

Sunshine Fire Protection District – CWPP Planning Meeting February 22, 2022

Meeting

WHEN: Tuesday February 22 from 6:30-8:00 PM

WHERE: Zoom

<https://us06web.zoom.us/j/87839343053?pwd=ZldwUm5WRGlxbk5Xbi9ZY3o2OTErZz09>

Meeting ID: 878 3934 3053

Passcode: 017963

Dial in: (312) 626-6799

Attendees

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Agenda

Kickoff: Abby Silver

Minutes from last meeting: Alan Kirton/Abby

<http://www.sunshine-fpd.org/downloads/2021-CWPP-Meeting.pdf>

Announcements: Does anyone have any?

Reports:

2021 Mitigation Project Review – All project owners

- Community Chipping 2021 – Abby
- Community Fire Cistern at 1462 CR 83 – Alan
- Egress Routes Maintenance 2021 – Eric Bader
- CWPP/Water Projects 2021 Year End Summary – Alan/Abby

CWPP Grant Status 2022 – Alan/Abby

CWPP Financial Outlook 2022 – Alan/Abby

New Business:

Projects Carried Over from 2021

New Projects for 2022

Other ideas or topics?

Closing:

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2021 CWPP Project Work/Spend

2021 Project List		Point Person(s)	2021 Est. Project Spend	2021 Act. Project Spend	Notes
1.0	Fuels Mitigation - Community Chipping Events	Abby Silver	\$18,000	\$18,300	Spring Event - \$8,400 Fall Event - \$9,900
2.0	Pressurized (Gravity Fed) Wet Hydrant on County	Alan Kirton Eric Bader	\$0	\$0	
3.0	Fire Cistern on Whispering Pines	On hold	\$3,000	\$0	No resources to work on this project
4.0	Wet Hydrant at Station 1	Henry Ballard	\$300	\$0	
5.0	Cistern at 875 CR 83	Michael Schmitt	\$300	\$0	
6.0	Sign Maintenance Project	Henry Ballard Abby Silver Jean Gatza	\$0	\$0	
7.0	Mine Lane Egress Road Maintenance	Eric Bader	\$200	\$210	
8.0	Hazard Tree Removal Along District Roads and Near Powerlines	Eric Bader	\$2,400	\$0	
9.0	Hazard Tree Removal Along Emergency Egress Routes	Eric Bader	\$1,000	\$0	
10.0	Financial Incentives to District Residents to Participate in Wildfire Partners	Abby Sliver Alan Kirton	\$5,000	\$0	
11.0	Shaded fuel break on shared driveway at 3701 Sunshine Canyon	Alan Kirton Eric Bader	\$45,000	\$45,000	Project completed. We received a FRWRM grant award of \$22,944 for this project
12.0	Fire Cistern at 1462 County Rd 83	Eric Bader Alan Kirton	\$41,000	\$66,406	Darco Fiberglass Tank - \$37,279 Excavation and Backfill - \$24,131 Cistern Fittings - \$1,398 Crane Service - \$1,100 Misc (signs, fill, eng.) - 2,498
13.0	Fire Cistern at 6500 Sunshine Canyon Dr.	On hold	\$0	\$0	
14.0	Egress Route from Sunshine Saddle to Left Hand Canyon via Glendale Gulch	Abby Sliver Jean Gatza	\$0	\$0	
15.0	Other Egress Routes as Defined in SFPD 2013 CWPP Document (CR 85J)	Michael Schmitt Abby Silver	\$0	\$0	
16.0	Update Sunshine FPD's Community Wildfire Protection Plan	Abby Sliver Alan Kirton	\$0	\$0	
17.0	Fuel Break along Mining Rd below CR 83	Alan Kirton Abby Silver Eric Bader	\$24,000	\$0	Submitted 2021 FRWRM grant application for this project but it was not awarded
18.0	Fuels Reduction along SCD between 3250 and 3700	Alan Kirton Eric Bader	\$0	\$0	Submitted 2021 FRWRM grant application for this project but it was not awarded
Total			\$140,200	\$129,916	
CWPP Spend			\$99,582	\$89,298	
Community Cistern Fund Spend			\$40,618	\$40,618	Cistern Fund is now at \$0

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2021 CWPP/Water Improvements Year End Financial Summary

