



Attachment 1

PROJECT SUMMARY

Applicant: Friends of El Dorado Trails (Financial Agent: El Dorado Community Foundation)
Contact Person: Jackie Neau
Address: P.O. Box 1364, Placerville, CA 95667
Telephone #: (530) 621-0649
Email: edtrails@gmail.com

Project Description: Friends of El Dorado Trails (FOEDT) is a 20 year old non-profit (previously called Trails Now,) that has been assisting with maintenance of the El Dorado Trail since 1990. This year FOEDT decided to expand and assist in all the trails on the western slope of El Dorado County (EDC) and offer greater services to the community for the trail systems.

FOEDT proposes the following program for grant funding made available by AB 2766 Motor Vehicle Emissions Reduction Grant. This application for funding requests assistance to implement an El Dorado Trails Chipping Program to reduce burn pile emissions, smoke and air pollutants and prevent catastrophic fires while assisting with deferred maintenance.

This year, the remaining 23 miles of dirt trail was opened to public use on the El Dorado Trail. FOEDT will assist EDC with implementing an Adopt A Trail (AAT) program using volunteers to perform maintenance on all sections of the trail. For 25 miles, there is no class 1 bike path. With limited access the county has deferred a lot of this maintenance and has burned the debris when they are able. This area will be a main focus of FOEDT's program initially, as there are many neighbors adjacent to the trail who will appreciate the reduction of smoke in their areas, fuel reductions around their homes, and an improved trail experience for all residents.

After dealing with the backlog of work in the city of Placerville and El Dorado County, FOEDT will reach out to the Community Service Districts (CSDs,) Bureau of Land Management (BLM,) El Dorado Irrigation District (EID,) and the United States Forest Service (USFS,) who also have trails in FOEDT's community. FOEDT envision this program lasting a minimum of 10 years, restricted only by the life of the chipper. The life of the chipper is estimated to be 7000-8000 hours by the manufacture.

Estimated Emission Reductions/Cost-Effectiveness	As Proposed
Useful Life of Project (years)	10 years
Total Lifetime Emissions Reduced (lbs. of ROG, NOx, PM-10)	29818.13 lbs
Cost-Effectiveness (total project costs)	\$24.73 /lb for 1 year
Cost-Effectiveness (AQMD Funded project costs)	\$19.78 /lb for 1 year

Budget Summary	AB2766 Funds	Matching Funds	In-Kind Match	Total Project Cost
Materials	\$ 58,993.68	\$ 8,108.42		\$ 67,102.10
Personnel			\$ 6,640.00	\$ 6,640.00
Other				
Total	\$ 58,993.68	\$ 8,108.42	\$ 6,640.00	\$ 73,742.10

BUDGET ITEMIZATION

Line Item	Title/Classification	# of Hours	Salary Rate \$ *	Benefit %	Total \$	Total Costs \$
Personnel	3 Man Chipper Team (Volunteer)	750	8.00	n/a	6000	6000
	Operations Procedure Preparation (Volunteer)	80	8.00	n/a	640	640
Materials & Supplies	Chipper, trailer, load binding equipment, grinder for sharpening blades, misc wrenches, hard hats, gloves, safety glasses, hearing protection, safety sign and cones					\$67,102.10

PROJECT GRAND TOTAL: \$ 73,742.10

* Based on current minimum wage

Attachment 2

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✓ Local TRPA Review (Not Applicable)	N/A
✓ Attachments	
• Chipper picture	
• Support letter from City of Placerville	
• Support letter from El Dorado COunty	

✓ 2 Copies of Proposal

FRIENDS OF EL DORADO
Trails

EDCAQMD
330 Fair Lane
Placerville, CA 95667

December 2, 2013

Dear EDCAQMD,

The board of Friends of El Dorado Trails authorizes Jackie Neau (Vice President) to apply for a grant committing our volunteer membership as in-kind assistance and hard dollars for a grant application for our El Dorado Trails Chipping Program.

Healthy communities is part of our goals, and air quality is a part of a healthy community. Our organization is committed to seeking out the best solutions to the necessary ongoing maintenance of our community trails, while being environmentally friendly and maintaining the best air quality possible. Reducing burn piles in our local communities is a large part of that.

