Headquarters 200 Litton Drive, Ste. 320 Grass Valley, CA 95945 (530) 274-9360/ FAX: (530) 274-7546 Gretchen G. Bennitt, APCO Northern Field Office 257 E. Sierra Street, Suite E Portola, CA 96122 (530)832-0102 FAX:(530) 832-0101

NORTHERN SIERRA AIR QUALITY MANAGEMENT DISTRICT BOARD OF DIRECTORS REGULAR BOARD MEETING MONDAY

June 24, 2019 1:00 p.m.

NORTHERN SIERRA AIR QUALITY MANAGEMENT DISTRICT BOARD OF DIRECTORS REGULAR MEETING

June 24, 2019

1:00 p.m.

This meeting will be held by Video/Telephone Conference at the following locations:

(Site A) VIDEOCONFERENCE/TELEPHONE CONFERENCE
Northern Sierra Air Quality Management District (Headquarters)
200 Litton Drive, Conference Room 316
Grass Valley, California

(Site B) VIDEOCONFERENCE/TELEPHONE CONFERENCE Northern Sierra Air Quality Management District (Northern Office)

257 E. Sierra Street, Unit E

Portola, California

(Site C) TELEPHONE CONFERENCE
10879A Donner Pass Road, CONFERENCE ROOM

Truckee, California

All items on the agenda may be acted upon by the Board of Directors. No action will be taken nor discussion held at the meeting on business not appearing on the posted agenda.

I. Standing Orders:

Call to Order.

Roll call and determination of quorum.

- II. Public Comment: For items <u>NOT</u> appearing on the agenda and within the jurisdiction of the Board. The public may comment on Agenda items as they are discussed.
- III. Consent Calendar These Items Are Expected to Be Routine and Noncontroversial. They Will Be Acted on By the Board at One Time Without Discussion. Any Board Member, Staff Member, or Interested Party May Request That an Item Be Removed From the Consent Calendar for Discussion.
 - **A.** Approval of regular meeting minutes May 20, 2019 $\rho_g \mathcal{F}$

IV. Administrative Report

- **A.** Adoption of District's FY 2019-2020 Capital and Operating Budget ρ_{x} 9
- V. Director's Report
 - **A.** Status on Portola PM2.5 Nonattainment Area ρ_{g} 23

- VI. Concerns of Board The Board may at this time bring up matters it wishes to discuss at the next Board Meeting, as long as no discussions are conducted and no actions are taken, in compliance with the Brown Act.
- VII. Schedule next Meeting August 26, 2019
- VIII. Adjournment

PERSONS DESIRING TO ADDRESS THE BOARD

Meetings of the Board of Directors shall be conducted by the Chairperson in a manner consistent with the policies of the District. The latest edition of Robert's Rules of Order, Revised shall also be used as a general guideline for meeting protocol. District policies shall prevail whenever they are in conflict with Robert's Rules of Order, Revised.

All Board meetings shall commence at the time stated on the agenda and shall be guided by same.

PUBLIC COMMENT:

Provisions for permitting any individual or group to address the Board concerning any item on the agenda of a special meeting, or to address the Board at a regular meeting on any subject that lies within the jurisdiction of the Board of Directors, shall be as follows:

Three (3) minutes may be allotted to each speaker and a maximum of fifteen (15) minutes to each subject matter;

No boisterous conduct shall be permitted at any Board meeting. Persistence in boisterous conduct shall be grounds for summary termination, by the Chairperson, of that person's privilege of address.

No oral presentation shall include charges or complaints against any District employee, regardless of whether or not the employee is identified in the presentation by name or by another reference which tends to identify. All charges or complaints against employees shall be submitted to the Board of Directors under provisions contained in District Policy 1030.

Willful disruption of any of the meetings of the Board of Directors shall not be permitted. If the Chairperson finds that there is in fact willful disruption of any meeting of the Board, he/she may order the room cleared and subsequently conduct the Board's business without the audience present. In such an event, only matters appearing on the agenda may be considered in such a session.

After clearing the room, the Chairperson may permit those persons who, in his/her opinion, were not responsible for the willful disruption to re-enter the meeting room.

Duly accredited representatives of the news media, whom the Chairperson finds not to have participated in the disruption, shall be admitted to the remainder of the meeting.

Members of the public are given the opportunity to address the Board of Directors directly at each teleconference location.

POSTING AGENDA:

This agenda was posted at least 72 hours prior to the regular meeting at the following locations: Eric Rood Government Center in Nevada City, The Plumas County Courthouse in Quincy, the Litton Building in Grass Valley, the Plumas County Board of Supervisors Chambers in Quincy, Sierra County Courthouse Square in Downieville. The agenda and board packet are available on-line prior to the Board Meeting at www.myairdistrict.com

To:

Northern Sierra Air Quality Management District Board of Directors

From:

Gretchen Bennitt, Air Pollution Control Officer

Date:

June 24, 2019

Agenda Item: III.A

Agenda Description: Approval of regular meeting minutes - May 20, 2019

Requested Action: The minutes are attached for Board comment/approval

ROLL CALL VOTE REQUESTED

Attachments:

1. May 20, 2019 Minutes

DISTRICT HEADQUARTERS
200 Litton Drive, Suite 320
Mailing Address:
Grass Valley, CA 95945
(530) 274-9360 / FAX: (530) 274-7546
email: office@myairclistrict.com or www.myairdistrict.com

NORTHERN FIELD OFFICE
257 E. Sierra, Unit E
Mailing Address: P.O. Box 2227
Portola, CA 96122
(530) 832-0102 / FAX: (530) 832-0101
email: Julie@myairdistrict.com or www.myairdistrict.com

MINUTES

NORTHERN SIERRA AIR QUALITY MANAGEMENT DISTRICT BOARD OF DIRECTORS REGULAR MEETING

May 20, 2019

1:00 p.m.

(Site A) VIDEOCONFERENCE/TELEPHONE CONFERENCE

Northern Sierra Air Quality Management District (Headquarters)
200 Litton Drive, Conference Room 316

Grass Valley, California

(Site B) VIDEOCONFERENCE/TELEPHONE CONFERENCE Northern Sierra Air Quality Management District (Northern Office)

> 257 E. Sierra Street, Unit E Portola, California

Members Present:
Supervisor Scofield, Chair
Supervisor Anderson, Vice Chair
Supervisor Roen
Supervisor Huebner

Supervisor Simpson (alternate)

Supervisor Thrall

Members Absent: Supervisor Sanchez

I. Standing Orders:

Call to Order. Roll Call and Determination of Quorum.

Chair Scofield called the meeting to order at 1:01 P.M. A quorum was confirmed. Gretchen Bennitt, APCO; Julie Ruiz, APCSII, Dawn Lunsford, Accounting Clerk/Administrative Assistant were also in attendance. Supervisor Roen entered the meeting at 1:03.

II. Public Comment: For Items <u>NOT</u> Appearing on the Agenda and Within the Jurisdiction of the Board. The Public May Comment on Agenda Items As They Are Discussed. Both Teleconference Sites are Allowed an Opportunity for Public Comment.

Chair Scofield called for public comment. Comment was received from Mr. John Bell. He was present at the Portola site. He discussed his concerns with a business that causes dust issues for his property in Chester.

III. Consent Calendar These Items Are Expected to Be Routine and Noncontroversial. They Will Be Acted on By the Board at One Time Without Discussion. Any Board Member, Staff Member, or Interested Party May Request That an Item Be Removed From the Consent Calendar for Discussion.

A. Approval of regular meeting minutes – April 22, 2019

There was a motion by Supervisor Thrall to approve the consent calendar. Supervisor Roen seconded the motion. The motion was approved unanimously with a roll call vote.

V. Director's Report – Item V.B was moved to the first item per Board Chair.

V.B. Green Waste

Jim Turner, plant manager from American Renewable Products was present and gave a discussion on the green waste his facility has collected. He also discussed other agency collections.

IV. Administrative Report

- A. Transfer Remaining AB 2766 Funds Into Current Year of AB2766 Grant
 There was a motion by Supervisor Roen to transfer the remaining funds into this year's AB2766 allocation for Nevada County. Supervisor Anderson seconded the motion. The motion was approved unanimously with a roll call vote.
- B. Public Hearing for District's FY 2019-2020 Capital and Operating Budget
 Chair Scofield opened the public hearing for the budget. Ms. Bennitt provided an overview of the draft budget. There were no public comments received and there were no public at the meeting. The Board directed Ms. Bennitt to increase the fund balance amount for OPEB to \$300,000. Chair Scofield closed the public hearing. No further action was taken.

C. Ratify Agreement for Rx Fire Grant of \$79,526

There was a motion by Supervisor Supervisor Roen to ratify the agreement. Supervisor Huebner seconded the motion. The motion was approved unanimously with a roll call vote.

D. Ratify Agreement with CARB for AB197 funds

There was a motion by Supervisor Huebner to ratify the agreement. Supervisor Anderson seconded the motion. The motion was unanimously approved with a roll call vote.

V. Director's Report

A. Status on Portola PM2.5 Nonattainment Area

Julie Ruiz updated the board on the State Implementation Plan. She discussed that the EPA was requesting a modification of the adopted Portola Ordinance.

VI. Concerns of the Board

Supervisor Roen discussed his concerns for dust mitigation. He requested that the Director research whether there were any grants available for farmers to reduce their dust and fuel reduction for farm equipment. He had heard of grants available like this in the San Joaquin Valley and was not sure if those grants could also be available in the Northern Sierra Air District.

VII. Schedule next Meeting - Next meeting was scheduled for June 24, 2019 in Portola.

VIII. Adjournment

The meeting was adjourned at 1:55 P.M.

From:

Gretchen Bennitt, Air Pollution Control Officer

Date:

June 24, 2019

Agenda Item: IV.A

Agenda Description: Proposed Adoption of District's FY 2019-2020 Capital and Operating Budget

Issues:

At a regularly scheduled Air District Board meeting on May 20, 2019, a public hearing that was properly noticed was held to receive comments on the FY 2019-2020 Capital and Operating Budget. During the meeting, the Board reviewed and provided direction and comment on the preliminary FY 2019-2020 Capital and Operating Budget.

Requested Action:

1. Adopt FY 2019-2020 Capital and Operating Budget and authorize the Chair to sign Resolution #2019-06.

ROLL CALL VOTE REQUESTED

Attachment:

- 1. District's Fiscal Year 2019/2020 Preliminary Capital and Operating Budget
- 2. Resolution # 2019-06

DISTRICT FIEADOUARTERS 200 Litton Drive, Suite 320 Grass Valley, CA 95945

(530) 274-9360 / FAX (530) 274-7546

Email: office@myairdistrict.com or www.myairdistrict.com

NORTHERN FIELD OFFICE 257 E. Sierra, Unit E Mailing Address: P.O. Box 2227 Portola. CA 96122

(530) 832-D102/FAX (530) 832-D101 email: Julie@myairdistrict.com

FISCAL YEAR 2019/2020 CAPITAL BUDGET Final

June 24, 2019

EXECUTIVE SUMMARY

The District's Capital Budget is comprised of two major components - 1) the Restricted Grants Budget and the 2) Operating Budget. Each budget has two separate fund accounts to facilitate the tracking of funds in both budgets and to allow the public better comprehension of the District's overall capital budget. A line-item spreadsheet of both the Restricted and Operating Budgets follows.

