# **EXHIBIT SUMMARY SHEET**

Proposing Entity (include	other participating e	ntities): Tahoe Tru	ckee Unified School District	
Contact Person: Tony Lav	ezzo			
Address: 12485 Joerger De	r., Truckee, CA 9616	1		
Phone #: (530) 550-0776	FAX #: (53	90) 550-0739	EMAIL: tlavezzo@ttusd.oi	ra
Total Project Budget:	4 <b>5</b> 2 5 4 5			'5
Comital Cart	AB 2766 Funds	Co-Funding	Total Project Costs	S
Capital Costs	\$ 120,000.00	<u>\$ 25,770.90</u>	<u>\$ 142,769.13</u>	
Operating Costs	\$ 0	\$ 0	\$ 0	
TOTAL	<u>\$ 120,000.00</u>	\$ 25,770,90	<u>\$ 142,769.13</u>	
Type of Project: (check	one)			
Quantifia	ble Project			
X Reduced I	Emission Vehicles Pr	roject		
Implementation Area for	Project: Check	if District-wide X	6	
Describe the Imploperated in the Town of Tr	lementation Area for uckee, Nevada Cour	or the Project (e.g	g. city, county, region): Bu	ıs will be
Estimated Emission Redu			_	
A. Emission Reductio	ns (lbs. /yr.)			
Reactive Organic (	Bases <u>83.55</u> N	litrogen Oxides 812	2.59 PM <sub>10</sub> 42.87	
B. Vehicle Miles Trav	eled (VMT) Reduce	d0_		
Single Occupancy	Vehicle Trips Reduc	ed <u>0</u>		W.L.
C. Number of people i	eached per day throu	ugh public education	o <b>n</b>	Jui 1 2 <b>2019</b>
Cost-effectiveness:	\$ 10.22 per por		·	() (
Brief Project Description: Replace one older school system.	bus with a new bus	s that employs a l	NOx and PM emission co	ontrol

# REQUEST FOR PROPOSAL CONTENTS CHECKLIST

Applicant:	Tahoe Truckee Unified School District
Please comple	ete and attach this checklist with your application.
1	Exhibit Summary Sheet - page 1
1	Request for Proposal Contents Checklist - page 2
J	Authorization Letter/Resolution - page 3
J	Project Description - page 4
1	Project Organization/Background - page 5
J	Emissions Benefits/Cost-Effectiveness - page 6
J	Work Statement - page 2
1	Funding Request/Breakdown of Cost – page 2
J	Schedule of Deliverables/Monitoring - page 10
	All Pages Numbered
1	Three Copies Of Proposal Plus One Original
	(CHECK ONE ONLY)
	Quantifiable Project
	- OR -
	Reduced Emission Vehicles Project



#### PATHYMAYE TO POSSIBILITIES AND STUDENT SUDCESS

District Office Hotort J. Lon (s) 1)

603 Danner Pare Rd

Goard of Trustees Ken Because

Kiratou Livak

Ontro Hannessey

Curpler Limer

(Hanna Deltar

Siementary Schools

Donnet frat Ehtersten Gherriten La monary Grand Honen Grand Hammelay Tanno Laso Hammelay Tension Gherrana

> Historia Schools Alter Creek Middle North Talten Histori

High Schools Cold Sream Alicerative North Telesi High Sepra Hun Tahan Trackon High June 20, 2019

Northern Stotta Air Quality Management District PD Bux 2509 Grass Valley, CA 95945

Dear Northern Sterm Air Quality Management District,

The following individual(s) are authorized to a proposal on behalf of Tables Truckee Unified School District

Project Managers for the Proposal.

Nanctic Rondon
Director of Transportation
12485 Joerger Rd
Frickee, CA 96161
1530) 550-0745 or prondenuclettand.org

Tony Luveza Fleet Manager 1 2485 Jurger Rd Truckee, CA 96161 (510) 550-0761 or (530) 550-0745 or tlavezzaja trusd org

Authorned Signess of the Proposal

Finds Rivers
Executive Official of Fiscal Services
11603 Donner Pass Rd
Truckee, CA 96161
(534) 582 2541 or inverse must one

Robert J. Leri. Ed.D.

Supermendent Clinet Familie Office.

11603 Donner Pass Rd

Trickee. CA 96161

(\$30) \$82-2550 or rien@ Build.org

Robert J. Len. Ed.D.

Superintendent Chief Learning Officer

Signature. /// 3

Date

JUN 2 5 2019

Cruz erer 200

## **Project Description**

The objective of the Low NOx Special Needs School Bus Replacement project is to replace an older diesel vehicle with a newer vehicle that has a NOx and PM emission control device. The older diesel vehicle, like the one outlined in the project, can only be retrofitted for the control of PM emissions not NOx. NOx is harmful atmospheric pollutant known for contributing to smog and acid rain. The only way to reduce the NOx created by the vehicle in question is to replace it with a new vehicle that will employ NOx controlling technology.

This project would take a 1993 diesel special needs school bus off the road and replace it with a 2019 diesel special needs school bus that would employ the latest NOx and PM control strategies. The new 42 passenger diesel special needs school bus will exceed 2010 NOx control requirements for heavy duty diesel vehicles. With the replacement of the older school bus it would lower the NOx and PM emissions created in the region. This would ensure less exposure to children at school sites and less exposure to residents throughout the community.

# Project Organization/Background

### Tahoe Truckee Unified School District (TTUSD):

The Tahoe Truckee Unified School District Transportation Department provides transportation to 3,000 students covering over 400,000 miles a year. The fleet of over 30 school buses operates from Kingvale on Donner Summit to Hirschdale on Highway 80 towards Reno, from Tahoma on the Westshore of Lake Tahoe to Prosser on the North end of Highway 89.

The District is actively working towards reducing the impact of diesel emissions within the Tahoe Truckee School District community. Buses are replaced with the newest, cleanest, diesel technology when district funds are available, or the district applies for grants when funds are not available. In the past, TTUSD has been awarded funding for the replacement of old buses with new clean school buses. For the buses that did not qualify for replacement, TTUSD has been awarded funding for PM controlling retrofits that do not control NOx. The next step for a cleaner fleet is to replace the older buses with new buses that employ NOx controlling SCR technology.

This proposal is to replace one school bus with a new school bus that will employ the latest NOx and PM emissions control technology. TTUSD will purchase the bus through Buswest. Below is information on Buswest, the company we have selected.

#### Buswest:

Buswest is a transportation dealer-distributor serving the education, government, public sector, commercial and private fleet markets with a broad portfolio of bus solutions. Buswest Specializes in Thomas Built Buses (TBB) and offer a full range of new and used buses. From the largest to the smallest, wheelchair access/ADA compliant and more. All Buswest school buses are rigorously tested to make sure they meet or exceed all Federal and State safety standards. Buswest is part of the Velocity Vehicle Group and has multiple sales and service locations serving California, Arizona, Nevada, and Hawaii.

#### ACCOUNTING:

Buswest will provide a single invoice for the vehicle, taxes, and any other fees or options. The invoice will be recorded through the normal Tahoe Truckee Unified School District accounting management system, as required. Grant funds will be received by TTUSD in a onetime lump sum payment and put towards the total cost of the purchase. The remaining balance will be paid by TTUSD.

# **Emissions Benefits/Cost Effectiveness**

Under this proposal, one school bus will be replaced with a new diesel school bus that will employ the latest NOx and PM control strategies. This system will provide a very substantial drop in NOx emissions. The calculations for these reductions are listed below. In addition to NOx reductions, the system on the new buses will lower PM emissions by over 85 percent. This is critical to the drivers, students, and communities in which the buses operate because currently no NOx emission control strategy available for the bus must be replaced.

Due to the lower speeds of school bus routes the Methods to Find the Cost-Effectiveness of Funding Air Quality Projects - 2005 Edition table 1: Diesel Bus Emissions Factors do not give accurate emissions factors. The following calculations will be based on the California Executive Order for the vehicle to be replaced and the new vehicle. The information below includes both engines and the Executive Order will be attached in the technical appendices:

1993 International/Bluebird

EO: A-4-149

EPA Engine Family: PNV0466FPC4

Horsepower: 210 bhp PM: 0.10 g/bhp-hr

NMHC (ROG): 1.3 g/bhp-hr

NOx: 4.0 g/bhp-hr

2019 Thomas C2 EO: G-14-012

EPA Engine Family: KCEXH0408BAT

Horsepower: 260 bhp PM: 0.001 g/bhp-hr

NMHC (ROG): .03 g/bhp-hr

NOx: .15 g/bhp-hr

#### Engine hours:

Engine hours are captured from our Zonar GPS tracking system that is installed on all TTUSD's vehicles. This vehicle has been uses as a spare and has swapped routes. To collect useable data a 4-year average of 388 hours were used in calculations.

TO TWI			STATISTICS NAME OF	
				20000
the same of	11/20/2014 5:58am	11/20/2018 11.38am	5063.2	1548.7



# Emissions Benefits/Cost Effectiveness (continued)

## Vehicle to be Replaced Emissions Calculation

Annual NMHC (ROG) in Grams = (NMHC x Annual Hours) x Horsepower 40,740g = (.5 x 388) x 210
Annual NMHC (ROG) in Grams : Grams to Lbs. conversion factor = Annual NMHC in lbs. 40,740g + 454 = 83.55 lbs.

Annual NOx in Grams = (NOx x Annual Hours) x Horsepower

382,956g = (4.7 x 388) x 210

Annual NOx in Grams = Grams to Lbs. conversion factor = Annual NOx in Lbs.

382,956g = 454 = 812.59 lbs.

Annual PM in Grams =  $(PM \times Annual \text{ Hours}) \times \text{Horsepower}$ 19,555g =  $(.24 \times 388) \times 210$ Annual PM in Grams = Grams to Lbs. conversion factor = Annual PM in Lbs. 19,555g ÷ 454 = 42.87 lbs.

ROG:	00.65 11
	83.55 lbs.
NOx:	812.59 lbs.
PM:	42.87 lbs.
Total Emissions:	976.32 lbs.

#### **New Vehicle Emissions Calculation**

Annual NMHC (ROG) in Grams = (NMHC x Annual Hours) x Horsepower 2,444.4g = (.03 x 388) x 260
Annual NMHC (ROG) in Grams = Grams to Lbs. conversion factor = Annual NMHC in lbs. 2.444g = 454 = 6.19lbs.

Annual NOx in Grams = (NOx x Annual Hours) x Horsepower
12,222g = (.15 x 388) x 260
Annual NOx in Grams = Grams to Lbs. conversion factor = Annual NOx in lbs.
12,222g + 454 = 30.93 lbs.

Annual PM in Grams = (PM x Annual Hours) x Horsepower

81.48g = (.001 x 388) x 260

Annual PM in Grams = Grams to Lbs. conversion factor = Annual PM in lbs.

81.48g - 454 = .21lbs.

ROG:	6,19 lbs.
NOx:	30.93 lbs.
PM:	.21 lbs.
Total Emissions:	37.32 lbs.

# Emissions Benefits/Cost Effectiveness (continued)

ROG:	83.55 lbs.
NOx	812.59 lbs.
PM:	42.87 lbs.
Total Emissions Reduction:	939.01 lbs.

#### Cost Effectiveness/ Capitol Recovery

AB 2766 Funds:	\$120,000.00
TTUSD Contribution:	\$25,770.90
Total cost of Project:	\$145,770.90

To calculate the cost effectiveness of this project the amount of funds requested will be multiplied by the capitol recovery factor of .08 and then divided by the total amount of pollutants reduced. The capitol recovery factor of .08 is used because the minimum useful life of the vehicle to be purchased it 15 years.

(AB 2766 Funds x Capitol recovery Factor) – Total emission reduction = Cost per Pound  $(120,000.00 \times .08) \div 939.01 = 10.22$ 

#### Totals

AB Funds Requested:

\$120,000.00

**Emissions Reduced:** 

939.01 lbs.

Cost Per Pound Reduced:

\$10.22

## Work Statement

January 2020 Upon grant execution, TTUSD will begin the process to have the purchase of a new bus approved by TTUSD school board.

February 2020

Place order with Buswest for one new school bus.

July 2020 On or before July 2020, take delivery of one new school bus. Once delivered TTUSD will invite NSAQMD to inspect the bus and a decal stating the funding source for the bus will be applied at this time.

# Funding Request/Breakdown of Cost

Tahoe Truckee Unified School District is requesting \$120,000.00 in AB 2766 funds to purchase a new 2019 school bus. The specifications and quote are attached in the technical appendices. This project does not have any administrative costs. The following table shows a breakdown of cost and cofounding sources.

AB 2766 Funds:	\$120,000.00
TTUSD Contribution:	\$25,770.90
Total cost of Project:	\$145,770.90

# Schedule of Deliverables/Monitoring Program

Vehicle Delivery

On or before July 2020 TTUSD will take delivery of one new school bus. Once delivered TTUSD will invite NSAQMD to inspect the bus and a decal stating the funding source for the bus will be applied at this time. Any delay in delivery of the new school bus will be communicated to NSAQMD via email.

**Monitoring Program** 

Upon delivery of the new bus TTUSD will start to track the annual operating hours and mileage. TTUSD will report the mileage, hours and overall performance of the unit after the first, fifth and seventh year of operation. TTUSD will operate the new vehicle, at minimum, the same number of hours and miles as the vehicle it was intended to replace. Reports of operating data will be available at the request of the NSAQMD.



