



Lawrence Livermore National Laboratory

April 11, 2024

Mr. Daniel Martinez
Supervising Air Quality Inspector
San Joaquin Valley Air Pollution Control District
1990 E. Gettysburg Avenue
Fresno, CA 93726
Daniel.Martinez@valleyair.org


Subject: *LLNL Site 300 Experimental Test Site Prescribed Burning Smoke Management Plan Facility ID# N-472, Lawrence Livermore National Security, LLC*

Dear Mr. Martinez:

Lawrence Livermore National Laboratory (LLNL) has submitted the 2024 Prescribed Burning Smoke Management Plan (SMP) for LLNL Site 300 Experimental Test Site to San Joaquin Valley Air Pollution Control District (SJVAPCD) through the State's Prescribed Fire Information Reporting System (PFIRS). Enclosed with this letter is a copy of the electronic submittal.

If you have any questions regarding this submittal or require additional information, please contact Wai-Man So of my staff at (925) 424-4411.

Sincerely,

DocuSigned by:
 4/11/2024
6EA10AF95384431...
Paul Roy, Group Leader
Waste and Air Quality Office
Environmental Functional Area



Mr. Daniel Martinez, SJVAPCD
LLNL Site 300 Experimental Test Site Prescribed Burning Smoke Management Plan
Facility ID# N-472, Lawrence Livermore National Security, LLNS

April 11, 2024

Page 2

Enclosure: PFIRS Submittal – 2024 Prescribed Burning Smoke Management Plan for LLNL
Site 300 Experimental Test Site

Distribution w/enclosure (PDF):

Amaden, Christopher (NNSA/LFO)
Balaban, Nicholas (NNSA/LFO)
Baylosis, Maggie
DeLeyos, Bing
Dibley, Valerie
Diregolo, Brian (ACFD)
Fechser, Matt
Fratanduono, Meg
Heard, Marcus (NNSA/LFO)
Johnston, Dana
Lindsay, Royce
Mishra, Vijay (NNSA/LFO)
Nakasaki, Steve
Naranjo, Alberto
Roy, Paul
Ruiz, Alex
Rutherglen, Cory (ACFD)
Ryza, Michelle
Saabye, Alexandra
Sharry, John
So, Wai-Man
Vaughan, Quentin
Wilson, Scott
Wise, Tammy (NNSA/LFO)
Woodrow, Lisa
Woollett, Jim

Site 300 Prescribed Burn File
UCM: Site 300, Prescribed Burn

ENCLOSURE 1

Prescribed Fire Information Reporting System (PFIRS) Submittal –
2024 Prescribed Burning Smoke Management Plan (SMP) for
LLNL Site 300 Experimental Test Site



Options

Current Project: **LLNL S300 2024 - SJVAPCD**

Thursday, April 11, 2024

Edit History ▶

Submittals ▶

Returns ▶

Approvals ▶

Review SMP for LLNL S300 2024 - SJVAPCD

Plan Author: [Wai-Man So](#)

▼ Land Manager Information Complete

Name of Project	LLNL S300 2024 - SJVAPCD
Permittee	LLNS
Permit Number	
Primary Field Contact:	Brian Diregolo
Other Field Contacts:	
Land Manager Name:	Valerie Dibley/Wai-Man So
Address:	7000 East Ave Livermore, CA 94550
Phone:	(925) 424-4411
24 Hour Phone:	(925) 724-8040
Email:	so5@llnl.gov
Edit	Edit this Land Manager

▼ Landowner Information Complete

Landowner Name:	US Government-Dept of Energy
Address:	7000 East Ave Livermore, CA 94550
Edit	Edit this Landowner
Delete	Delete this Landowner
Add	Add a Landowner

▼ Project Specifics Complete

Project Acres	1911	Duration (days)	12	Overnight Burn?	No
Preferred Season	Spring	Burn Start	05-2024	Burn End	08-2024
Burn Goal	Hazard Reduction				
Primary District	San Joaquin Valley APCD	Secondary District	None/Unknown	Tertiary District	None/Unknown
Edit	Edit this information				