CWPP/Cistern Fund Revenue	Amount
CWPP Tax Revenue	\$45,064.57
CWPP Donations	\$0.00
CWPP Grant Revenue	\$22,944.00
Appropriation from Reserves	\$61,907.84
Appropriation from CWPP Reserves	\$21,289.91
Appropriation from Cistern Fund	\$40,617.93
Total CWPP/Cistern Fund Revenue	\$129,916.41
CWPP/ Water Improvement Expenses	Amount
Wildland Mitigation Expenses	\$63,510.00
Community Chipping Events	\$18,300.00
Spring 2021	\$8,400.00
Fall 2021	\$9,900.00
Fuel Break @ 3701 SCD	\$45,000.00
Progress Payment	\$31,500.00
Final Payment	\$13,500.00
Egress Rd Repair (Mine Lane Rd.)	\$210.00
Grading	\$210.00
Water Improvement Expenses	Amount
Fire Cistern at 1462 County Rd 83	\$66,406.41
Darco Fiberglass Tank	\$37,279.00
Excavation, Backfill & Final Grading	\$24,130.94
Cistern Fittings	\$1,398.38
Crane Service	\$1,100.00
Misc (signs, water fill, engineering)	\$2,498.09
Total CWPP/Water Improvement Expenses	\$129,916.41
CWPP/Water Improvement Net Income	\$0.00

2021 Year End CWPP Reserves and Cistern Fund Balances

CWPP Reserve Fund Balance	Amount
2020 Year End CWPP Reserve Fund Balance	\$119,074.93
2021 Year End Contribution to CWPP Reserve Fund	(\$21,289.91)
2021 Year End CWPP Reserve Fund Balance	\$97,785.02
Cistern Fund Balance	Amount
2020 Year End Cistern Fund Balance	\$40,617.93
2021 Year End Cistern Fund Contribution	(\$40,617.93)
2021 Year End Cistern Fund Balance	\$0.00

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CWPP Grant Status for 2022

SFPD does not have any existing wildfire mitigation grants. We applied for the 2021 Forest Restoration and Wildfire Mitigation grant but the application was not funded. There is a push by the Colorado State Forest Service to focus on landscape sized fire mitigation projects (i.e. many acres). Our typical grants cover approximately 20 to 30 acres with costs ranging from \$50k to \$80k. The 2021 grant application was for 29.9 acres with an anticipated project cost of \$83k but was not approved. We will continue to apply for grants.

2022 CWPP Budget Projections

2022 CWPP Budget Projections	Amount
CWPP Reserve Fund 01/01/2022	\$97,785.02
Projected 2022 CWPP Tax Income*	\$50,389.00
2022 Available Grant Income	\$0.00
Cistern Fund (to be used for water projects only)	\$0.00
Total CWPP 2022 Available Funding (excluding water projects)	\$148,174.02
Total CWPP 2022 Available Funding (including water projects)	\$148,174.02

* CWPP mill levy is 3.56 mills, District Assessed Valuation is \$14,154,334

.00356 x \$14,154,334 = \$50,389

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Existing/Historical CWPP Projects Carried Over from 2021 to 2022

Note: This is a listing of existing projects and/or historical projects that are carried over year to year.

1.0 Fuels Mitigation - Community Chipping Events

The Community Chipping events continue to be a very successful way to encourage residents to maintain their D-space and fuel breaks. We have held both Spring and Fall chipping events since 2015 with good participation in both events.

Project Details: Spring and Fall chipping event with an estimated cost of \$9000/event for a total cost of \$18,000 for the two events.

Est. Cost for 2022 - \$18,000

2.0 Pressurized (Gravity Fed) Wet Hydrant on County Rd. 83

This project covers the installation of a pressurized (gravity fed) hydrant on County Rd 83. Location would be ~200' south of the Misty Vale intersection. The hydrant would be fed from the 130,000 gallon cistern located at Station 2. Initial work would entail planning and development of the project scope and cost estimate. Assuming that cost comes in close to expectations then project work would proceed. This project was discussed in Section 8.7 Emergency Water Sources of the 2013 SFPD CWPP document and was submitted by Sunshine FPD in the Boulder County Emergency Planning document.