In the event that El Dorado County Air Quality Management District graciously funds this program, we are authorizing Jackie Neau to sign a contract for the grant on our behalf, and Carl Drake (retired State Parks) to administer and monitor this program for reporting purposes.

Thank you for your kind consideration,



Sarah Henjum

President of Friends of El Dorado Trails

Friends of El Dorado Trails
PO Box 1364
Placerville, CA 95667
(530) 919-1481
edtrails@gmail.com

Project Description

The El Dorado Trails Chipping Program will reduce smoke and air pollutants where residents live by chipping instead of burning, reduce the potential for catastrophic wild fires by addressing deferred and regular maintenance, and improve the quality of life for residents by providing a properly maintained trail system.

The program will utilize volunteers to provide chipping services in the AAT program as well as areas outside the AAT program. Realizing the unique equipment FOEDT will have to access dirt trails and the lack of available resources some government agencies have, FOEDT will also make the chipper available for their use in assisting with trail maintenance. FOEDT's goal is to reduce smoke and fuel loads while maintaining FOEDT's trail system and will utilize all opportunities to achieve this goal. Piles of dead branches and debris cannot be left. They are unsightly, create fire hazards and can interfere with trail use.

The community will notice the new changes. FOEDT plan to educate the community of the new program through flyers on trailhead boards, the website and social media.

Grant Management and communication:

- ❖ Purchase Equipment
- ❖ Develop procedures and train volunteers
- ❖ Education to Neighbors and Trail Users
 - Flyers, Website and Facebook
- ❖ Coordinate Use Schedule
- ❖ Execute work days
- ❖ FOEDT will use excel for tracking, project status, monitoring and reporting purposes.

Project Organization/Background

El Dorado County's elimination of the Parks and Recreation department in 2007 has resulted in bare minimum maintenance for parks and trails over the last 6 years, creating a back log of deferred maintenance. Additionally, recent government shut downs also effect the ability of government agencies such as the Fire Safe Council to perform required work. As a non-governmental agency, utilizing volunteers, FOEDT would be able to offset these obstacles and continue working.

FOEDT is dedicated to maintaining trails. FOEDT's first work day was April 20th, 1990. At that time, volunteers piled up branches and debris and the Placerville Fire Department burned the piles. The development of the class 1 trail has allowed the opportunity to use chippers instead of burning, however, most of the trails on the western slope are still dirt trails with limited access. A chipper specialized for trails would create the opportunity of chipping where previous was not accessible.

With the opening of 23 miles of dirt trail through rural residential areas this year and the AAT program approved, FOEDT is ready to assist adoptees with all aspects of their projects. Not only will they pick up trash, but they will be clearing downed trees, trimming back branches away from the trail, opening line of sites for safer trail user interaction, canopies will be trimmed up so that horses can pass under them, and other overgrown areas addressed.

This will be the main focus of FOEDT's chipper program: to assist the adoptees with performing maintenance in their adopted sections.

As a start-up program, FOEDT project the first year having less hours than the following years. As FOEDT train more volunteers and streamline the execution process based on lessons learned, FOEDT will be able to work progressively more efficient. FOEDT's goal is to expand to working with other government agencies on the west slope who maintain trails, such as CSDs, BLM, EID and the USFS, after FOEDT get the county and city trail's brush under control.

Chipping service requests will be sent to all the trail adoptees to coordinate the schedule. Currently, the county anticipates breaking the trail into 18 sections with 18 different groups. Spring and Fall are predicted to be the busiest times because of favorable weather conditions and the beginning and ending year clean ups.

Emission Benefits/Cost Effectiveness

While the obvious benefit is the elimination of burn piles, the secondary and less obvious emission reduction is the result of dispersing the wood chips along the side of the trail which will help retard the growth of weeds and reduce the amount of weed eating that needs to be done. Another bonus the wood chips provide is material to help with erosion control around drainage areas.

The model 75XP track brush bandit meets 2013 U.S. EPA Tier 4 Final emission standards.