▼ Broadcast Units Complete

Currently Active Units					
▼ Project 1 (Plots 10 & 9) (click to expand)					
<small>General Information</small>					
Acres:	57	Tons/Acre:	1	Fuel Arrangement:	Grassland
Fuel Density:	Typical	General Fuel Moisture:	Dry	Min THFM:	0
Max THFM:	0	Cover Type:	VALLEY NEEDLEGRASS GRASSLAND		
General Description:	Previously burnt area and primarily native grasses.				
Emissions Calculation Method:	Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)			Estimated Emissions:	0.399
Edit	Edit this information.				
<small>Unit Location</small>					
County:	San Joaquin	District:	San Joaquin Valley APCD	Air Basin:	San Joaquin Valley
Latitude:	37.643341	Longitude:	-121.4962076	Meridian:	Mt Diablo
Township:	3S	Range:	4E	Section:	26
Min Elev:	588	Max Elev:	1044	Mean Elev:	816

Crossroads: HW-580		Slope: Varied		Aspect: Eastern	
Edit	Edit this information.				
Ignition Prescription					
Source of meteorological information:		LLNL S300 Meteorological Tower			
Other considerations to ensure adequate smoke dispersion:		NA			
Sfc Wind Direction:	Ideal: W	Min: ANY	Max: ANY		
Sfc Wind Speed:	Ideal: 15	Min: 0	Max: 25		
Transport Wind Direction:	Ideal: NW	Min: ANY	Max: ANY		
RH:	Ideal: 25	Min: 15	Max: 75		
Temperature:	Ideal: 80	Min: 50	Max: 100		
Target Mixing Height:	500 ft (above ground level)				
Edit	Edit this information.				
Delete	Delete Project 1 (Plots 10 & 9) .				
Inactive	Make this unit inactive. ?				
▼ Project 2 (Plot 8)					(click to expand)
General Information					
Acres: 53.8	Tons/Acre: 1	Fuel Arrangement: Grassland	Fuel Density: Typical		
General Fuel Moisture: Dry	Min THFM: 0	Max THFM: 0			
Cover Type:	VALLEY NEEDLEGRASS GRASSLAND				
General Description:	Previously burnt area and primarily native grasses.				
Emissions Calculation Method:	Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)		Estimated Emissions:	0.377	
Edit	Edit this information.				
Unit Location					
County: San Joaquin	District: San Joaquin Valley APCD	Air Basin: San Joaquin Valley			
Latitude: 37.65	Longitude: -121.53	Meridian: Mt Diablo			
Township: 3S	Range: 4E	Section: 22			
Min Elev: 820	Max Elev: 1040	Mean Elev: 930			
Crossroads: HW-580	Slope: Varied	Aspect: Eastern			
Edit	Edit this information.				
Ignition Prescription					
Source of meteorological information:		LLNL S300 Meteorological Tower			
Other considerations to ensure adequate smoke dispersion:		NA			
Sfc Wind Direction:	Ideal: W	Min: ANY	Max: ANY		
Sfc Wind Speed:	Ideal: 15	Min: 0	Max: 25		
Transport Wind Direction:	Ideal: NW	Min: ANY	Max: ANY		
RH:	Ideal: 25	Min: 15	Max: 75		
Temperature:	Ideal: 80	Min: 50	Max: 100		
Target Mixing Height:	500 ft (above ground level)				
Edit	Edit this information.				
Delete	Delete Project 2 (Plot 8) .				
Inactive	Make this unit inactive. ?				
▼ Project 3 (Plot 45)					(click to expand)
General Information					
Acres: 55.2	Tons/Acre: 1	Fuel Arrangement: Grassland	Fuel Density: Typical		
General Fuel Moisture: Dry	Min THFM: 0	Max THFM: 0			
Cover Type:	VALLEY NEEDLEGRASS GRASSLAND				
General Description:	Previously burnt area and primarily native grasses.				
Emissions Calculation Method:	Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)		Estimated Emissions:	0.245	
Edit	Edit this information.				