RESTRICTED GRANTS BUDGET

The Restricted Grants Budget is solely for pass-through grants from the State of California or the Federal Government (U.S. Environmental Protection Agency) to reduce air pollution emissions in areas where public health is most impacted. The District will be administering this budget through a variety of grant programs, incentives, rebates and public education in cooperation with other local agencies and businesses. For a detailed breakdown of all line items for the Restricted Grant Budget, please refer to the restricted budget spreadsheet.

AB2766 Grant Programs

The District administers the State's AB2766 DMV surcharge grant money to worthwhile projects throughout all three counties of the District. This funding comes from a DMV surcharge fee for each registered vehicle in each county. Nevada and Plumas County charge a fee of \$4/vehicle. Sierra County charges a fee of \$2/vehicle.

Project proponents go through a sometimes competitive process to request full or partial sponsorship for projects which reduce vehicle emissions. \$261,736 of AB2766 funding is slated for approval to be used during Fiscal Year 2019/2020 for projects throughout all three counties. Final grant approvals will be made in September or October 2019. After the Board allocates funds for individual AB projects, any funds which are not allocated to a project go into each county's AB 2766 total allocation account as carryover. These amounts will be added back in to each county's AB allocation in time for the following year's Board approval of projects.

In addition to the FY 2019/2020 AB projects, there is \$248,382 expected to be expended for various encumbered projects. These funds are earmarked in the Restricted Grants Fund Balance.

AB923 DMV Surcharge Fees and Programs

AB923 is only implemented in Plumas County. This funding comes from a DMV surcharge fee of \$2 per each vehicle registered in the county. The District receives 6.25% as an administrative fee. This year, the District expects to receive approximately

\$50,000, \$3,125 is utilized for administrative funding. This funding is to be utilized for replacing old diesel school buses per the state's Lower Emission School Bus program or for reducing heavy duty diesel emissions, similar to the Carl Moyer program. Recently the state has approved that this funding can also be utilized for infrastructure for alternatively fueled, low emission school busses. The current fund balance of AB923 funding is \$219,914 providing a total of \$264,914 available for expenditure during FY 2019/2020.

Carl Moyer Heavy Duty Diesel Emission Reduction Program

The District administers the State's Carl Moyer Heavy Duty Diesel Program throughout all three counties in the District. This program is intended to provide incentives to owners of heavy duty diesel engines to retrofit these engines to lower emitting models. This is easily one of the most cost-effective and pollution reducing programs that the State sponsors and the District administers.

For fiscal year 2019/2020, the District expects to receive revenue of Carl Moyer funding of \$200,000. The District receives 12.5% administrative fee, leaving \$175,000 for the grant program and \$25,000 administrative fee which is revenue for the internal operating budget. The current fund balance amount of Carl Moyer funding is \$67,478. An estimate of \$5,000 is expected to be earned on the interest, which goes back into the program. This provides a total \$247,478 available for expenditure during FY 2019/2020.

EPA's Targeted Air Shed Grant

The Air District was approved for a \$2.48 million grant from the U.S. Environmental Protection Agency (U.S. EPA) to reduce air pollution from residential woodstoves. The grant is part of the U.S. EPA's 2015 Targeted Air Shed Grant Program intended to improve air quality in areas of the U.S. with the highest levels of pollution.

In January 2015, the U.S. EPA designated the City of Portola and surrounding parts of Plumas County as a federal nonattainment area for the annual PM2.5 health-based standard. PM2.5 is the fine particle pollution found in smoke. Studies indicate that the main source of smoke in Portola is from residential woodstoves and fireplaces.

U.S. EPA grant funds are administered by the Air District and the California Air Resources Board for a five-year voluntary residential wood stove replacement program to encourage owners to replace older wood stoves with cleaner burning devices and significantly improve air quality and public health in the Portola area.

This will be a five year program (2016-2021) based upon a reimbursement basis from EPA. Estimates were based upon how much would be spent and reimbursed for each of the five years. The amount of \$1,992,000 for woodstove replacements in the nonattainment area is not to be exceeded over five years. The district estimates that

approximately \$398,400 per year will be expended to replace stoves in the nonattainment area. The District estimates approximately \$75,000 per year will be reimbursed for administrative uses annually.

H&S Woodstove Mitigation Fund

EPA had a settlement with H&S which required H&S to pay a local air district \$400,000 to be used for a woodstove changeout program in a federal nonattainment area. EPA referred H&S to Northern Sierra Air District. An agreement was approved and ratified by the Air District Board during a March 2016 Board meeting. The District had a one-time revenue of \$360,000 deposited into the District's restricted account. Additionally, the District received a one-time revenue of \$40,000 to be deposited into the District's operating budget during FY 2015/2016. Currently there is 106,342 remaining in this account, or enough to supplement the change out of approximately 118 stoves.

Voluntary Nox Reduction Measure (VNRM)

The State California Air Resources Board has awarded various air districts a grant which shall be used to "voluntarily remediate potential past emissions through remedial measures supporting air district-level NOx mitigation projects targeting engines, such as the replacement of existing diesel engines with lox Nox engines." The VNRM program is modeled on the criteria and requirements in the Moyer Guidelines. The District has signed the agreement with CARB and has requested \$66,464 of funds to be utilized for local projects.

FARMER Shared Pool

California's state legislature allocated \$35 million to the California Air Resources Board (CARB) from Fiscal Year 2017-2018 though Assembly Bill 134 and 109. CARB staff developed the Funding Agricultural Reduction Measure for Emission Reductions (FARMER) Program to meet the Legislatures objectives and help meet the State's criteria, toxic and greenhouse gas emission reduction goals. CARB created a Shared Allocation Pool of funding (\$5 million) that was specifically designated for 18 air districts with less than one percent of statewide agricultural equipment emission inventory to ensure farmers in those districts have the opportunity to access FARMER funding. The Shared Allocation Pool is managed by the Placer County Air Pollution Control District (Placer APCD) and the California Air Pollution Control Officers Association (CAPCOA) in accordance with the grant provisions outlined in the agreement between CARB and Placer APCD and provisions outlined in the subsequent agreement between CAPCOA and Placer APCD. Placer APCD will enter into independent contracts with Northern Sierra Air District. The District is applying for FARMER funding through CAPCOA and anticipates that \$100,000 will be received as revenue and expended on FARMER projects in FY 2019-2020.

AB617

Assembly Bill 109 provides funding for the Community Air Protection Program. Assembly Bill 109 approved the Cap-and-Trade Expenditure Plan which appropriated approximately \$1.6 billion in discretionary funds. The Northern Sierra Air Quality Management District has been approved by the California Air Resources Board (CARB) for a grant under the Community Air Protection Program. The grant award is for expenses necessary for implementation of Assembly Bill 617. The District expects a revenue of \$22,659 of funds under the Community Air Protection Program for Fiscal Year 2019-2020.



NORTHERN SIERRA AIR QUALITY MANAGEMENT DISTRICT

Final Restricted Budget Fiscal Year 2019 - 2020

Restricted Bu	dget, Fund Balance		
Account#	Description	FY 2018- 2019	FY 2019- 2020
20-3901	Restricted Funds, AB2766 Encumbered	309,999	248,382
20-3902	Planned Expenditures, AB2766 Total Allocation - Nevada County	178,195	185,332
20-3903	Planned Expenditures, AB2766 Total Allocation - Plumas County	35,267	70,683
20-3904	Planned Expenditures, AB2766 Total Allocation Sierra County	5,672	5,721
20-3906	Planned Expenditures, Carl Moyer	223	67,478
20-3908	Planned Expenditures, AB923	170,800	214,914
20-3910	Planned Expenditures, H&S Mitigation	180,000	109,291
	Restricted Budget, Fund Balance Accounts Totals:	\$880,156	\$901,801

Restricted Bu	dget, Revenue			
Account #	Description		FY 2018- 2019	FY 2019- 2020
20-4500	Govt. Funding, AB 2766 DMV Fees	(60% for District Admin)	240,000	240,000
20-4505	Govt. Funding, AB923	(6.25% for district admin)	50,000	50,000
20-4518	Govt. Funding, Carl Moyer HD Diesel	(12.5% for district admin)	175,000	175,000
20-4535	Govt. Funding, WRP (~10% for district	admin)	292,500	0
20-4536	WRP interest		1,000	1,000
20-4541	Nox Reduction Measure (NRM)		0	70,212
20-4542	FARMER Pooled Share		0	100,000
20-4543	Rural Assistance Program (RAP)		80,000	80,000
20-4538	AB 617		20,183	22,000
20-4539	AB 617 interest		100	100
20-4529	Govt. Funding, EPA Target Grant for Po	ortola	398,400	398,400
20-4600	Other Income, Interest, Restricted	(Carl Moyer)	4,299	5,000
	R	estricted Budget, Revenue Total:	\$1,261,482	\$E.HI.712

Restricted Bu	udget, Expenditures		
Account #	Description	FY 2018- 2019	FY 2019- 2020
20-5403	Plumas County Public Works (AB2017-02)	36,338	5,088
20-5440	Portola PM Mitigation(AB2015-08, 33,211 plus 5499 transferred from 588-200-39	28,054	31,922
20-5442	Portola MOU (AB2016-08)	27,505	27,505
20-5402	Hansen Bros Enterprises (AB 2018-02, \$25,000)	25,000	25,000
20-5402	Town of Truckee (AB 2018-03, 67,696)	67,696	67,696
20-5402	Town of Truckee (AB 2018-04, \$39,542)	39,542	39,542
20-5402	Foster and Sons (AB 2018-05, \$26,457)	26,457	26,457
20-5402	Nevada City Police Dept (AB2018-06, \$19,500)	19,500	19,500
20-5402	Inc Senior Citizens of Sierra County (AB2018-01, S5672)	5,672	5,672
20-5401	AB2766 Planned Expenditure of All Counties (FY 19/20)	219,134	267,930
20-5406	Carl Moyer	176,223	247,478
20-5409	AB 923	220,800	264,914
20-5410	EPA Target Grant for Portola	398,400	398,400
20-5414	WRP	292,500	41,827
20-5417	Nox Reduction Measure (NRM)	_	70,212
20-5415	AB617	20,183	42,000
20-5413	H&S Mitigation Fund	180,000	106,342
	Restricted Budget, Expenditures Totals:	1,783,004	\$ 1,687,485



OPERATING BUDGET

The second major portion of the District's overall capital budget is the internal Operating Budget which is outlined in detail in the Operating Budget spreadsheet.