# **Technical Appendices**

Table of Contents	Page
Annual hour meter report for bus to be replaced	ii
Buswest Sales Quote	iii
New Vehicle Engine Executive Order	iv
Old Vehicle Engine Executive Order	vi

# Tahoe Truckee Unified School District

#### Low NOx Special Needs School Bus Replacement

# Annual hour meter report for bus to be replaced

6/21/2019

Zurum Stysterm & GPS Engine Hours Report

# GPS Engine Hours Summary Report - From: 11/20/2014 To: 11/20/2018

	Note: Ti	nis Report Requires GPS	Firmwai	o Version 2.94 or Novror				
ASSET	FIRST POWER ON	LAST POWER OFF		<b>ZONE</b>	ENDING H	DUR METER	ELAPSED HO	eurs
		7 4	TA		V A	₹	<u> </u>	154B 7
<b>★ 6</b> 47	11/20/2014 05:50:09	11/20/2018 11:38:03		Combined Totals		5061.2		1390.7

### Tahoc Truckee Unified School District

Low NOx Special Needs School Bus Replacement

#### **Bus West Sales Quote**





**Bid Form** 

June 21, 2019

Customer Order No.: SBBC 07519

Honorable Board of Trustees **Tahoe Truckee Unified School District** 12485 Joanger Dr Truckee, Ca 96161

BusWest respectfully submits for your consideration our bid to supply 1 complete 42/6 var passenger school bus as follows

Chassis Make: Freightliner

Model: 82 106

Model Year: 2019

Wheelbase: 219"

Engine: Cummins ISB

Horsepower: 260

**Body Make: Thomas** 

Model: Saf-T-Liner C2

Capacity: 42/6 var

Transmission: Allison 2500 PTS

Delivery Date: 180-210 Days after receipt of order

Subject to Prior Sale: No

Cash Purchase Price (each) \$ 136,239.00 Doc Fee: 65.00 Sales Tax @: 8 250% 9,456.40 CA Tire Tax: \$1.75 ea tre

Tax Exempt: 8 21,681.00 Taxable: \$ 114,623.00

10.50 \$ 145,770.90

**Total** 

We have examined the detailed minimum specifications established by the school board and guarantee this bid to be in accordance thereto. Above price includes all dealer prep., pre-delivery service, necessary lettering, F.O.B. school district and documentation fee

Brian Hedman, Sales Representative

Quote is good for thirty (30) days

Quote No.:

345163

Carson - Main Hesdquarters 21107 South Chico St. Carson, CA. 90745 Saine Toll Fram (200) 418-0100 Minin: (310) 004-3000 Fees. (310) 004 -3996 Parts Toll Proc. (866) 707-7800 Par. (310) 694-3994

210 North East St., Woodland, CA 95776 Man. (424) 210-3020 Free

4337 Numb Goldenstein Star 101, Presso, CA 93600 Mem (559) 177-0118

# New Vehicle Engine Executive Order

		EXECUTIVE COMER ACTIVE
CALIFORNIA	CUITTING INC.	Control of the same
WALLEY VID SITE BREIS BREAD		

Pursuant to the euthority vested in the Air Resources Board by Health and Safety Code Civision 20, Part 6, Chapter and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 30516 and Executive Order G-14-012;

IT IS GROUPING AND RESOLVED: The origins and criticalism control systems predicted by the manufacturer are earlied on described before for use in an vector make vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which contilessors is granted.

19103 BASH OF U. S		PAGE TAPE 1	TOTAL PARTY NAMED IN COLUMN	GCS & GFEDRAL FEATURES D	DIRECTION
GHODES PARTLY	温記	PUEL TYPE	-	BUT YOU EAST EGIL OC.	O80(8)
AND A RESIDER SHEET OF	. IY	(Rosel	I HOUSE I HANDS	Prox. const.	- 14
are may	Section 1		DOITIONAL CLE COMPONI CO	BITHOL .	-
		1	EA.		
		Cubit	MANUFACTURE OF THE PARTY OF THE		-
THE COLUMN		(en sted)	weed for committee and treatment		Contract of
07	OF A STATE	A PART OF THE		SAN TO SERVICE STATE OF THE PARTY OF THE PAR	-
to the same of the latest	D-000	www.em ini	School of Street or 1	BAR PHE BEARING WHEN EAST AND	
		COLUMN SECTION OF THE	-	and a state or delice will - market	-
CONTRACTOR OF THE SAME AND ADDRESS OF THE SAME ADDRESS OF THE SAME AND ADDRESS		THE RESERVE		CHARLES OF STREET	5
والمحادد في				The state of the lines	
	1 10	of the same of		and completely married states of the Co. Co.	Marie Halle
Charge deline person		AND SHOP IN	THE RESERVE OF THE RE	to pa &. Cas courses and esteroist	

Following are: 1) the FTP exprises emission standards, or family emission limits) as explaints, under 13 CCR 1866.6;
2) the EST and NTE train, under the explaints (California emission administration and test procedures for historyalty deep another and vehicle (Tour Procedures); and 2) the corresponding confidence howers for historyDisself CO, GET and NTE construction application may have been deviant asset by the manufacturer as provided
under the explaints. Test Procedures in the of testing for histories and exclaims against the configuration in 12 CCR that 9 are in
when the testing the procedures in the procedures, the 8TD and CERT values for defaul assets purchase in 12 CCR that 9 are in
parameters.).

-	-	and a	-		2000	edigs .	0	9				680
	-		SHAPE SHAPE	667	717	COT	FEP		217	687	915	-
20-10	FTF	100		-		7	199	19.0	0.01	0.01		
5	0.14	0.14	0.29	929		-	0.04	0.69	0:001	O'COM	•	
100	660	00	0 15	010		No. of Concession, Name of Street, or other Designation, Name of Street, or other Designation, Name of Street, Original Property and Name of Stree	1 000	9.01	0	65	100	
	A	90	1 6	30		•	1 1	-		-	120	-

DETT PURTNERS REBOLVED: The demolecture has demonstrated completes with the Greenhouse Gen Emission Standards an operated in Title 12 CCR 1956 8 and the incorporated "Coffernic Exhaust Sindards Electronic and Tool Procedures and Tool Procedures and Vehicles" (HDDS Test Procedures) adopted Describer 12, 2002, as that precedures 1 2017 using the 2014 receiving your National Money-Duty Engine and Vehicle Greenhouse Gen Program as specified in Section 1038 105 of the HDDE Test Procedures. The standards free submitted Bho required information and therefore has not the offerts receiving to receive a Coffernia Executive Coffer based on the Environmental Protection Agency's Confernia of Confernity for the above listed engine family.

IPA CONTRACT	OF COMPUTERY	omenty until 20 (12 to 10 AA3) Yello took specification	
		OF.	60
70	47	010	
- 63	494	0.10	00
804	45	961	Total Supplement

## New Vehicle Engine Executive Order

CALIFORNIA	CUITATINO DEC.	CENSORAL COMER ACT 4
------------	----------------	----------------------

OR IT FURTHER FREEDILYED: Confidentian to the FEL(n) / FCL(s) taked above, as applicable, is extract to the following terms, britished and conditions. The FEL(n) / FCL(s) is the emission band destroy by the conditionary and corne in flow in entirish above the conditionary and corne in flow destroying the first programs. If will be used for determining compilers of any origins in this turnly end compilers to the such ABT apparent.

BE IT PLINTHER RESECUTED: Except in vehicle applications exempted par 13 CCR 1856.9(a)(6)(8), engines in this engine femily certified under 13 CCR 1858.8(a)(6)(C) (30 arth MCH) and exciten 35.8.4 of the incorporated "Coliforna Extraction Standards and Test Procedures to 2004 and Subsecuted Model Heavy-Duty Discot Gentles and Volkides" (HDDE Test Procedures) adopted Documber 12, 2002, as test arranded September 1, 2017, stall be provided with an approved "Certified Clean idia" (abel that ahali be alliand to the vehicle into which the angine is installed.

BE IT PURTHER RESCLARD: For the Related engine models the manufacturer has submitted the materials to demonstrate control labels), 13 CCR 1971.1 (on board diagnostic, full or partial compliance) and 13 CCR 2035 at sec. (amission control wasness).

SE IT PURTHER RESOLVED: That the manufacturer has elected to include engine models in this engine family which are identified for "omengeney vehicle use only". Those "emergeney vehicle use only" engines are exempt from requirements impused pursuant to Collection is worth from requirements devices per collection of the collection of th

BE IT PURTIMEN RESECTIVED: The Island comins impains are conditionally curtified in expendence with 13 CCR Section 1971. ((k) (delibutory and finals provisions for continuous of mailtenation and diagraphs cyclem) because the heavy-duty on-based diagraphs (HD CSD) system of the flutted engine models has been delibutable to the flutted engine models has been delibutable to the flutted engine models are approved outlied to the manufacturer purple, after original region for the third through tenth delibutables in the latest continuous fluttly that to produced and delibuted for each to California. On a quantity being, the manufacturer shall eather to California Air Resources Search reports of the number of engines produced and delibuted for cale in California and pay the full fine award for that quantity purposes the contribution descination. Payment shall be excelled a supple to the State Transvers for descent in the Air Pollution Control Fund on before the mental of the contribution of each calculate quarter during the 2910 meetal-year production period. Failure to pay the calculated from the court of the quarter in quantity the calculate the contribution of the contribution of the calculate and a failure of the quantity in a decimal calculate the contribution of the calculate and a failure quantity was a decimal calculate.

Ex If Purificult Remotivate: Per Cummins' request for conditional Executive Order (EO) approved (Cummins' Request) disted Occountry 17, 2018, the fished continue models are extilled conditionally on Cummins' comparing the expense used totaling and cummins of a manufacture of the expense used totaling and cummins of the expense used to congest with Carlot on any patients! Per Internal Education in the expense used to the expense of the continue of the continue of the production. If a continue comming record to the expense of the continue of the continue

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be nothing by carry of this Executive Orde

Executed at El Monto Collinsia on this

Annette Hebert, Chief

Enclusiona Compilanae. Automotive Regulations and Science Disquan

#### Old Vehicle Engine Executive Order

(Page 1 of 2)

#### State of Culifornia AIR RESOURCES BOMBD

#### EXECUTAVE DRDER A-4-109

Relating to Cortification of How Heavy-Buty Hater Vehicle Enginees

#### HAVISTAD INTERNATIONAL TRANSPORTATION CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Meetik and Sefety Code; and

Pursuant to the authority vested in the undersigned by Sections 30615 and 30516 of the Woulth and Safety Code and Enceutive Order 8-46-3;

IT IS EXPERED AND RESELVED: That the following Movistor International Trunscortation Corporation 1899 model diesel angines are cortified for use in mater validies with a manufacturor's great vehicle weight rating (BYM) over 5,800 pounds:

Funt Two: Closel

Engles Fraily Liters (Cobic Inches)

Exhaust Emission Control
Sustant and Social Fonturat

PHYO468FPE4

7.6 (456)

Turbocherger Sosto Puff Eleiter Chergo Air Gooler

Engine models and codes are listed on atterments.

The Calletring are the certification emission atenderes for this empire Canlly in grows per brake-horsepower-hour:

Belgestiens	Corbon Henonida	Bitrogen Bilde	Part Seulaton
1.3	05.6	6.0	0.25

The following are the certification enterior velocs for this engine fanily for grows per broke-harappower-hour, except that compliance with the carbon managida enterior steadord has been demonstrated persuant to fittle 60, Code of Federal Regulations, Fort 86, Subject A. Section 85.000-23(c)(2)(1):

Engina Engly	Reference	Corbon Monatés	Uttrogen Distins	Port includes
DHUMASSPE4	0.5	1.6	4.7	<b>D.24</b>

OF SV FURTHER RESOLVED: That for the listed engine undels, the menufacturar has submitted the meterials to demonstrate certification compliance with the Board's emission control system varranty provisions (Title 13, Colifornia Codo of Engulations, Section 2035 of seq.).

#### **Tahoe Truckee Unified School District**

Low NOx Special Needs School Bus Replacement

### Old Vehicle Engine Executive Order

MAVIETAR INTERNATIONAL TRANSPORTATION COMP.

CHICUTIVE CREEN A-0-140 (Page 8 of 2)

Engines contified under this Esecutive Great must confere to all applicable california cosssion regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attendements.

Executed at El Nanto, California this \_\_\_\_\_ day of Boptamor, 1991

R. D. Summerfield Assistant Division Chief Mobile Seurce Division

#### EXHIBIT SUMMARY SHEET

Proposi	ing Entity (include of	her participating ent	ities):	
neom	rnted Senior Citizen	of Sierra County		
Contac	t Person: <u>Debro DeV</u>	enrio, Transportatio	n Director	
Addres	s: 302 First Street, L	evalton, CA 96118		
Phone	#: <u>(530) 993-4770</u>	PAX #: ( <u>530) 993-0</u>	742 EMAIL: (1	podir Cattant
Total P	roject Budget:	AB 2766 Funds	Co-Funding	Total Project Costs
	Capital Costs	\$	<u> </u>	<u>\$</u>
	Operating Costs	\$ 5.721	\$ 49.000	<u>\$ 54,721</u>
	TOTAL	\$ 5,721	\$ 49,000	<b>8.54.721</b>
Туре	of Project: (check o	ene)		
	Quantifiab	le Project		
	x Reduced E	imission Vehicles P	roject	
Imple	mentation Area for	Project: Check	if District-wide _x_	-
	Describe the Imple	mentation Area for	the Project (e.g. city,	county, region):
Estima	eted Emission Redu	etions:		
A.	Emission Reduction	ns (ibs/yr)		
	Reactive Organic (	Gases 70 Nitro	gen Oxides <u>78</u>	PM <sub>10</sub> 29
B.	Vehicle Miles Trav	veted (VMT) Reduc	ed_117,000	
	Single Occupancy	Vehicle Trips Redu	ced <u>2.800</u>	
C.	Number of people	reached per day thr	ough public education	n_12
Cost-e	ffectiveness:	\$ 30.93 net no	und (AB 2766 Funds	(Only)
Briefi	Project Description	at .		
			angool Services Pro in Sierra County.	gram which provides group transit



# Incorporated Senior Citizens of Sierra County P. O. Box 675, 308 First Street Loyalton, CA 96118

September 1, 2019

Northern Sierra Air Quality Management District Northern Field Office P. O. Box 2509 Grass Valley, CA 95945

Attention: Joe Fish

Re: AB2766 DMV Surcharge Fund

Dear Joe:

On behalf of the incorporated Senior Citizens of Sierra County, I am enclosing a grant packet for application and consideration to the AB2766 DMV Surcharge Fund.

We are requesting the sum of \$5,721 to support the operations of the Senior Vanpool Services Program in Sierra County.

Please let me know if you need anything further. Thanks so much!

Sincerely,

Cathy Rahmeyer

Cathy Rahmeyer Fund Development Consultant

**Enclosures** 

#### REQUEST FOR PROPOSAL CONTENTS CHECKLEST

Whitems: The	DESCRIPTION OF THE PROPERTY OF STREET,
الصحسما	l attach this checklist with your application.
T T	Exhibit Summary Sheet - page
х	Request for Proposal Contents Checkfist - page 2
×	Authorization Letter/Resolution - page <u>3 &amp; 3A</u>
X	Project Description - page4
X	Project Organization/Background - page
X	Emissions Benefits/Cost-Effectiveness - page6
×	Work Statement - page
	Funding Request/Breakdown of Cost - page
×	Schedule of Deliverables/Monitoring - page8
*	All Pages Numbered
x	3 Copies of Proposal, One Original
	(CHECK ONE ONLY) Quantifiable Project
	- OR -
Ľ	Reduced Emission Vehicles Project

#### **Authorization Letter**

Section C



# P. O. Box 675, 308 First Street Loyalton, CA 96118

August 28, 2019

Northern Sierra Air Quality Management District Northern Field Office P. O. Box 2509 Grass Valley, CA 95945

Attention: Joe Fish

2014-20

Re: AB2766 DMV Surcharge Fund 2000-10

Dear Mr. Fish:

On behalf of incorporated Senior Citizens of Sierra County, I am authorized to submit our application for funding through the AB2766 DMV Surcharge Fund. We are requesting the sum of \$5,721 to support the operations of the Senior Vanpool Services Program which provides group transit services for disabled and/or senior residents in Sierra County.