Project Details:

- Engineering work to plan the project
- Discussion with Boulder County Transportation on requirements for building a turnout on County Rd 83 and placement of fire hydrant
- Get approval from landowner, do site survey, create easement document and get signatures. The land we need the easement on is the part of 280 County Rd 83 which is on the west side of CR 83.
- Put together bid package for the installation of the pipe and hydrant
- Go out for bids and award contract
- Proceed with project

Est. Cost for 2022 - \$40,000

3.0 Fire Cistern for Whispering Pines

Whispering Pines does not currently have a dedicated water supply for firefighting. The driveway is such that a tanker relay is not practical. The work for 2022 will be to finalize the location for the cistern, get a survey done of the cistern site, get an easement for the cistern and submit a Limited Impact Special Use Review application to BOCO. It should be assumed that the Limited Impact Special Use Review and getting the Building and Grading Permits for the project will take approximately one year.

Project Details:

Work items for 2022 include:

- Determine cistern location
- Do work necessary to submit for Limited Impact Special Use Review and the Building and Grading Permits.

Est. Cost for 2022 - \$2000 (total project price estimated to be \$70,000 assuming a 20k gallon fiberglass cistern)

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4.0 Wet Hydrant at Station 1

Finish construction of valve shed at the Station 1 cistern. Shed has been constructed with roofing and siding but still needs to be painted.

Est. Cost for 2022 - \$100

5.0 Completion of Cistern at 875 County Rd 83

Cistern is now operational. The only work to be done is to add a support bracket for the suction pipe.

Est. Cost for 2022 - \$300

6.0 Sign Maintenance Project

In 2015 there was a CWPP project to repair damaged street number signs and posts. Through the efforts of a number of volunteers this resulted in a large number of new signs being installed. The sign maintenance project will continue to replace damaged signs or posts.

Project Details: All materials required for 2022 have already been purchased.

Is the above still true?

Est. Cost for 2022 - \$300

7.0 Mine Lane Egress Road Maintenance

This project is part of the ongoing maintenance of the Mine Lane egress road that goes between Sunshine and Boulder Heights. In the past, the costs have typically been shared between Sunshine FPD and Boulder Mountain FPD

Project Details: Repair as needed

Est. Cost for 2021 - \$200

8.0 Hazardous Tree Removal Along District Roads and Powerlines

There are a number of dead and dying trees located near district roads and/or power lines. These represent a threat for safe egress along the roads and a threat of wildfire should a tree take down a powerline in a windstorm. This project will provide a financial incentive for the property owner to remove the hazardous trees by providing funding for the removal of the tree. The funding amount will be 90% of the cost of removal which is a similar match amount to those property owners that took part in the shaded fuel break along district roads project. Since SFPD is funding the majority of the project the district will hire the contractor to do the work and will be paid a donation equal to 10% of the cost of the project.

Project Details:

Work for 2022 includes:

- Re-send a notice to the district notifying the residents of this project
- Compile the responses from the residents and work with contractor to verify that the trees do represent a hazard and get estimated cost
- Get License to Enter and Cutting Agreements signed
- At project completion pay contractor and get donation from property owner for homeowner portion of cost

Est. Cost for 2022 - \$2400 (Assume 6 trees, \$400/tree)

Estimate carried over from 2021, is this still a valid?

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9.0 Hazard Tree Removal Along Egress Routes

Besides state/county roads, there are two other defined egress roads in the district. One is at the top of Sunshine saddle which goes to Mine Lane, Boulder Heights and the Boulder Mountain Fire District. The other is the driveway to the Star House which continues on to Pine Brook Hills and the Boulder Mountain Fire District. Both roads are gated and used for emergency egress only. This project would perform hazard tree removal along these roads to help ensure that there is no blockage on the roads due to wind-blown trees.

Project Details:

Inspect and remove hazard trees as required.

Est. Cost for 2022 - \$1000

Estimate carried over from 2021, is this still a valid?

10.0 Wildfire Partners Matching Funds

The Four Mile Canyon Fire final report clearly stated that the single determining factor in home survivability in the wildfire was the characteristics of the home ignition zone. This project will provide financial incentives for Sunshine residents to work with Boulder County Wildfire Partners to have a wildfire assessment performed and then to follow up with wildfire mitigation work. The project will provide funding to reimburse the homeowner for 50% of the assessment fee which is currently set at \$100. Wildfire Partners is currently offering to pay 50% of the mitigation cost when the homeowner uses a Wildfire Partner's contractor to perform the mitigation work (verify that this program will be in place in 2022). This project will provide a match of 25% of the mitigation cost so that the homeowner only pays 25% of the mitigation cost. The Wildfire Partners match is currently set at \$2500 maximum and the SFPD match will be set to \$1250 maximum. Thus the maximum amount of reimbursement per homeowner will be set at \$1300.

