Review SMP for LLNL S300 2022 - SJVAPCD

Plan Author: Wai-Man So

Land Manager Information

<table>
<thead>
<tr>
<th>Name of Project</th>
<th>LLNL S300 2022 - SJVAPCD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permittee</td>
<td>LLNS</td>
</tr>
<tr>
<td>Permit Number</td>
<td></td>
</tr>
<tr>
<td>Primary Field Contact</td>
<td>Brian Diregolo</td>
</tr>
<tr>
<td>Other Field Contacts:</td>
<td></td>
</tr>
<tr>
<td>Land Manager Name:</td>
<td>Valerie Dibley/Wai-Man So</td>
</tr>
<tr>
<td>Address:</td>
<td>7000 East Ave Livermore, CA 94550</td>
</tr>
<tr>
<td>Phone:</td>
<td>925-424-4411</td>
</tr>
<tr>
<td>24 Hour Phone:</td>
<td>925-724-8040</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:so5@llnl.gov">so5@llnl.gov</a></td>
</tr>
</tbody>
</table>

Landowner Information

<table>
<thead>
<tr>
<th>Landowner Name:</th>
<th>US Government-Dept of Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td>7000 East Ave Livermore, CA 94550</td>
</tr>
</tbody>
</table>

Project Specifics

<table>
<thead>
<tr>
<th>Project Acres</th>
<th>1905</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration (days)</td>
<td>12</td>
</tr>
<tr>
<td>Burn Goal</td>
<td>Hazard Reduction</td>
</tr>
<tr>
<td>Preferred Season</td>
<td>Spring</td>
</tr>
<tr>
<td>Burn Start</td>
<td>05-2022</td>
</tr>
<tr>
<td>Burn End</td>
<td>08-2022</td>
</tr>
<tr>
<td>Primary District</td>
<td>San Joaquin Valley APCD</td>
</tr>
<tr>
<td>Secondary District</td>
<td></td>
</tr>
<tr>
<td>Tertiary District</td>
<td></td>
</tr>
</tbody>
</table>

Broadcast Units

Currently Active Units

<table>
<thead>
<tr>
<th>Project 1 (Plots 10 and 9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Information</td>
</tr>
<tr>
<td>Acres: 57</td>
</tr>
<tr>
<td>Tons/Acre: 1</td>
</tr>
<tr>
<td>Fuel Arrangement: Natural</td>
</tr>
<tr>
<td>Fuel Density: Typical</td>
</tr>
<tr>
<td>General Fuel Moisture: Dry</td>
</tr>
<tr>
<td>Min THFM: 0</td>
</tr>
<tr>
<td>Max THFM: 5</td>
</tr>
<tr>
<td>Cover Type: VALLEY NEEDLEGRASS GRASSLAND</td>
</tr>
<tr>
<td>General Description: Previously burnt area and &gt;95% native grasses.</td>
</tr>
<tr>
<td>Emissions Calculation Method: Table 2 &amp; Table 3 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)</td>
</tr>
<tr>
<td>Estimated Emissions: 0.399</td>
</tr>
</tbody>
</table>

Unit Location

<table>
<thead>
<tr>
<th>County: San Joaquin</th>
</tr>
</thead>
<tbody>
<tr>
<td>District: San Joaquin Valley APCD</td>
</tr>
<tr>
<td>Air Basin: San Joaquin Valley</td>
</tr>
<tr>
<td>Latitude: 37.643341</td>
</tr>
<tr>
<td>Longitude: -121.4962076</td>
</tr>
<tr>
<td>Meridian: N/A</td>
</tr>
<tr>
<td>Township: 3S</td>
</tr>
<tr>
<td>Range: 4E</td>
</tr>
<tr>
<td>Section: 26</td>
</tr>
<tr>
<td>Min Elev: 588</td>
</tr>
<tr>
<td>Max Elev: 1044</td>
</tr>
<tr>
<td>Mean Elev: 816</td>
</tr>
</tbody>
</table>

https://ssl.arb.ca.gov/pfirs/lm/smp_review.php
### Project 1 (Plots 10 and 9)