The contact person with respect to questions for this project is Debra Davenzio, Transportation Director. She may be contacted directly at (530) 993-4770. Her e-mail address is transformation Please let me know if there is anything further information I can provide you. Thank you for your consideration and review of this request.

Sincerety.

Donno May, Secretary Board of Directors

#### Section D. - Project Description

This request to the Northern Sierra Air Quality Management District under the AB2766 DMV Surcharge Fund will provide Inc. Senior Citizens of Sierra County with the funding needed to help sustain vanpool services approximately 276 days per year providing approximately 12 trips per day, both in and out of Sierra County. The program will serve approximately 300 unduplicated riders annually with estimated one-way vehicle trip reductions totaling 2,100 or 90,550 miles. Funding provided herein will assist in covering the costs of vehicle operations and maintenance for two existing vehicles annually. This program funding will help to sustain the transportation operations of the ISCSC which are currently at-risk as Cal Trans grants and Area 4 on Aging funding continues to decline. This request to the Northern Sierra Air Quality District is also reduced from the amounts available over the last five years. Without the grant support provided herein, ISCSC will be forced to cut and/or significantly reduce vanpool services for the coming year. This reduction combined with the continued challenges of the economic downturn in California, and particularly in rural communities, would further isolate rural seniors and disabled participants in seeking and securing transportation services needed to access health, wellness, food supplies, and medicine and social service programs within the region. The program also provides vanpool services to community members at large as needed.

ISCSC with this funding, will continue to provide outreach services to new unserved and underserved riders to assist with increasing rider membership by 2% in the coming year. The program will provide riders with educational information on vanpooling and its related emissions reductions to encourage additional use of vanpool services in Sierra County. The program currently maintains daily statistics on the number of people served, trips provided, and miles driven for all transportation services. Eight years ago, ISCSC designed a new data collection Excel Spreadsheet specific to Northern Sierra Air Quality Management District reporting so drivers may track and monitor the number of trips reduced from participants who would otherwise have driven their own cars or had someone drive for them had vanpool services been nonexistent. A confidential numbered tracking system is utilized to protect the confidentiality of riders.

The Transportation Program Director is responsible for the record keeping and progress reports associated with all transportation funding sources. ISCSC will utilize all appropriate data collection

tools and reporting forms required by the Northern Sierra Air Quality Management District. ISCSC has experience in the management and tracking of grant funding from multiple sources, supervising budgets and completing required reporting timely. The Scope of Work for this project is outlined as follows:

December 2019	Sign Contract on grant award
January 2020	Commencement of Funding
January - Dec 2020	Conduct Monthly/Quarterly Financial Reports/Monitoring Reports
January - Dec 2020	Provide vanpool services to existing riders
January - Dec 2020	Conduct outreach to increase ridership by 10% to underserved residents
January - Dec 2020	Log Fuel Miles / Perform required maintenance
January - Dec 2020	Conduct data gathering / monitoring
December 2020	Submit final report

## Section E. - Project Organization/Background

Sierra County is a mountainous rural region covering an area of approximately 985 square miles. The population of Sierra County includes 2,987 people (and continues to decline), designating it as the second smallest county in the state, and a frontier community. Between 2009 and 2013, the number of residents living below poverty level rose to 19.4% (from 11.3% in prior years). The current poverty level stands at 14.4%. Residents over the age of 65 represent 31.6% (up from 28.8.1% in 2018) of the population in Sierra County, versus 14.3% (up from 8.7% in 2017) of the senior population in California. Additionally, persons with disabilities aged 18-64 represent 15.5% of the population and persons with disabilities over the age of 65 represent 38.5% of the senior population. Veterans represent 11% of the population. There are several health status indicators that support the rate of poverty figures in Sierra County. Cancer (Breast Cancer and Lung Cancer), Coronary Heart Disease, Diabetes, and Cerebrovascular Disease are the major causes of death.

Incorporated Senior Citizens of Sierra County (ISCSC) is a grassroots non-profit corporation developed in 1978 that strives to serve the unmet needs of a growing and vulnerable number of rural seniors. The mission of the agency is to present an environment that encourages and accepts the uniqueness of each individual; provides social supports; offers nutritious well-balanced noontime meals; provides safety information and assessments, access to adequate transportation; and delivers necessary health and resource and referral information for seniors aged 60 and over, their spouses and the disabled. In addition, ISCSC provides access to early and regular health screening, outreach prevention and

intervention activities, education and presentation of home and medication safety and nutritional information, and opportunities to participate in regularly structured nutrition and physical activities that serve to reduce chronic diseases and their associated health care costs while improving the quality of life for many senior citizens.

Emission reductions for this project will result from the decrease in emissions associated with auto trips replaced by senior vanpool services after adjusting for the increase emissions associated with the shuttle vehicle itself and auto access trips. ISCSC provides vanpool services to residents for the following purposes: medical appointments, nutrition site services, socialization activities, shopping trips, personal errands and recreation. The program also transports seniors placed in long-term care at Eastern Plumas Healthcare facility to medical and social activities. On occasion, vehicles are utilized to transport homedelivered meals in partnership with the agency's nutrition program. Seniors are picked up and delivered to their homes, including nursing home residents as part of the service delivery of this program, providing further reduced emissions as residents do not have to drive vehicles to a vanpool lot or shuttle parking site.

ISCSC has experience and been a recipient of transportation dollars to operate Sierra County vanpool services for seniors and disabled residents for many years.

## Section F. - Emission Benefits/Cost Effectiveness

The costs and emission benefits are calculated in the following chart:

ISCSC	Total Program Costs	Weighted CE/\$ per Ton	CE Per lb	AB2766 Cost
Senior Vanpool Services Program	\$54,721	\$54,721	\$30.93	\$5,721
Totals	\$54,721	\$54,721	\$30.93	\$5,721

The annual emissions reduction is calculated at 78 lbs/year or 0.04 tons/year. The cost effectiveness of this project is \$30.93 per pound and \$61,854 per ton. ISCSC will provide a cash match from Cal Trans in the estimated sum of \$49,000 to complete the costs for this sustainability project. A detailed emission benefits/cost effectiveness sheet is attached.

## Section G. - Work Statement

The Work Statement will follow the Scope of Work as outlined in Section D of this proposal. Direct program activities will begin on January 1st, 2020 and end with the Final Report on December 31st, 2020. The Transportation Director will be responsible for assuring that each sequence of work activities is completed and documented appropriately, and all data collection, maintenance and reporting requirements are met timely. Project technical assistance will be utilized from the Northern Sierra Air Quality Management District as needed. Public acknowledgement for funding provided by the Northern Sierra AQMD will include a press release in the local newspaper and a placard placed on-site at the ISCSC offices based at the Loyalton Senior Center.

# Section H. - Funding Request/Breakdown of Cost

The following chart reflects a breakdown of the costs associated with this project and their respective funding sources:

Project Tasks	Cost	AB2766 Funding	ISCSC Cal Trans Match	ISCSC In- Kind Match 5/yrs
Sustain Existing Vanpool Services	50,000	5,000	45,600	
Expand Outrench to New Riders	4,721	721	4,000	
Conduct Annual Maintenance		<del>                                     </del>	- 4000	<del></del>
Conduct data collection				
Prepare monthly/quarterly/year-end reports - Collaborate with partners		18.0		7
Total Cests	\$54,721	5,721	\$49,000	0

No equipment will be purchased in association with this project. Should the Northern Sierra AQMD be unable to fund this project at the amount requested, ISCSC will be happy to accept any amount determined by the board to assist in the ongoing delivery and sustainability of vanpool services for Sierra County. Any reductions in service will be determined according to the amount of the award.

00 E

lapots	Activities	Outputs Participation	Short Term	Outcomes Impact Medium Term	Long Term
Staff Time - In-Kind Manch	Contract - Supervise Monitor - Data Collection - Report	Transportation Director / Drivers	Susmin existing vanpool services	Expand outreach to unserved residents	Provide access to transportation services for seniors & disabled residents
AB2766 Funding	Cosh Grant	Northern Sterra Air Quality Mgmt.	Delivery of vanpool services - sustainability of program	Reduced emissions of 78 lbs. per year	Reduced emissions of 885 lbs/over five-year life of grant
			Access to Funding	Reduced heath risks and cancer rates to children Improved Air Quality	Reduced health risks and cancer rates to children – Improved Air Quality
		-		Improved Air Quality	Improved Air Quality
Cesh Metch	Cash Grant	Cal Trans	Access to Funding	Reduced health risks and cancer rates to children Improved Air Quality	Reduced health risks and cencer rates to children Improved Air Quality
				Improved Air Quality	Improved Air Quality
		Section To a section of the section			

Services I. — Schednie of Deliversible 1Monitoring Program
Lage Model of ISCSC - AB2766 DMV Servings Fund Project - Sentor Venpool Services Program

#### VANPOOLS AND SHUTTLES Subantemaye Air District Plager: Northern Sterm AQMD Local Coverages t Name: Not Applicable Project Nome: Incompanied Senior Chizens of Siema Count Printer Agrosps 🛰 **FUNDING** MVPer Funding: \$5,300 MSRC Fuedlag: 50 Moyer Fendlegs 20 **CMAQ Fundings** 50 Other CoFunding: \$0 Capital Recovery Factors 1.03 Australia Auto Trips Reducad: 3.003 Project Applysis Period: years Assess Auto VMT Reduced: 105.105 1 Annual Operating Doys (D): 273 deys Dolly Riderable (R): 11 trips (riders)May Annual Von VRITT: 44,000 Adjustment (A): 1.00 Replaced Auto Trip Length (Lips 35.00 of trip Adjustment (AA): 0.00 Auto Access Telp Length (LL): 0.00 milim in our direction of trip EMISSION Auto Thip End Pactors Auto VMT Factors VacVNIT Factors PACTORS: 1.109 grass ROC . 0.332 many 0.15 0.391 NOx: 0.535 0.23 File PM10: 210.0 0.220 Pounds per Venr Tons per Venr EMPSSION REDUCTIONS: ROG: 70 0.04 Mille: 78 0.B4 PMIO: 29 0.01 Think! 177 0.09 COST-EFFECTIVENESS OF: Motor Vehicle Fees and/or Mayor Funds: \$30.93 per peund \$51.54 per ton CMAQ Funds: 20.00 per puzzed All Funding Sources: \$10.93 purposed \$61.154 perton

## **EXHIBIT SUMMARY SHEET**

## Sierra Commons Business-Critical Response Center

**Proposing Entity:** Sierra Commons **Contact Person:** Robert X Trent

Address: 792 A Searls Ave., Nevada City, CA 95959

Phone #: (530) 265-8443

FAX #: NA

EMAIL: info@sierracommons.org

#### **Total Project Budget:**

	AB 2766 Funds	Co-Funding	<b>Total Project Costs</b>
Capital Costs	\$26,000	\$7,090	\$33,090
<b>Operating Costs</b>	\$0	\$2,150	\$2,150
TOTAL	\$26,000	\$9,240	\$35,240

#### Type of Project: (check one)

✓ Quantifiable Project

\_\_ Reduced Emission Vehicles Project

Implementation Area for Project: Check if District-wide \_\_\_\_

Describe the Implementation Area for the Project (e.g. city, county, region): The greater Nevada City and Grass Valley areas

#### **Estimated Emission Reductions:**

A. Emission Reductions (lbs/yr)

Reactive Organic Gases 21.66 Nitrogen Oxides 23.60 PM10 9.14

B. Vehicle Miles Traveled (VMT) Reduced 47.652

Single Occupancy Vehicle Trips Reduced 627

C. Number of people reached per day through public education  $\underline{\mathbf{0}}$ 

Cost-effectiveness: \$ 57.35 per pound (AB 2766 Funds Only)

**Brief Project Description:** Business center featuring a gas-powered generator, redundant internet connectivity, and office environment that serves the Nevada City and Grass Valley business community during emergencies, and power and internet outages.

# REQUEST FOR PROPOSAL CONTENTS CHECKLIST

**Applicant: Sierra Commons** 

Please complete and attach this checklist with your application.

- ✓ Exhibit Summary Sheet page 1
- ✓ Request for Proposal Contents Checklist page 2
- ✓ Authorization Letter/Resolution page 3
- ✓ Project Description page 4
- ✓ Project Organization/Background page 5
- ✓ Emissions Benefits/Cost-Effectiveness page 6
- ✓ Work Statement page 7
- ✓ Funding Request/Breakdown of Cost page 8
- ✓ Schedule of Deliverables/Monitoring page 10
- ✓ All Pages Numbered
- ✓ Proposal, One Original
- ✓ (CHECK ONE ONLY) Quantifiable Project
  - OR -

**Reduced Emission Vehicles Project** 



# AB 27766 Authorization Letter

Sierra Commons
792 A Searls Ave.
Nevada City, CA
95959
(530) 265-8443
Info@sierracommons.org

To whom it may concern,

This authorization letter serves as consent and approval from the Sierra Commons board of directors to submit grant applications for the AB 2766 DMV Surcharge Fund Program - grant year 2020.

If you have any questions, please do not hesitate to contact Robert Trent or Sierra Commons' Board Treasurer, Joshua Robinson.

Best regards,

Joshua Robinson

Treasurer

Sierra Commons Board of Directors

JesauaRebinson@tcbk.com

(530) 478-6001

**Project Manager Contact: Robert Trent** 

# **Project Description**

With an emergency capacity of 40+ workstations, Sierra Commons is preparing to support our local small businesses by creating the *Business-Critical Response Center* where local enterprises and media professionals can rely on an instant-on office environment, consistent Internet connectivity, and power.

For the past decade, Sierra Commons has been serving Western Nevada County's small businesses with office infrastructure, education, and mentoring. Our community relies on us for dependable Internet connectivity and a productive work environment. Beginning with the 2019 wildfire season, PG&E predicts regular 3 to 5-day power outages at elevated (Tier 2) or extreme (Tier 3) risk for wildfire zones. Nevada City and Grass Valley are both in Tier 3 zones.

During intentional and unexpected power and internet outages, as well as emergencies, area businesses, including Sierra Commons members, that rely on internet and power for mission-critical operations will have limited choices for maintaining business continuity. They will either have to travel an estimated thirty-eight miles each way to non-effected areas, operate generators at locations throughout Western Nevada County, or stay local and quickly get up and running at Sierra Commons.

