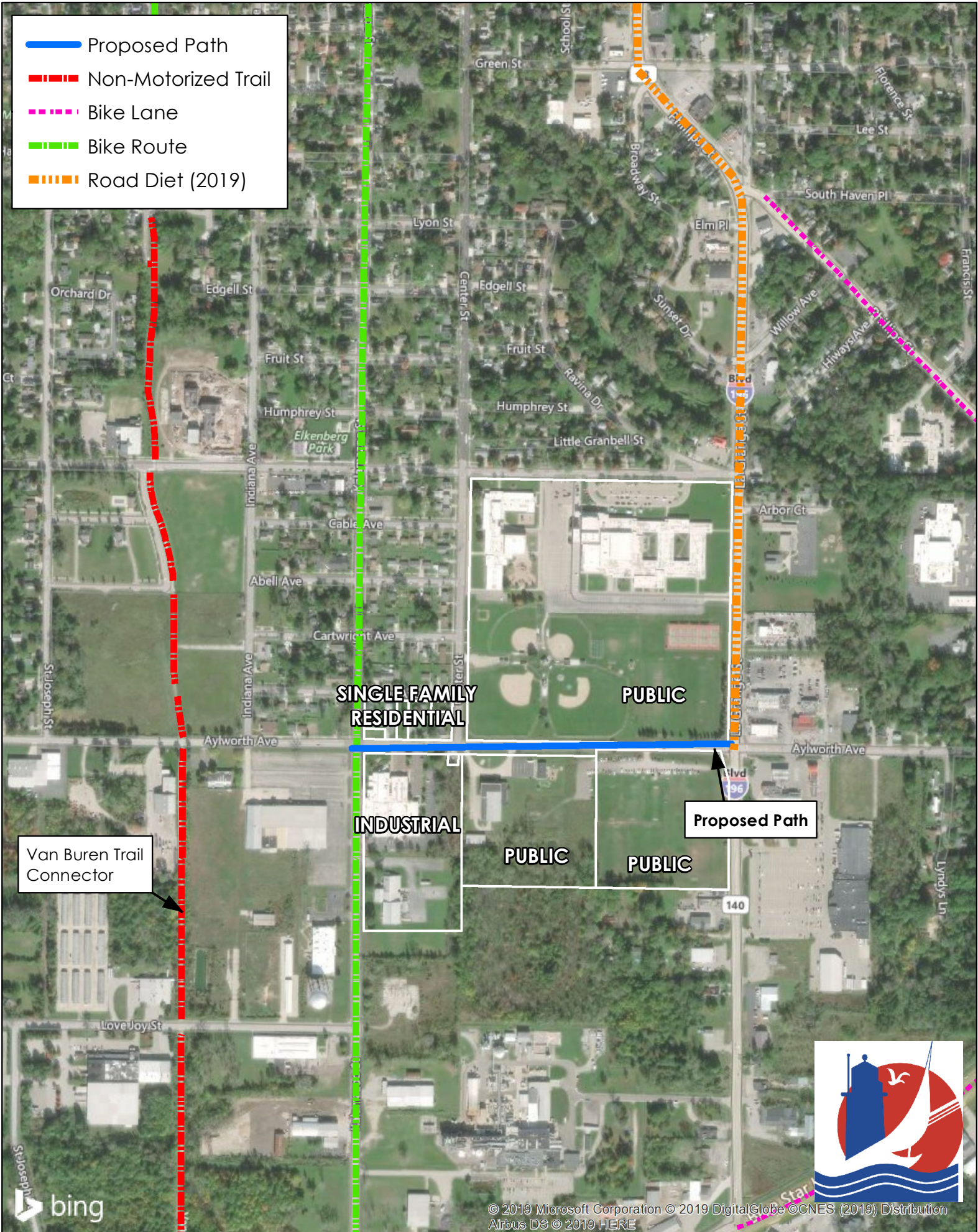
FISCAL YEAR
2022

Contact: If you should have any trouble with these worksheets please contact Matt Galbraith (517) 335-2938.

Line No.	Description of Data Item/Formula	VOC	NOx	CO	PM2.5
1	Length of pathway (mi)	0.34	0.34	0.34	0.34
2	Average Daily Traffic (ADT) along impacted roadways	2,200	2,200	2,200	2,200
3	VMT along primary parallel roadway=L1*L2 (mi/day)	748	748	748	748
4	Decimal percentage of pedestrian and bicycle travel	1%	1%	1%	1%
5	Total VMT diverted from automotive to pedestrian/ bicycle mode=L3*L4 (mi/day)	11.22	11.22	11.22	11.22
6	Average speed along impacted roadway(s) (mph)	35	35	35	35
7	Emission factor for speed on L6 (use passenger cars) (g/mi)	0.0736	0.2005	2.0034	0.119
8	Annual VMT reduction=L5*180 bike/walking days (mi)	2,019.600	2,019.600	2,019.600	2,019.600
9	Annual emission reduction=(L11)*180days (Kg/yr)	-0.149	-0.405	-4.046	-0.240
10	For compairative purpose only: Conversion to Tons/ Year=(L9*.0011Kg)	0.000	0.000	-0.004	0.000
11	Changes in Emissions=(L5*L7)(-1)/1000 (Kg/day)	-0.001	-0.002	-0.022	-0.001
12	Project design life in years (Yrs)	20	20	20	20
13	Total project cost for this application (CMAQ plus Match) (\$)	\$313,000.00	\$313,000.00	\$313,000.00	\$313,000.00
14	Emission reduction over the life of the project=L10*L12 (Tons/Life)	-0.003	-0.009	-0.089	-0.005
15	Emission reduction over the life of the project=(L9*L12) (Kg/Life)	-2.973	-8.099	-80.921	-4.807
16	Cost per Ton over the life of the project=(L13/L14) (\$/ Tons/Life)	\$95,712,800.44	\$35,135,377.85	\$3,516,324.51	\$59,197,337.07
17	Cost per Kilogram over the life of the project=(L13/ L15) (\$/Kg/Life)	\$105,286.39	\$38,648.67	\$3,867.95	\$65,118.14

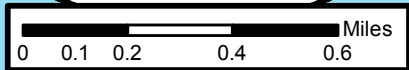
COMMENTS

-  Proposed Path
-  Non-Motorized Trail
-  Bike Lane
-  Bike Route
-  Road Diet (2019)



Bicycle Routes and Trails

City of South Haven



Lake Michigan

Newcome Access

Oak St Access

Packard Park

Dyckman Ave Access

Woodman St Access

Light House



South Beach

Van Buren Overlook



See reverse for detailed downtown attractions.