Operating Revenue

Overall, Revenues exceed Expenditures by \$194,840. There is an increase of \$175,110 of predicted revenue from last year's budget. The most significant increase is from a Prescribed Fire grant of \$79,000 to run the prescribed fire program. Another significant increase is from the EPA (\$49,698) to fund a new position in Portola to assist with the Woodstove Changeout Program. Other increases to existing revenue sources are as follows: \$4,104 increase to County Contribution, \$20,000 increase in admin fees for Portola Woodstove Changeout Program, \$4,242 for a new grant program (NRM), \$20,000 from the Prescribed Fire Grant for collecting monitoring information, \$15,000 for administrative fees \$15,00 for a new Carl Moyer-like program for farm equipment (FARMER), and \$15,000 increase in interest.

AB 2766 revenue is 33% of total operating revenue. Last year, AB revenue was 40% of total revenue. This revenue is used internally for activities that are related to clean air planning and technical studies necessary to implement the California Clean Air Act, and these technical activities should be funded by AB 2766 funds proportionate to the relative contribution of mobile source emissions.

General Administration, the Smoke Management Program, the Planning Program, and the Air Monitoring Program don't have adequate fees to cover costs, and so are supported with State Subvention, county contributions, and miscellaneous revenue line items.

Operating Expenditures

There is an estimated increase of total expenditures from the previous fiscal year of \$152,637. The increase is primarily due to an increase of \$137,940 in the Salaries and Benefits object level. This increase includes the addition of two new Air Pollution Specialists, estimated increase for the two additional employees is approximately \$130,000. Other increases are ozone monitoring expenses of \$5,000 and \$27,000 increase to the Accounting line item.

The District provides certain postretirement healthcare benefits, as established by Board Policy, to eligible employees through a single-employer plan governed by the Public Employees' Medical & Hospital Care Act (PEMHCA) and administered by the District. Employees who retire from the District shall be eligible to be enrolled in a PERS-provided health insurance plan. If the retiree is enrolled in a PERS-provided

health insurance plan, the District shall pay 100% of the first \$9,600 of the retiree's annual premium. Employees hired after July 1, 2014 shall still be eligible to be enrolled in a PERS-provided health insurance plan upon retirement, but the District shall pay 0% of the retiree's annual premium, upon retirement.

The District has two separate accounts to express health insurance expenditures. Account #10-5017 is for retired employees, and Account #10-5016 is for current employees. However, two current employees have elected not to utilize the PERS-provided health benefits plan. According to District Policy, in recognition of the subsequent cost savings to the District, the District will pay the employees 40% of the premium costs saved by the District, or \$3,840, whichever is less. Since there are two employees electing not to utilize the PERS provided plan, this total amount is \$7,680. This \$7,680 expenditure is not included in the Health Insurance expenditure, instead it is included in Account #10-5021 TaxMed.

Fund Balance Accounts (Reserves)

Prudent fiscal management requires careful budgeting and stringent budget control to avoid over-expending. Successfully staying under budget for all budget line items means that fund balances (in the form of reserves) will occur at year-end. Such fund balances are saved in reserves for various uses, such as equipment replacements. litigation, contingencies, leave liability, etc. It is prudent that the reserves are placed in earmarked and encumbered fund balances. The Board approves the fund balances with the adoption of the budget. Program needs justify budgeting expenditures that sometimes exceed expected revenue on a short-term basis. Spending down reserves is then prudent, rather than increasing fees sporadically, as long as short-term shortfalls don't place the District in a precarious fiscal position. Timely program cuts or revenue adjustments would eventually be needed to prevent over-erosion of reserves. The rule of thumb is to keep at least 3 months worth of expenses in reserves. Total monthly expense is estimated to be \$77,000/month, based upon average monthly expenditures. Three months equals \$231,000. For this fiscal year, it is projected that Revenue will exceed Expenditures by \$194,840. This amount is projected to increase the Reserves (fund balance amounts) by \$194,840.

The District has committed to adding \$50,000 annually to the District's Other Post-Employment Benefits (OPEB) account. This account will increase by \$50,000 annually as required by GASB45. GASB 45 determines the annual OPEB financial obligations based upon the current number of eligible employees and retirees. The net OPEB obligation at the end of the year 2018 was determined to be \$884,064. The District's financial auditor recommended and the Board of Directors agreed that the District expend at least \$50,000/annually and add it to the Fund Balance specific to account until the obligation is fulfilled. During the May 20, 2019 Board meeting, the Board directed the District to expend more than the recommended \$50,000. The Board directed staff to increase the OPEB amount by \$100,000 during FY19/20, bringing the

total OPEB amount to \$300,000. This expense of \$50,000 will be repeated annually until the District's annually determined OPEB obligation is met, or as otherwise directed by the Board.

1. Equipment Replacements

\$4,000 will be expended to purchase office equipment such as two new computers. The District keeps a list of equipment and their respective depreciation rates.

2. Air Monitoring Program

The Air District receives \$59,500 from the Environmental Protection Agency for the continued operation of the District's Federal Reference Method (FRM) Network for particulate matter. The District will also continue to pay rent for its monitoring laboratory and purchase miscellaneous equipment to continue to run its existing air quality monitoring network.

3. Public Education

The District will utilize \$5,000 to fund its public education program for FY 2019-2020. This includes purchasing ads for emission reductions, incentive and grant programs.

Summary

Expected operating revenue exceeds expected operating expenditures by \$194,840. The funds received in previous years are encumbered in the District's fund balance accounts, and will be utilized to demonstrate a balanced budget in the final summary, if needed. Although the preliminary budget demonstrates an overall increase to the District's Fund Balance by revenues exceeding operating expenditures, this is crucial to the continuance of the Air District's services. This predicted increase in the fund balance will assist the District to continue its services in case of any unexpected decreases in revenue in the future.



NORTHERN SIERRA AIR QUALITY MANAGEMENT DISTRICT Final Operating Budget Fiscal Year 2019 - 2020

Resource Report	
06/01/19	\$ 974,829

Fund Balance Accounts (Used to track earmarked or encumbered funds)			
Account #	Description	FY 2018- 2019	FY 2019- 2020
10-3901	General Fund, Undesignated	-	-
10-3903	Other Post-Employment Benefits	200,000	300,000
10-3904	Equipment Replacements / Depreciation	154,000	24,000
10-3905	Leave Liability	55,000	55,000
10-3906	Air Monitoring Program	100,000	50,000
10-3907	Public Education Program	5,000	5,000
10-3908	Contingency, Leashold Improvements	75,000	120,887
10-3909	Contingency, Emergency Funds	113,000	229,942
10-3910	Contingency, Litigation	100,000	190,000
	Fund Balance Accounts Totals	802,000	974,829

Revenue			
		FY 2018-	FY 2019-
Account #	Description	2019	2020
10-4002	Fees, Permit to Operate	30,000	30,000
10-4004	Fees, Vapor Recovery	20,000	20,000
10-4005	Fees, Variance Application	500	500
10-4006	Fees, Source Test	2,000	2,000
10-4007	Fees, Prescribed Burning	25,000	25,000
10-4008	Fees, Woodstove Inspections	2,000	2,000
10-4010	Fees, Title V, Fed Op Permit	65,000	65,000
10-4013	Fees, Fire Dept Response	1,500	1,500
10-4100	Penalties, Permitted Source	10,000	10,000
10-4101	Penalties, Open Burning	2,500	2,500
10-4201	Gov't Funding, State Subvention	137,600	137,600
10-4202	Gov't Funding, Subvention Supplemental	3,500	3,500
10-4203	Gov't Funding, County Contribution	58,565	62,669
10-4204	Gov't Funding, EPA Monitoring	59,500	59,500
10-4205	Gov't Funding, EPA Monitoring Supplemental	- 1	-
10-4206	Gov't Funding, AB 2766 DMV Fees	360,000	360,000
10-4207	Gov't Funding, PERP Pass thru	18,000	18,000
10-4208	Gov't Funding, AB 923 Operating	3,125	3,125
10-4209	Gov't Funding, EPA Target 2015	55,000	75,000
10-4214	Gov't Funding, EPA Target 2015 Burnwise Coordinator		49,698
10-4221	Gov't Funding, Nox Remediation Measure, Admin Fee		4,242
10-4211	Gov't Funding, AB 197	18,267	8,583
10-4213	Rx Fire Funding, Staff		79,000
10-4212	Rx Fire Funding, Monitoring		20,000
10-4215	Carl Moyer, Admin Fee	25,000	25,000
10-4222	Farmer Pooled Share		15,000
10-4223	RAP, Carl Moyer Rural Assistance admin	- 1	7,000
10-4220	WRP, Admin Fee	29,250	•
10-4303	Other Income, Rules, Copies, Subscr.	100	100
10-4310	Other Income, Interest Earned	5,000	20,000
	Revenue Total:	\$ 931,407	1,106,517

NORTHERN SIERRA AIR QUALITY MANAGEMENT DISTRICT Final Operating Budget Fiscal Year 2019 - 2020

Expenditures		Salaries and Benefits	(Object Level)
Account #	Description	FY 2018- 2019	FY 2019- 2020
10-5002	Permanent Salaries	391,347	486,054
10-5021	TaxMed (elect not to utilize the District-provided I		7,680
10-5003	Overtime	1,000	1,000
10-5011	Medicare/FICA	5,000	7,159
10-5013	CA State Unemployment	550	784
10-5015	Workers' Comp Insurance	7,100	6,567
10-5016	PERS Health Insurance Active Employees	28,800	48,000
10-5017	PERS Health Insurance Retired Employees	28,800	18,951
10-5019	Dental/Vision Care	6,250	8,750
	PERS Retirement (ER & EE Paid)	62,000	63,297
10-5022/5024	PERS Unfunded Accrued Liability	53,000	73,545
	Salaries and Bene	fits Total: \$ 583,847	721,787

Expenditures Service:		vices and Supplies	and Supplies (Object Level)			
Account #	Description	FY 2018- 2019	FY 2019- 2020			
10-5201	PM Monitoring Expenses	15,000	15,000			
10-5202	Office Supplies	4,000	4,000			
10-5203	References, Subscriptions	450	1,500			
10-5204	Postage, Shipping	1,000	1,000			
10-5205	Memberships	3,000	3,000			
10-5206	Ozone Monitoring Expenses		5,000			
10-5251	Communications	15,000	15,000			
10-5253	Rent, Structures - Grass Valley	32,040	26,640			
10-5254	Rent, Structures - Portola	6.000	6,228			
10-5255	Utilities, Grass Valley	3,000	2.700			
10-5256	Utilities, Portola	1,000	1,200			
10-5257	Rent, PM2.5	.,000	7,272			
10-5258	Liability Insurance	8,000	8,000			
10-5259	Legal Notices, Public	500	500			
10-5301	Information Technology	5,000	7.000			
10-5303	Maintenance: Office Equipment	500	500			
10-5305	Maintenance: Vehicles	3,000	3,000			
10-5311	Profession Services: Legal	6,000	6,000			
10-5312	Profession Services: Office Assistance	6,000	1,200			
10-5313	Profession Services: Accounting (Neverda County, Accountant, and		33,000			
10-5314	Profession Services: Financial Auditor	12,000	12,500			
10-5315	Profession Services: Board	5,000	5,000			
10-5351	Training, Tuition	1,500	1,500			
10-5352	Travel	3,000	3,000			
10-5353	Gasoline	5,000	5,000			
10-5354	Private Car Mileage	500	5,000			
10-5390	Miscellaneous	1,000	1.000			
	Services and Supplies T		\$ 176,240			