During Internet and power outage situations, Sierra Commons will also provide access to local news organizations, such as YubaNet, local journalists, and out of the area reporters covering breaking news, so they can continue updating the community about critical information.

The key components of the Response Center are:

- A natural gas-powered generator
- Reliable and redundant Internet connections that are least likely to go down due to power outages
- A functional shared working environment
- Public awareness campaign
- And data tracking and reporting

In addition to the key components listed above, the project will require project management, planning, training, testing, and evaluation.

# Project Organization/Background

Founded in 2009, Sierra Commons is a 501(c)(3) business education center, located in Nevada City, providing a platform for local businesses to start, grow and thrive. Sierra Commons has been instrumental in launching and reigniting over 150 local businesses and our partnership with the Sierra Small Business Development Center is extending this positive impact by providing free one-to-one business consulting with local entrepreneurs and small businesses.

Our ADA accessible campus includes a 1,700 square foot main building that features coworking spaces, meeting rooms, and office administration. The secondary building holds up to thirty people and serves as a classroom, coworking space, and meeting space. Surrounding these buildings are a large patio, shaded lawns, and 12 parking spaces. Typically, approximately 30 onstreet parking spaces are also available on Searls Avenue.

Successful execution of this project involves collaboration between Sierra Commons' leadership team, 20 + members, and professional contractors. Sierra Commons' Board and select coworking members, including an experienced architect and Building Information Modeler (BiM) contractor will support the project. We will contract with A+ Accredited Better Business Bureau company ABT Plumbing to complete the major components of the *Building* phase of this project (see Work Statement page 7). Additional contractors will be selected based on competitive pricing, experience, licensing, insurance, availability and reputation.

Robert Trent, Sierra Commons Executive Director, will fill the roles of Project Manager and Outreach Coordinator. Robert and Joe Fish of the Northern Sierra Air Quality Management District (District) have worked together to validate the methodology for generating emissions reductions estimates for this proposal and how to prepare accurate reporting as part of the requirements of this project. Sierra Commons will use our existing project accounting systems and professional bookkeeping service, Accountability Pro inc., to track expenses and funding sources, as well as completing project financial reports.

# **Emissions Benefits/Cost-Effectiveness**

As of 2016, 10.4 % (4,181 people) of Nevada County's workforce work at home. If 5% use Sierra Commons' Business-Critical Response Center during emergency/power outage/Internet outage situations (209 people), three times per year, with an average one-way trip savings of 38 miles, this project saves 56,430 miles traveled for a one-year period.

Additional emission reductions could be realized from additional workforce sectors using the facility, less miles traveled due to timely emergency news broadcasts out of the facility, and reducing the number of personal generators individuals would purchase and run if the Response Center was not available to them.

Estimated one-way vehicle trip reductions: 627 one-way trips per year

Estimated reductions in vehicle miles traveled: 47,652 Miles

## Estimated emission reductions and cost-effectiveness:

Nitrogen Oxides (NOx)

Reactive Organic gases (ROG)

Particulate Matter (PM10)

Cost-Effectiveness:

23.60

Pounds/year

Pounds/year

57.35

Cost/pound



# Work Statement

The scope of work fails under five categories: Planning, Building, Connecting, Outreach, and Evaluation. Once funding is secured and planning is complete, installation of the generator will quickly take place and secondary internet infrastructure will be set up. The power supply to the main Sierra Commons building, as well as the detached classroom, will be completed and all internet services will be turned on. Using well-established communication channels, Sierra Commons will develop and execute an outreach plan that raises awareness about the availability of our Response Center. Use of the center will be tracked continually and effectiveness will be monitored through surveys and interviews.

# **Project Phases**

#### **Planning**

- 1. End-user needs analysis including interviews and surveys
- 2. Usage scenarios identified
- 3. Technology analysis with emphasis on internet connectivity
- 4. Safety and security plan
- 5. Permitting
- 6. Detailed build-out schedule
- 7. Integrated outreach plan
- 8. Data tracking and evaluation plan
- 9. Emergency/Internet outage/power outage activation plans
- 10. End-user policies and agreements
- 11. Contractor and supplies bidding
- 12. Contractor agreements secured

#### Building

- 1. Building supplies and technology purchases
- 2. Generator Install
- 3. Building modifications as needed
- 4. Testing equipment
- 5. Staff training

#### Connecting

- 1. Connect internet service
- 2. Configure network and security

- 3. Test connections under different usage scenarios
- 4. Staff training
- 5. Business-Critical Response Center soft launch

#### Outreach

- 1. Execute Integrated Outreach Plan including:
  - a. Social/Broadcast/Print media
  - b. 211 and calendar listings
  - c. Speaking opportunities
  - d. Email newsletters
  - e. Signage including DMV logo
- 2. Create and publish user documentation and policies
- 3. Update sierracommons.org website
- 4. Project Launch/public demonstration event/project funding acknowledgement
- 5. Evaluation
- 1. Track usage data
- 2. Track emissions reduction data
- 3. Generate and publish reports
- 4. Maintain and improve systems as necessary

# Funding Request/Breakdown of Cost

AB 2766 funds will be used to purchase and install a natural gas-powered generator, one year of internet service and equipment purchases, and fees related to a public awareness campaign. Sierra Commons will cover all operational costs for this project.

BUDGET			}			
	AB 2766	Sierra Commons Co- Funding	in- Kind	Admininstration	Cost	
PLANNING						
Project Management	\$1,500	\$500	\$1,000		\$3,000	
Legal			\$1,000		\$1,000	
printing		\$100		\$35	\$135	
Planning Subtotal	\$1,500	\$600	\$2,000	\$35	\$4,135	
BUILDING					4	
Project Management	\$500		\$250		\$750	
Generator and installation	\$17,800				\$17,800	
Contingincy	\$500				\$500	
Building Subtotal	\$18,800	\$0	\$250	\$0	\$19,050	
CONNECTING						
Project Management	\$600		4		\$600	
Primary Internet connection		\$1,440		- particular regulation from the second	\$1,440	
Secondary Internet connection	\$1,400				\$1,400	
Equipment	\$550	A STATE OF THE PARTY OF THE PAR			\$550	
IT Contractor		\$250	\$250		\$500	
Contingency	\$250				\$250	
Connecting Subtotal	\$2,800	\$1,690	\$250	\$0	\$4,740	
OUTREACH						
Outreach Coordinator	\$2,250		\$1,500	Statement on a Con-	\$3,750	
Singage	\$250	the second secon	\$200	the second secon	\$485	
Public demonstration event		\$200	-	\$200	\$400	
Outreach Subtotal	\$2,500	\$200	\$1,700	\$235	\$4,635	
EVALUATION				***************************************	4000	
Project Management	\$350	And the second s		Anna	\$350	
Bookkeeping		\$400		\$300	\$700	
Printing	\$50		MASS AND S	\$35	\$85	
Evaluation Subtotal	\$400	\$400	\$0	\$335	\$1,135	
BUDGET TOTAL	\$26,000	\$2,890	\$4,200	\$605	\$33,695	



Sierra Commons 8/27/2019 8

GENERATOR  Ultra Elite Power Generation System installation  Whole house comfort and filumination package	A8 2766	Matching F Sterra Commons Co- Funding	in- Kind	Administration	Cost
Ultra Elite Power Generation System installation Whole house comfort and		- manual d	7607760	ASSESSED ALTON	COST
Installation Whole house comfort and					
	_				
Automated monitoring system renovation				Section and Section and Section and Section Se	
Power protection system installation					
Electrical fire protection safety system upgrade					
Fuei delivery system upgrade and calibration service					
Code and safety upgrades					
Break in maintenance service package					
5 year maintenance and service package					
2 year warranty. 20 kw kohler generator and transfer switch					
Run gas line, pour concrete pad, run ail electrical needed				100	h min man in the same of the s
Drawings of sight plan and electrical				The state of the s	
Generator Subtotal	\$17,800				\$17,80
INTERNET/NETWORKING					
Modem	\$150				\$15
Networking	\$400				\$40
Internet/Networking Subtotal	\$550			Similaria de contra con	\$55
Equipment Total	\$18,350	\$0	\$0	\$0	\$18,35
OPERATING COSTS		Matching Fu	inds		
	AB 2766	Sierra Commons Co- Funding	In- Kind	Admininstration	Cost
Staffing During Outages	\$0		\$1,500	\$200	\$1,700
Added utilities costs	\$0	\$400		\$50	\$450
Operating Costs Total	\$0	\$400	\$1,500	\$250	\$2,150



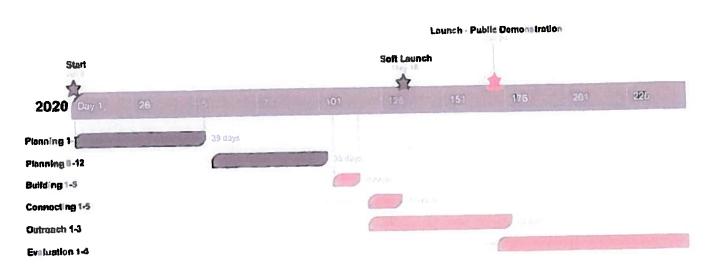
# Schedule of Deliverables/Monitoring

# Schedule of Deliverables

Please reference Work Statement on Page 7 for a listing of project tasks and subtasks.



# Sierra Commons Business-Critical Response Center



Sierra Commons

8/27/2019



# **Monitoring**

Data will be consistently collected from all participants using the Business-Critical Response Center throughout the funding period. As a general practice, Sierra Commons tracks all facility use, so long-term use of the workstations will be tracked indefinitely.

All individuals using the Response Center will be required to sign-in to the facility, provide contact information, and fill out a brief online survey. The survey will include, but is not limited to, the following questions:

- 1. How many miles did you travel to Sierra Commons?
- 2. Which mode of transportation did you use to get here?
- 3. Did you travel here by yourseif?
- 4. Approximately how many miles would you have driven to if the Business-Critical Response Center was not available to you?
- 5. What is the primary business purpose you are using this facility for?
- 6. Are you a journalist reporting on an emergency situation? If so, which organization are you affiliated with?

Survey data will automatically become entered into our data analysis software to ensure accurate tracking and reporting.

A follow up survey will solicit user feedback on the Response Center's ability to provide business-critical services.



## ATTACHMENT 1

# **Sierra Commons Board of Directors**

The Board of Directors at Sierra Commons includes dedicated individuals from a wide variety of business backgrounds and skills.

Chair - Evelyn Fasset

SBDC Business Consultant and Technology Specialist

Secretary - Erika Kosina

Media and Communication Specialist

Treasurer - Joshua Robinson

Tri Counties Bank Branch Manager - Nevada City

Director- Adam Dunn

Community Builder/Social Innovation Educator/Impact Investment Consultant

**Executive Director - Robert X Trent**Business Consultant and Serial Entrepreneur

# **Exhibit Summary Sheet**

Proposing Entity (include other participating entities):

Plumas County Department of Public Works

Contact Person: Eric Braswell (Equipment Maintenance Supervisor)

Address: 1834 East Main Street

Quincy, Ca. 95971

Phone #: 530-283-6496 FAX#: 530-283-6017 EMAIL: pcpwshop@countyofplumas.com

**Total Project Budget:** 

	AB2766 Funds	Co-Funding	<b>Total Project Costs</b>
Capital Costs	\$3,622.55	\$37,285.65	\$40,908.20
<b>Operating Costs</b>	\$0.00	\$0,00	\$0.00
Total	<b>\$3,622.55</b>	\$37,285.65	\$40,908.20

Type of Project: (check one)

X Quantifiable Project

Reduced Emission Vehicles Project

Implementation Area for Project: Check if District-wide X

Describe the Implementation Area for the Project (e.g. city, county, region): Two Ten-Wheeler Trucks (#117 & #119) will be used throughout Plumas County.

#### **Estimated Emission Reductions:**

- A. Emission Reductions (lbs/yr)
  Reactive Organic Gases N/A Nitrogen Oxides N/A PM<sub>10</sub> 5.06339
- B. Vehicle Miles Traveled (VMT) Reduced N/A
  Single Occupancy Vehicle Trips Reduced N/A
- C. Number of people reached per day through public education N/A

Cost-effectiveness: S99.99 per pound (AB 2766 Funds Only)

**Brief Project Description:** 

Apply emission control devices to two 1996 Freightliner Ten-Wheelers with Cat 3406E engines.

#### REQUEST FOR PROPOSAL CONTENTS CHECKLIST

#### Applicant: Plumas County Department of Public Works

Please complete and attach this checklist with your application. X Exhibit Summary Sheet - page 1 Request for Proposal Contents Checklist - page 2 Authorization Letter/Resolution - page 3 Project Description - page 4 Project Organization/Background - page 5 Emissions Benefits/Cost-Effectiveness - page 6-7 Work Statement - page 8 Funding Request/Breakdown of Cost - page 9 Schedule of Deliverables Monitoring - page 10 All Pages Numbered Three Copies Of Proposal Plus One Original (CHECK ONE ONLY) Quantifiable Project -OR -Reduced Emission Vehicles Project

# Authorization Letter / Resolution

Proposing Entity	r oposing	Entity:
------------------	-----------	---------

Plumas County Department of Public Works 1834 East Main St. Quincy, Ca. 95971

(530) 283-6268

Es Branch 8-29-19

Contact Person: Eric Braswell

(530) 283-6496

Plumas County Department of Public Works will be the project manager throughout the life of this project.

# Signing Authority:

The Director of Public Works for Plumas County will be the sole authorized signing authority responsible for signing the contract and claims for payment.

Director of Public Works Robert A. Perreault

Signature:

Date: AUGUST 23, 2019

# **Project Description**

This project consists of installing Diesel Particulate Filters on two (2) 1996 Freightliner Ten-Wheelers with Cat 3406E engines.

Our objectives are to improve the exhaust emissions of our fleet throughout Plumas County. By acquiring this Grant and providing necessary funding for this project, Plumas County Public Works will be closer to achieving goals for cleaner emissions.

If awarded funding for this project, Diesel Emissions Service in Redding, Ca. will install DPF's on two of Public Works Freightliners Unit # 117 (vin # 1FVNFSYB6VP674131) and Unit # 119 (vin # 1FVNFSYBXVP674133).

The DPF's that will be installed are a HUG MOBICLEAN R40 design CARB LEVEL 3+ VERIFIED SYSTEM WITH HIGHER THAN 85% PM REDUCTION.

# Project Organization/Background

I am the Project Manager for requesting AB2766 DMV Surcharge Program Funds for the 2019-2020 Project Cycle. I have been employed with Plumas County Public Works since 1991 and I have 29 years' experience with the operation, maintenance and record keeping of equipment. As the Equipment Maintenance Supervisor I've been successful with assisting and preparing grant proposals.