Unit Location							
County:	San Joaquin	District:	San Joaquin Valley APCD	Air Basin:	San Joaquin Valley		
Latitude:	37.66	Longitude:	-121.52	Meridian:	Mt Diablo		
Township:	3S	Range:	4E	Section:	22		
Min Elev:	913	Max Elev:	1300	Mean Elev:	1108		
Crossroads:	HW-580	Slope:	Varied	Aspect:	Eastern		
<p>Edit Edit this information.</p>							
Ignition Prescription							
Source of meteorological information:		LLNL S300 Meteorological Tower					
Other considerations to ensure adequate smoke dispersion:		NA					
Sfc Wind Direction:	Ideal: W	Min: ANY	Max: ANY				
Sfc Wind Speed:	Ideal: 15	Min: 0	Max: 25				
Transport Wind Direction:	Ideal: NW	Min: ANY	Max: ANY				
RH:	Ideal: 25	Min: 15	Max: 75				
Temperature:	Ideal: 80	Min: 50	Max: 100				
Target Mixing Height:	500 ft (above ground level)						
<p>Edit Edit this information.</p> <p>Delete Delete Project 3 (Plot 45).</p> <p>Inactive Make this unit inactive. ?</p>							
<p>▼ Project 4 (Plots 31A & 31B)</p>					<p>(click to expand)</p>		
General Information							
Acres:	150.3	Tons/Acre:	1	Fuel Arrangement:	Grassland	Fuel Density:	Typical
General Fuel Moisture:	Dry	Min THFM:	0	Max THFM:	0		
Cover Type:	VALLEY NEEDLEGRASS GRASSLAND						
General Description:	Previously burnt area and primarily native grasses.						
Emissions Calculation Method:	Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)			Estimated Emissions:	0.386		
<p>Edit Edit this information.</p>							
Unit Location							
County:	San Joaquin	District:	San Joaquin Valley APCD	Air Basin:	San Joaquin Valley		
Latitude:	37.67126	Longitude:	-121.51771	Meridian:	Mt Diablo		
Township:	3S	Range:	4E	Section:	15		
Min Elev:	914	Max Elev:	1322	Mean Elev:	1116		
Crossroads:	HW-580	Slope:	Varied	Aspect:	Eastern		
<p>Edit Edit this information.</p>							
Ignition Prescription							
Source of meteorological information:		LLNL S300 Meteorological Tower					
Other considerations to ensure adequate smoke dispersion:		NA					
Sfc Wind Direction:	Ideal: W	Min: ANY	Max: ANY				
Sfc Wind Speed:	Ideal: 15	Min: 0	Max: 25				
Transport Wind Direction:	Ideal: NW	Min: ANY	Max: ANY				
RH:	Ideal: 25	Min: 15	Max: 75				
Temperature:	Ideal: 80	Min: 50	Max: 100				
Target Mixing Height:	500 ft (above ground level)						
<p>Edit Edit this information.</p> <p>Delete Delete Project 4 (Plots 31A & 31B).</p> <p>Inactive Make this unit inactive. ?</p>							
<p>▼ Project 5 (Plots 17, 18, 1A)</p>					<p>(click to expand)</p>		
General Information							
Acres:	39.8	Tons/Acre:	1	Fuel Arrangement:	Grassland	Fuel Density:	Typical
General Fuel Moisture:	Dry	Min THFM:	0	Max THFM:	0		