The city of Placerville currently reports chipping up to 125 yards of biomass per year for the 2 miles it maintains. The county has not had a regular program and does not have numbers available. Twenty-five miles of the El Dorado Trail does not have, nor does it have funding for, a class one bike path, making the control of vegetation more challenging. The correct chipper will allow FOEDT to access areas previous not accessible with chippers.

Estimated Emission Reductions/Cost-Effectiveness	As Proposed
Useful Life of Project (years)	10 years
Total Lifetime Emissions Reduced (lbs. of ROG, NOx, PM-10)	29818.13 lbs
Cost-Effectiveness (total project costs)	\$24.73 /lb for 1 year
Cost-Effectiveness (AQMD Funded project costs)	\$19.78 /lb for 1 year

The useful life of the project being 10 years is a conservative number. The distributor reports the chipper's life is typically 7000-8000 hours, which under FOEDT's current projections would last 17 years. Not including FOEDT's initial start-up year, FOEDT plan to run the chipper 400 hours a year which averages out to 1 day a week for a 50 week year. Under a 10 year projection, EDCAQMD will be investing \$120/week over the life of the project.

The Emission reduction total is also a conservative number, using USFS calculations: USDA (2/1996). Forest Service General Technical Report. Report Number: PNW-GTR-364 and U.S. Forest Service's Conformity Handbook, Table 6 -- PM10 Emissions Factor of 19.0 pounds/ton of fuel burned - average pile and burn slash. The foothills have more oak which have higher pounds per cubic foot than the calculated factor.

FOEDT believe using these conservative numbers will help offset any unknown factors involved in a start-up project.

Work Statement

FOEDT has been working with the city of Placerville and El Dorado County for over 20 years to develop and maintain the El Dorado Trail. FOEDT are excited to partner with the county and launch a proven successful model for trail maintenance with the AAT program. This program will improve the quality of life for residents by keeping trails open and accessible to the public and will increase the air quality while executing the initial clean-up of the deferred maintenance, as well as the ongoing maintenance.

This proposed chipper program will be administered by Carl Drake. Mr. Drake is retired from California State Parks after a 30 year career. His relevant experience includes three years as Chief of the State's Off-Highway Vehicle Recreation division which included the administration of a multi-million dollar grant program. He also has experience in program audits.

FOEDT's partnership with the county on the AAT program will ensure constant communication with the needs of the county's 37 mile long El Dorado Trail. FOEDT will be sponsoring chainsaw training and chipper training to volunteers who will perform regular trail maintenance.

After the purchase of the chipper, FOEDT will be able to continue the program for the life of the chipper with volunteer labor. Long term maintenance costs of the chipper will be covered by the AAT program, membership dues, and donations. FOEDT has been able to assist both the City of Placerville and EDC with trail development and maintenance through financial donations from generous trail supports.

Funding Request/Cost Breakdown

COST BREAKDOWN						
Line Item	Title/Classification	# of Hours	Salary Rate \$ *	Benefit %	Total \$	Total Costs \$
Personnel	3 Man Chipper Team (Volunteer)	750	8.00	n/a	6000	6000
	Operations Procedure Preparation (Volunteer)	80	8.00	n/a	640	640
Materials & Supplies						
	Bandit 75XP Track Chipper	Cal-Line of Sacramento				61,581.38
	Trailer & load binding equipment	Vintage Transport Inc.				4,320.72
	Maintenance tooling	grinder for sharpening blades, misc wrenches				500.00
	Safety Equipment	hard hats, gloves, safety glasses, hearing protection, safety sign and cones				700.00
TOTAL						73,742.10

Budget Summary	AB2766 Funds	Matching Funds	In-Kind Match	Total Project Cost
Materials	\$ 58,993.68	\$ 8,108.42		\$ 67,102.10
Personnel			\$ 6,640.00	\$ 6,640.00
Other				
Total	\$ 58,993.68	\$ 8,108.42	\$ 6,640.00	\$ 73,742.10

FUNDING REQUEST:

OPTION 1:

The nature of the funding request is to purchase equipment. The preferred funding option is to receive immediate funding to purchase equipment, where FOEDT also provides immediate funds for their financial match, forgoing interest on loan.