My duties for Plumas County include but is not limited to prepare reports, cost projections, track equipment maintenance, data entry for computerized fleet analysis and manage a fleet with more than 300 pieces of equipment.

Public Works experienced success in the past from granted AB2766 DMV Funds. Over the previous years we have applied the funds towards seven Diesel Particulate Filters. The Filters were installed on Graders, Loaders and a Freightliner Truck. With the funds Public Works also retired (scrapped) a 1974 Low-Bed truck and 1990 Plow truck and replaced them with new trucks including the Best Available Controlled Technology.

If awarded AB 2766 DMV funds, Public Works will have Diesel Emissions Service (DES) in Redding perform the installation of emission control devices (DPF's) on two 1996 Freightliner Ten-Wheelers. DES has a great deal of knowledge and experience regarding C.A.R.B. regulations and the equipment that is required to meet compliance. DES began its operations in 2006 as the emissions division of parent company North State Truck Equipment, Inc., which has been serving the heavy duty truck market since 1978. DES was established to help California businesses meet and exceed the strict C.A.R.B. and E.P.A. emissions regulations placed on diesel trucks. Since 2006, DES has sold and/or installed over 15,000 emission control devices, and is now an industry leader in diesel emissions on the west coast and beyond.

As a Municipality, Plumas County Public Works is audited twice annually, once by the State Controller's Office and the County also hires an independent auditor. Both audits track funding sources by project tasks and is imperative that we track these costs accurately.

# USER: PLEASK only enter data into the shaded cells. DO NOT do any copying and pasting within the spreadsheet.

	lbs per	year of	M	2.38	2.74	0	0	5.11454
	Grans			1080	1242	0	0	2322
PM	EmFac	(g/mile)	4	0.27	0.27	0	0	
		Annus	Mileage	4000	4600	С	0	8600
				Truck #1:	Truck #2:	Truck #3:	Truck #4:	Totals:

Pounds per year of PM reduced:

4.34736

\*\* Emfac obtained from Table 5D of CARB 2013 Emission Factors (Heavy Duty)

# Table 5 Statewide Calendar Year 2017 On-Road Emission Factors for Heavy-Duty Cleaner Vehicle Projects

S EFORE PROJECT Baseline Emission Pertors

	Model Year	Endout	sa Festors	(giml)		Conversion	Emusio	n Factors	(appa-br)	
	1 - 1 - 2	ROG	co	HOn	PM2.5	Factors			1	PU2.5
77 000	2007-2009	0.03	1 5,44	1.03	3.0044	43	-		-	1.281
> 33,000		The state of the s	5.05	1.13	1.9.034	4.2	6.034	1,292	3.782	0 (01)
Int. 14601-33,600	2897-2008	and the second	mirror di Libertonio	1 0.81	and a comment of the party of the last	43 1	A.COS	1 1 545	4.7.3	2.636
	2019-2012	0.00	12	2.0	The second second	market and	- a committee of the	THE RESIDENCE OF STREET	2.524	0.041
	2017-	0.38	0.2	1.1.1	0.002	13	The state of the s	normalisation are	The Santa Control	0 603
> 33.000	2007-2000	The Control of the Co	1 1.1	12.0	0.006	.2.2	0.121	1 0.362	J 4 150	0.022
	2813-	0.1	and the second of the second of	1.6	0,010	2.)	0 041	0 218	1 314	3.003
	:- 33,600	### Weight Rating (bas) ####################################	Weight Rating (Day   Rod   Year   ROG   2007-2009   0,000   2019-2012   0,000   2019-2013   0,000   0,100	Neight Rating (this)   ROG   CO	Weight Rating (these   Model Value   RDG	Weight Rating (this)   Weight Value   ROG   CO   NOW   PM2.5	Weight flating (that   Padd Vas   Padd   Co   Most   Padd   Factors	Weight Rating (this)   Weight Rating (this)   ROG   CO   HOx   PM2.5   Factors   ROG   ROG   ROG   PM2.5   Factors   ROG   R	Weight flating (that   Weight Flating (that	Weight flating (the)   Rod   CO   Non   PM2.5   Factors   Rod   CO   NOn

Robalit Oleset Vehicles **Grees** Vehicle Emission Factors (g/ref) Vehicls Type Emission Factore (g/bhp-hr) Conversion Model Year Weight Rating (the) ROG CO NOX PM2.5 Pactors ROQ CO NOx PM2.5 1894-1897 Urben Travail Buses 1.60 6.00 4.2 0.401 2.158 22.2 0.394 0.062 Triumes Busins 1. School Busins. 1994-1997 0.50

15 33 0 19 14,001 - 33 000 5.1 0.280 0 729 8518 0 105 and Trucks2 1996-2002 0.35 1.9 G S04 6.192 1994-1997 Classa Trucks 0.2 7-248 2.092 8.854

AFTER PROJECT Emission Factors

Now Cleaner Vehicle Purchases or Repeaters

Vehicle Type Gress Vahic				Emission Pacters (g/ml)				Emission Factors (g/bhp-hr)			
Walght Harting (to	Weight Rating (the)		ROG	CO	NOs	PM2.5	Fectors	Rog	CO	NOx	P682.5
Lirban Transit Buses	> 33,999	2015 2014	902	2818	0.00	0.0030	1.40	0.008	1,586	0.199	0.0007
Transit Buses <sup>1</sup> , School Buses, and Trydus <sup>2</sup>	14004 22000	2015-	0.84	1 02	0.81	0.000	4.)	0.996	1.571	2.205	0.82.05
	14 001 - 33,000	20154	0.03	0.2	1.0	0.002	: 8	0.017	0.088	1 0961	0.002
Class & Fractor*	> 33.000	2012-0014	0.1	9.4	2.0	4.004	2.9	0.030	0.190	1 - 3 951	100.0
MARIE EMPARTMENT NA OTARIAM OF A		100	9.1	: 0.5	1.2	: 0.003	20	0.021	E 174	0.492	9.993

Source EEFACRETA VLOT-Dissuits, Assault Sementics
1 - Citrus Biases 7 - Medium Heavy-Octy Trucks
2 - Citrus Biases 7 - Medium Heavy-Octy Trucks

On easer restricts costed on Lorsy music notices gas ECASs, founded natural pas (LNS), or claimes due or with adar-despites a rechnology or reduce ASs and PAL. The "ASter Proper" emission landers are limited on by soul CAS solvation. Intereste, situal-resistant asserted in CAS solvation.

# Work Statement

Plumas County Department of Public Works budgeted for our Co-Funding commitment for the 2019/2020 Fiscal Budget Year. The project starting date will be no sooner than January 1, 2020 and will be completed by December 31, 2020 if the AB2766 DMV Surcharge Funds are awarded for this project.

The sequence of work activities will be as follows:

- 1. All necessary paper work including contract agreement signed between NSAQMD and Plumas County Department of Public Works and any authorizations from NSAQMD necessary to begin work on the project.
- In accordance with Plumas County's Purchasing Policy a purchase order will be issued to Diesel Emissions Service (DES) in Redding, Ca. for the installation of two DPF's on two 1996 Freightliner trucks.
- 3. We will deliver both trucks to DES for installation to begin.
- 4. Once completed we will place the trucks back into service.
- 5. Our shop personnel will monitor the onboard emissions computer and perform opacity tests as required. The miles traveled will be tracked with the Drivers Daily Report and the data will be input to the shops Computerized Fleet Analysis Program.
- 6. Plumas County has a proven successful maintenance program in place that will ensure equipment longevity beyond the Project Analysis Period of 10 years.
- 7. Plumas County Department of Public Works will place an article in the local newspaper acknowledging the AB2766 DMV funds were provided by NSAQMD and the success of the program.

# Installer Information:

Diesel Emissions Service 17011 Clear Creek Road Redding, Ca. 96001 PH: 530-241-2851

FAX: 530-2451-0870

Contact person: Jerry Baker

# Funding Request/Breakdown of Costs

Task	AB2766 DMV Funds	In-Kind Contributions Plumas County	Qty.	Co- Funding	Cost
Delfver and pickup trucks from DES in Redding, CA. (Includes Equipment & employee rates)		S1.137.06	2		\$2,274.12
Hug Mobiclean R40 DPF, mu filer, brackets, bands, emclosure, piping, etc.	(\$3,622.55) x 1		2	\$16,140.42	\$32,280.84 (\$3,622.55)
Administrative Costs		\$500.00	2		\$1,000.00
Labor	•		2	\$2,500.00	\$5,000.00
Misc. Supplies			2	100.00	\$200.00
Freight (Incoming)			2	S500.00	\$1,000.00
Sales Tax			2	\$1,213.68	S2,427.36
TOTAL (Complete with installation of 2 DPF's on 2 Trucks)					S44,182.32
AB 2766 Funds					(\$3,622.55)
Total w/AB2766 Funds					\$40,559.77

Above is a general breakdown of estimated costs. This is an estimate based on a quote from Diesel Emission Services in Redding, Ca. and using the DPF Emission worksheet to calculate possible AB2766 DMV Funding.

Plumas County Department of Public Works will not change or adjust the amount of requested AB2766 Funds. Public Works will increase the Co-Funding if the total cost of the project is higher than estimated.

Amount of AB 2766 Funding Requested: \$ 3,622.55

Amount of Co-Funding & In-Kind Contributions Expected: \$40,559.77

[Complete with Installation of 2 DPF's on 2 class 8 trucks] Total Project Cost: \$44,182.32

# Schedule of Deliverables/Monitoring

If the AB2766 DMV Surcharge Funds are awarded for this project, the starting date will be no sooner than January 1, 2020 and will be completed by December 31, 2020. When all necessary paper work is completed with NSAQMD, Plumas County Department of Public Works will make an appointment with Diesel Emission Services (DES).

Public Works will deliver 2 (two) 1996 Freightliners to DES in Redding for the DPF exhaust retrofit. Once complete we will put the Trucks back into service and monitor the emission control system as necessary.

Our shop personnel will monitor the onboard emissions computer and perform opacity tests as required. The miles traveled will be tracked with the Drivers Daily Report and the data will be input to the shops Computerized Fleet Analysis Program.

Plumas County has a proven successful maintenance program in place that will ensure equipment longevity beyond the Project Analysis Period of 10 years.

#### **Exhibit Summary Sheet**

**Proposing Entity:** 

Sierra Senior Services

**Contact Person:** 

Sharon Romack, Executive Director

Address:

PO Box 4152

Truckee, CA 96160

Phone:

530-550-7600

FAX:

530-587-0408

**Total Project Budget:** 

AB2766 Funds

Co-Funding

**Total Project Costs** 

Capital Costs

\$37,800

\$15,000

\$52,800

**Operating Costs** 

227,0UL

0

0

TOTAL

<u>\$37,800</u>

\$15,000

\$52,800

Type of Project:

**Reduced Emission Vehicles Project** 

Implementation Area for Project: Eastern Nevada County

A. Estimated Emission Reductions:

Reactive Organic Gases: 16.75 Nitrogen Oxides: 20.13 PM: 8.65

B. Vehicle Miles Traveled (VMT) Reduced: 18,000

Single Occupancy Vehicle Trips Reduced: 520

C. Number of people reached per day through public education: 10,000 - 15,000

Cost-effectiveness: \$99.63 per pound

#### **Brief Project Description:**

Replace a 2004 Honda Pilot with an all-wheel drive Electric Vehicle to deliver Meals on Wheels to food insecure seniors in Eastern Nevada County each weekday. The vehicle will have enough cargo capacity to carry our hot packs and coolers needed to deliver the food at the correct temperatures. The vehicle will have signage on the sides that says "This Zero Emission Electric Vehicle provided by a grant from Northern Sierra Air Quality Management District" or wording of your suggestion.

# REQUEST FOR PROPOSAL CONTENTS CHECKLIST

	SIP SAME SELVICES
Property and	atoy is consistent that with your applications
V	Littles Summery Show years
1	Request by Proposes Coments Checkbat - page
$\checkmark$	Ampurampu gana/Reodynian - Inda 3
V	Project Description - page
V	Proper Organization/Background - page 52
$\vee$	Enussions Henefus Com-Pilectic carse - page 5/6
V	Worl, Streenews - page
abla	Lumling Requestional down of Cost pays 18
$\sqrt{}$	Schnidate of their engineer's lossessing - page 9/10
	All Pages Numbered .
	there must have chilginal
	(CHECK ONE ONE) Quantifiable Project
	- (N) -
1	Reduced Universal Vehicles Project

Attechment 2-1



Local Marks on Wheels Provides

August 8, 2019

The Northern Sierra Air Quality Management District has invited Sierra Senior Services to submit a grant proposal for the purchase of an electric vehicle for our Meals on Wheels delivery fleet. Sierra Senior Services is a private, non-profit 501 ( C ) 3 entity (Tax ID Number 68-0484075) who is willing to submit the application and if chosen, to accept the grant for the above purpose.

The Board of Directors of Slerra Sentor Services hereby authorizes our Executive Director, Sharon Romack, to act on its behalf in this matter, to apply for and accept the grant, to sign all necessary grant applications, contracts, amendments and other required documents and to perform any and all responsibilities in relationship to the contract.

Sheren I Remack	August 8, 2019
Authorized Representative Name	Date
Alem & Romack	
Signature	
John Metrose	August 8, 2019
Chairman/President of the Board of Directors Name	Date
four Milron	
Signature	
Mary Anderson	August 8, 2019
Secretary of the Board of Directors Name	Date
May to Anews	
Signature /)	

Sierra Senior Services • 10040 Estata Drive • P.O. Box 4152 • Trucime, CA • 96160 Fed 10# 68-0404075 (530) 550-7600 • www.sierraseniors.org

#### D. Project Description

Sierra Senior Services is a nonprofit 501 (c) 3 organization established in 2001 to provide meals to seniors through the Meals on Wheels program. We provide 32,000 meals annually on a daily basis with approximately 30% of the meals going to residents of Nevada County (almost 10,000 meals). Our agency assists seniors to remain independent and in their own homes by providing them with a hot nutritious meal as well as a safety check for participants living alone since someone is seeing them regularly. Our fleet of 6 gas powered vehicles travel close to 200 miles per day, 5 days a week and are older—from a 2004 Honda Pilot to a recent grant-funded purchase of a 2016 Ford Escape. The need to replace the older vehicles with cleaner air vehicles is imperative. This grant would allow us to purchase an electric vehicle which would be the beginning of a transformation of our fleet to electric powered vehicles.

Going from a gas-powered vehicle to an electric vehicle would save 100% of the emissions emitted now by the 2004 Honda Pilot that the electric vehicle would replace. Between the age of the vehicle and that start and stop nature of our driving, this car currently gets less than 12 miles per gallon. The route in Eastern Nevada County covers about 35 miles each day so the Honda Pilot burns at least 3 to 4 gallons of gas each day. To go from using gas and creating emissions to a vehicle with NO EMISSIONS would help the quality of the air for all. See the chart in section F for complete details. An electric vehicle would also save us money since we would not have to purchase gas for the vehicle or worry about oil changes.