Cover Type: VALLEY NEEDLEGRASS GRASSLAND	
General Description: Previously burnt area and primarily native grasses.	
Emissions Calculation Method: Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)	Estimated Emissions: 1.052
Edit	Edit this information.
Unit Location	
County: San Joaquin	District: San Joaquin Valley APCD Air Basin: San Joaquin Valley
Latitude: 37.671744	Longitude: -121.551499 Meridian: Mt Diablo
Township: 3S	Range: 4E Section: 17
Min Elev: 940	Max Elev: 1250 Mean Elev: 1095
Crossroads: HW-580	Slope: Varied Aspect: Eastern
Edit	Edit this information.
Ignition Prescription	
Source of meteorological information: LLNL S300 Meteorological Tower	
Other considerations to ensure adequate smoke dispersion: NA	
Sfc Wind Direction: Ideal: W	Min: ANY Max: ANY
Sfc Wind Speed: Ideal: 15	Min: 0 Max: 25
Transport Wind Direction: Ideal: NW	Min: ANY Max: ANY
RH: Ideal: 25	Min: 15 Max: 75
Temperature: Ideal: 80	Min: 50 Max: 100
Target Mixing Height: 500 ft (above ground level)	
Edit	Edit this information.
Delete	Delete Project 5 (Plots 17, 18, 1A) .
Inactive	Make this unit inactive. ?
▼ Project 6 (Plot 3A) (click to expand)	
General Information	
Acres: 78.4	Tons/Acre: 1 Fuel Arrangement: Grassland Fuel Density: Typical
General Fuel Moisture: Dry	Min THFM: 0 Max THFM: 0
Cover Type: VALLEY NEEDLEGRASS GRASSLAND	
General Description: Previously burnt area and primarily native grasses.	
Emissions Calculation Method: Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)	Estimated Emissions: 0.34
Edit	Edit this information.
Unit Location	
County: San Joaquin	District: San Joaquin Valley APCD Air Basin: San Joaquin Valley
Latitude: 37.67515	Longitude: -121.51964 Meridian: Mt Diablo
Township: 3S	Range: 4E Section: 15
Min Elev: 864	Max Elev: 1336 Mean Elev: 1100
Crossroads: HW-580	Slope: Varied Aspect: Eastern
Edit	Edit this information.
Ignition Prescription	
Source of meteorological information: LLNL S300 Meteorological Tower	
Other considerations to ensure adequate smoke dispersion: NA	
Sfc Wind Direction: Ideal: W	Min: ANY Max: ANY
Sfc Wind Speed: Ideal: 15	Min: 0 Max: 25
Transport Wind Direction: Ideal: NW	Min: ANY Max: ANY
RH: Ideal: 25	Min: 15 Max: 75
Temperature: Ideal: 80	Min: 50 Max: 100
Target Mixing Height: 500 ft (above ground level)	
Edit	Edit this information.
Delete	Delete Project 6 (Plot 3A) .

Inactive	Make this unit inactive. ?		
▼ Project 7 (Plot 5)		(click to expand)	
General Information			
Acres:	78.9	Tons/Acre:	1
Fuel Arrangement:	Grassland	Fuel Density:	Typical
General Fuel Moisture:	Dry	Min THFM:	0
Max THFM:	0		
Cover Type:	VALLEY NEEDLEGRASS GRASSLAND		
General Description:	Previously burnt area and primarily native grasses.		
Emissions Calculation Method:	Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)		Estimated Emissions: 0.549
Edit	Edit this information.		
Unit Location			
County:	San Joaquin	District:	San Joaquin Valley APCD
Air Basin:	San Joaquin Valley		
Latitude:	37.67474	Longitude:	-121.52616
Meridian:	Mt Diablo		
Township:	3S	Range:	4E
Section:	15		
Min Elev:	1012	Max Elev:	1394
Mean Elev:	1203		
Crossroads:	HW-580	Slope:	Varied
Aspect:	Eastern		
Edit	Edit this information.		
Ignition Prescription			
Source of meteorological information:	LLNL S300 Meteorological Tower		
Other considerations to ensure adequate smoke dispersion:	NA		
Sfc Wind Direction:	Ideal: W	Min: ANY	Max: ANY
Sfc Wind Speed:	Ideal: 15	Min: 0	Max: 25
Transport Wind Direction:	Ideal: NW	Min: ANY	Max: ANY
RH:	Ideal: 25	Min: 15	Max: 75
Temperature:	Ideal: 80	Min: 50	Max: 100
Target Mixing Height:	500 ft (above ground level)		
Edit	Edit this information.		
Delete	Delete Project 7 (Plot 5).		
Inactive	Make this unit inactive. ?		
▼ Project 8 (Plot 2)		(click to expand)	
General Information			
Acres:	65	Tons/Acre:	1
Fuel Arrangement:	Grassland	Fuel Density:	Typical
General Fuel Moisture:	Dry	Min THFM:	0
Max THFM:	0		
Cover Type:	VALLEY NEEDLEGRASS GRASSLAND		
General Description:	Previously burnt area and primarily native grasses.		
Emissions Calculation Method:	Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)		Estimated Emissions: 0.552
Edit	Edit this information.		
Unit Location			
County:	San Joaquin	District:	San Joaquin Valley APCD
Air Basin:	San Joaquin Valley		
Latitude:	37.67566	Longitude:	-121.53268
Meridian:	Mt Diablo		
Township:	3S	Range:	4E
Section:	15, 16		
Min Elev:	960	Max Elev:	1310
Mean Elev:	1135		
Crossroads:	HW-580	Slope:	Varied
Aspect:	Eastern		
Edit	Edit this information.		
Ignition Prescription			
Source of meteorological information:	LLNL S300 Meteorological Tower		
Other considerations to ensure adequate smoke dispersion:	NA		
Sfc Wind Direction:	Ideal: W	Min: ANY	Max: ANY
Sfc Wind Speed:	Ideal: 15	Min: 0	Max: 25
Transport Wind Direction:	Ideal: NW	Min: ANY	Max: ANY
RH:	Ideal: 25	Min: 15	Max: 75
Temperature:	Ideal: 80	Min: 50	Max: 100