**Crossroads:** HW-580  
**Slope:** varied  
**Aspect:** eastern

<table>
<thead>
<tr>
<th>Source of meteorological information:</th>
<th>LLNL S300 Meteorological Tower</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other considerations to ensure adequate smoke dispersion:</td>
<td>NA</td>
</tr>
<tr>
<td>Sfc Wind Direction:</td>
<td>Ideal: W</td>
</tr>
<tr>
<td>Sfc Wind Speed:</td>
<td>Ideal: 15</td>
</tr>
<tr>
<td>Transport Wind Direction:</td>
<td>Ideal: NW</td>
</tr>
<tr>
<td>RH:</td>
<td>Ideal: 25</td>
</tr>
<tr>
<td>Temperature:</td>
<td>Ideal: 80</td>
</tr>
</tbody>
</table>

**Target Mixing Height:** 500 ft (above ground level)

### Project 3 (Plots 7 and 21)

<table>
<thead>
<tr>
<th>General Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acres:</td>
</tr>
<tr>
<td>Tons/Acre:</td>
</tr>
<tr>
<td>Fuel Arrangement:</td>
</tr>
<tr>
<td>Fuel Density:</td>
</tr>
<tr>
<td>General Fuel Moisture:</td>
</tr>
<tr>
<td>Min THFM:</td>
</tr>
<tr>
<td>Max THFM:</td>
</tr>
<tr>
<td>Cover Type:</td>
</tr>
<tr>
<td>General Description:</td>
</tr>
<tr>
<td>Emissions Calculation Method:</td>
</tr>
<tr>
<td>Estimated Emissions:</td>
</tr>
</tbody>
</table>

### Unit Location

<table>
<thead>
<tr>
<th>County:</th>
<th>San Joaquin</th>
</tr>
</thead>
<tbody>
<tr>
<td>District:</td>
<td>San Joaquin Valley APCD</td>
</tr>
<tr>
<td>Air Basin:</td>
<td>San Joaquin Valley</td>
</tr>
<tr>
<td>Latitude:</td>
<td>37.663528</td>
</tr>
<tr>
<td>Longitude:</td>
<td>-121.51921</td>
</tr>
<tr>
<td>Township:</td>
<td>3S</td>
</tr>
<tr>
<td>Range:</td>
<td>4E</td>
</tr>
<tr>
<td>Section:</td>
<td>15, 22</td>
</tr>
<tr>
<td>Min Elev:</td>
<td>900</td>
</tr>
<tr>
<td>Max Elev:</td>
<td>1309</td>
</tr>
<tr>
<td>Mean Elev:</td>
<td>1104.5</td>
</tr>
<tr>
<td>Crossroads:</td>
<td>HW-580</td>
</tr>
<tr>
<td>Slope:</td>
<td>varied</td>
</tr>
<tr>
<td>Aspect:</td>
<td>eastern</td>
</tr>
</tbody>
</table>

### Project 2 (Plots 8 and 7B)

<table>
<thead>
<tr>
<th>General Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acres:</td>
</tr>
<tr>
<td>Tons/Acre:</td>
</tr>
<tr>
<td>Fuel Arrangement:</td>
</tr>
<tr>
<td>Fuel Density:</td>
</tr>
<tr>
<td>General Fuel Moisture:</td>
</tr>
<tr>
<td>Min THFM:</td>
</tr>
<tr>
<td>Max THFM:</td>
</tr>
<tr>
<td>Cover Type:</td>
</tr>
<tr>
<td>General Description:</td>
</tr>
<tr>
<td>Emissions Calculation Method:</td>
</tr>
<tr>
<td>Estimated Emissions:</td>
</tr>
</tbody>
</table>

---

https://ssl.arb.ca.gov/pfirs/lm/smp_review.php
Unit Location

County: San Joaquin  District: San Joaquin Valley APCD  Air Basin: San Joaquin Valley
Latitude: 37.65  Longitude: -121.53  Meridian: N/A
Township: 3S  Range: 4E  Section: 22
Min Elev: 820  Max Elev: 1040  Mean Elev: 930
Crossroads: HW-580  Slope: varied  Aspect: eastern

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 this information.

Delete Delete Project 2 (Plots 8 and 7B).

Inactive Make this unit inactive.

Project 2 (Plots 8 and 7B)

General Information

Acres: 22.9  Tons/Acre: 1  Fuel Arrangement: Natural  Fuel Density: Typical
General Fuel Moisture: Dry  Min THFM: 0  Max THFM: 5
Cover Type: VALLEY NEEDLEGRASS GRASSLAND
General Description: Previously burnt area and >95% native grasses.
Emissions Calculation Method: Table 2 & Table 3 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)
Estimated Emissions: 0.16

Edit this information.

Delete Delete Project 4 (Plots 6, 20 and 19).