Charging stations are available throughout the town of Truckee which is where our offices are located and where the vehicle would be housed. In preliminary conversations, I have already gained tentative permission to use these charging stations for our needs. Since we lease the area where we house the cars, it would not be practical to install a charging station there but we could certainly talk with the building's owners about installing one later to be used by us and other tenants, too. There are rebates and incentives offered for buildings to install charging stations and this might be attractive to the building owners, too.

Sierra Senior Services is a well-known organization in the community and could serve as a model to other organizations who may be considering electric vehicles for their own use. The vehicle would proudly say "This Zero Emission Electric Vehicle provided by a grant from Northern Sierra Air Quality Management District" on both sides of the car and would be seen as we drive the vehicle as well as when it is parked in front of clients' homes.

# E: Project Organization Background

Sierra Senior Services is a 501(c)(3) non-profit organization that was established in 2001 to provide daily meals to at-risk seniors 60 years of age or older living in the Truckee and North Lake Tahoe Area who are unable to shop for or prepare their own meals. This service is unduplicated in the community and provides more than a meal to isolated seniors who are often alone. The volunteer who delivers the meal also brings a warm smile and a daily wellness check to these at-risk seniors. No one is turned down for this program and as of today we have no walting list. We are able to accommodate all who need this hot nutritious meal and friendship. We ask for contributions from participants but they provide a very small percentage of our revenue. Grants, government funding and fundraising are our major sources of revenue.

We provide 32,000 meals annually on a daily basis with approximately 30% of the meals going to residents of Nevada County (almost 10,000 meals). Community volunteer drivers deliver these meals driving close to 200 miles each day on 6 different routes. Because of our tight budget we depend on automobile donations from the community or grants from other organizations to fill our fleet. Our most recently acquired vehicle is a 2016 Ford Escape which was purchased this year with funds from the Lahontan Community Foundation. As we would do with a Northern Sierra AQMD grant, we received the contract for the funds, shopped for an appropriate vehicle and purchased the vehicle with the funds we received. Updates and reports are provided to Lahontan as they requested. This same process would be followed for a grant from Northern Sierra AQMD for an electric vehicle.

Because some of our funding comes from the state of California Agency on Aging, we must keep complete records of what funding was received from the state, how it was spent and what county it was allocated to. This same record keeping would be done for funds received from the Northern Sierra AQMD. Because we would be going from higher emissions to NO EMISSIONS, it should be very easy to prepare the report on the decrease of emissions from the new vehicle!

# F. Emission Benefits/Cost Effectiveness

The proposed Electric Vehicle would drive about 35 miles per day, five days per week. There would be 260 trips out and 260 trips back for the year for a total of 18,000 per year. These numbers are based on actual mileage of the Nevada County route that is currently covered by the 2004 Honda Pilot. As our program grows, more clients may be added which would increase the number of miles driven each day but not the number of trip ends.

Because we are a rural area our cost-effectiveness is greater than \$10 a pound. An electric vehicle would totally cut out gas emissions for at least 18,000 miles in 2020.

Please see the following table which was completed with the help of The District.



Villas per Yabr	c/mile		1	N .	ALO a		
Averaga Trip Ends	0 491 6/trup end 0 577	300.0s 8838 8/4es	lbs/year 19 47 lbs/year D 66	Miles per year O Average Trip Enda O	g/mile 0 g/uip end 0	6/year 0 2/year 0	1bs/year 0.00 1bs/year 0.00
	Totals	3138	20 13		NOx savings:	9138	20.13
Miles per year 18000 Average Trip Ends 520	pm g/mile 0.218 g/uip and 0.008 Totals:	g/year 3924 g/year 4.16 3928	lbs/year 8.64 ibs/year 0.03 8.65	Milas per year O Average Trip Ends O	g/mile O g/trip end O Totals:	O Clycar	10s/year 0 00 (bs/year 0 00 0.00
Miles per year 18000 Average Trip Ends 520	18000 0.392 7056 Average Trip Ends g/uip end g/year 520 1.054 548.08	g/year 7056 g/year 548 08	ibs/year 15.542 ibs/year 1.207	Miles per year O Average Trip Ends O	ROG g/mile 0 g/wip end 0 Totals:	g/year 0 g/year 0	ths/year 0.00 ths/year 0.00
					ROG savings:	7604 g/year	16.75

Total Savings: 20570 46 Grant Award Requested: \$ 37,800.00 for 10 years Capital Recovery Factor: 0.12

> Cost Effectiveness: S 99.63 per pound

16.75 ths/year

Old Engine EmFact obtained from Table 3, Methods to Find the Cost-Effectiveness of Funding Air Quality Projects, May, 2013 - CARB

It should be noted that the NMOG+NOx EmFac was split as 76% NOx and 24% ROG

Capitol Recover Factors 1 year 1.03 0.35 3 years 0.22 5 years 0.16 7 years 0.12 10 years 0.10 12 years 0.08 15 years 0 07 20 years

Page 6 | 10

## **G.** Work Statement

Task 1 - January 6, 2020	Acknowledge grant award through press release, website and eblast to supporters.
Task 2 – January 6, 2020	Research electric vehicles equipped to drive in the mountains and snow. Equipment must include Four Wheel/All-Wheel Drive and have a cargo capacity of 34 cubic feet or more.
Task 3 – January 6, 202	Reach out to other organizations or do a fund drive for additional funding (if needed)
Task 4 - February 15, 2020	Identify preferred makes and models. Determine availability of makes and models and price to assure there are sufficient funds available. Solicit additional funds if needed
Task 5 - March 15, 2020	identify charging station that will be used and make arrangements with property owner to charge vehicle several times during the week at that location
Task 6 - March 20, 2020	Manadaha wilah dantara musut men
	Negotiate with dealer to purchase car
Task 7 - March 25, 2020	Register car with DMV
Task 7 - March 25, 2020	Register car with DMV  Order decals for back and sides of vehicle acknowledging how we
Task 7 - March 25, 2020 Task 8 - March 28, 2020	Register car with DMV  Order decals for back and sides of vehicle acknowledging how we acquired the vehicle.  Release press information to all local media acknowledging grant(s) that made purchase possible, introducing the new vehicle and discussing
Task 7 - March 25, 2020  Task 8 - March 28, 2020  Task 9 - March 30, 2020	Register car with DMV  Order decals for back and sides of vehicle acknowledging how we acquired the vehicle.  Release press information to all local media acknowledging grant(s) that made purchase possible, introducing the new vehicle and discussing benefits of an electric vehicle over gas powered vehicle.  Add Information to website about "Going Electric" with the vehicle and send email blast to all supporters acknowledging the grant and purchase

## H. Funding Request/Breakdown of Cost

Task	Total Funds Needed	Funder	\$ requested from AQMD	\$ of matching funds	Type of expenditure
Task 1	\$200	in-kind - Volunteer	0	\$200	Admin
Task 2	\$500	Area 4 Grant covers Admin costs	0	\$500	Admin
Task 3	\$300	Area 4 Grant covers Admin costs	0	\$300	Admin
Task 4	\$500	Area 4 Grant covers Admin costs	0	\$500	Admin
Task 5	\$100	Area 4 Grant covers Admin costs	0	\$100	Admin
Task 6	\$35,500	NSAQMD	\$36,300	0	Equipment
Task 7	\$1000	NSAQMD	\$1000	0	Equipment
Task 8	\$400	NSAQMD	\$400	0	Equipment
Task 9	\$200	in-kind - Volunteer	0	\$200	Admin
Task 10	\$200	in-kind — Volunteer	0	\$200	Admin
Task 11	\$100	NSAQMD	\$100	0	Equipment
Task 12	\$100	In-kind — volunteer	0	\$100	Operating
TOTALS	\$39,100		\$37,800 (94.5%)	\$2,100 (5.5%)	

The only equipment that will be purchased is the Four-Wheel or All-Wheel drive vehicle and the identifying decals for the sides of the car. 100% of the cost of these items will be covered by the AB 2766 DMV Surcharge funds. Until we know what the grant will be and the cost of getting a vehicle that meets our specifications, we will not be able to identify another grantor to provide the remaining funds needed for the purchase. At this time, we are estimating the cost of the vehicle to be \$35,500 with \$1000 for the registration and \$500 for the identifying decal. The grant of AB2766 funds will cover almost 95% of the cost of this project with the remaining covered by an Area 4 Agency on Aging grant and in-kind

donations. If the grant from AB 2766 funds is less than \$20,000, we may not be able to purchase the vehicle on our timeline since another grant would have to be found for a larger portion of the cost.

# 1. Schedule of Deliverables/Monitoring Program

Task 1 -	Acknowledgment of grant award through press release, website and eblast to supporters.	Due January 10, 2020
Task 2 –	Research electric vehicles equipped to drive in the mountains and snow. Equipment must include Four Wheel/All-Wheel Drive and	Due January 30, 2020
	have a cargo capacity of 34 cubic feet or more.	
Task 3 -	Reach out to other organizations or do a fund drive for additional funding (if needed)	Due February 15, 2020
Task 4	identify preferred makes and models.  Determine availability of makes and models and price to assure there are sufficient funds available. Solicit additional funds if needed	Due February 28, 2020
Task 5	Identify charging station that will be used and make arrangements with property owner to charge vehicle several times during the week at that location	Due March 15
Task 6	Negotiate with dealer to purchase car	Due March 25, 2020
Task 7	Register car with DMV	Due March 28, 2020
Task 8	Order decals for back and sides of vehicle acknowledging how we acquired the vehicle.	Due April 1, 2020
Task 9	Release press information to all local media acknowledging grant(s) that made purchase possible, introducing the new vehicle and discussing benefits of an electric vehicle over gas powered vehicle.	Due April 1, 2020
Task 10	Add information to website about "Going Electric" with the vehicle and send	Due April 1, 2020

Page 9 | 10

# email blast to all supporters acknowledging the grant and purchase of the vehicle.

Task 11

Have decals installed on vehicle

Due April 6, 2020

Task 12

First run with the electric vehicle

Due April 13, 2020

This timeline is based on AB2766 funds being granted for \$37,800 total.

The project objectives will be measured by totaling the mileage used each quarter and determining the gas emissions eliminated for those miles. At the end of the year we will be able to see the total amount saved.



Pacerone vin

Local Meals on Wheek Provider

August 22, 2019

Northern Sierra Air Quality Management District 200 Litton Drive, Suite 320 Grass Valley, CA 95945 Attention: Joe Fish

Dear Mr. Fish:

Following is the proposal for a grant from the AB2766 DMV Surcharge funds for the Grant Year 2020. Our proposal is for the purchase of a Zero Emissions Vehicle to replace a gas powered 2004 Honda Pilot that is used to deliver Meals on Wheels to homebound seniors in Eastern Nevada County each weekday.

Sierra Senior Services is a nonprofit 501 (c) 3 organization (Tax ID Number 68-0484075) that was established in 2001 to provide meals to seniors through the Meals on Wheels program. Our fleet of six vehicles, which are all gas powered, provides transportation for this very important service but also produces emissions that could be zeroed out through the use of electric vehicles. We are requesting a grant to begin the process of transforming our fleet with the purchase of our first Zero Emissions Vehicle.

Thank you for considering this grant proposal. I look forward to answering any questions and working with you.

Sincerely,

Sharon Romack
Executive Director

Ahan Ronack



Local Mosts on Wheek Provide

# A. EXHIBIT SUMMARY SHEET

Proposing Entity (include other participating entities): Fire Safe Council of Nevada County

- 1 obesta 2	ment (mentage other p	articiparing entities): 1	are Sale Council of Nevada County
Contact Person: Address:	Jamie Jones, Executi 143 B Spring Hill Di	., Suite 13	
Augress:	Grass Valley, CA 95	945	
Phone #:(530) 272-1122	FAX #:	(530) 272-3232	EMAIL: jamle@areyoufiresafe.com
Total Project Budget:			
	AB 2766 Funds	Co-Funding	Total Project Costs
Capital Costs	\$45,000.00	10.000	<u>55,000</u>
Operating Costs	\$0	\$0	<u>\$0</u>
TOTAL	<u>\$45,000.00</u>	10,000.00	<u>55,000,00</u>
<u></u>			i de la companya de l
	cribe the Impleme Emission Reduct		Project (e.g. city, county, region):
A. Emi	ssion Reductions (1t	ns/vr)	
	i i		0.11
			n Oxides <u>12.575</u> PM <sub>10</sub> <u>5454</u>
B. Veh	icle Miles Traveled	(VMT) Reduced	0
Sing	gle Occupancy Vel	nicle Trips Reduced	0
C. Nun	nber of people reach	ed per day through pu	blic education0
Cost-effect	iveness: \$ 80	6.39 per pound (AB	2766 Funds (Inly)
	7		
	At	tachment 1 - 1	
Northern Sierra AQMI	)	OTL - A	Exhibit Summary

# B. REQUEST FOR PROPOSAL CONTENTS CHECKLIST

	Applicant: The Sale Council of Nevada County
	Please complete and attach this checklist with your application.
<b>V</b>	Exhibit Summary Sheet - page
	Request for Proposal Contents Checklist - page
1	Authorization Letter/Resolution - page
	Project Description - page
	Project Organization/Background - page 5
$\checkmark$	Emissions Benefits/Cost-Effectiveness - page
$\checkmark$	Work Statement - page
$\checkmark$	Funding Request/Breakdown of Cost - page
	Schedule of Deliverables/Monitoring - page
	All Pages Numbered
	Proposal, One Original
	(CHECK ONE ONLY) Quantifiable Project
7	- OR -
	Reduced Emission Vehicles Project

#### C. AUTHORIZATION RESOLUTION

# FIRE SAFE COUNCIL OF NEVADA COUNTY, INC. BOARD ACTION / RESOLUTION 1819-27

BEFORE THE BOARD OF DIRECTORS OF THE FIRE SAFE COUNCIL OF NEVADA COUNTY, INC., COUNTY OF NEVADA, STATE OF CALIFORNIA.

APPROVING THE NORTHERN SIERRA AIR QUALITY MANAGEMENT DISTRICT - AB 2766 DMV SURCHARGE FUND PROPOSAL SUBMISSION FOR ZERO EMMISION VEHICLE FUNDING REQUEST.

BE IT RESOLVED by the Board of Directors of the FIRE SAFE COUNCIL OF NEVADA COUNTY, INC., that said Board does hereby approve the proposal request with the Northern Sierra Air Quality Management District dated June 27th, 2019.