Target Mixing Height: 500 ft (above ground level)	
Edit	Edit this information.
Delete	Delete Project 8 (Plot 2) .
Inactive	Make this unit inactive. ?
▼ Project 9 (Plots 1 & 16E) (click to expand)	
<small>General Information</small>	
Acres: 174.7	Tons/Acre: 1
Fuel Arrangement: Grassland	Fuel Density: Typical
General Fuel Moisture: Dry	Min THFM: 0
Max THFM: 0	
Cover Type: VALLEY NEEDLEGRASS GRASSLAND	
General Description: Previously burnt area and primarily native grasses.	
Emissions Calculation Method: Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)	Estimated Emissions: 0.455
Edit	Edit this information.
<small>Unit Location</small>	
County: San Joaquin	District: San Joaquin Valley APCD
Air Basin: San Joaquin Valley	
Latitude: 37.677174	Longitude: -121.551058
Meridian: Mt Diablo	
Township: 3S	Range: 4E
Section: 16, 17	
Min Elev: 1127	Max Elev: 1533
Mean Elev: 1330	
Crossroads: HW-580	Slope: Varied
Aspect: Eastern	
Edit	Edit this information.
<small>Ignition Prescription</small>	
Source of meteorological information: LLNL S300 Meteorological Tower	
Other considerations to ensure adequate smoke dispersion: NA	
Sfc Wind Direction:	Ideal: W
Min: ANY	Max: ANY
Sfc Wind Speed:	Ideal: 15
Min: 0	Max: 25
Transport Wind Direction:	Ideal: NW
Min: ANY	Max: ANY
RH:	Ideal: 25
Min: 15	Max: 75
Temperature:	Ideal: 80
Min: 50	Max: 100
Target Mixing Height: 500 ft (above ground level)	
Edit	Edit this information.
Delete	Delete Project 9 (Plots 1 & 16E) .
Inactive	Make this unit inactive. ?
▼ Project 10 (Plot 12) (click to expand)	
<small>General Information</small>	
Acres: 181.9	Tons/Acre: 1
Fuel Arrangement: Grassland	Fuel Density: Typical
General Fuel Moisture: Dry	Min THFM: 0
Max THFM: 0	
Cover Type: VALLEY NEEDLEGRASS GRASSLAND	
General Description: Previously burnt area and primarily native grasses.	
Emissions Calculation Method: Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)	Estimated Emissions: 0.099
Edit	Edit this information.
<small>Unit Location</small>	
County: San Joaquin	District: San Joaquin Valley APCD
Air Basin: San Joaquin Valley	
Latitude: 37.671744	Longitude: -121.551499
Meridian: Mt Diablo	
Township: 3S	Range: 4E
Section: 21	
Min Elev: 1002	Max Elev: 1326
Mean Elev: 1164	
Crossroads: HW-580	Slope: Varied
Aspect: Eastern	
Edit	Edit this information.
<small>Ignition Prescription</small>	
Source of meteorological information: LLNL S300 Meteorological Tower	