Inactive Make this unit inactive.

Project 4 (Plots 6, 20 and 19)

General Information

Acres: 39.8  Tons/Acre: 1  Fuel Arrangement: Natural  Fuel Density: Typical
General Fuel Moisture: Dry  Min THFM: 0  Max THFM: 5

Unit Location

County: San Joaquin  District: San Joaquin Valley APCD  Air Basin: San Joaquin Valley
Latitude: 37.668212  Longitude: -121.526966  Meridian: N/A
Township: 3S  Range: 4E  Section: 15
Min Elev: 859  Max Elev: 1233  Mean Elev: 1201
Crossroads: HW-580  Slope: varied  Aspect: northern

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 this information.

Delete Delete Project 4 (Plots 6, 20 and 19).

Inactive Make this unit inactive.

Project 5 (Plots 17, 18 and 1A)

General Information

Acres: 39.8  Tons/Acre: 1  Fuel Arrangement: Natural  Fuel Density: Typical
General Fuel Moisture: Dry  Min THFM: 0  Max THFM: 5
### Project 5 (Plots 17, 18 and 1A)

- **Cover Type:** VALLEY NEEDLEGRASS GRASSLAND
- **General Description:** Previously burnt area and >95% native grasses.

#### Emissions Calculation Method

| Table 2 & Table 3 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel) | Estimated Emissions: 0.279 |

#### Unit Location

<table>
<thead>
<tr>
<th>County</th>
<th>San Joaquin</th>
<th>District</th>
<th>San Joaquin Valley APCD</th>
<th>Air Basin:</th>
<th>San Joaquin Valley</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude</td>
<td>37.67174</td>
<td>Longitude:</td>
<td>-121.551058</td>
<td>Meridian:</td>
<td>N/A</td>
</tr>
<tr>
<td>Township</td>
<td>3S</td>
<td>Range:</td>
<td>4E</td>
<td>Section:</td>
<td>15, 16</td>
</tr>
<tr>
<td>Min Elev</td>
<td>940</td>
<td>Max Elev:</td>
<td>1250</td>
<td>Mean Elev:</td>
<td>1095</td>
</tr>
<tr>
<td>Crossroads</td>
<td>HW-580</td>
<td>Slope:</td>
<td>varied</td>
<td>Aspect:</td>
<td>varied</td>
</tr>
</tbody>
</table>

#### Ignition Prescription

**Source of meteorological information:** LLNL S300 Meteorological Tower

**Other considerations to ensure adequate smoke dispersion:** NA

<table>
<thead>
<tr>
<th>Sfc Wind Direction</th>
<th>Ideal: W</th>
<th>Min: ANY</th>
<th>Max: ANY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sfc Wind Speed</td>
<td>Ideal: 15</td>
<td>Min: 0</td>
<td>Max: 25</td>
</tr>
<tr>
<td>Transport Wind Direction</td>
<td>Ideal: NW</td>
<td>Min: ANY</td>
<td>Max: ANY</td>
</tr>
<tr>
<td>RH</td>
<td>Ideal: 25</td>
<td>Min: 15</td>
<td>Max: 75</td>
</tr>
<tr>
<td>Temperature</td>
<td>Ideal: 80</td>
<td>Min: 50</td>
<td>Max: 100</td>
</tr>
</tbody>
</table>

**Target Mixing Height:** 500 ft (above ground level)

#### Project 6 (Plot 1)

#### General Information

<table>
<thead>
<tr>
<th>Acres: 64.4</th>
<th>Tons/Acre: 1</th>
<th>Fuel Arrangement: Natural</th>
<th>Fuel Density: Typical</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Fuel Moisture: Dry</td>
<td>Min THFM: 0</td>
<td>Max THFM: 5</td>
<td></td>
</tr>
</tbody>
</table>

- **Cover Type:** VALLEY NEEDLEGRASS GRASSLAND
- **General Description:** Previously burnt area and >95% native grasses.