This agreement provides for funding requested for purchase of a Zero Emission Vehicle, Tesla Model S, Long Range, Dual Motor All Wheel Drive in fiscal year 2018-19.

BE IT FURTHER RESOLVED that the Chairman of said Board be and hereby is authorized to sign and execute said agreement on behalf of the FIRE SAFE COUNCIL OF NEVADA COUNTY, INC.

The foregoing resolution was duly passed and adopted by the Board of Directors of the FIRE SAFE COUNCIL OF NEVADA COUNTY, INC. at a regular meeting thereof, held on the 27<sup>th</sup> day of June 2019 by the following vote:

AYES: 11 NOES: 0 ABSENT: 0

I, Donn Thane, Board Secretary of the FIRE SAFE COUNCIL OF NEVADA COUNTY, INC., California does hereby certify that this is a true and correct copy of the original.

Signature

NOTARY SEAL CERTIFICATION

C. Project Description - The Fire Safe Council of Nevada County will utilize Northern Sierra Air Quality Management District AB2766 funds continue to purchase a Zero Emissions Vehicle (ZEV) for the Fire Safe Council of Nevada County, to replace an older hybrid vehicle previously awarded through Northern Sierra Air Quality Management District in 2006. Currently, FSCNC staff travels approximately 2,000 miles per month, equaling a total of nearly 25,000 miles per year. Vehicle miles are accumulated while traveling to and from projects, meetings and other FSCNC obligations. With the overwhelming response to creating a fire adaptive community, The Fire Safe Council has seen an increase in meeting, speaking and additional commitments. On average our office now has about 3 commitments a day outside the office, more than exceeding the 520 trip ends calculated. The 2006 Toyota Highlander, our current hybrid vehicle, has over 180,000 miles on it currently and experiencing regular mechanical issues due to age.

Research by FSCNC staff has concluded that there is currently one ZEV on the market that meets the needs of the FSCNC. The Tesla Model S, Long Range, Dual Motor AU Wheel Drive, which features the available all-wheel drive option, which is necessary for field work involving fuels reduction projects in remote locations and elevations in Nevada County that receive several inches of snow in the winter months.

Traveling approximately 300 miles on a nightly charge will save approximately an additional \$1000 a year in fuel alone, over the estimated \$2,500 per year we currently save by utilizing a hybrid vehicle, in addition to meeting the zero emission vehicle emission standards. If grant funding is received, the FSCNC will purchase the best suited zero emission vehicle with available allwheel drive, thus eliminating both the current Toyota Highlander hybrid vehicle and any AB2766 non-compliant older vehicles from the FSCNC fleet and leaving the organization with an environmentally friendly, economically viable vehicle. Additionally, upon purchase of the vehicle, the FSCNC will hold a press/media event, thanking the Northern Sierra Air Quality Management District for providing grant funds allowing the purchase of the vehicle. The vehicle will also be labeled with the FSCNC logo and marked as being a Zero Emission Vehicle purchased through funds from the NSAQMD.

Co-Funding will be provided in part by Tesla. They have agreed to provide fleet pricing to our organization as a 50lc3 non-profit. The fleet pricing may be considered up to a \$10,000 dependent

upon model, options, date and completion of purchase. In addition to the fleet pricing discount, a federal tax credit of \$1,875 and a state tax credit of \$2,500 are available upon completion of a purchase of a zero emissions vehicle. The FSCNC Executive Director will administer funds and ensure that the project is managed to completion. The purchased vehicle will receive routine maintenance, including lubrication and filter maintenance, tire rotations and suspension checks on an approximate 5,000-mile basis as recommended by the vehicle manufacturer, paid for by FSCNC.

Data collection that will be conducted to quantify or qualify motor vehicle emissions reductions and/or vehicle miles traveled reductions: Mileage collection data will be provided by FSCNC through GPS monitoring and logging. FSCNC will reconcile mileage log monthly with both the internal grant accountant and voluntary auditing provided by an outside firm.

The project details have been factored using the Methods to Find the Cost-Rifectiveness of Funding Air Quality Projects — Emissions Factors Tables 2018 Edition, Zero Emissions light-duty to medium-duty ZEV milligrams per mile.

D. Project Organization/Background -To provide Firewise education and programs to enhance emergency preparedness for catastrophic wildfire to all citizens in Nevada County in order to reduce the loss of life, property and natural resources and to promote Firewise Communities/USA® to network with other Fire Safe Councils, Firewise Communities/USA®;, governmental agencies and foundations for the benefit of the citizens of Nevada County.

The goals of the Fire Safe Council of Nevada County are:

- 1. Promote a healthy forest.
- 2. Improve air and water quality.
- 3. Reduce the potential for fire loss damage.
- Improve fire safety by reducing dangerous fuel loads.
- 5. Educate the public about fire threat and fire prevention measures.
- 6. Reduce vegetation waste stream to landfills.
- Coordinate a countywide Fire Plan, with the cooperation of local fire agencies.
- 8. Improve circulation for evacuation.
- 9. Serve community and neighborhood fire safety needs.
- Operate through in-kind donations and financial contributions

- E. <u>Emission Benefits/Cost Effectiveness</u> According the attached calculations below (based on *Methods to Find the Cost-Effectiveness of Funding Air Quality Projects* 2018 Emission Factors Table for ZEV and the appropriate tables for the model year 2006 emission outputs). The funding and purchase of a Zero Emission vehicle will provide a cost effectiveness rate of \$86.39 per pound. This is calculated with the assumption of the anticipated 25,000 miles per year and a capital recovery rate of 0.12 at 10 years. The new ZEV saves 12,575(NOx) + 5,454(PM) + 10,348(ROG) = 28,377(Total Savings).
- F. Work Statement This will be a simple purchase. All documentation and records will be verified by the executive director and grant accountant on staff. All internal accounting protocols and policies will be followed. Additionally, vehicle mileage may be tracked with the attached GPS unit and reviewed by Executive Director. Upon approval of funding, the Executive Director will be charged with the purchase of the ZEV vehicle no sooner than January 1<sup>st</sup>, 2020. The Fire Safe Council will acknowledge receipt of funding through a press release to the local media outlets and announcements at upcoming Board of Director meetings and events. Said vehicle will acknowledge the Northern Sierra Air Quality Management District with an affixed logo or signage.
- G. Funding Request/Breakdown of Cost AB 2766 funding request is \$45,000. Co-Funding to be provided by Fire Safe Council (admin costs), Tesla fleet pricing and ZEV incentives through the state of California, \$10,000. Total project funding \$55,000.

<b>Total Project Budget</b>	Total	Pro	ect	Bud	get
-----------------------------	-------	-----	-----	-----	-----

	AB 2766 Funds	Co-Funding	<b>Total Project Costs</b>
Capital-ZEV Purchase	\$45,000.00	<b>\$6.625</b>	<u>\$51.625</u>
Operating Costs	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Administrative Costs	<u>\$0</u>	<u>\$1500</u>	<u>\$1500</u>
ZEV Incentives	\$0	<u>\$1875</u>	\$1875
TOTAL	\$45,000,00	\$10,000.00	\$55,000.00

H. Schedule of Deliverables/Wonitoring Program — Upon completion of approved contract, the vehicle will be purchased by 3/31/2020. Logo or signage will be affixed by 6/30/2020. GPS monitoring will be ongoing.

12/9

	Old Engli	ne	
	NOx		
Miles per year	g/mile	g/year	lbs/year
25,000	0.491	12275	27.04
Average Trip Ends	g/trip end	g/year	lbs/year
520	0.577	300.04	0.66
	Totals:	12575	27.70
	PM		
Miles <b>per</b> year	g/mile	g/year	lbs/year
25000	0.218	5450	12.00
Average Trip Ends	g/trip end	g/year	lbs/year
520	O.QO8	4.16	0.01
	Totals:	5454	12.01
	ROG		•
Miles per year	g/mile	g/year	lbs/year
25000	0.392	9800	21.586
Average Trip Ends	g/trip end	g/year	lbs/year
520	1.054	548.08	1,207
	Totals:	10348	22.79

	New Engl	ne	
Milles per year 25000 Average Trip Ends 520	NOx g/mile 0 g/trip end	g/year O g/year O	ibs/year 0.00 lbs/year 0.00
	Totals.	0	0.00
	NOx savings:	12575	27.70
Miles per year 25000	g/mile 0.	g/year O	ibs/year 0.00
Average Trip Ends 520	g/trip end Q	g/year O	lbs/year 0.00
	Totals:	0	0.00
	PM savings:	5454	12.01
Miles per year 25000	g/mile	g/year O	lbs/year 0.00
Average Trip Ends 520	g/trip end 0	g/year O	ibs/year 0.00
	Totals:	0	0.00
***	ROG savings:	10348	22.79

#/year | ibs/year | Total Savings: 28377 | 63 | Grant Award Requested: \$ 45,000.00 | Capital Recovery Pactor: 0.12 | for 10 years

Cost Effectiveness: \$ 86.39 per pound

#### Notes:

Old Engine EmFacs obtained from Table 3, Methods to Find the Cost-Effectiveness of Funding Air Quality Projects, May, 2013 - CARB New Engine Emission Factors obtained from CARB Executive Order A-010-2044, Exhaust Emission Standards and Certification Levels It should be noted that the NMOG+NOx EmFac was split as 76% NOx and 24% ROG

Capitol Recover Factors

1 year	1.03
3 years	0.35
5 years	0.22
7 years	0.16
10 years	0.12
12 years	0.10
15 years	80.0
20 years	0.07



(5)

## **EXHIBIT SUMMARY SHEET**

Proposing Entity (include of BEAR YUBA LAND TRU	other participating er ST	ntities):	SEP 3 2
Contact Person: Erika Ser	ward		
Address: P.O. Box 1004, ( Office at 12183	Grass Valley, CA 9594 Auburn Rd, Grass Va	45 Hey, CA 95945	
Phone #: 530-272-5994			
Total Project Budget:	AB 2766 Funds	Co-Funding	EMAIL: erikn@bylt.org  Total Project Costs
Capital Costs	\$ 15,000	\$ 2.300	\$35,110
Operating Costs	\$ n/a	\$ n/a	\$ n/a
TOTAL	\$ 15,000	\$ 2,300	\$ 35,110
Type of Project: (check	one)		
_x Quantifia	ble Project		
Reduced	Emission Vehicles P	roject	
Implementation Area fo	r Project: Check	if District-wide	
		the Project (e.g. city	
Estimated Emission Red	uctions:		
A. Emission Reduction	ons (lbs/yr)		
Reactive Organic	Gases13.42	Nitrogen Oxides	9.61 PM <sub>2.5</sub> _2.06
		) Reduced10,500	
	Vehicle Trips Redu		
		ough public education	_
Cost-effectiveness:		pound (AB 2766 Ft	<del>-</del>

Brief Project Description: Bear Yuba Land Trust seeks to build a short trail that will provide a link between two Grass Valley neighborhoods and allow for and facilitate travel by means other than the motor vehicle, thus improving connectivity between places where people live and places where they go for recreation, school, work and other activities.

152

# REQUEST FOR PROPOSAL CONTENTS CHECKLIST

Applicant: Bear Yuba Land Trust					
Please complete and attach this checklist with your application.					
х	Exhibit Summary Sheet - page 1				
x	Request for Proposal Contents Checklist - page2				
х	Authorization Letter/Resolution - page3				
X	Project Description - page4_				
x	Project Organization/Background - page5				
х	Emissions Benefits/Cost-Effectiveness - page5				
x	Work Statement - page6				
х	Funding Request/Breakdown of Cost - page7				
x	Schedule of Deliverables/Monitoring - page8				
x	All Pages Numbered				
X	Three Copies Of Proposal Plus One Original				
	(CHECK ONE ONLY)				
x	Quantifiable Project				
	- OR -				
	Reduced Emission Vehicles Project				



#### September 4, 2019

#### Becaused Directors

Roben Smrit
Presiden
Knthryn McCaman
Fred Holden
Fred Holden
Fran Cole
Treasung

Andy Cassino
Terry Hundemer
Letsy Litchfield
Robin Milam
Trent Pridemore
Tim Ackeman

Erika Seward
Co-Executive Dimeter

Erin Tan Co-Executive Dinytor Joseph Fish
Deputy Air Pollution Control Officer
Northern Sierra Air Quality Management District
200 Litton Orive, Suite 320
Grass Valley, CA 95945

Dear Joe,

On behalf of Bear Yuba Land Trust, I'd like to thank you for the opportunity to apply for the AB 2766 DMV Surcharge Program. Our proposed project is authorized by our leadership team for your review:

# **BYLT Community Trail Project: Connecting Neighborhoods in Grass Valley**

The contents of this packet outlines our project description, proposal, costs and benefits that would support the overall health of the air quality of Nevada County by reducing emissions.

Please feel free to contact me with any questions or if additional information is needed.

Sincerely,

Erika Seward

Co-Executive Director





## Northern Sierra Air Quality Management District AB 2766 DMV Surcharge Fund Grant Program

**Project Description** 

The objective of this project is to build a short trail that will provide a link between two Grass Valley neighborhoods and allow for and facilitate travel by means other than the motor vehicle. In addition, this trail linkage connects more distant sites by facilitating travel over other existing trails that enable the user to extend their non-motorized travel far beyond the two neighborhoods.

Bear Yuba Land Trust (BYLT) has been working with local government, other non-profits, and private property owners to develop Community Trails that serve not only as a health and recreation asset, but also provide a non-motorized travel alternative within its service area. We are requesting \$15,000 to support these efforts with the proposed BYLT Community Trail Project: Connecting Neighborhoods in Grass Valley (Doris-Bragg).

The proposed connecter trail between Bragg Avenue and Carol & Doris Drives first came to the attention of the BYLT in 2008. Since that time some of the property has changed hands. Four properties must be crossed to connect the two public streets and the neighborhoods they serve. All four property owners have signed agreements stating that they intend to grant a public trail easement over their properties when a trail alignment is agreed to.

Bragg Avenue serves the Alta Hill neighborhood and provides access to Dee Mautino Park, a Grass Valley City Park. From Dee Mautino Park one can also access Lyman Gilmore and Scotten Schools via Alta Hill Mine Road, the Bailey Trail and the Cemeteries located on West Main Street across from the Schools. Carol and Doris Drives provide access to Downtown Grass Valley, Cypress Hill neighborhoods, the Litton Trail, Sierra College and Nevada Union High School. The existing public travel ways require a person in one neighborhood to travel as much as two miles along a circular route that often lacks any sidewalks, trails, or bike lanes to reach a point that would be less than a mile away if the trail is completed (see map, Appendix A). Furthermore, the travel routes that are used to get to the trail site are quiet residential streets, rather than major thoroughfares.