OPTION 2:

FOEDT will secure financing for equipment to be purchased. Major purchases will happen first and second quarter with reimbursements being submitted to AQMD. Smaller equipment not needed immediately will be purchased as needed, being submitted to AQMD quarterly as purchased.

Matching Funds

FOEDT will be providing both matching funds and in-kind match through volunteer hours. The in-kind match includes hours to develop the training program, hours spent training, maintaining equipment and chipping.

Budget Summary	AB2766 Funds	Matching Funds	In-Kind Match	Total Project Cost
Materials	\$ 59,553.68	\$ 8,248.42		\$ 67,102.10
Personnel			\$ 6,640.00	\$ 6,640.00
Other				
Total	\$ 59,553.68	\$ 8,248.42	\$ 6,640.00	\$ 73,742.10

Schedule of Deliveries/Self-Monitoring Program

Activity	Timeline
Sign Agreement with AQMD	1st week
Purchase trailer & chipper	1st month
Initial training from Distributor	1st month
Develop safety & operating education plan for volunteers using chipper	2nd month
Train Volunteers	On-going
Develop and distribute public education info re: AQMD & AB2766 funding promoting cleaner air & chipper program (flyers, website, social media)	2nd month
Coordinate chipper use schedule	On-going
Chipping	On-going
Monitor Program	On-going
Grant and Fiscal Administration	On-going
Progress reports to AQMD/EDC	As Required





City of Placerville

Recreation and Parks

549 Main Street
Placerville, California 95667
(530) 642-5232 • Fax 642-5236

December 5, 2013

EDCAQMD
330 Fair Lane
Placerville, CA 95667

RE: El Dorado Trails Chipping Program

To El Dorado County Air Quality Management District (EDCAQMD,)

As the Director of Community Services for the City of Placerville, I am writing in support of the grant proposal being submitted by the Friends of El Dorado Trails to the EDCAQMD for the El Dorado Trails Chipping Program.

The City of Placerville currently owns one chipper which is utilized for all areas of the City. The addition of a second chipper being available for chipping along trails would free up valuable chipper time and prevent a backlog of work and deferred maintenance.

Friends of El Dorado Trails has been assisting the City with trail maintenance and I look forward to their expanded ability to assist us further with a chipping program.

Sincerely,

A handwritten signature in black ink, appearing to read 'Steve Youel', written in a cursive style.

Steve Youel
Director of Community Services



The County of El Dorado

Chief Administrative Office

330 Fair Lane
Placerville, CA 95667-4197

Terri Daly,
Chief Administrative Officer

Phone (530) 621-5530
Fax (530) 626-5730

December 4, 2013

Dave Johnston
Control Officer
El Dorado County Air Quality Management District
330 Fair Lane
Placerville, CA 95667

RE: Letter of Support for El Dorado Trails Chipping Program

Dear Mr. Johnston:

The El Dorado County Parks and Trails Division strongly supports the application of the Friends of El Dorado Trail for funding under the El Dorado County Air Quality Management District (EDCAQMD) AB 2766 (DMV Fees) Motor Vehicle Emissions Reduction Grants.

If awarded, grant funds will be used to purchase a chipper. Volunteer organizations, including Friends of the El Dorado Trails and participants in the Adopt a Trail Program, have committed to providing crews to operate the chipper and to help maintain the trails. The County currently outsources with a private vendor to provide brushing and burning services. Chipping would be a better air-quality alternative and the use of volunteers will enable deferred and ongoing maintenance of the trails.

The future of El Dorado County parks and trails requires making use of the abundant talents and energy of volunteers and building coalitions of private businesses and community organizations that have a vested interest in park and trail resources. Through Friends of the El Dorado Trails and the Adopt a Trail Program, this coalition has been formed and is ready to move forward once grant funds are awarded.

Sincerely,

A handwritten signature in blue ink that reads "Vickie Sanders".

Vickie Sanders
El Dorado County Parks Manager

cc: El Dorado County Board of Supervisors
Terri Daly, Chief Administrative Officer
Kim Kerr, Assistant Chief Administrative Officer