Legend

- Bicycle Routes
- Bike Lanes
- Non-Motorized Trails
- HarborWalk
- Trailheads
- Bike Rentals
- Museums
- Beaches
- Cemetery
- Parks
- Schools

Other

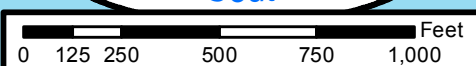
Biking Amenities

1. Kal-Haven RV Park
2. Kal-Haven Trailhead
3. The Outpost
4. Hotel Nichols
5. South Haven Visitors Bureau
6. Rock 'n' Road
7. Downtown Trailhead
8. Van Buren Trailhead

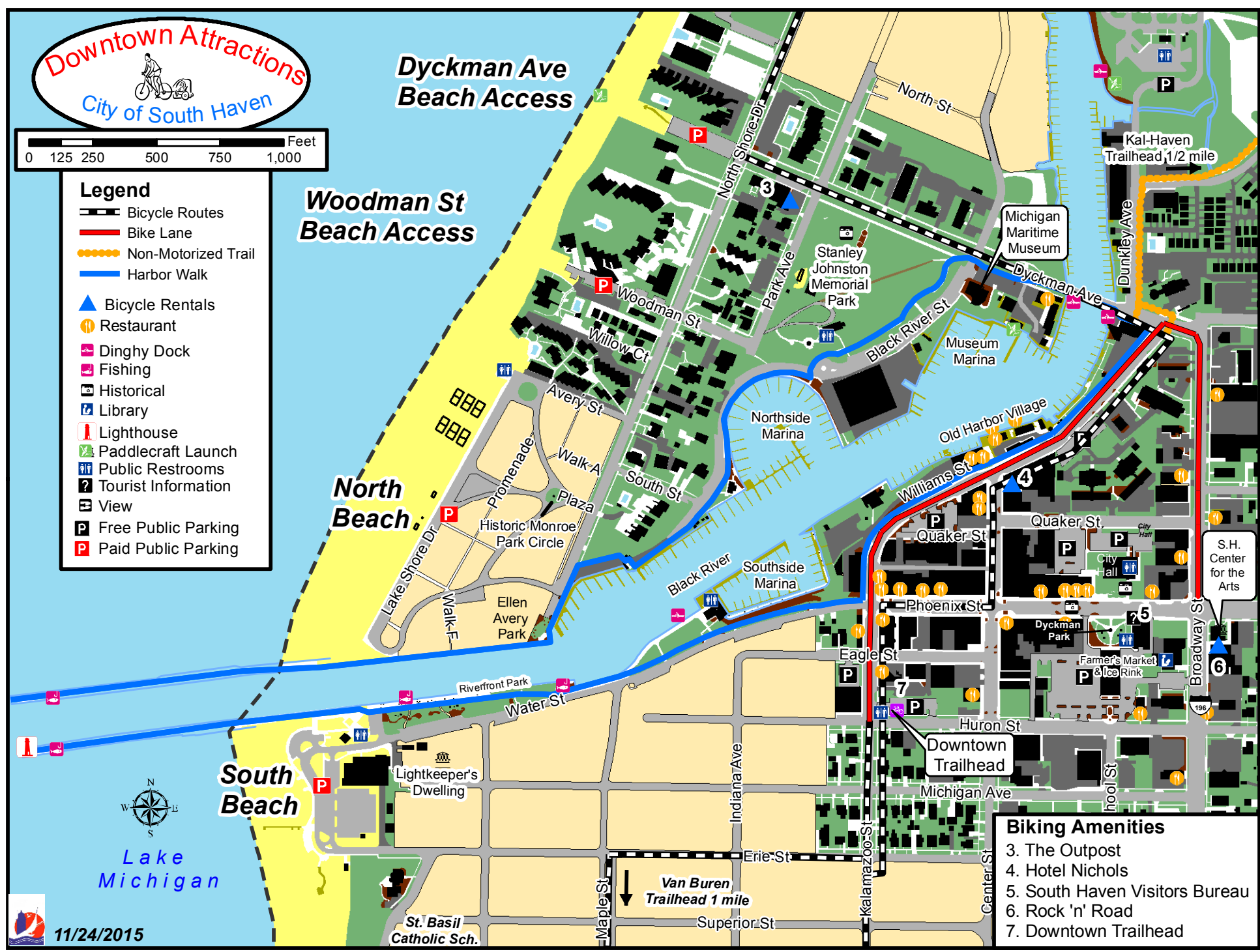
11/24/2015

Downtown Attractions

City of South Haven



- Legend**
- Bicycle Routes
 - Bike Lane
 - Non-Motorized Trail
 - Harbor Walk
 - Bicycle Rentals
 - Restaurant
 - Dinghy Dock
 - Fishing
 - Historical
 - Library
 - Lighthouse
 - Paddlecraft Launch
 - Public Restrooms
 - Tourist Information
 - View
 - Free Public Parking
 - Paid Public Parking



- Biking Amenities**
3. The Outpost
 4. Hotel Nichols
 5. South Haven Visitors Bureau
 6. Rock 'n' Road
 7. Downtown Trailhead

- **Detail the land uses that surround the path**

The path is surrounded by a mixture of commercial, residential and industrial zoned properties. The construction of the proposed path will provide safe non-motorized access to both workers and consumers reducing the need for a vehicle to safely get to work and purchase goods.