NORTHERN SIERRA AIR QUALITY MANAGEMENT DISTRICT Final Operating Budget Fiscal Year 2019 - 2020

Expenditure	Bass-thru Funds / Internal Programs / Contributions to Otl	to Other Agencies (Object Level) FY 2018- FY 2019-			
Account #	Description	2019		2019-	
10-5402	Alternate Commute Program	750		750	
10-5404	ARB: AB 2588 Fees	1,400		1,400	
10-5405	Public Education Program	5,000		5,000	
10-5406	Fire Dept Response Reimbursement	1,500		1,500	
	Contribution to Other Agencies / Internal Grants Total:	\$ 8,650	\$	8,650.00	

Expenditures Fixed		xed Asset Purchases	(Object Level)
Account #	Description	FY 2018- 2019	FY 2019- 2020
10-5601	Office Equipmen (2 computers @\$2,000 each)	4,000	4,000
10-5602	Field Equipment (fixed assets - over \$1,000)	1,000	1,000
10-5605	EPA Supplemental Monitoring	18,053	
	Fixed Asset Purchase	s Total: \$ 23,053	5,000

Budget Summary Available Funding & Expe		
Available Funding	FY 2018- 2019	FY 2019- 2020
Fund Balance Total (encumbered & earmarked reserves)	802,000	974,829
Petty Cash	75	75
Revenue	931,407	1,106,517
Available Funding T	otal: 1,733,482	2,081,421
Salaries and Benefits (Object Level)	583,847	721,787
Services and Supplies (Object Level)	143,490	176,240
Pass-thru Funds / Internal Programs / Contributions to Other Agencies (Object Level	8,650	8,650
Fixed Asset Purchases (Object Level)	23,053	5,000
Expenditure T	otal: \$ 759,040	911,677

NORTHERN SIERRA AIR QUALITY MANAGEMENT DISTRICT

RESOLUTION #2019-06

Whereas, the Governing Board of Directors for the Northern Sierra Air Quality Management District (District) is required by the California Health and Safety Code (HSC) Section 40130 to adopt a budget in an open process in order to educate the public of the costs and benefits of air quality improvement, and

Whereas, the District has prepared and made available to the public at least 30 days prior to public hearing, a summary of its budget and any supporting documents, and

Whereas, the District has noticed and held a public hearing for the exclusive purpose of reviewing its budget and providing the public with the opportunity to comment on the proposed budget, and

Whereas, the Board reviewed and provided direction to staff concerning the FY 2019-2020 Budget on May 20, 2019, and

Whereas, the Board directed staff to increase Account # 10-3903 (Other Post Employment Benefits) to \$300,000, and

Whereas, the District provided a public hearing on May 20, 2019, which was properly noticed.

NOW, THEREFORE, BE IT RESOLVED AND ORDERED, by the Northern Sierra Air Quality Management District Governing Board of Directors the FY 2019-2020 Capital and Operating Budget be adopted as presented in Exhibit A.

, and seconded by Superviso	or
on was approved and adopted by the Governin	a
luality Management District at a regular meetin	g
I vote:	Ü
Date	
Date	
(Date



To:

Northern Sierra Air Quality Management District Board of Directors

From:

Gretchen Bennitt, Air Pollution Control Officer

Date:

June 24, 2019

Agenda Item: V.A

Agenda Description: Status on Portola PM2.5 Nonattainment Area

Issues:

Some rather big items recently occurred:

- 1. The California Air Resources Board transmitted to the Environmental Protection Agency the Portola 2019 Quantitative Milestone Report for the Portola PM2.5 Federal Nonattainment Area. The Clean Air Act requires PM2.5 nonattainment areas to submit a quantitative milestone report within 90 days of each (Reasonal Further Progress) RFP milestone due date. The attached report documents implementation of Air District measures that provided emission reductions needed to meet the 2019 RFP emission targets. Most importantly, the report also demonstrates that he 2019 quantitative milestones have been met.
- 2. It is not "official" yet, but EPA congratulated and confirmed in a May 24, 2019 letter that the Portola PM2.5 Nonattainment Area Airshed Project" application was selected for award under the 2018 Targeted Airshed Grant Program. EPA maintains that the award will not be official and final until a notice of award approval is issued by the EPA award official. The congratulation letter from EPA is attached. EPA has yet to confirm the quantity of the grant.

Attachments:

- 1. Portola 2019 Quantitative Milestone Report
- 2. May 24, 2019 letter from the Environmental Protection Agency to the California Air Resources Board.





May 15, 2019

UVE

Mr. Mike Stoker Regional Administrator Region 9 U.S. Environmental Protection Agency 75 Hawthorne Street San Francisco, California 94105

Dear Mr. Stoker:

The California Air Resources Board (CARB) is transmitting to the United States Environmental Protection Agency (U.S. EPA) the Portola 2019 Quantitative Milestone Report (Report) for the Northern Sierra Air Quality Management District (District). On January 15, 2015 the U.S. EPA designated and classified a portion of Plumas County as Moderate PM2.5 nonattainment area (Portola Nonattainment Area) for the 2012 annual PM2.5 standard. The District addressed the Clean Air Act (Act) requirements for this standard in the Portola Fine Particulate Matter (PM2.5) Attainment Plan (Portola Plan), including reasonable further progress (RFP) emission targets and quantitative milestones for 2019.

The Act requires PM2.5 nonattainment areas to submit a quantitative milestone report within 90 days of each RFP milestone due date. The enclosed Report documents implementation of District measures that provided emission reductions needed to meet the 2019 RFP emission targets. The Report also demonstrates that the 2019 quantitative milestones have been met.

If you have any questions or need further information, please contact Dr. Michael Benjamin, Chief, Air Quality Planning and Science Division, at (916) 201-8968, or by email at michael.benjamin@arb.ca.gov.

Sincerely,

Richard W. Corey Executive Officer

Enclosure

cc: See next page.

7ª

Mr. Mike Stoker May 15, 2019 Page 2

cc: (with enclosure)

Ms. Gretchen Bennitt Executive Director Northern Sierra Air Quality Management District 200 Litton Drive, Suite 320 Grass Valley, California 95945

Ms. Elizabeth Adams
Acting Director
Region 9, Air Division
U.S. Environmental Protection Agency
75 Hawthorne Street
San Francisco, California 94105

Dr. Michael T. Benjamin, Chief Air Quality Planning and Science Division California Air Resources Board



Portola 2019 Quantitative Milestone Report





This page intentionally left blank

TABLE OF CONTENTS

BAC	CKGROUND1	
l _e	CONTROL STRATEGY IMPLEMENTATION.	3
	EMISSION REDUCTIONS	
III.	CALCULATIONS	6
IV.;	SUMMARY AND CONCLUSIONS	8

Appendix A: CARB Emission Benefit Calculator

BACKGROUND

On January 15, 2015, the United States Environmental Protection Agency (U.S. EPA) designated and classified a portion of Plumas County as a Moderate PM2.5 nonattainment area (Portola Nonattainment Area) for the 2012 annual PM2.5 standard. This was based on ambient monitoring data that showed the area was above $12.0 \, \mu g/m^3$ for the 2011–2013 monitoring period.\(^1\) On February 28, 2017, the California Air Resources Board (CARB) submitted to U.S. EPA the Portola Fine Particulate Matter (PM2.5) Attainment Plan (Portola Plan) developed by the Northern Sierra Air Quality Management District (District). The Portola Plan demonstrates that the Portola Nonattainment Area will reach attainment by the Moderate area attainment date, December 31, 2021.

Section 189(c) of the Clean Air Act (CAA) requires that attainment plans for all PM2.5 nonattainment areas contain quantitative milestones that are achieved every three years and demonstrate reasonable further progress (RFP) until the area is redesignated to attainment. These milestones are set to ensure that the nonattainment area is making generally linear progress towards attainment and is on track to attain the National Ambient Air Quality Standards (NAAQS) by the applicable attainment date. In the case of the Portola Nonattainment Area, the first quantitative milestone date is October 2019. Section 189(c)(2) of the CAA requires each state containing a PM2.5 nonattainment area to submit, no later than 90 days after the applicable milestone date, a quantitative milestone report demonstrating that all State Implementation Plan (SIP) measures have been implemented and that the milestone has been met. The first quantitative milestone report for the Portola Nonattainment Area is due January 2020. Each quantitative milestone report must include, at a minimum:

- A certification by the Governor or Governor's designee that the SIP control strategy is being implemented consistent with RFP:
- Technical support, including calculations, sufficient to document completion statistics for appropriate milestones and to demonstrate that the quantitative milestones have been satisfied and how the emission reductions achieved to date compare to those required or scheduled to meet RFP; and
- A discussion of whether the area will attain the applicable PM2.5 NAAQS by the projected attainment date.²

The U.S. EPA requires that the RFP demonstration for milestone years includes direct PM2.5, as well as any PM precursors that have been determined to be significant. As demonstrated in Section V.C of the Portola Plan, PM precursors were determined to be insignificant for attainment. Therefore, this report only addresses direct PM2.5 emissions.

2

¹ 40 CFR 81 (Jan 15, 2015)

² 40 CFR 51.1013(b)

The objective of this quantitative milestone report is to demonstrate that the District has reviewed its commitments in the Portola Plan, has verified that the emission reductions needed to demonstrate RFP have been achieved, and that ongoing progress is being made to meet the December 31, 2021 attainment deadline.

CONTROL STRATEGY IMPLEMENTATION

PM2.5 concentrations in the Portola Nonattainment Area are dominated by direct PM2.5 emissions from residential wood heaters. Having a single emission source category that's located in people's homes and used as a primary source of heat makes the Portola PM2.5 problem very challenging. Therefore, the District and CARB have chosen to implement a Greater Portola Woodstove Change-out Program (Change-out Program) as the primary control strategy for the Portola Nonattainment Area. The District and CARB have committed to implementing the Change-out Program and continuing the ongoing reductions in the mobile sector in order to achieve milestone and attainment obligations. These commitments have been satisfied. The District made additional commitments listed in Table 4 of the Portola Plan referred to as 'Other Commitments'. Any potential emission reductions achieved from the 'Other Commitments' were not part of the attainment demonstration. All of these commitments have been met, except for prohibiting open burning during winter which the District now plans to take it to the Plumas County Board of Directors and the City of Portola Council in 2019.

The 2019 quantitative milestone target was based on the assumption that between 2016 and 2018 350 uncertified stoves will be replaced with Phase II certified stoves with an emission rate of 7.5 grams/hour (g/hr). The actual change-outs include 240 wood stoves with average emission rates of 3 g/hr, 30 pellet stoves with an average emission rate of 1.4 g/hr, and 11 propane and kerosene stoves. Figure 1 illustrates the devices replaced through December 31, 2018, grouped by the device type.