Other considerations to ensure adequate smoke dispersion:		NA	
Sfc Wind Direction:	Ideal: W	Min: ANY	Max: ANY
Sfc Wind Speed:	Ideal: 15	Min: 0	Max: 25
Transport Wind Direction:	Ideal: NW	Min: ANY	Max: ANY
RH:	Ideal: 25	Min: 15	Max: 75
Temperature:	Ideal: 80	Min: 50	Max: 100
Target Mixing Height:	500 ft (above ground level)		
<p>Edit Edit this information.</p> <p>Delete Delete Project 10 (Plot 12).</p> <p>Inactive Make this unit inactive. ?</p>			
<p>▼ Project 11 (Plots 15 & 24)</p>			<p>(click to expand)</p>
General Information			
Acres:	286.5	Tons/Acre:	1
Fuel Arrangement:	Grassland	Fuel Density:	Typical
General Fuel Moisture:	Dry	Min THFM:	0
Max THFM:	0		
Cover Type:	VALLEY NEEDLEGRASS GRASSLAND		
General Description:	Previously burnt area and primarily native grasses.		
Emissions Calculation Method:	Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)		Estimated Emissions:
			1.223
<p>Edit Edit this information.</p>			
Unit Location			
County:	San Joaquin	District:	San Joaquin Valley APCD
Air Basin:	San Joaquin Valley		
Latitude:	37.65582	Longitude:	-121.537488
Meridian:	Mt Diablo		
Township:	3S	Range:	4E
Section:	17, 20		
Min Elev:	1055	Max Elev:	1543
Mean Elev:	1299		
Crossroads:	HW-580	Slope:	Varied
Aspect:	Eastern		
<p>Edit Edit this information.</p>			
Ignition Prescription			
Source of meteorological information:	LLNL S300 Meteorological Tower		
Other considerations to ensure adequate smoke dispersion:		NA	
Sfc Wind Direction:	Ideal: W	Min: ANY	Max: ANY
Sfc Wind Speed:	Ideal: 15	Min: 0	Max: 25
Transport Wind Direction:	Ideal: NW	Min: ANY	Max: ANY
RH:	Ideal: 25	Min: 15	Max: 75
Temperature:	Ideal: 80	Min: 50	Max: 100
Target Mixing Height:	500 ft (above ground level)		
<p>Edit Edit this information.</p> <p>Delete Delete Project 11 (Plots 15 & 24).</p> <p>Inactive Make this unit inactive. ?</p>			
<p>▼ Project 12 (Plot 14E)</p>			<p>(click to expand)</p>
General Information			
Acres:	47.8	Tons/Acre:	1
Fuel Arrangement:	Grassland	Fuel Density:	Typical
General Fuel Moisture:	Dry	Min THFM:	0
Max THFM:	0		
Cover Type:	VALLEY NEEDLEGRASS GRASSLAND		
General Description:	Previously burnt area and primarily native grasses.		
Emissions Calculation Method:	Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)		Estimated Emissions:
			1.223
<p>Edit Edit this information.</p>			
Unit Location			
County:	San Joaquin	District:	San Joaquin Valley APCD
Air Basin:	San Joaquin Valley		
Latitude:	37.63506	Longitude:	-121.55522
Meridian:	Mt Diablo		
Township:	3S	Range:	4E
Section:	33, 34, 35		