Additionally, there is an elementary school and high school on the property immediately to the south across the street from the proposed path. There are no sidewalks along this stretch of Aylworth meaning the path would create improved non-motorized access for students walking to and from the school property,

- **Explain how the path provides access to jobs, services, and centers of trade**

The proposed path would create a non-motorized path where there are currently no walks or paths for pedestrians.

The path will collect workers from the many business along the Aylworth Avenue/Kalamazoo Street corridor such as Vibracoustic, Earth Tech, and the South Haven Head Start Center to name a few and funnel to the commercial corridor along Le Grange Street that includes numerous service businesses and restaurants. Currently no sidewalks or paths exist between these two points. For example, Village Market Food Centers, Samuel Mancino's Italian Eatery, Little Caesars Pizza, South Haven Family Dentistry, and Bronson Hospital which are all within 0.5 miles of the path.

Not only will workers at area businesses benefit from the path but also residents of the adjoining residential neighborhood. The residential neighborhood on the south side of Aylworth has some of the highest densities in the community and the lower household median income. The creation of the path will help increase the overall safety of residents of the neighborhood to walk to same services and commercial area as either a customer or as an employee.

- **List all connections to other non-motorized paths, if applicable**

The proposed non-motorized path will connect to the existing bike route that runs north along Kalamazoo Street. If you continue to follow the existing bike route north you will reach the downtown South Haven Trailhead located at the corner of Kalamazoo St and Huron St. This trailhead connects to the Van Buren Trail which is a 14-mile long trail that runs between

Hartford and South Haven. The trailhead also allows access to the Kal-Haven Trail which spans 33.5 miles from Kalamazoo to South Haven. The Van Buren Trail is only 0.15 miles from the proposed path on Aylworth Street. In essence, the proposed path will create an important new non-motorized link between several established and planned non-motorized paths, trails and bike lanes in the community.

Congestion Mitigation and Air Quality Project Application

Click "Enable Editing" to begin filling out this form. You may save this form at any time.

Section 1. Applicant Information

Agency Name	City of South Haven		
Contact Name	Bill Hunter	Title	Director of Public Works
Phone Number	269-637-0737	Email	bhunter@south-haven.com

Section 2. Project Information

Project Name: Phoenix St Congestion Relief		Fiscal Year of Project: 2020	
City/Village/ Township: City of South Haven		County: Van Buren	
Project Location <i>(short description of where the project is located)</i>	The intersection of Phoenix St and Center St and the intersection of Phoenix St and Kalamazoo St.		
Which Emissions form is being used? (list the form name not the MDOT form number)	Congestion Reduction and Traffic Flow Improvements		
Work Description <i>(Short description of work being performed. Please provide enough information for eligibility to be determined)</i>	The proposed 24"x30", disappearing legend "No Left Turn" signs will be placed on the existing west bound mast arms and will be wired into the traffic signal controller. As the tourism industry has grown in terms both duration and overall numbers these two intersections regularly see delays between May and November every year. The situation reaches its peak between Memorial Day and Labor Day when only one or two cars can make a left turn movement due to the constant stream of cars between the highway and beach through the downtown. Eliminating left turns during these times will greatly reduce traffic congestion during the high season and shoulder months.		
Sponsor <i>(If different from Applicant)</i>			
Project Cost <i>Only include CMAQ eligible expenses</i>	Federal - CMAQ \$13248	State \$	Local \$3,312
			Total \$16,560

Section 3. Performance measures

Besides emissions reductions what other performance measures will the project	If you checked any of the Performance Measures please indicate how the project will improve them:
---	---

contribute to? *(select all that apply)*

- ☒ Safety
☐ Pavement Condition
☐ System Reliability
☐ Transit State of Good Repair

It will allow improved traffic flow at these two intersections and prevent vehicle backups. Currently the traffic will backup due to the allowed left turns and prevent more than one or two cars to pass through the signal during a cycle. This also prevents vehicles that are parked from being able to pull out during these backups. At times drivers get impatient and run red lights at the end of a cycle since very few vehicles have been able to proceed.

Section 4. Additional Questions

Question	Y/N	If Yes, Provide Brief Explanation of How the Application will meet these Criteria
Will the project be ready for obligation by July 1 of the year in which it's programmed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	The City of South Haven would have the project planned in the budget and available at the beginning of the fiscal year programmed.
Will this project use multiple funding sources/be combined with another Non-CMAQ project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is the project being carried out by a sponsored agency, or is a private entity providing funding, materials, or services in support of this project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Does the project require Right of Way (ROW) acquisition or an easement?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, attach a signed letter from that agency granting permission to implement all or part of this project in their right-of-way.

Section 5. Estimated Project Schedule

Activity	Estimated Date
Resolution of Support for Local Match Submitted to SWMPC	11/4/19
Project Application Submitted to MOT	12/03/19
Grade Inspection Package Submitted to MDOT	12/23/19
Grade Inspection Meeting Scheduled	1/6/20
Final Plan and Estimate to MDOT	3/20/20
Right of Way (ROW) certified	4/1/20
Rail Road Permits	N/A
Environmental Mitigation	N/A

Project Obligated	5/4/20
Project Letting	7/5/20
Construction Start	9/7/20
Project Completion	10/15/20

Enter NA for any activity that doesn't apply to the project.