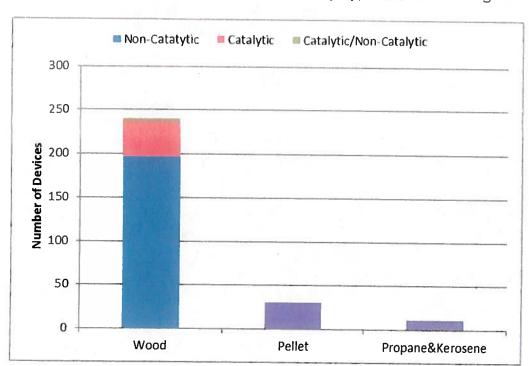


Figure 1. Number of Replacement Devices by Type Installed through 12/31/2018

II. EMISSION REDUCTIONS

The District made a commitment to achieve PM2.5 emission reductions of 0.045 tpd by the October 2019 milestone and 0.077 tpd by the October 2022 milestone by replacing uncertified wood stoves with cleaner burning and more efficient home heating devices in the Portola Nonattainment Area (Table 1).

Table 1. RFP Projected Emissions for Quantitative Milestone Years (tpd)

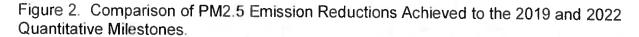
Sector	2019	2022
Wood Stove Change-out	0.045	0.077
Total	0.045	0.077

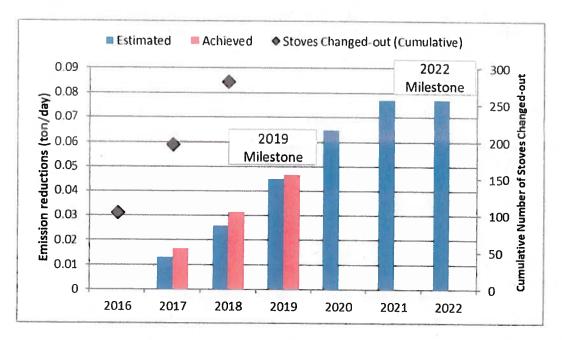
As demonstrated in Table 2 and Appendix A, change-outs completed by December 31, 2018 will reduce PM2.5 emissions by 0.46 tpd by the October 2019 milestone. The level of emission reductions achieved through December 31, 2018 ensures that the District meets the October 2019 milestone and is on track to meet the October 2022 milestone. The emission reductions needed to demonstrate RFP have been achieved, the October 2019 quantitative milestone have been met, and the ongoing progress is being made to attain the 12 μ g/m³ annual PM2.5 standard by December 31, 2021.

The 281 devices installed by the end of 2018 provide the emission reductions to meet the 2019 RFP milestone because they have significantly lower PM2.5 emission rates than the initial estimates. In order to have a conservative estimate, the assumption was that each qualified uncertified device will be replaced with a Phase II wood stove with an average certification test emission rate of 7.5 g/hr. The 240 wood burning replacement devices installed between 2016 and 2018 had an average certification test emission rate of 3.0 g/hr. The remaining 41 devices were even cleaner and included 30 pellet stoves with average emission rates of 1.4 g/hr and 11 propane/kerosene stoves with negligible PM2.5 emissions. The change-out statistics through December 31, 2018, including the number of specific devices and associated emission reductions are summarized in Table 2. Figure 2 compares the achieved emission reductions to the 2019 and 2022 quantitative milestones.

Table 2. Summary of Change-outs Completed between 2016 and 2018

Total Installations as of 12/31/18	281			
Summary by Replacement Device Type				
Non-catalytic Stoves	197			
Catalytic Stoves	39			
Catalytic/Non-catalytic Stoves	4			
Pellet Stoves	30			
Propane/Kerosene Stove	11			
Summary of Emission Reductions				
Total PM2.5 Emissions Saved (tons per year)	16.969			
Total PM2.5 Emissions Saved (tons per day)				
Initial Estimate (tons per day)				
Additional PM2.5 Reductions Achieved (tons per day)				





III. CALCULATIONS

Initial estimates of emission reductions achieved by replacing uncertified wood stoves with cleaner burning and more energy efficient home heating devices were based on the U.S. EPA Burnwise Emission Calculator (EPA Calculator).³ The EPA Calculator is designed to calculate the average emission reductions for the entire Program using the default emission factors. In order to come up with device specific emission estimates, CARB staff developed a supplemental calculator, referred to as the CARB Calculator.

The CARB Calculator was used to estimate PM2.5 emission reductions achieved by replacing 281 wood stoves between 2016 and 2018 with cleaner-burning and more energy efficient alternatives. The individual calculations for each device, along with the device tracking number and new equipment type, are presented in Appendix A. Listed below are the step-by-step instructions and formulas.

The first step in calculating emission reductions required converting certification test emission rates in grams per hour (g/hr) to emission factors in pounds per ton (lb/ton), as described below:

1. The certification test emission rate was scaled upward by 50 percent to reflect real-world in-home performance;⁴

33

³ Available at https://www.epa.gov/burnwise/burn-wise-additional-resources

⁴ https://www3.epa.gov/ttnchie1/conference/ei17/session4/houck.pdf

- 2. The scaled emission rate was divided by the average burn rate of 1.5 kilograms per hour (kg/hr) to calculate grams of PM2.5 emissions per kilogram of wood (g/kg);⁵ and
- 3. The result was multiplied by 2 to convert g/kg to lb/ton.

The average certification test emission rate for the 240 devices between 2016 and 2018 was 3.0 g/hr. Table 3 provides additional information about the emission limits of the wood burning devices installed in between 2016 and 2018.

Table 3. Breakdown of Wood Burning Devices Installed between 2016 and 2018 by the Emission Rate

Certification Test Emission Rate	Number of Devices
Not exceeding 3.0 g/hr	89
Between 3.0 g/hr and 4.0 g/hr	119
Greater than 4.0 g/hr	32
Total	240

The following equation was used to calculate emission factor in pounds per ton:

Equation 1: $EF = (ER \times 1.5)/BR \times 2$

Where:

EF Emission factor in pounds per ton

ER Emission rate in grams per hour

BR Average burn rate in kilograms per hour of operation

1.5 Factor used to scale certification test emission rate to reflect real world emissions

2 Factor used to convert grams per kilogram to pounds per ton

The average emission factor of 6.05 lb/ton calculated using Equation 1 is close to the emission factor of 8.76 lb/ton estimated in the Regulatory Impact Analysis for Residential Wood Heaters NSPS Review Table 4.3 (NSPS Review).⁶ Considering that the average replacement device had an approximate 1/3 lower certification test emission rate than the 4.5 g/hr assumed in the NSPS Review, the calculated emission factors seem appropriate.

⁵ Based on information received from Gary Blais of U.S. EPA Burnwise Program on August 2, 2016, titled "Conversion Factor TB." The spreadsheet was prepared by Tom Butcher, Research Engineer; Brookhaven National Laboratory.

⁶ https://www3.epa.gov/ttnecas1/docs/ria/wood-heaters ria final-nsps-revision 2015-02.pdf

The following formulas were used to calculate PM2.5 emissions of the old device, the new device, and the difference between them.

Equation 2:
$$E_{old} = (EF_{old} \times WU \times WD)/2000$$

Equation 3:
$$E_{new} = (EF_{new} \times WU \times WD \times (EFC_{old}/EFC_{new}))/2000$$

Equation 4:
$$E_{benefit} = E_{old} - E_{new}$$

Where:

Emissions of old device (ton/year)
Emissions of new device (ton/year)
Emission factor for the old device (lb/ton)
Emission factor for the new device (lb/ton)
Wood usage (cords/year)
Wood density (ton/cord)
Device efficiency for the old device (%)
Device efficiency for the new device (%)
Emission reductions from change-out (ton/year)

Since emission factors for pellet stoves are considered to be more representative of an actual in-home usage,' a default emission factor of 3.06 lb/ton, consistent with the NSPS Review, was used for all pellet stoves.⁸ Portola households using a pellet stove as a main source of heat use two to three tons of pellet fuel per year.⁹ In order to ensure a conservative estimate for emission reductions, three tons was assumed. Consistent with California's Short-Lived Climate Pollutant Reduction Strategy¹⁰, propane and kerosene fueled heating devices were assumed to have negligible PM2.5 emissions.

IV. SUMMARY AND CONCLUSIONS

The Portola Nonattainment Area is classified as Moderate nonattainment for the 2012 annual PM2.5 standard, with an attainment date of December 31, 2021. The District has reviewed its commitments in the Portola Plan, has provided updates on the implementation of the control measures, and has verified that the emission reductions needed to satisfy the 2019 milestone have been achieved. The emission reductions needed to demonstrate RFP have been achieved, the 2019 quantitative milestone have been met, and ongoing progress is being made to attain the 2012 annual PM2.5 standard by December 31, 2021.

⁷ https://www3.epa.gov/ttnchie1/ap42/ch01/related/woodstove.pdf

https://www3.epa.gov/ttnecas1/docs/ria/wood-heaters ria final-nsps-revision 2015-02.pdf.

⁹ Quincy Hot Spot personal communication

¹⁰ https://www.arb.ca.gov/cc/shortlived/meetings/03142017/final_slcp_report.pdf

Appendix A

Greater Portola Wood Stove Change-out Program Emission Benefit Calculator

Constants & Conversions	Value	Unit	Source
PM2.5 Emission Factors			
Uncertified Stove	30.60	lb PM2.5/ton wood	AP-42, Table 1.101 ¹¹
Fireplace	34.60	lb PM2.5/ton wood	AP-42, Table 1.91 ¹²
Pellet Stove	3.06	lb PM2.5/ton wood	2015 NSPS - Regulatory Impact Analysis for Residential Wood Heaters NSPS Review Table 4.3 ¹³
2015 NSPS Stove	8.76	lb PM2.5/ton wood	2015 NSPS - Regulatory Impact Analysis for Residential Wood Heaters NSPS Review Table 4.3 ¹⁴
Propane, Electric, or Kerosene	0.00		California Short-Lived Pollutant Reduction Strategy ¹⁵
Efficiency			
Uncertified Stove Efficiency	54	%	AP-42, Table 1.10-5 ¹⁶
Certified Stove Efficiency	68	%	AP-42, Table 1.10-5 ¹⁷
Pellet Stove Efficiency	68	%	AP-42, Table 1.10-5 ¹⁸
Fireplace	7	%	Review of Fireplace Use and Technology, OMNI Environmental ¹⁹
Other Constants & Conversions			
Wood Use	4.3	cord/year	District Survey
Wood Density	1.04	ton/cord	U.S. EPA Burnwise Emission Calculator
Average Burn Rate	1.5	kg/hour	Gary Blais Personal Communications
Emission Rate Scaling Factor	1.5		
Conversion from lb to ton	2000		
Conversion from g/kg to lb/ton	2		

¹¹ https://www3.epa.gov/ttnchie1/ap42/ch01/final/c01s10.pdf

¹² https://www3.epa.gov/ttnchie1/ap42/ch01/final/c01s09.pdf

¹³ https://www3.epa.gov/ttnecas1/docs/ria/wood-heaters_ria_final-nsps-revision_2015-02.pdf