The trail will be constructed for non-motorized use and allow for use by pedestrians, bicycles, and devices used by mobility impaired. The trail surface will generally be native earth, however where the trail must be constructed at a steep grade, grid pavers will be installed to provide a stable surface. Boardwalks, puncheon, and bridges will also be constructed to provide for safe travel over ravines and areas that become very wet during the rainy season. Rock retaining walls will also be constructed where the trail must be routed up steep side slopes.

The trail width will be 3 to 4 feet with some wider areas to provide for safe passage. Privacy screening may also be installed where the trail passes close by one of the residences. Upon completion of the project, signing will be installed posting the rules and regulations for use.

Trail construction will be accomplished primarily by volunteers managed by BYLT. BYLT has constructed more than 20 miles of trails using volunteers as the major source of labor over the past ten years. AB 2766 funds will be used to hire equipment with operators, purchase grid pavers, lumber, hardware, stone, and signs for the project, as well as to supervise the construction.

Project Organization/Background

Bear Yuba Land Trust was established in 1990 to preserve land and to build and maintain trails. Since 1990, the trail program has developed over 40 miles of public trails in co-operation with other trail organizations, local, State, and Federal government, and private landowners. In the past year, BYLT completed five trails. The trail along Wolf Creek, on City of Grass Valley property, was entirely constructed by volunteers with BYLT supervision. The Snowdrop Trail, on BYLT property on the Yuba River, was also constructed by volunteers, and three other trails on the same property were built by a trail contractor supervised by BYLT personnel. BYLT is currently working with the City of Nevada City to design and construct a trail from the City streets to the top of Sugarloaf Mountain.

Providing connectivity between places where people live and places where they go for recreation, school, work, or other activities by trail rather than driving has been a goal of BYLT from the beginning. The first trail project was the Litton Trail, a trail that connects businesses, homes, medical care, and schools. This trail, when completed, will enable people to travel safely by foot or bicycle between home and parks, schools and businesses, and work and play.

BYLT has experience in tracking expenses and meeting the accounting requirements of granting agencies. BYLT has completed numerous projects using grant funds. Two Licensed Building Contractors will provide in-kind services to oversee construction of structures. Other volunteers will provide both skilled and unskilled labor necessary to build the trail. All in-kind labor will be tracked with hours worked by each volunteer recorded on a daily basis. Tracking other expenses for this project will be relatively simple as the funding is to be used to purchase supplies, materials, and services needed to construct the trail, and to supervise trail

Success of the project will be measured by doing use counts on the trail and through interviews of trail users over a period of time. A trail counter may also be set up to get a count of users on the trail over a period of time. This data will be utilized to arrive at an estimate of the miles of automobile travel eliminated by use of the trail over a year.

Emission Banefits/Cost Effectiveness

The estimated emission reduction was calculated through a series of quantifiable measures. The present situation isolates two areas of Grass Valley from one another, while they physically abut one another. For example, to travel from an Alta Hill residence to a Cypress Hill residence, one must travel on Alta Street to Ridge Road, then to Hughes Road, then on to Lidster Street. The trail would allow a person to travel directly between the two neighborhoods. Providing a shorter travel distance is only one factor to be considered. If a more direct, safe, and pleasant non-motorized travel experience is provided many residents will choose to walk or ride a bicycle rather than get in an automobile to make the trip. The current situation is anything but direct, safe, or pleasant.

Travel distance between points in the two neighborhoods and destinations such as the City Park, Downtown Shopping, schools, other trails, and other residences were measured using the existing road system, and then using the route that would become available when the trail is built and ready for use. Travel from point to point within the two neighborhoods, or to access Dee Mautino Park generally saves ½ to ½ mile in travel distance (Appendix C). Travel by automobile between those same points is about 1.5 mile. Using a very conservative estimate, 10 one-way auto trips per day eliminated over 50 weeks per year, and an average trip distance of 1.5 mile would result in an annual automobile trip reduction of 10,500 miles per year. Using

156

the spreadsheet calculation provided by NSAQMD (Appendix B) emission reduction would be 25.09 lbs/year. Total cost effectiveness per pound measures at \$41.84.

**Work Statement** 

Preparation for construction of the trail was initiated in early 2019. Meetings with property owners, scouting the trail route, securing permission to enter the properties and clear vines and mark the proposed mark with location stakes has since been accomplished. Following are the elements that are yet to be completed.

- 1. Currently Secure easements for the construction and maintenance of a public trail across four private parcels. This phase is under way and will not be funded by this grant. Easements must be secured prior to any trail construction or obligation of public funds. Target date to have all easements is November 1, 2019.
- 2. January 2020 Secure permits from Local and State government agencies. Applications will be made in early January 2020. An encroachment permit will be required by the City of Grass Valley to connect the trail with Carol/Doris Drive. A stream alteration permit will be required by the California Department of Fish and Wildlife to construct the trail across the creek. A building permit may be required by the City of Grass Valley for boardwalks, bridges, causeways, or other structures. Target date for all permits is March 1, 2020.
- 3. February 2020 Clear vines and brush from the trail easement area to expose the soil and make the site ready for construction of the trail tread, boardwalks, bridges, etc. Target date for completion of clearing is March 31, 2020.
- 4. March 2020 Start construction of the trail. Much of the trail can be constructed by volunteers using hand tools. Several licensed contractors are included in the volunteer work force and they will organize and supervise the construction of the structures that must be built to complete the trail. A licensed contractor with a mini excavator will be engaged to construct a portion of the trail where a larger amount of soil must be removed and placed to build the trail through steep areas modified by past mining activity. Target date for completion is October 31, 2020.
- 5. September 2020 Construct privacy screen/fence if the residence occupant deems it necessary. Target date is October 31, 2020.
- 6. September 2020 Design and fabricate information and regulatory signs in coordination with the County of Nevada and City of Grass Valley. Install signs. Signing will include recognition that the trail was made possible through grant funding by NSAQMD using DMV Surcharge Funds. Target date is October 31, 2020.
- 7. November 2020, or earlier if the project is completed earlier Press release announcing the opening of the trail with recognition of all the volunteers, Local Government, donors, and grant funding (AB 2766) who assisted and participated in making the trail possible.



Funding Request/Breakdown of Cost
Bear Yuba Land Trust respectfully requests \$15,000 in funding to cover one-half of the cost of constructing the trail. Funds will be used to purchase materials that will be used to construct structural improvements necessary to complete the trail, for the purchase the services of equipment with operator, to pay fees for required permits, and to supervise the work of volunteers engaged in constructing the trail.

Task	Grant Amt. AB2766	Co-funding Amt. BYLT Funds	Volunteer Hrs.	In-Kind Amt.	Total
Secure Easements		\$1,500	40*	\$2,000	(\$3,500) See Note
Secure Permits	\$2,000	\$200	10*	\$500	\$2,700
Brushing, Clearing Trail Corridor	\$2,000	\$200	10* 80**	\$500 \$2,400	\$5,100
Trail Tread Construction			100**	\$3,000	\$3,000
Contractor Trail Tread Const.	\$2,000	\$200	·		\$2,200
Structural Lumber, Concrete	\$5,500 \$1,000				\$6,500
Concrete Trail Pavers	\$1,500				\$1,500
Bridge, Boardwalk, etc. Construction		\$200	30*** 160**	\$2,400 \$4,800	\$7,400
Paver Installation			5* 30**	\$250 \$900	\$1,150
Pravacy Screen Materials	\$500				\$500
Privacy Screen Construction			4*** 10**	\$320 \$300	\$620
Purchase Signs, Posts, etc.	\$500			4000	\$500
Install Signs			4* 8**	\$200 \$240	\$440
TOTAL	\$15,000	\$2,300	491	\$17,810	\$35,110

Notes: Line 1, Secure Easements, is under way and will not require grant funding, however it is critical to secure the easements before incurring any additional expenses. It is our intention to secure the easements well before January 1, 2020.

Volunteer House are given "In kind value" as follows: Trail Specialist is valued at \$50.00/hr. and is denoted by a single asterisk (\*). Laborer is valued at \$30.00/hr. and is denoted by double asterisk (\*\*). Licensed building contractor is valued at \$80.00/hr. and denoted by triple asterisk (\*\*\*\*).



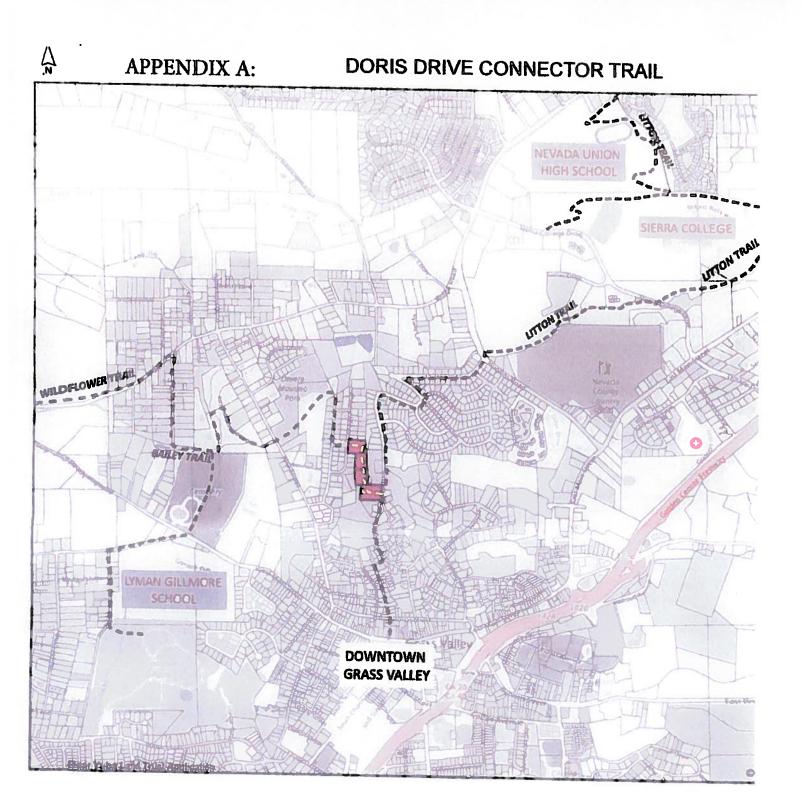
No equipment will be purchased with AB 2766 funds. BYLT has the tools and equipment necessary to construct trails and/or is experienced in hiring and supervising trail construction contractors. No AB 2677 funds will be used for operating costs. Trail operations are ongoing on BYLT trails and operations for this trail will be incorporated into the BYLT annual work plan.

Schedule of Deliverables/Monitoring Program

If AB 2677 funds are secured in the amount requested, BYLT will construct a trail approximately 1,000 feet long connecting Bragg Avenue and Carol/Doris Drive. Completion of the trail will be accomplished by or before December 31, 2020 and serve the community for decades to follow. The trail will be open from dawn to dusk for non-motorized use.

Monitoring of trail use will begin after the trail is completed. Interviews of trail users will be the primary means of determining level of use and miles of vehicle travel replaced by the trail user. A trail counter will be installed on the trail periodically to collect use numbers at various times of the year.





#### Appendix B

#### NBAQMD AB 2766 Grant

Grant Year: 2020 Department Name: Bear Yuba Land Trust Grant Name: Bike-Ped Trail \$15,000 **Grant Funding Amount** \$15,000 In-Kind Funding amount \$30,000 **Total Project Funding amount** 20.00 Effectiveness Period (LIFE) 0.07 Capital recovery factor 1.50 Average Miles per trip (one-way) 3,500 One Way Vehicle Trip Reductions per year 10,500.00 Annual Miles travelled, round trips Average Auto Emissions Factors (ARB 2013 from table 3) 0.584 ROG - Average Trip ends (g/trip end) 0.191 ROG - Auto VMT factor (grams/mile) 0.298 NOx - Average Trip ends (g/trip end) 0.217 NOx - Auto VMT feotor (grams/mile) 0.003 PM2.5 - Average Trip ends (g/trip end) 0.087 PM2.5 - VMT factor (grams/mile) 13.42 Annual Emission Reduction - ROG (lbs/year) 9.61 Annual Emission Reduction - Nox (Ibs/year) 2.06 Annual Emission Reduction - PM2.5 (lbs/year) 25.09 Total Emissions reduction (All) (lbs/year) \$41.84 Cost-Effectiveness of Funding Dollars (\$\$/lb)

Please only insert text or values in the blue shaded cells Non-shaded cells are formulas that should not be altered.

Capitol Rec	over Fact
l year	1.03
3 years	0.35
5 years	0.22
7 years	0.16
10 years	0.12
12 years	0.10
15 years	0.08
20 years	0.07

10/

#### Appendix C

## Distance Comparisons, Doris - Bragg Trail

# Cypress Hill neighborhood to Dee Mautino Park End points:

- -North-west intersection of Arcadia Dr. and Cypress Hill Dr.
- -Dee Mautino Park, approx. 50'north of restrooms on road connecting the parking areas

Distance via trail and through the SE gate at the end of Alta Vista Ave:

1.20 miles

Distance via Hughes, Ridge, and Alta Streets:

1.75 miles

### Alta Vista neighborhood to Litton Trailhead

**End Points:** 

- -Intersection of Alta Vista Ave and Engles Ave.
- -Intersection of Hughes Rd and Lidster Ave.

Distance via trail:

1.20 miles

Distance via Alta, Ridge, and Hughes:

1.83 miles

## North Church St neighborhood to Dee Mautino Park

End points:

- -Intersection of Doris Drive and Carol Dr. (south end)
- -Dee Mautino Park, approx. 50' north of restrooms on road connecting the parking areas

Distance via trail and through the SE gate at the end of Alta Vista Ave:

0.84 miles

Distance via N Church, Richardson, and Alta Streets:

1.07 miles

## Alta Vista neighborhood to downtown

**End Points:** 

- -Intersection of Alta Vista Ave and Engles Ave.
- -Intersection of Main St and Mill St.

Distance via trail and N Church:

0.85 miles

Distance via Alta, Ridge, and Hughes:

**0.78** miles



To:

Northern Sierra Air Quality Management District Board of Directors

From:

Gretchen Bennitt, Air Pollution Control Officer

Date:

September 23, 2019

Agenda Item: V.A

Agenda Description: Status on Portola PM2.5 Nonattainment Area

#### Issues:

Staff will be available to answer questions and update on latest developments at the meeting.

Requested Action: None, informational only

Attachment: none

To:

Northern Sierra Air Quality Management District Board of Directors

From:

Gretchen Bennitt, Air Pollution Control Officer

Date:

September 23, 2019

Agenda Item: V.B

Agenda Description: Green Waste Disposal

Issues: Staff will update the Board on any new developments.

Requested Action: None, informational only

#### Attachments:

1. Handout available during meeting