Project Details:

Make a decision whether we want to continue with this project and the project details during the planning meeting

Est. Cost for 2022 - \$5000 (place holder)

11.0 Fire Cistern at 1462 County Rd. 83

Cistern installation is complete. The only remaining piece of work is to close out the Boulder County Building and Grading permits. This will require revegetation of the site. Final grading included several inches of BioComp material. On Nov. 6th we had a work party to rake in seed and to lay down a layer of chips from the Fall Chipping Event. Winter winds have blown the chips away and most likely have blown most of the seed away as well. The reseeding and chip application will need to be repeated in the spring, probably late February or March. Alan Kirton will work with Boulder County to get the installation inspected and permit closed out.

Est. Cost for 2022 - \$100 (place holder in case we need to purchase more grass seed)

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12.0 Fire Cistern at 6500 Sunshine Canyon Dr.

Sunshine FPD currently has community cisterns installed at:

Location	Capacity (gal)
3300 Sunshine Canyon Dr.	10,000
4500 Sunshine Canyon Dr.	10,000
5300 Sunshine Canyon Dr.	10,000
Station 2 - 5880 Sunshine Canyon Dr.	130,000
7000 Sunshine Canyon Dr.	30,000
Station 1 - 311 County Rd 83	12,000
875 County Rd 83	10,000
1462 County Rd 83	20,000

A district goal has been to locate firefighting cisterns at approximately 1/2 mile intervals along district roads. This project will look at locating a cistern at approximately 6500 Sunshine Canyon Dr. The exact location will depend on the road sighting distances and property owner permissions for an easement. This is probably a lower priority than the Whispering Pines cistern.

13.0 Egress Route from Sunshine Saddle to Left Hand Canyon via Glendale Gulch

The egress route from the Sunshine saddle to Left Hand Canyon via Glendale Gulch was included in both the 2008 and 2013 CWPP documents (Section 8.3.A.2). The advantage of this route for Sunshine residents is that it would be primarily downhill vs. the Mine Lane egress route which is steeply uphill.

14.0 Other Egress Routes as Defined in SFPD 2013 CWPP Document

SFPD's 2013 CWPP document defined a number of different emergency egress routes. Should we investigate the feasibility of improving these routes to make them more accessible?

15.0 Update Sunshine FPD's Community Wildfire Protection Plan

SFPD's CWPP document was created in 2008 after over a year of work by a dedicated group of volunteers. There was an extensive amount of work done to provide that initial wildfire characterization of the district. The CWPP document was updated and re-released in 2013. Many of the updates dealt with changes that occurred because of the Fourmile Canyon Fire. It has been 5+ years since the last update and the district has seen many changes as homes have been rebuilt and the effects of the fire have been cleaned up. It is probably time to start thinking about and working on an updated document.

16.0 Fuel Break Along Mining Road below County Rd. 83

This project would create a fuel break along the mining road the runs below County Rd. 83 (see Figure 1). The estimated acreage is 10.1 acres. This fuel break will help to protect the houses on CR 83 from a fire coming up the Four Mile Canyon Creek drainage. On the north side the fuel break will tie into the shaded fuel break that was completed in 2019 and ran across the Four Mile Canyon Creek drainage to tie together burn areas from the Fourmile Fire. The southern end of the fuel break will tie into a clearing and the D-space at 5570 SCD. Project estimate is \$27,775 based on 10.1 acres and a cost of \$2750/acre which is in line with costs we have paid in the recent past. This project was part of a 2021 Forest Restoration and Wildfire Risk Mitigation grant application that was not awarded. See Attachment 1 for map.

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Project Details

- The question is where to go with this project. Options include either abandoning the project, starting the project assuming SFPD picks up the entire cost or including this project in a 2022 Forest Restoration and Wildfire Risk Mitigation grant and see if we can get awarded in 2022.
- Project steps include:
 - Compile list of affected properties and owners. (completed)
 - Contact property owners to get License to Enter Forms signed
 - Plan will be to use CSFS to mark project boundaries and trees to be removed (est. cost \$600)
 - Once LTEs are signed and project marked then the project can start.