¹⁵ https://www.arb.ca.gov/cc/shortlived/meetings/03142017/final_slcp_report.pdf

¹⁶ https://www3.epa.gov/ttnchie1/ap42/ch01/final/c01s10.pdf

¹⁷ Ibid

¹⁸ Ibid

¹⁹ http://www.omni-test.com/publications/firepl.pdf

Program						Em	issions (t	on/year)
# (YYYY-	New	Install	Emission Rate	Device	Factor	Defens	0.50	D:((
2016-001	Fuel wood	5/23/16	(g/hr) 2.9	Type NC	(lb/ton)	Before	After	Difference
2016-001	wood	8/9/16	1.9	NC	5.8	0.0684	0.0103	0.0581
2016-005	wood	5/11/16	3.5	NC	7	0.0684	0.0067	0.0617
2016-007	wood	8/5/16	3.3	NC	6.6	0.0684	0.0124	0.0560
2016-007	wood	6/24/16	0.58	NC	1.16	0.0684	0.0117	0.0567
2016-009	wood	5/10/16	3.2	NC	6.4	0.0684	0.0021	0.0664
2016-011	wood	5/27/16	3.8	NC	7.6	0.0684		0.0571
2016-012	wood	5/19/16	3.09	NC	6.18	0.0684	0.0135	0.0549
2016-015	wood	5/11/16	3.03	NC	6.4	0.0684	0.0110	0.0574
2016-015	wood	8/4/16	3.2	NC NC	6	0.0684	0.0114	0.0571
2016-017	wood	7/14/16	3.5	NC	7	0.0684	0.0107	0.0578
2016-019	wood	6/13/16	2.3	NC	4.6	0.0684	0.0124	0.0560 0.0603
2016-020	wood	6/23/16	4.4	NC NC	8.8	0.0684	0.0082	0.0528
2016-021	wood	5/25/16	3.8	NC	7.6	0.0684	0.0136	
2016-021	wood	8/18/16	3.6	NC	7.0	0.0684	0.0133	0.0549 0.0556
2016-023	wood	6/28/16	2.77	NC	5.54	0.0684	0.0128	0.0586
2016-024	wood	5/19/16	2.4	NC	4.8	0.0684	0.0038	0.0599
2016-025	wood	7/14/16	3.5	NC NC	7.3	0.0684	0.0124	0.0560
2016-026	wood	9/1/16	0.08	NC	0.16	0.0684	0.0003	0.0681
2016-028	wood	5/16/16	3.5	NC	7	0.0684	0.0124	0.0560
2016-029	wood	6/21/16	4.4	NC	8.8	0.0684	0.0156	0.0528
2016-030	wood	10/19/16	3.9	NC	7.8	0.0684	0.0139	0.0546
2016-032	wood	7/25/16	4.4	NC	8.8	0.0684	0.0156	0.0528
2016-033	wood	8/2/16	3.2	NC	6.4	0.0684	0.0114	0.0571
2016-035	wood	7/8/16	2.9	NC	5.8	0.0684	0.0103	0.0581
2016-036	wood	6/22/16	3.8	NC	7.6	0.0684	0.0135	0.0549
2016-037	wood	10/11/16	4.2	NC	8.4	0.0684	0.0149	0.0535
2016-038	wood	6/23/16	3.2	NC	6.4	0.0684	0.0114	0.0571
2016-039	wood	7/26/16	3.5	NC	7	0.0684	0.0124	0.0560
2016-040	wood	7/19/16	3.6	NC	7.2	0.0684	0.0128	0.0556
2016-041	wood	7/8/16	4.1	NC	8.2	0.0684	0.0146	0.0539
2016-042	wood	6/14/16	2.7	NC	5.4	0.0684	0.0096	0.0588
2016-044	wood	7/14/16	3.8	NC	7.6	0.0684	0.0135	0.0549

Program						Em	Emissions (ton/yea		
# (YYYY- XXX)	New Fuel	Install	Emission Rate (g/hr)	Device Type	Emission Factor (lb/ton)	Before	After	Difference	
2016-045	wood	7/12/16	4.4	NC	8.8	0.0684	0.0156	0.0528	
2016-046	wood	7/28/16	2.1	NC	4.2	0.0684	0.0075	0.0610	
2016-047	wood	7/22/16	3.2	NC	6.4	0.0684	0.0114	0.0571	
2016-048	wood	12/5/16	3.6	NC	7.2	0.0684	0.0128	0.0556	
2016-049	wood	8/3/16	3.5	NC	7	0.0684	0.0124	0.0560	
2016-050	wood	7/11/17	2.1	NC	4.2	0.0684	0.0075	0.0610	
2016-051	wood	7/26/16	3.2	NC	6.4	0.0684	0.0114	0.0571	
2016-054	wood	8/17/16	2.3	NC	4.6	0.0684	0.0082	0.0603	
2016-055	wood	9/14/16	3.6	NC	7.2	0.0684	0.0128	0.0556	
2016-056	wood	8/26/16	3.1	NC	6.2	0.0684	0.0110	0.0574	
2016-057	wood	12/16/16	3.5	NC	7	0.0684	0.0124	0.0560	
2016-058	wood	7/29/16	3	NC	6	0.0684	0.0107	0.0578	
2016-059	wood	8/19/16	2.3	NC	4.6	0.0684	0.0082	0.0603	
2016-061	wood	8/12/16	3.9	NC	7.8	0.0684	0.0139	0.0546	
2016-062	wood	8/9/16	3.8	NC	7.6	0.0684	0.0135	0.0549	
2016-064	wood	8/2/16	3	NC	6	0.0684	0.0107	0.0578	
2016-065	wood	8/17/16	3.6	NC	7.2	0.0684	0.0128	0.0556	
2016-066	wood	12/20/16	3.9	NC	7.8	0.0684	0.0139	0.0546	
2016-068	wood	9/15/16	2.3	NC	4.6	0.0684	0.0082	0.0603	
2016-069	wood	9/14/16	3.7	NC	7.4	0.0684	0.0131	0.0553	
2016-070	wood	11/18/16	3.2	NC	6.4	0.0684	0.0114	0.0571	
2016-072	wood	9/9/16	3.9	NC	7.8	0.0684	0.0139	0.0546	
2016-073	wood	4/19/18	3.29	NC	6.58	0.0684	0.0117	0.0567	
2016-074	wood	8/9/16	2.1	NC	4.2	0.0684	0.0075	0.0610	
2016-075	wood	11/3/16	4.47	NC	8.94	0.0684	0.0159	0.0525	
2016-076	wood	9/7/16	3.8	NC	7.6	0.0684	0.0135	0.0549	
2016-078	wood	10/13/16	3.5	NC	7	0.0684	0.0124	0.0560	
2016-079	wood	8/18/16	3.8	NC	7.6	0.0684	0.0135	0.0549	
2016-080	wood	6/27/17	1.9	NC	3.8	0.0684	0.0067	0.0617	
2016-082	wood	9/9/16	3.5	NC	7	0.0684	0.0124	0.0560	
2016-083	wood	10/11/16	3.5	NC	7	0.0684	0.0124	0.0560	
2016-084	wood	9/13/16	3.7	NC	7.4	0.0684	0.0131	0.0553	
2016-085	wood	10/19/16	3.5	NC	7	0.0684	0.0124	0.0560	
2016-089	wood	9/8/16	3	NC	6	0.0684	0.0107	0.0578	
2016-091	wood	10/6/16	3	NC	6	0.0684	0.0107	0.0578	
2016-093	wood	12/1/16	3.5	NC	7	0.0684	0.0124	0.0560	
2016-096	wood	10/18/16	4.4	NC	8.8	0.0684	0.0156	0.0528	
2016-098	wood	11/18/16	3.2	NC	6.4	0.0684	0.0114	0.0571	

Program						En	nissions I	ton/year)
Tracking		14	Emission		Emission		1112210112 (ton/year)
# (YYYY-	New	Install	Rate	Device	Factor	1		
XXX)	Fuel	Date	(g/hr)	Туре	(lb/ton)	Before	After	Difference
2016-099	wood	5/17/17	4.2	NC	8.4	0.0684	0.0149	0.0535
2016-101	wood	10/10/16	4.4	NC	8.8	0.0684	0.0156	0.0528
2016-103		10/12/16	4.4	NC	8.8	0.0684	0.0156	0.0528
2016-104		11/22/16	3.2	NC	6.4	0.0684	0.0114	0.0571
2016-106	wood	10/21/16	3.5	NC	7	0.0684	0.0124	0.0560
2016-107	wood	2/24/17	1.9	NC	3.8	0.0684	0.0067	0.0617
2016-108	wood	8/18/17	3.5	NC	7	0.0684	0.0124	0.0560
2016-109	wood	12/7/16	3.1	NC	6.2	0.0684	0.0110	0.0574
2016-111	wood	11/3/16	4.2	NC	8.4	0.0684	0.0149	0.0535
2016-112	wood	11/21/16	3.9	NC	7.8	0.0684	0.0139	0.0546
2016-113	wood	11/17/16	3	NC	6	0.0684	0.0107	0.0578
2016-115	wood	10/17/16	4.4	NC	8.8	0.0684	0.0156	0.0528
2016-118	wood	10/31/16	3.89	NC	7.78	0.0684	0.0138	0.0546
2016-120	wood	12/20/16	4.4	NC	8.8	0.0684	0.0156	0.0528
2016-121	wood	11/8/16	4.4	NC	8.8	0.0684	0.0156	0.0528
2016-122	wood	11/16/16	4.4	NC	8.8	0.0684	0.0156	0.0528
2016-123	wood	12/16/16	3.5	NC	7	0.0684	0.0124	0.0560
2016-126	wood	1/27/17	3.5	NC	7	0.0684	0.0124	0.0560
2016-127	wood	9/6/18	3.3	NC	6.6	0.0684	0.0117	0.0567
2016-128	wood	12/19/16	4.47	NC	8.94	0.0684	0.0159	0.0525
2016-129	wood	6/14/17	3.8	NC	7.6	0.0684	0.0135	0.0549
2016-131	wood	11/7/17	3.5	NC	7	0.0684	0.0124	0.0560
2016-132	wood	12/12/16	4.4	NC	8.8	0.0684	0.0156	0.0528
2016-133	wood	12/7/16	3.5	NC	7	0.0684	0.0124	0.0560
2016-134	wood	12/7/16	4	NC	8	0.0684	0.0142	0.0542
2016-135	wood	7/14/17	3.8	NC	7.6	0.0684	0.0135	0.0549
2016-136	wood	12/15/16	3.2	NC	6.4	0.0684	0.0114	0.0571
2016-137	wood	12/20/16	2.3	NC	4.6	0.0684	0.0082	0.0603
2016-138	wood	1/27/17	3.6	NC	7.2	0.0684	0.0128	0.0556
2016-139	wood	1/24/17	3.2	NC	6.4	0.0684	0.0114	0.0571
2016-145	wood	3/16/17	3.5	NC	7	0.0684	0.0124	0.0560
2016-146	wood	6/20/17	3.5	NC	7	0.0684	0.0124	0.0560
2016-147	wood	3/30/17	3.5	NC	7	0.0684	0.0124	0.0560
2016-148	wood	12/28/16	2.8	NC	5.6	0.0684	0.0099	0.0585
2016-149	wood	1/31/17	3.5	NC	7	0.0684	0.0124	0.0560
2016-150	wood	8/3/17	3.5	NC	7	0.0684	0.0124	0.0560
2016-151	wood	7/6/17	3.59	NC	7.18	0.0684	0.0127	0.0557
2017-001	wood	5/21/17	3.2	NC	6.4	0.0684	0.0114	0.0571