Please remember to attach the emissions form/toolkit and any supplemental information when you submit the application

Intersection Improvements

This calculator will estimate the emission reductions resulting from improving traffic signals at a four-way intersection

INPUT

EXISTING CONDITIONS

Evaluation Year

2019

Area Type

Urban

Business District

Yes

Total peak hours per day(AM+PM)

4

Existing Intersection is

Select

Use the table below to estimate delay
(HCM 2010, Exhibit 21-1)

Level of Service Reference Table

LOS	Delay (s/veh)	
	Unsignalized Intersection	Signalized Intersections
A	0 - 10	0 - 10
B	>10 - 15	>10 - 20
C	>15 - 25	>20 - 35
D	>25 - 35	>35 - 55
E	>35 - 50	>55 - 80
F*	>50	>80

*LOS F typically indicates that traffic demand has exceeded capacity

Roadway 1

Roadway 2

Average Annual Daily Traffic volume (AADT) (both directions)

3,600

3,800

veh/day

Peak-hour Volume (both directions)

120

180

veh/hr

Number of Lanes (one direction)

1

1

Truck Percentage

1%

1%

Existing Delay per Vehicle

50

50

sec/veh

Existing Left-turn Phase

No

No

Existing Right-turn Phase

No

No

PROPOSED CONDITIONS

Cycle Length

0

seconds

Roadway 1

Roadway 2

Number of Left-Turn Lanes to Add (one direction)

0

0

Left-turn Phase

No

No

Right-turn Phase

No

No

Ratio of Green Time per Cycle Time

0.5

0.5

Last Calculated: 2/13/2019 3:41:35 PM

OUTPUT

Calculate Output

PERFORMANCE

ROADWAY

1

2

PEAK-HOUR

1

2

OFF-PEAK

1

2

Existing Capacity (both directions)

1604

1604

1604

1604

veh/hr

Proposed Capacity (both directions)

1604

1604

1604

1604

veh/hr

Volume (both directions)

120

180

156

154

veh/hr

Delay Reduction per vehicle

50.0

50.0

0.0

0.0

sec/veh

ROADWAY

1

2

Roadway Intersection Delay Reduction per day

6.7

10.0

hours

Total Intersection Delay Reduction per day

16.7

hours

EMISSION REDUCTIONS

	Pollutant	Peak Hours Kilograms/day	Off-Peak Hours Kilograms/day	Daily Total Kilograms/day	
	Carbon Monoxide (CO)	0.118	0.000	0.118	
	Particulate Matter <2.5 µm (PM _{2.5})	0.001	0.000	0.001	
	Particulate Matter <10 µm (PM ₁₀)	0.002	0.000	0.002	
	Nitrogen Oxide (NOx)	0.018	0.000	0.018	
	Volatile Organic Compounds (VOC)	0.010	0.000	0.010	

Intersection Improvements

This calculator will estimate the emission reductions resulting from improving traffic signals at a four-way intersection

INPUT

EXISTING CONDITIONS

Evaluation Year

2019

Area Type

Urban

Business District

Yes

Total peak hours per day(AM+PM)

4

Existing Intersection is

Select

Use the table below to estimate delay
(HCM 2010, Exhibit 21-1)

Level of Service Reference Table

LOS	Delay (s/veh)	
	Unsignalized Intersection	Signalized Intersections
A	0 - 10	0 - 10
B	>10 - 15	>10 - 20
C	>15 - 25	>20 - 35
D	>25 - 35	>35 - 55
E	>35 - 50	>55 - 80
F*	>50	>80

*LOS F typically indicates that traffic demand has exceeded capacity

Roadway 1

Roadway 2

Average Annual Daily Traffic volume (AADT) (both directions)

3,800

3,500

veh/day

Peak-hour Volume (both directions)

170

95

veh/hr

Number of Lanes (one direction)

1

1

Truck Percentage

1%

1%

Existing Delay per Vehicle

50

50

sec/veh

Existing Left-turn Phase

No

No

Existing Right-turn Phase

No

No

PROPOSED CONDITIONS

Cycle Length

0

seconds

Roadway 1

Roadway 2

Number of Left-Turn Lanes to Add (one direction)

0

0

Left-turn Phase

No

No

Right-turn Phase

No

No

Ratio of Green Time per Cycle Time

0.5

0.5

Last Calculated: 2/13/2019 2:18:46 PM

OUTPUT

Calculate Output

PERFORMANCE

ROADWAY

1

2

PEAK-HOUR

1

2

OFF-PEAK

1

2

Existing Capacity (both directions)

1604

1604

1604

1604

veh/hr

Proposed Capacity (both directions)

1604

1604

1604

1604

veh/hr

Volume (both directions)