#### Emissions Calculation Method

| Table 2 & Table 3 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel) | Estimated Emissions: 0.451 |

#### Unit Location

<table>
<thead>
<tr>
<th>County</th>
<th>San Joaquin</th>
<th>District</th>
<th>San Joaquin Valley APCD</th>
<th>Air Basin:</th>
<th>San Joaquin Valley</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude</td>
<td>37.67144</td>
<td>Longitude:</td>
<td>-121.551499</td>
<td>Meridian:</td>
<td>N/A</td>
</tr>
<tr>
<td>Township</td>
<td>3S</td>
<td>Range:</td>
<td>4E</td>
<td>Section:</td>
<td>16, 17</td>
</tr>
<tr>
<td>Min Elev</td>
<td>1127</td>
<td>Max Elev:</td>
<td>1533</td>
<td>Mean Elev:</td>
<td>1330</td>
</tr>
<tr>
<td>Crossroads</td>
<td>HW-580</td>
<td>Slope:</td>
<td>varied</td>
<td>Aspect:</td>
<td>eastern</td>
</tr>
</tbody>
</table>

#### Ignition Prescription

**Source of meteorological information:** LLNL S300 Meteorological Tower

**Other considerations to ensure adequate smoke dispersion:** NA

<table>
<thead>
<tr>
<th>Sfc Wind Direction</th>
<th>Ideal: W</th>
<th>Min: ANY</th>
<th>Max: ANY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sfc Wind Speed</td>
<td>Ideal: 15</td>
<td>Min: 0</td>
<td>Max: 25</td>
</tr>
<tr>
<td>Transport Wind Direction</td>
<td>Ideal: NW</td>
<td>Min: ANY</td>
<td>Max: ANY</td>
</tr>
<tr>
<td>RH</td>
<td>Ideal: 25</td>
<td>Min: 15</td>
<td>Max: 75</td>
</tr>
<tr>
<td>Temperature</td>
<td>Ideal: 80</td>
<td>Min: 50</td>
<td>Max: 100</td>
</tr>
</tbody>
</table>

**Target Mixing Height:** 500 ft (above ground level)
### Project 9 (Plot 21A)

**General Information**
- Acres: 91.4
- Tons/Acre: 1
- Fuel Arrangement: Natural
- Fuel Density: Typical
- General Fuel Moisture: Dry
- Min THFM: 0
- Max THFM: 5
- Cover Type: NON-NATIVE GRASSLAND
- General Description: Previously burnt area over a decade ago.
- Emissions Calculation Method: Table 2 & Table 3 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)
- Estimated Emissions: 0.64

**Unit Location**
- County: San Joaquin
- District: San Joaquin Valley APCD
- Air Basin: San Joaquin Valley
- Latitude: 37.67126
- Longitude: -121.51771
- Meridian: N/A
- Township: 3S
- Range: 4E
- Section: 15
- Min Elev: 914
- Max Elev: 1318
- Mean Elev: 1116
- Crossroads: HW-580
- Slope: varied
- Aspect: eastern

**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)

**Delete**
- Delete Project 9 (Plot 21A).

**Inactive**
- Make this unit inactive.

### Project 7 (Plot 7A)

**General Information**
- Acres: 55.2
- Tons/Acre: 1
- Fuel Arrangement: Natural
- Fuel Density: Typical
- General Fuel Moisture: Dry
- Min THFM: 0
- Max THFM: 5
- Cover Type: NON-NATIVE GRASSLAND
- General Description: Previously burnt area over a decade ago.
- Emissions Calculation Method: Table 2 & Table 3 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)
- Estimated Emissions: 0.386

**Unit Location**
- County: San Joaquin
- District: San Joaquin Valley APCD
- Air Basin: San Joaquin Valley
- Latitude: 37.66
- Longitude: -121.52
- Meridian: N/A
- Township: 3S
- Range: 4E
- Section: 22
- Min Elev: 916
- Max Elev: 1300
- Mean Elev: 1108
- Crossroads: HW-580
- Slope: varied
- Aspect: eastern

**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)

---

[https://ssl.arb.ca.gov/pfirs/lm/smp_review.php]
### Project 7 (Plot 7A)

General Information

- **Acres:** 78.4
- **Tons/Acre:** 1
- **Fuel Arrangement:** Natural
- **Fuel Density:** Typical
- **General Fuel Moisture:** Dry
- **Min THFM:** 0
- **Max THFM:** 5
- **Cover Type:** NON-NATIVE GRASSLAND
- **General Description:** Previously burnt area over a decade ago.
- **Emissions Calculation Method:** Table 2 & Table 3 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)
- **Estimated Emissions:** 0.549