Min Elev:	649	Max Elev:	697	Mean Elev:	673
Crossroads:	HW-580	Slope:	Varied	Aspect:	Eastern
<p>Edit Edit this information.</p>					
Ignition Prescription					
Source of meteorological information:	LLNL S300 Meteorological Tower				
Other considerations to ensure adequate smoke dispersion:	NA				
Sfc Wind Direction:	Ideal: W	Min:	ANY	Max:	ANY
Sfc Wind Speed:	Ideal: 15	Min:	0	Max:	25
Transport Wind Direction:	Ideal: NW	Min:	ANY	Max:	ANY
RH:	Ideal: 25	Min:	15	Max:	75
Temperature:	Ideal: 80	Min:	50	Max:	100
Target Mixing Height:	500 ft (above ground level)				
<p>Edit Edit this information.</p> <p>Delete Delete Project 12 (Plot 14E).</p> <p>Inactive Make this unit inactive. <input type="checkbox"/></p>					
<p>▼ Project 13 (Plot 13)</p>					<p>(click to expand)</p>
General Information					
Acres:	190.4	Tons/Acre:	1	Fuel Arrangement:	Grassland
				Fuel Density:	Typical
General Fuel Moisture:	Dry	Min THFM:	0	Max THFM:	0
Cover Type:	VALLEY NEEDLEGRASS GRASSLAND				
General Description:	Previously burnt area and primarily native grasses.				
Emissions Calculation Method:	Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)			Estimated Emissions:	1.273
<p>Edit Edit this information.</p>					
Unit Location					
County:	San Joaquin	District:	San Joaquin Valley APCD	Air Basin:	San Joaquin Valley
Latitude:	37.639722	Longitude:	-121.531041	Meridian:	Mt Diablo
Township:	3S	Range:	4E	Section:	27, 28, 33, 34
Min Elev:	614	Max Elev:	1302	Mean Elev:	958
Crossroads:	HW-580	Slope:	Varied	Aspect:	Eastern
<p>Edit Edit this information.</p>					
Ignition Prescription					
Source of meteorological information:	LLNL S300 Meteorological Tower				
Other considerations to ensure adequate smoke dispersion:	NA				
Sfc Wind Direction:	Ideal: W	Min:	ANY	Max:	ANY
Sfc Wind Speed:	Ideal: 15	Min:	0	Max:	25
Transport Wind Direction:	Ideal: NW	Min:	ANY	Max:	ANY
RH:	Ideal: 25	Min:	15	Max:	75
Temperature:	Ideal: 80	Min:	50	Max:	100
Target Mixing Height:	500 ft (above ground level)				
<p>Edit Edit this information.</p> <p>Delete Delete Project 13 (Plot 13).</p> <p>Inactive Make this unit inactive. <input type="checkbox"/></p>					
<p>▼ Project 14 (Plot 14W)</p>					<p>(click to expand)</p>
General Information					
Acres:	8.8	Tons/Acre:	1	Fuel Arrangement:	Grassland
				Fuel Density:	Typical
General Fuel Moisture:	Dry	Min THFM:	0	Max THFM:	0
Cover Type:	VALLEY NEEDLEGRASS GRASSLAND				
General Description:	Previously burnt area and primarily native grasses.				
Emissions Calculation Method:	Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)			Estimated Emissions:	2.006

Edit Edit this information.							
Unit Location							
County:	San Joaquin	District:	San Joaquin Valley APCD	Air Basin:	San Joaquin Valley		
Latitude:	37.638183	Longitude:	-121.537528	Meridian:	Mt Diablo		
Township:	3S	Range:	4E	Section:	28, 29, 33		
Min Elev:	568	Max Elev:	738	Mean Elev:	653		
Crossroads:	HW-580	Slope:	Varied	Aspect:	Eastern		
Edit Edit this information.							
Ignition Prescription							
Source of meteorological information:	LLNL S300 Meteorological Tower						
Other considerations to ensure adequate smoke dispersion:	NA						
Sfc Wind Direction:	Ideal: W	Min:	ANY	Max:	ANY		
Sfc Wind Speed:	Ideal: 15	Min:	0	Max:	25		
Transport Wind Direction:	Ideal: NW	Min:	ANY	Max:	ANY		
RH:	Ideal: 25	Min:	15	Max:	75		
Temperature:	Ideal: 80	Min:	50	Max:	100		
Target Mixing Height:	500 ft (above ground level)						
Edit Edit this information.							
Delete	Delete Project 14 (Plot 14W).						
Inactive	Make this unit inactive. ?						
▼ Project 15 (Plot 16W) (click to expand)							
General Information							
Acres:	442.1	Tons/Acre:	1	Fuel Arrangement:	Grassland	Fuel Density:	Typical
General Fuel Moisture:	Dry		Min THFM:	0	Max THFM:	0	
Cover Type:	VALLEY NEEDLEGRASS GRASSLAND						
General Description:	Previously burnt area and primarily native grasses.						
Emissions Calculation Method:	Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)			Estimated Emissions:	0.231		
Edit Edit this information.							
Unit Location							
County:	San Joaquin	District:	San Joaquin Valley APCD	Air Basin:	San Joaquin Valley		
Latitude:	37.652034	Longitude:	-121.549692	Meridian:	Mt Diablo		
Township:	3S	Range:	4E	Section:	17, 20		
Min Elev:	1065	Max Elev:	1707	Mean Elev:	1386		
Crossroads:	HW-580	Slope:	Varied	Aspect:	Eastern		
Edit Edit this information.							
Ignition Prescription							
Source of meteorological information:	LLNL S300 Meteorological Tower						
Other considerations to ensure adequate smoke dispersion:	NA						
Sfc Wind Direction:	Ideal: W	Min:	ANY	Max:	ANY		
Sfc Wind Speed:	Ideal: 15	Min:	0	Max:	25		
Transport Wind Direction:	Ideal: NW	Min:	ANY	Max:	ANY		
RH:	Ideal: 25	Min:	15	Max:	75		
Temperature:	Ideal: 80	Min:	50	Max:	100		
Target Mixing Height:	500 ft (above ground level)						
Edit Edit this information.							
Delete	Delete Project 15 (Plot 16W).						
Inactive	Make this unit inactive. ?						
Single	Add a single Broadcast Unit						