170

95

156

156

veh/hr

Delay Reduction per vehicle

50.0

50.0

0.0

0.0

sec/veh

Roadway

1

2

Roadway Intersection Delay Reduction per day

9.4

5.3

hours

Total Intersection Delay Reduction per day

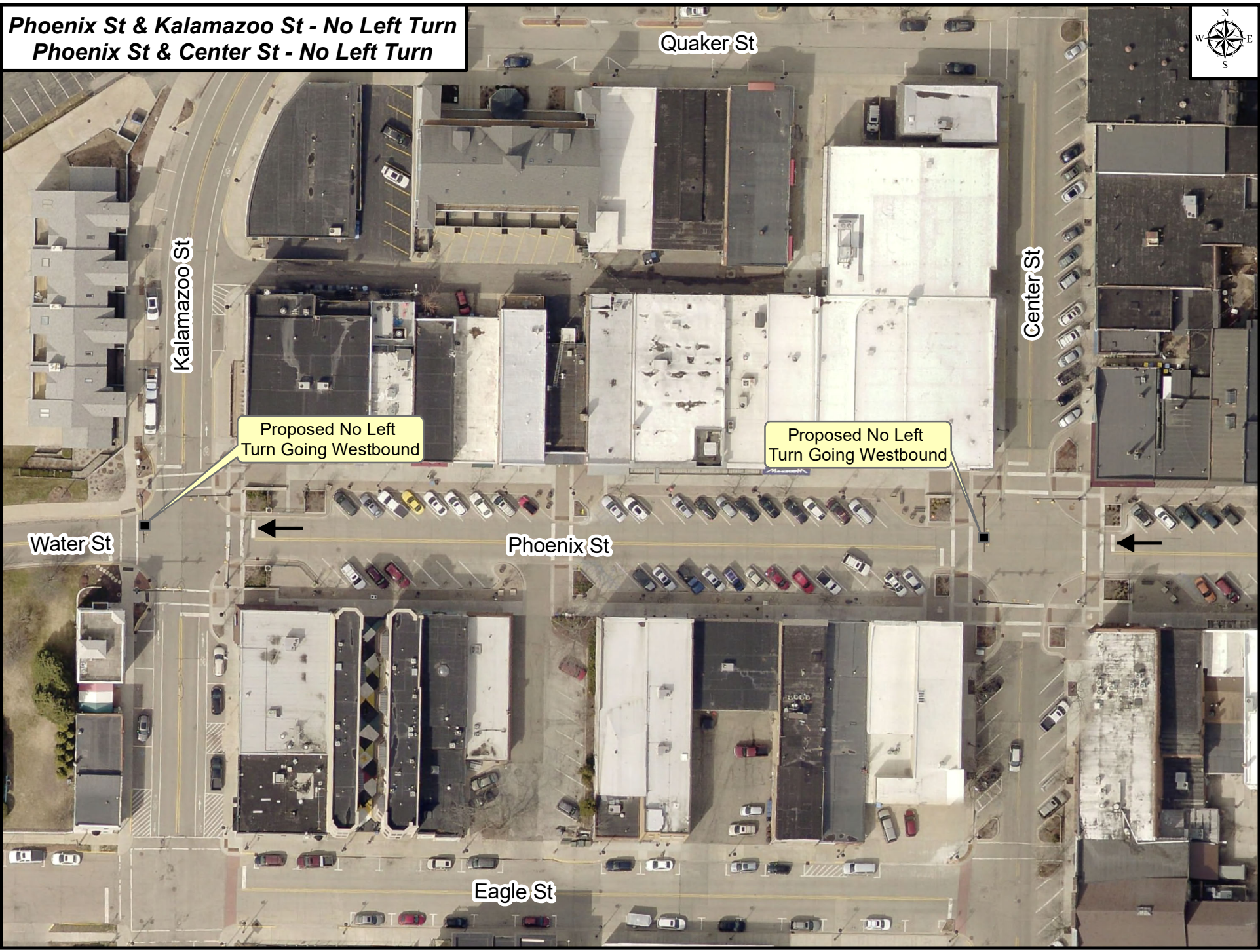
14.7

hours

EMISSION REDUCTIONS

	Pollutant	Peak Hours Kilograms/day	Off-Peak Hours Kilograms/day	Daily Total Kilograms/day	
	Carbon Monoxide (CO)	0.104	0.000	0.104	
	Particulate Matter <2.5 µm (PM _{2.5})	0.001	0.000	0.001	
	Particulate Matter <10 µm (PM ₁₀)	0.001	0.000	0.001	
	Nitrogen Oxide (NOx)	0.016	0.000	0.016	
	Volatile Organic Compounds (VOC)	0.009	0.000	0.009	

Phoenix St & Kalamazoo St - No Left Turn
Phoenix St & Center St - No Left Turn



Proposed No Left
Turn Going Westbound

Proposed No Left
Turn Going Westbound

Water St

Phoenix St

Center St

Quaker St

Eagle St

Kalamazoo St

Congestion Mitigation and Air Quality Project Application Instructions

How to apply

Please fill out both the CMAQ application (page 3) and the appropriate emissions form. Additional Information may be required based on the project type (See below).

All applications are due on Monday December 12, 2018.

Please email the completed application, emissions form and any other required information to both Brandon Kovnat at kovnatb@swmpc.org AND Kim Gallagher at gallagherk@swmpc.org. Please include "CMAQ Application" in the subject line

Additional Information is required for the following projects:

Carpool Lot Expansion

- Indicate the number of spaces
- Indicated how many users you expect

Dedicated Turn Lanes

- Indicate the length of the lanes
- Indicate traffic counts,

Intersection Improvements

- Include a diagram of the modification

Non-Motorized Paths

Eligible if they are not exclusively recreational and if they reduce vehicle trips

- Please include maps detailing the location of the proposed path
- Detail the land uses that surround the path
- Explain how the path provides access to jobs, services, and centers of trade
- List all connections to other non-motorized paths, if applicable

Signal Interconnection

- Include all locations in the Location Description
- Indicate the number of signals in the Work Description

Traffic Operations Center (TOC)

- Please list specific activities to be funded

Transit

- Vehicle lease/purchase : how many will be leased or purchased
- Operating Assistance: specify which years are being requested (year 1, 2, 3 and/or 3)
- Equipment: type to be funded

Carpooling/Vanpooling (RideShare)

- Specify if Marketing or Capital (or both)

Emissions forms to Use

For the following projects use the appropriate FHWA Emission Toolkit which can be found at: https://www.fhwa.dot.gov/environment/air_quality/cmaq/toolkit/ or they can be downloaded through the links below (opens as an excel file):

Project Category	FHWA Emissions Toolkit
Dedicated Turn Lanes	Congestion Reduction and traffic Flow Improvements
Signal Interconnects	
Signal Optimization or Actuation, not part of an interconnect project	
Roundabouts	
Rideshare/vanpooling:	Carpooling and Vanpooling
Operation of New Public Transit Services	Transit Bus and Fleet Expansion
Bus Purchase or Replacements	Transit Bus Retrofits and Replacement Transit Bus and Fleet Expansion*
Diesel Retrofits / Truck Replacements	Advanced Diesel Truck/Engine Technologies
Alternative Fuels and Vehicles Projects	Alternative Fuels and Vehicles

*use this toolkit for gasoline vehicles.