Program						F	Emissions (ton/year)		
Tracking			Emission		Emission	EII	issions (t	on/year)	
# (YYYY-	New	Install	Rate	Device	Factor				
XXX)	Fuel	Date	(g/hr)	Туре	(lb/ton)	Before	After	Difference	
2017-002	wood	8/9/18	3.4	, NC	6.8	0.0684	0.0121	0.0563	
2017-003		3/9/17	3.9	NC	7.8	0.0684	0.0139	0.0546	
2017-155	wood	5/26/17	4.4	NC	8.8	0.0684	0.0156	0.0528	
2017-156	wood	5/10/17	3.2	NC	6.4	0.0684	0.0114	0.0571	
2017-157	wood	3/27/17	3.2	NC	6.4	0.0684	0.0114	0.0571	
2017-159	wood	3/31/17	3.2	NC	6.4	0.0684	0.0114	0.0571	
2017-161	wood	4/12/17	1.9	NC	3.8	0.0684	0.0067	0.0617	
2017-163	wood	9/5/17	4.2	NC	8.4	0.0684	0.0149	0.0535	
2017-164	wood	5/25/17	3	NC	6	0.0684	0.0107	0.0578	
2017-165	wood	5/20/17	3.2	NC	6.4	0.0684	0.0114	0.0571	
2017-166	wood	6/30/17	0.8	NC	1.6	0.0684	0.0028	0.0656	
2017-168	wood	5/19/17	2.3	NC	4.6	0.0684	0.0082	0.0603	
2017-169	wood	6/28/17	3.09	NC	6.18	0.0684	0.0110	0.0574	
2017-170	wood	9/12/18	3.29	NC	6.58	0.0684	0.0117	0.0567	
2017-171	wood	6/7/17	3.8	NC	7.6	0.0684	0.0135	0.0549	
2017-172	wood	6/13/17	3.8	NC	7.6	0.0684	0.0135	0.0549	
2017-173	wood	7/14/17	3.59	NC	7.18	0.0684	0.0127	0.0557	
2017-174	wood	8/22/17	3	NC	6	0.0684	0.0107	0.0578	
2017-177	wood	7/17/17	3.4	NC	6.8	0.0684	0.0121	0.0563	
2017-179	wood	9/4/18	3.8	NC	7.6	0.0684	0.0135	0.0549	
2017-182	wood	8/7/17	2.9	NC	5.8	0.0684	0.0103	0.0581	
2017-183	wood	8/24/17	4.29	NC	8.58	0.0684	0.0152	0.0532	
2017-184	wood	10/12/17	4.4	NC	8.8	0.0684	0.0156	0.0528	
2017-187	wood	7/25/17	3.89	NC	7.78	0.0684	0.0138	0.0546	
2017-188	wood	8/23/17	1.9	NC	3.8	0.0684	0.0067	0.0617	
2017-190	wood	9/6/17	3.89	NC	7.78	0.0684	0.0138	0.0546	
2017-191	wood	8/17/17	3.1	NC	6.2	0.0684	0.0110	0.0574	
2017-192	wood	8/16/17	3.99	NC	7.98	0.0684	0.0142	0.0543	
2017-193	wood	11/30/17	3.89	NC	7.78	0.0684	0.0138	0.0546	
2017-194	wood	7/27/17	4.4	NC	8.8	0.0684	0.0156	0.0528	
2017-195	wood	11/30/17	3.5	NC	7	0.0684	0.0124	0.0560	
2017-197	wood	12/5/17	3.89	NC	7.78	0.0684	0.0138	0.0546	
2017-199	wood	12/5/17	3.59	NC	7.18	0.0684	0.0127	0.0557	
2017-200	wood	11/20/17	3.86	NC	7.72	0.0684	0.0137	0.0547	
2017-203	wood	11/15/17	2.1	NC	4.2	0.0684	0.0075	0.0610	
2017-205	wood	9/7/17	2.5	NC	5	0.0684	0.0089	0.0595	
2017-207	wood	8/30/17	3.5	NC	7	0.0684	0.0124	0.0560	

Program						Em	Emissions (ton/year)		
Tracking			Emission	=	Emission		1		
# (YYYY-	New	Install	Rate	Device	Factor				
XXX)	Fuel	Date	(g/hr)	Туре	(lb/ton)	Before	After	Difference	
2017-208	wood	12/21/17	3.39	NC	6.78	0.0684	0.0120	0.0564	
2017-210	wood	2/7/18	4.4	NC	8.8	0.0684	0.0156	0.0528	
2017-211	wood	11/21/17	3.89	NC	7.78	0.0684	0.0138	0.0546	
2017-212	wood	11/20/17	3.89	NC	7.78	0.0684	0.0138	0.0546	
2017-213	wood	12/1/17	3.8	NC	7.6	0.0684	0.0135	0.0549	
2017-216	wood	12/26/17	4.2	NC	8.4	0.0684	0.0149	0.0535	
2017-217	wood	12/6/17	3.29	NC	6.58	0.0684	0.0117	0.0567	
2017-221	wood	11/9/17	4.4	NC	8.8	0.0684	0.0156	0.0528	
2017-223	wood	1/26/18	3.5	NC	7	0.0684	0.0124	0.0560	
2017-225	wood	8/2/18	4.2	NC	8.4	0.0684	0.0149	0.0535	
2017-228	wood	2/6/18	3.3	NC	6.6	0.0684	0.0117	0.0567	
2017-229	wood	1/31/18	3.39	NC	6.78	0.0684	0.0120	0.0564	
2017-231	wood	2/21/18	3.69	NC	7.38	0.0684	0.0131	0.0553	
2017-232	wood	1/10/18	1.9	NC	3.8	0.0684	0.0067	0.0617	
2017-234	wood	12/8/17	4.4	NC	8.8	0.0684	0.0156	0.0528	
2017-236	wood	3/6/18	1.9	NC	3.8	0.0684	0.0067	0.0617	
2018-239	wood	9/21/18	1.54	NC	3.08	0.0684	0.0055	0.0630	
2018-241	wood	4/26/18	3.89	NC	7.78	0.0684	0.0138	0.0546	
2018-242	wood	10/4/18	1.9	NC	3.8	0.1080	0.0067	0.1012	
2018-244	wood	2/6/18	3.89	NC	7.78	0.0684	0.0138	0.0546	
2018-245	wood	2/7/18	3.89	NC	7.78	0.0684	0.0138	0.0546	
2018-246	wood	9/20/18	1.54	NC	3.08	0.0684	0.0055	0.0630	
2018-250	wood	5/13/18	3.5	NC	7	0.0684	0.0124	0.0560	
2018-251	wood	6/6/18	3.5	NC	7	0.0684	0.0124	0.0560	
2018-254	wood	4/4/18	4.29	NC	8.58	0.1080	0.0152	0.0927	
2018-256	wood	4/30/18	3.9	NC	7.8	0.1080	0.0139	0.0941	
2018-260	wood	5/9/18	3.29	NC	6.58	0.0684	0.0117	0.0567	
2018-261	wood	6/26/18	3.29	NC	6.58	0.0684	0.0117	0.0567	
2018-263	wood	5/24/18	4.2	NC	8.4	0.1080	0.0149	0.0930	
2018-265	wood	3/28/18	0.58	NC	1.16	0.1080	0.0021	0.1059	
2018-266	wood	3/14/18	2.84	NC	5.68	0.0684	0.0101	0.0583	
2018-267	wood	5/1/18	3.9	NC	7.8	0.0684	0.0139	0.0546	
2018-270	wood	3/19/18	3.9	NC	7.8	0.0684	0.0139	0.0546	
2018-271	wood	6/4/18	3.89	NC	7.78	0.0684	0.0138	0.0546	
2018-272	wood	8/31/18	3.5	NC	7	0.1080	0.0124	0.0955	
2018-273	wood	5/18/18	3.29	NC	6.58	0.0684	0.0117	0.0567	
2018-276	wood	9/12/18	1.1	NC	2.2	0.0684	0.0039	0.0645	
2018-278	wood	5/8/18	4.29	NC	8.58	0.0684	0.0152	0.0532	

Program						En	nissions (t	on/vear)
Tracking # (YYYY- XXX)	New Fuel	Install Date	Emission Rate (g/hr)	Device Type	Emission Factor (lb/ton)	Before	After	Difference
2018-280	wood	10/10/18	3.5	NC	7	0.0684	0.0124	0.0560
2018-282	wood	8/3/18	2.69	NC	5.38	0.0684	0.0096	0.0589
2018-289	wood	9/5/18	3.59	NC	7.18	0.0684	0.0127	0.0557
2018-290	wood	9/21/18	3.29	NC	6.58	0.0684	0.0117	0.0567
2018-292	wood	10/25/18	1.9	NC	3.8	0.0684	0.0067	0.0617
2018-293	wood	12/7/18	3.29	NC	6.58	0.1080	0.0117	0.0963
2018-297	wood	10/3/18	1.9	NC	3.8	0.0684	0.0067	0.0617
2018-298	wood	11/1/18	3.5	NC	7	0.0684	0.0124	0.0560
2018-299	wood	11/1/18	3.2	NC	6.4	0.0684	0.0114	0.0571
2018-301	wood	10/2/18	3.9	NC	7.8	0.0684	0.0139	0.0546
2018-314	wood	10/12/18	2.3	NC	4.6	0.1080	0.0082	0.0998
2018-315	wood	11/26/18	1.9	NC	3.8	0.1080	0.0067	0.1012
2018-320	wood	12/6/18	1.54	NC	3.08	0.0684	0.0055	0.0630
2016-010	wood	11/1/17	1.76	CAT	3.52	0.0684	0.0063	0.0622
2016-018	wood	7/21/16	1.8	CAT	3.6	0.0684	0.0064	0.0620
2016-043	wood	8/16/16	1.48	CAT	2.96	0.0684	0.0053	0.0632
2016-067	wood	8/18/16	0.45	CAT	· 0.9	0.0684	0.0016	0.0668
2016-071	wood	8/17/16	0.45	CAT	0.9	0.0684	0.0016	0.0668
2016-087	wood	10/5/16	2.42	CAT	4.84	0.0684	0.0086	0.0598
2016-090	wood	10/19/16	2.42	CAT	4.84	0.0684	0.0086	0.0598
2016-095	wood	9/22/16	1.76	CAT	3.52	0.0684	0.0063	0.0622
2016-102	wood	9/21/16	1.48	CAT	2.96	0.0684	0.0053	0.0632
2016-105	wood	11/16/16	1.3	CAT	2.6	0.0684	0.0046	0.0638
2016-130	wood	1/17/17	1.76	CAT	3.52	0.0684	0.0063	0.0622
2017-176	wood	6/21/17	2.4	CAT	4.8	0.0684	0.0085	0.0599
2017-178	wood	9/20/17	0.97	CAT	1.94	0.0684	0.0034	0.0650
2017-201	wood	8/17/17	3.8	CAT	7.6	0.0684	0.0135	0.0549
2017-209	wood	10/4/17	2.42	CAT	4.84	0.0684	0.0086	0.0598
2017-214	wood	11/14/17	0.045	CAT	0.09	0.0684	0.0002	0.0683
2017-215	wood	10/6/17	0.79	CAT	1.58	0.0684	0.0028	0.0656
2017-220	wood	10/31/17	0.35	CAT	0.7	0.0684	0.0012	0.0672
2017-230	wood	3/13/18	2.42	CAT	4.84	0.0684	0.0086	0.0598
2018-255	wood	4/23/18	0.09	CAT	0.18	0.0684	0.0003	0.0681
2018-258	wood	4/25/18	2.42	CAT	4.84	0.0684	0.0086	0.0598
2018-262	wood	9/25/18	2	CAT	. 4	0.0684	0.0071	0.0613
2018-264	wood	3/29/18	2.42	CAT	4.84	0.0684	0.0086	0.0598
2018-268	wood	8/16/18	1.76	CAT	3.52	0.0684	0.0063	0.0622
2018-274	wood	8/8/18	1.3	CAT	2.6	0.0684	0.0046	0.0638