Multiple [Add a multiple Broadcast Units via spreadsheet](#)

▼ Pile Units

Incomplete

Single	Add a single Pile Unit
Multiple	Add a multiple Pile Units via spreadsheet

▼ Smoke Sensitive Areas

Complete

SSA Name	Direction	Distance	Delete?
City of Tracy	NE	2.7 (mi) miles	Delete
City of Livermore	E	7.26 (mi) miles	Delete
Community of Mountain House	N	5.3 (mi) miles	Delete
City of Manteca,CA	NE	17.07 (mi) miles	Delete
City of Lathrop	NE	15.68 (mi) miles	Delete
Community of Tracy Hills	NE	1.8 (mi) miles	Delete
Edit	Edit Smoke Sensitive Area(s)		
Add	Add Smoke Sensitive Area(s)		

▼ Public Contact Methods

Complete

TV?	No	Radio?	No	Newspaper?	Yes	Signs/Flyers?	No	Telephone?	Yes	Email?	Yes	Website?	Yes
Description of Contact Method(s)	Letter to neighbors, newspaper notice, lock libraries, LLNL webpage, social media platforms, such as LinkedIn, Twitter, etc.												
Signage Description	Not applicable, remote area												
Edit	Edit this Land Manager												

▼ Alternatives to Burning

Complete

Alternative Name:	Various
Description:	Mowing/disking, grazing, sterilization.
Did you use this alternative?	No
Estimated emissions and fuel reduction (if used) Reasons (if not used)	Too steep for mowing/disking. Grazing or sterilization will have adverse impacts to native plants onsite.
Additional Comments:	
Edit	Edit this Alternative
Delete	Delete this Alternative
Add	Add an Alternative

▼ Smoke Mitigation

Complete

Contingency Name:	Smoke Reduction
Contingency Measure?	Yes
Smoke Minimization Measure?	Yes
Description:	Suppress active fire. Reduce the size of burn plot by developing new control lines. Initiate mop-up operations once fire is controlled. Focus suppression and mop-up operations on area of greater smoke production.
Edit	Edit this Smoke Mitigation information
Delete	Delete this Smoke Mitigation information
Add	Add Smoke Mitigation information

▼ SMP Comments

Complete

Land Manager Comments:		None
Edit	Edit this Comment	

▼ Project Maps

Complete

LLNL S300 2024 Burn Map	View	Delete
Google Map with all burn units	Google	
Add	Add Maps	

Print Print this plan.

This SMP has been submitted.

Save Save changes and exit. Plan can be accessed at any time. This choice will NOT submit your plan to any air district.

Archive Archive this plan. You will be able to access the plan via the Retrieve SMP page, under the Archived Plans menu.

Other Options

Retrieve Retrieve another SMP.

Inside Return to the PFIRS Land Manager Inside page.

Log Out Log out of PFIRS.