For the following projects use the appropriate MDOT Emissions Form which can be found on MDOT's CMAQ page at: https://www.michigan.gov/mdot/0,4616,7-151-9621_11041_60661---.00.html or you open them directly through the links below (Fillable pdf forms)

Note that the forms only work with Internet Explorer

Project Category	Emissions Form
Other Project (may need additional details)	MDOT Form 2608
Intelligent Transportation System (ITS)	MDOT Form 2612
Park and Ride Lots	MDOT Form 2613
Traffic Operations Centers Operations	MDOT Form 2616
Travel Demand Management Program	MDOT Form 2619
Non-Motorized Pathways	MDOT Form 2621

Congestion Mitigation and Air Quality Project Application

Click "Enable Editing" to begin filling out this form. You may save this form at any time.

Section 1. Applicant Information

Agency Name	City of South Haven		
Contact Name	Bill Hunter	Title	Director of Public Works
Phone Number	269-637-0737	Email	bhunter@south-haven.com

Section 2. Project Information

Project Name: Public Electric Vehicle (EV) Quick Charging Station		Fiscal Year of Project: 2020	
City/Village/ Township: City of South Haven		County: Van Buren	
Project Location <i>(short description of where the project is located)</i>	Huron Street parking lot in the City of South Haven which is the primary municipal parking lot serving the commercial business district and civic institutions such as the library, post office, and art center. Not only is this area the largest public parking lot in the downtown area, it is also home to the pavilion which is home to the South Haven Farmer's Market which draws people from throughout the region and as the community skating rink in the winter.		
Which Emissions form is being used? (list the form name not the MDOT form number)	On Road Alternative Fuel Vehicle Purchase		
Work Description <i>(Short description of work being performed. Please provide enough information for eligibility to be determined)</i>	The City is proposing to install two public use EV charging stations in the Huron Street lot and designate the area for exclusive use of EVs. Availability of these stations will be noted on the City's website and information distributed to local merchants to raise awareness about their availability.		
Sponsor <i>(If different from Applicant)</i>			
Project Cost <i>Only include CMAQ eligible expenses</i>	Federal - CMAQ \$32000	State \$	Local \$8000 Total \$40000

Section 3. Performance measures

Besides emissions reductions what other performance measures will the project	If you checked any of the Performance Measures please indicate how the project will improve them:
---	---

contribute to? *(select all that apply)*

- ☐ Safety
☐ Pavement Condition
☐ System Reliability
☐ Transit State of Good Repair

Section 4. Additional Questions

Question	Y/N	If Yes, Provide Brief Explanation of How the Application will meet these Criteria
Will the project be ready for obligation by July 1 of the year in which it's programmed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	The City of South Haven will have the project planned and funding available for match purposes. The project includes minimal design work and no easements will be necessary for construction as all work will be on City owned property
Will this project use multiple funding sources/be combined with another Non-CMAQ project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is the project being carried out by a sponsored agency, or is a private entity providing funding, materials, or services in support of this project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Does the project require Right of Way (ROW) acquisition or an easement?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, attach a signed letter from that agency granting permission to implement all or part of this project in their right-of-way.

Section 5. Estimated Project Schedule

Activity	Estimated Date
Resolution of Support for Local Match Submitted to SWMPC	11/4/19
Project Application Submitted to MOT	12/03/19
Grade Inspection Package Submitted to MDOT	12/23/19
Grade Inspection Meeting Scheduled	1/6/20
Final Plan and Estimate to MDOT	3/20/20
Right of Way (ROW) certified	4/1/20
Rail Road Permits	N/A
Environmental Mitigation	N/A
Project Obligated	5/4/20
Project Letting	7/5/20
Construction Start	9/7/20

Project Completion	11/1/20
--------------------	---------

Enter NA for any activity that doesn't apply to the project.

Please remember to attach the emissions form/toolkit and any supplemental information when you submit the application



On-Road Alternative Fuel Vehicle Purchase

This calculator will estimate the reduction in emissions when purchasing alternative fuel vehicles to replace a conventional fuel vehicle fleet. It does not consider lifecycle emissions, particularly any emissions outside of vehicle operations. Alternative fuel transit buses are included in a separate tool.

Navigator

- On-Road Alternative Fuel Vehicle Purchase
- Restricted Infrastructure
- Unrestricted Infrastructure

INPUT

(1) What is your project evaluation year?

2020

(2) Please input the total annual activity and population expected for your new alternative fuel vehicle fleet
Note: You must at least enter one value for fleet activity

Fleet Activity

☒ Vehicle Miles Traveled (VMT)
☒ Vehicle Population

40,000

2

Annual Miles Traveled by Fleet
Fleet Population (# of Vehicles)

(3) What type of vehicle(s) are you replacing?

Passenger Car

(4) What is the model year of the vehicle(s) you are replacing?

2014

(5) Which conventional fuel are you replacing?

Gasoline

(6) What is the model year of the alternative fuel vehicle(s) to be purchased?

2020

(7) What alternative fuel will your new vehicle(s) use?

Battery Electric (BEV)

OUTPUT

FLEET PERFORMANCE

20,000

Average Annual Miles Traveled per Vehicle

40,000

Annual Miles Traveled by Fleet

EMISSION REDUCTIONS

	Pollutant	Total kg/day	
	Carbon Monoxide (CO)	0.305	
	Nitrogen Oxide (NOx)	0.011	
	Particulate Matter <2.5 µm (PM _{2.5})	0.000	
	Particulate Matter <10 µm (PM ₁₀)	0.000	
	Volatile Organic Compounds (VOC)	0.009	

City of South Haven

Electric Vehicle Charging Station Location



Congestion Mitigation and Air Quality Project Application

Click "Enable Editing" to begin filling out this form. You may save this form at any time.