Program						En	nissions (t	on/year)
Tracking # (YYYY- XXX)	New Fuel	Install Date	Emission Rate (g/hr)	Device Type	Emission Factor (lb/ton)	Before	After	Difference
2018-277	wood	9/19/18	1.3	CAT	2.6	0.0684	0.0046	0.0638
2018-279	wood	6/18/18	1.3	CAT	2.6	0.0684	0.0046	0.0638
2018-284	wood	7/24/18	1.3	CAT	2.6	0.0684	0.0046	0.0638
2018-294	wood	7/16/18	1.3	CAT	2.6	0.0684	0.0046	0.0638
2018-300	wood	10/11/18	2.4	CAT	4.8	0.0684	0.0085	0.0599
2018-302	wood	9/18/18	2.2	CAT	4.4	0.0684	0.0078	0.0606
2018-304	wood	10/15/18	2.4	CAT	4.8	0.0684	0.0085	0.0599
2018-305	wood	10/22/18	2.42	CAT	4.84	0.0684	0.0086	0.0598
2018-308	wood	11/30/18	0.9	CAT	1.8	0.1080	0.0032	0.1048
2018-309	wood	11/5/18	2.4	CAT	4.8	0.0684	0.0085	0.0599
2018-313	wood	12/4/18	2.42	CAT	4.84	0.0684	0.0086	0.0598
2018-316	wood	12/4/18	1.3	CAT	2.6	0.0684	0.0046	0.0638
2018-318	wood	11/14/18	1.3	CAT	2.6	0.0684	0.0046	0.0638
2018-243	wood	7/19/18	7.5	repair	15	0.0684	0.0266	0.0418
2016-002	wood	5/18/16	0.8	C/NC (both)	1.6	0.0684	0.0028	0.0656
2016-004	wood	5/19/16	0.8	C/NC (both)	1.6	0.0684	0.0028	0.0656
2016-005	wood	5/17/16	0.45	C/NC (both)	0.9	0.0684	0.0016	0.0668
2016-014	wood	5/25/16	0.45	C/NC (both)	0.9	0.0684	0.0016	0.0668
2016-013	pellet	5/25/16	1.3	pellet	3.06	0.0684	0.0046	0.0638
2016-031	pellet	8/2/16	1.5	pellet	3.06	0.0684	0.0046	0.0638
2016-052	pellet	5/17/17	1.3	pellet	3.06	0.0684	0.0046	0.0638
2016-063	pellet	8/1/17	1.3	pellet	3.06	0.0684	0.0046	0.0638
2016-088	pellet	11/15/16	1.3	pellet	3.06	0.0684	0.0046	0.0638
2016-094	pellet	11/4/16	1.3	pellet	3.06	0.0684	0.0046	0.0638
2016-100	pellet	11/1/16	1.3	pellet	3.06	0.0684	0.0046	0.0638
2016-117	pellet	11/17/16	1.7	pellet	3.06	0.0684	0.0046	0.0638
2016-124	pellet	12/13/16	1.3	pellet	3.06	0.0684	0.0046	0.0638
2016-141	pellet	3/14/17	1.8	pellet	3.06	0.0684	0.0046	0.0638
2016-144	pellet	3/10/17	1.3	pellet	3.06	0.0684	0.0046	0.0638
2017-160	pellet	4/13/17	1.3	pellet	3.06	0.0684	0.0046	0.0638
2017-162	pellet	10/10/17	1.8	pellet	3.06	0.0684	0.0046	0.0638
2017-167	pellet	5/12/17	2.1	pellet	3.06	0.0684	0.0046	0.0638
2017-175	pellet	8/8/17	1.3	pellet	3.06	0.0684	0.0046	0.0638
2017-196	pellet	9/8/17	1.5	pellet	3.06	0.0684	0.0046	0.0638
2017-204	pellet	10/13/17	1.35	pellet	3.06	0.0684	0.0046	0.0638

Program						Em	issions (to	on/year)
Tracking # (YYYY- XXX)	New Fuel	Install Date	Emission Rate (g/hr)	Device Type	Factor (lb/ton)	Before	After	Difference
2017-218	pellet	1/31/18	1.35	pellet	3.06	0.0684	0.0046	0.0638
2017-222	pellet	12/5/17	0.73	pellet	3.06	0.0684	0.0046	0.0638
2017-233	pellet	12/11/17	1.7	pellet	3.06	0.0684	0.0046	0.0638
2017-235	pellet	1/9/18	1.6	pellet	3.06	0.0684	0.0046	0.0638
2017-237	pellet	6/1/18	1.6	pellet	3.06	0.0684	0.0046	0.0638
2018-238	pellet	4/19/18	1.1	pellet	3.06	0.0684	0.0046	0.0638
2018-275	pellet	8/14/18	1.1	pellet	3.06	0.0684	0.0046	0.0638
2018-281	pellet	5/30/18	1.39	pellet	3.06	0.0684	0.0046	0.0638
2018-285	pellet	9/27/18	1.39	pellet	3.06	0.0684	0.0046	0.0638
2018-286	pellet	7/17/18	1	pellet	3.06	0.0684	0.0046	0.0638
2018-291	pellet	8/31/18	1.3	pellet	3.06	0.0684	0.0046	0.0638
2018-296	pellet	10/24/18	1.3	pellet	3.06	0.0684	0.0046	0.0638
2018-303	pellet	11/21/18	1.75	pellet	3.06	0.0684	0.0046	0.0638
2016-053	propane	9/1/16	0	propane	0	0.0684	0.0000	0.0684
2016-092	propane	10/13/16	0	propane	0	0.0684	0.0000	0.0684
2017-185	propane	8/8/17	0	propane	0	0.0684	0.0000	0.0684
2017-186	propane	10/4/17	0	propane	0	0.0684	0.0000	0.0684
2017-202	propane	10/19/17	0	propane	0	0.0684	0.0000	0.0684
2017-224	propane	2/23/18	0	propane	0	0.0684	0.0000	0.0684
2018-248	propane	5/30/18	0	propane	0	0.1080	0.0000	0.1080
2018-253	propane	7/13/18	0	propane	0	0.1080	0.0000	0.1080
2018-269	propane	11/7/18	0	propane	0	0.0684	0.0000	0.0684
2016-125	kerosene	1/6/17	0	kerosene	0	0.0684	0.0000	0.0684
2018-259	kerosene	3/27/18	0	kerosene	0	0.0684	0.0000	0.0684
Total Insta	llations as of	12/31/18						281
Wood Stor	ves Total							240
	Noncatalytic	Stoves						197
	Catalytic/No	ncatalytic Sto	ves					4
	Catalytic Sto	ves				W		39
Pellet Stov	res							30
Propane St	toves						Y	9
Kerosene S	Stoves	7 1 = .						2
Total PM2	.5 Emissions S	aved (tons pe	r year)			П		16.9688
Total PM2	.5 Emissions S	aved (tons pe	r day)					0.0465





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY RESEARCH TRIANGLE PARK, NC 27711

OFFICE OF AIR QUALITY PLANNING AND STANDARDS

May 24, 2019

Mr. David Azevedo Chief of Accounting California Air Resources Board 1001 I Street Sacramento, CA 95814

Re: 2018 Targeted Airshed Grant Program, Announcement #EPA-OAR-OAQPS-18-08

Dear Mr. Azevedo,

On behalf of the United States Environmental Protection Agency (EPA), I am pleased to congratulate you and confirm that California Air Resources Board's (CARB) "Portola PM2.5 Nonattainment Area Airshed Project" application has been selected for award under the 2018 Targeted Airshed Grant Program, Announcement #EPA-OAR-OAQPS-18-08. Your EPA Project Officer, Angela Latigue (latigue.angela@epa.gov), will be contacting your organization to initiate the grant funding recommendation process. Please note that only a duly authorized grant officer can bind the government following approval of your final application. The award will not be official and final until a notice of award approval is issued by the EPA award official and affirmed by your organization.

After reviewing your additional application in accordance with the criteria stated in the announcement, we regret to inform you that the application "Locomotive Replacement Project in the Western Mojave Desert Air Quality Management District" was not selected for award. The Targeted Airshed Grant Program competition yielded 20 applications from the eligible entities responsible for the nonattainment areas listed in the announcement. A technical evaluation panel reviewed, evaluated and scored each application against the evaluation criteria stated in the above referenced announcement. Unfortunately, this application was not selected for award based on the ranking and scoring of this application.

You may obtain a detailed debriefing of the basis for our decision that this application was not selected for award by making a request for a debriefing via email at elmore.deborah@epa.gov within 15 calendar days of the date you receive this letter. Upon receipt of a timely debriefing request, you will be contacted to schedule a debriefing at a mutually agreeable time.

For further information about the debriefing process and your dispute rights with respect to competitionrelated issues under the subject announcement, please refer to Section VI of the announcement. If you have any questions about the debriefing or disputes process, you may contact Deborah Elmore via telephone at

45

(919) 541-5437 and via email at <u>elmore.deborah@epa.gov</u>. We appreciate the effort that went into the preparation of your application and look forward to your participation in future competitions.

Sincerely,

Phillip G. Dickerson

Leader, Information Transfer Group Office of Air Quality Planning and Standards

Office of Air and Radiation

Pholy y. Dickerm. y.

Cc:

Yogeeta Sharma, CARB Kasia Turkiewicz, CARB Angela Latigue, EPA, Region 9 Trina Martynowicz, EPA, Region 9 Timothy Roberts, EPA, OAR/OPMO Deborah Elmore, EPA, OAR/OAQPS