Est. Cost for 2022 - \$27,775 assuming completion (2022 cost would be \$0 if we decide to wait for another grant cycle)

17.0 Fuels Reduction Along Sunshine Canyon Drive between 3250 and 3700

This project would do fuels reduction work along SCD between mile markers 3250 and 3700 (see Figure 2). The mitigation work would be done on both sides of SCD and would strengthen mitigation work that was performed in 2015. This mitigation work would tie into the fuel break work done on the shared driveway at 3701 SCD as well as mitigation work that is being performed the Four Mile FPD in the area below Poorman Rd. Due to the scope and anticipated cost of this work, the plan is to apply for a matching grant from the state in order to reduce the cost to the district. Estimated cost is \$54,450 and is based on 19.8 acres at \$2775/acre because of tree density and terrain. This project was part of a 2021 Forest Restoration and Wildfire Risk Mitigation grant application that was not awarded. See Attachment 2 for map.

Project Details

- An option is to include this project in a 2022 Forest Restoration and Wildfire Risk Mitigation grant and see if we can get awarded in 2023.
- Another option is to scale down the scope of the project and pay for it entirely with SFPD CWPP funds.

Est. Cost for 2022 - \$0

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Summary of the 2022 Projects Carried Over from 2021

2022 Projects Carried Over from 2021		Point Person(s)	2022 Estimated Project Cost	Continue?
1.0	Fuels Mitigation - Community Chipping Events	Abby Silver	\$18,000	
2.0	Pressurized (Gravity Fed) Wet Hydrant on County Road 83	Alan Kirton Eric Bader	\$40,000	
3.0	Fire Cistern on Whispering Pines	<i>Resource Needed</i>	\$2,000	
4.0	Wet Hydrant at Station 1	Henry Ballard	\$100	
5.0	Cistern at 875 CR 83	Michael Schmitt	\$300	
6.0	Sign Maintenance Project	Henry Ballard Abby Silver	\$300	
7.0	Mine Lane Egress Road Maintenance	Eric Bader	\$200	
8.0	Hazard Tree Removal Along District Roads and Near Powerlines	Eric Bader	\$2,400	
9.0	Hazard Tree Removal Along Emergency Egress Routes	Eric Bader	\$1,000	
10.0	Financial Incentives to District Residents to Participate in Wildfire Partners	Abby Sliver Alan Kirton	\$5,000	
11.0	Fire Cistern at 1462 County Rd 83	Alan Kirton	\$100	
12.0	Fire Cistern at 6500 Sunshine Canyon Dr.	On hold	\$0	
13.0	Egress Route from Sunshine Saddle to Left Hand Canyon via Glendale Gulch	Abby Sliver	\$0	
14.0	Other Egress Routes as Defined in SFPD 2013 CWPP Document and CR 85J	Michael Schmitt Abby Silver	\$0	
15.0	Update Sunshine FPD's Community Wildfire Protection Plan	Abby Sliver Alan Kirton	\$0	
16.0	Fuel Break Along Mining Road below County Rd. 83	Alan Kirton	\$0	
17.0	Fuels Reduction Along Sunshine Canyon Drive between 3250 and 3700	Alan Kirton	\$0	
Total			\$69,400	

Note: Projected costs will be adjusted in the meeting

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New Projects

The purpose of this planning meeting is to define projects for 2022 and beyond. Defining mitigation projects for future years allows us to devote the time to better define the project, make cost estimates and apply for matching grants to help defray the mitigation costs.

18.0 Wildfire Preparedness Day May 7, 2022

Wildfire Community Preparedness Day is a national campaign that encourages people and organizations everywhere to come together on a single day to take action to raise awareness and reduce wildfire risks. It is held on the first Saturday in May.

Project Ideas that have been discussed:

- Combine the Wildfire Preparedness Day with a community event to view SFPD's new Type 1 engine. We could set up tables where we could supply information about wildfire mitigation and provide brochures. We could also provide information regarding what mitigation services SFPD provides. There may be some costs associated with purchasing or preparing brochures.
- Another suggestion was that SFPD could provide a roll off of so that people could bring yard waste that they have collected as part of their mitigation activities. Although this could include slash, it could also include things like material collected from raking such as pine needles, pine cones, etc. Just to provide a ballpark estimate, the Western Disposal charge for drop-off and collection of 20 yd. roll off is \$780 and 30 yd. roll off is \$860. We would need to provide a place where the roll-off could be located.

Est. Cost for 2022 - \$?

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Attachment 1 - Fuel Break along Mining Road below County Rd. 83



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Attachment 2 - Fuels Reduction along Sunshine Canyon Drive between 3250 and 3700