Section 1. Applicant Information

Agency Name	City of South Haven		
Contact Name	Bill Hunter	Title	Director of Public Works
Phone Number	269-637-0737	Email	bhunter@south-haven.com

Section 2. Project Information

Project Name: Phoenix Road Multi-Use Path Extension		Fiscal Year of Project: 2021		
City/Village/ Township: City of South Haven		County: Van Burren		
Project Location <i>(short description of where the project is located)</i>	The proposed nonmotorized trail is located along the north side of Phoenix Street in South Haven, Michigan between US31 and Veterans Boulevard.			
Which Emissions form is being used? (list the form name not the MDOT form number)	MDOT Form 2621			
Work Description <i>(Short description of work being performed. Please provide enough information for eligibility to be determined)</i>	The proposed 10' wide path would extend the existing multi-use path that currently ends at the intersection of Phoenix Road and 73 rd Street further to the east. The path would provide a non-motorized route to access the downtown of South Haven to the hotels, restaurants, and manufacturing operations that are located east of 73 rd Street.			
Sponsor <i>(If different from Applicant)</i>				
Project Cost <i>Only include CMAQ eligible expenses</i>	Federal - CMAQ \$144783	State \$	Local \$96253.95	Total \$241036.95

Section 3. Performance measures

Besides emissions reductions what other performance measures will the project contribute to? <i>(select all that apply)</i> <input checked="" type="checkbox"/> Safety <input type="checkbox"/> Pavement Condition <input type="checkbox"/> System Reliability	If you checked any of the Performance Measures please indicate how the project will improve them: The proposed project would provide a safe non-motorized trail for over 500 workers that work at the following local businesses: Riveer, Spenser Manufacturing, Trellebor, Food Tools, Mitchell Morris Survey, Kidzone, Lake Michigan College, Walmart and many other smaller businesses. The path would also provide the same opportunity for consumers to
---	---

<input type="checkbox"/> Transit State of Good Repair	travel to two different shopping centers that house multiple smaller businesses to shop or dine at.
---	---

Section 4. Additional Questions

Question	Y/N	If Yes, Provide Brief Explanation of How the Application will meet these Criteria
Will the project be ready for obligation by July 1 of the year in which it's programmed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Will this project use multiple funding sources/be combined with another Non-CMAQ project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is the project being carried out by a sponsored agency, or is a private entity providing funding, materials, or services in support of this project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Does the project require Right of Way (ROW) acquisition or an easement?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, attach a signed letter from that agency granting permission to implement all or part of this project in their right-of-way.

Section 5. Estimated Project Schedule

Activity	Estimated Date
Resolution of Support for Local Match Submitted to SWMPC	3/1/20
Project Application Submitted to MOT	12/12/18
Grade Inspection Package Submitted to MDOT	6/15/20
Grade Inspection Meeting Scheduled	7/17/20
Final Plan and Estimate to MDOT	8/3/20
Right of Way (ROW) certified	8/28/20
Rail Road Permits	N/A
Environmental Mitigation	N/A
Project Obligated	10/1/20
Project Letting	11/2/20
Construction Start	5/3/21
Project Completion	7/1/21

Enter NA for any activity that doesn't apply to the project.

Please remember to attach the emissions form/toolkit and any supplemental information when you submit the application

PROJECT NAME
Phoenix Rd Multi-Use Path Extension

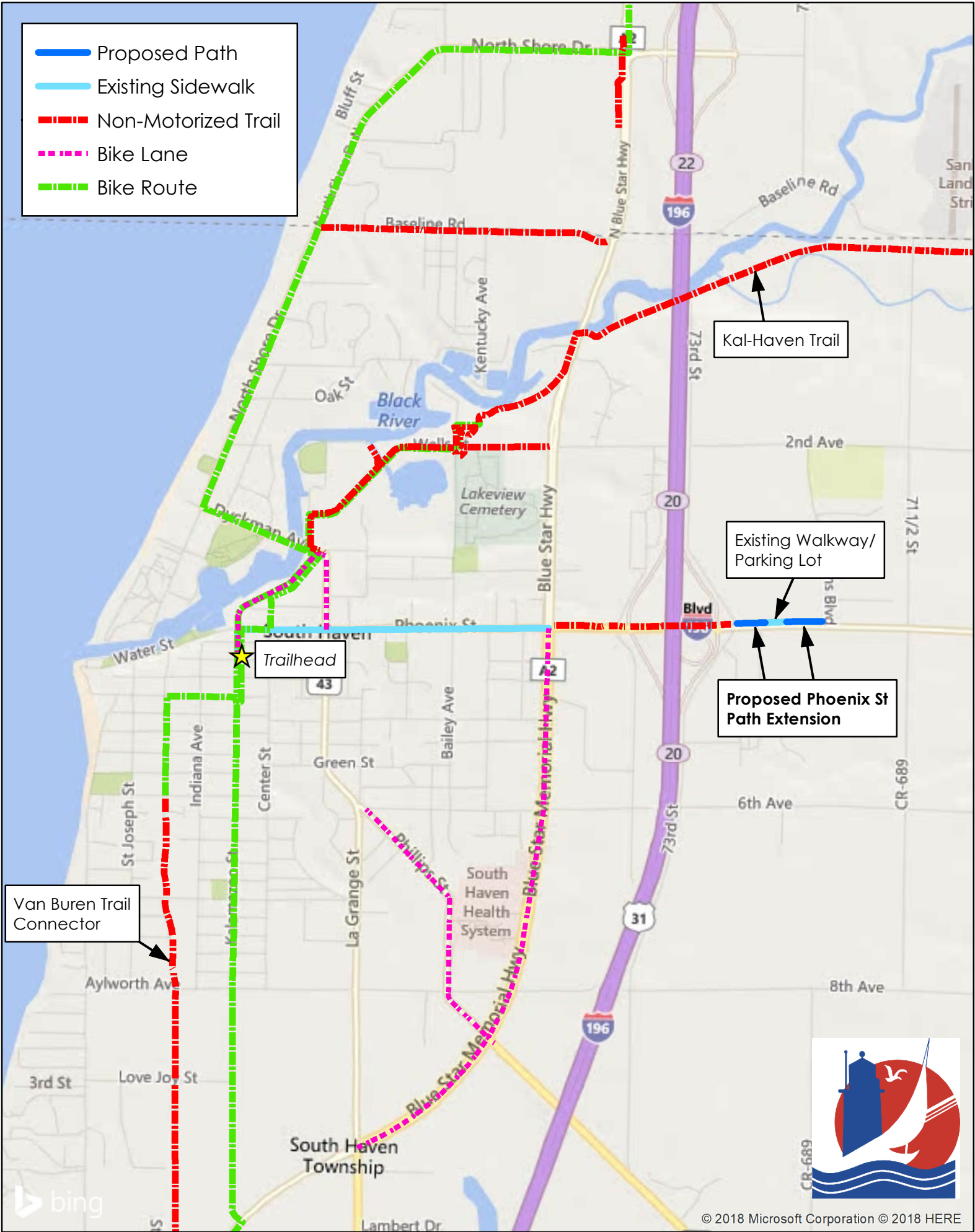
SUBMITTER
City of South Haven

FISCAL YEAR
2020

Contact: If you should have any trouble with these worksheets please contact Matt Galbraith (517) 335-2938.

Line No.	Description of Data Item/Formula	VOC	NOx	CO	PM2.5
1	Length of pathway (mi)	0.23	0.23	0.23	0.23
2	Average Daily Traffic (ADT) along impacted roadways	5,374	5,374	5,374	5,374
3	VMT along primary parallel roadway=L1*L2 (mi/day)	1,236.02	1,236.02	1,236.02	1,236.02
4	Decimal percentage of pedestrian and bicycle travel	1%	1%	1%	1%
5	Total VMT diverted from automotive to pedestrian/ bicycle mode=L3*L4 (mi/day)	12.3602	12.3602	12.3602	12.3602
6	Average speed along impacted roadway(s) (mph)	45	45	45	45
7	Emission factor for speed on L6 (use passenger cars) (g/mi)	0.0736	0.2005	2.0034	0.119
8	Annual VMT reduction=L5*180 bike/walking days (mi)	2,224.836	2,224.836	2,224.836	2,224.836
9	Annual emission reduction=(L11)*180days (Kg/yr)	-0.164	-0.446	-4.457	-0.265
10	For compairative purpose only: Conversion to Tons/ Year=(L9*.0011Kg)	0.000	0.000	-0.005	0.000
11	Changes in Emissions=(L5*L7)(-1)/1000 (Kg/day)	-0.001	-0.002	-0.025	-0.001
12	Project design life in years (Yrs)	20	20	20	20
13	Total project cost for this application (CMAQ plus Match) (\$)	\$241,036.95	\$241,036.95	\$241,036.95	\$241,036.95
14	Emission reduction over the life of the project=L10*L12 (Tons/Life)	-0.004	-0.010	-0.098	-0.006
15	Emission reduction over the life of the project=(L9*L12) (Kg/Life)	-3.275	-8.922	-89.145	-5.295
16	Cost per Ton over the life of the project=(L13/L14) (\$/ Tons/Life)	\$66,910,101.60	\$24,561,021.22	\$2,458,075.84	\$41,382,575.63
17	Cost per Kilogram over the life of the project=(L13/ L15) (\$/Kg/Life)	\$73,600.06	\$27,017.26	\$2,703.88	\$45,520.79

COMMENTS
The proposed path would extend the existing multi-use path that currently ends at the intersection of Phoenix Rd and 73rd St further to the east. The path would provide a route to access the downtown of South Haven to the hotels and restaurants that are located east of 73rd St.



- **Detail the land uses that surround the path**

The path is surrounded by a mixture of commercial and industrial zoned properties. The construction of the proposed path will provide safe non-motorized access to both workers and consumers reducing the need for a vehicle to safely get to work and purchase goods.

- **Explain how the path provides access to jobs, services, and centers of trade**

The proposed path would connect to the existing non-motorized path along Phoenix Street that heads west until arriving at Lake Michigan. This path would allow pedestrians to walk or bike to or from their residence, place of employment, local businesses, downtown, hotels, or the beach safely.

The path will provide improved non-motorized access to a wide range of employers and retail establishments including Tractor Supply, Walmart, Dollar General, Rent-A-Center, Sherman's Dairy Bar, McDonalds, Consumers Credit Union, Baymount Hotel, Holiday Inn Express & Suites, Comfort Suites, two small shopping centers with multiple businesses, and over a dozen employers in one of the community's industrial parks that provide hundreds of jobs to local residents.

- **List all connections to other non-motorized paths, if applicable**

The proposed non-motorized trail will connect to the existing non-motorized path that runs west along Phoenix St beginning at 73rd Street. This existing trail connects to bike lanes along Blue Star Memorial Highway heading south. If you continue to follow the existing non-motorized trail west along Phoenix St you will be able to follow sidewalks to reach the downtown South Haven Trailhead located at the corner of Kalamazoo St and Huron St. This trailhead connects to the Van Buren Trail which is a 14-mile long trail that runs between Hartford and South Haven. The trailhead also allows access to the Kal-Haven Trail which spans 33.5 miles from Kalamazoo to South Haven.