Unit Location

- **County:** San Joaquin
- **District:** San Joaquin Valley APCD
- **Air Basin:** San Joaquin Valley
- **Latitude:** 37.67515
- **Longitude:** -121.51964
- **Meridian:** N/A
- **Township:** 3S
- **Range:** 4E
- **Section:** 15
- **Min Elev:** 864
- **Max Elev:** 1336
- **Mean Elev:** 1100
- **Crossroads:** HW-580
- **Slope:** varied
- **Aspect:** northern

Ignition Prescription

- **Source of meteorological information:** LLNL S300 Meteorological Tower
- **Other considerations to ensure adequate smoke dispersion:** NA

### Project 10 (Plot 3)

General Information

- **Acres:** 78.4
- **Tons/Acre:** 1
- **Fuel Arrangement:** Natural
- **Fuel Density:** Typical
- **General Fuel Moisture:** Dry
- **Min THFM:** 0
- **Max THFM:** 5
- **Cover Type:** NON-NATIVE GRASSLAND
- **General Description:** Previously burnt area over a decade ago.
- **Emissions Calculation Method:** Table 2 & Table 3 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)
- **Estimated Emissions:** 0.549

Unit Location

- **County:** San Joaquin
- **District:** San Joaquin Valley APCD
- **Air Basin:** San Joaquin Valley
- **Latitude:** 37.67515
- **Longitude:** -121.51964
- **Meridian:** N/A
- **Township:** 3S
- **Range:** 4E
- **Section:** 15
- **Min Elev:** 864
- **Max Elev:** 1336
- **Mean Elev:** 1100
- **Crossroads:** HW-580
- **Slope:** varied
- **Aspect:** northern

Ignition Prescription

- **Source of meteorological information:** LLNL S300 Meteorological Tower
- **Other considerations to ensure adequate smoke dispersion:** NA

### Project 8 (Plot 21B)

General Information

- **Acres:** 58.9
- **Tons/Acre:** 1
- **Fuel Arrangement:** Natural
- **Fuel Density:** Typical
- **General Fuel Moisture:** Dry
- **Min THFM:** 0
- **Max THFM:** 5
- **Cover Type:** NON-NATIVE GRASSLAND
- **General Description:** Previously burnt area over a decade ago.
- **Emissions Calculation Method:** Table 2 & Table 3 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)
- **Estimated Emissions:** 0.412

Unit Location

- **County:** San Joaquin
- **District:** San Joaquin Valley APCD
- **Air Basin:** San Joaquin Valley
- **Latitude:** 37.66623
- **Longitude:** -121.51807
- **Meridian:** N/A
- **Township:** 3S
- **Range:** 4E
- **Section:** 15
- **Min Elev:** 1048
- **Max Elev:** 1322
- **Mean Elev:** 1185
- **Crossroads:** HW-580
- **Slope:** varied
- **Aspect:** eastern

Ignition Prescription

- **Source of meteorological information:** LLNL S300 Meteorological Tower
- **Other considerations to ensure adequate smoke dispersion:** NA
**Project 8 (Plot 21B)**

- **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 21B).

**Inactive** Make this unit inactive.

**Project 11 (Plot 5)**

- **General Information**
  - Acres: 78.9
  - Tons/Acre: 1
  - Fuel Arrangement: Natural
  - Fuel Density: Typical
  - General Fuel Moisture: Dry
  - Min THFM: 0
  - Max THFM: 5
  - Cover Type: NON-NATIVE GRASSLAND
  - General Description: Previously burn area over a decade ago.
  - Emissions Calculation Method: Table 2 & Table 3 (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: 37.67474
- Longitude: -121.52616
- Meridian: N/A
- Township: 3S
- Range: 4E
- Section: 15
- Min Elev: 1012
- Max Elev: 1394
- Mean Elev: 1203
- Crossroads: HW-580
- Slope: varied
- Aspect: northern

**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 11 (Plot 5).

**Inactive** Make this unit inactive.

**Project 12 (Plot 2)**

- **General Information**
  - Acres: 65
  - Tons/Acre: 1
  - Fuel Arrangement: Natural
  - Fuel Density: Typical
  - General Fuel Moisture: Dry
  - Min THFM: 0
  - Max THFM: 5
  - Cover Type: NON-NATIVE GRASSLAND
  - General Description: Previously burnt area over a decade ago.
  - Emissions Calculation Method: Table 2 & Table 3 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)
  - Estimated Emissions: 0.455

**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: N/A
- Township: 3S
- Range: 4E
- Section: 15
- Min Elev: 960
- Max Elev: 1310
- Mean Elev: 1135
## Project 12 (Plot 2)

**General Information**

- **Acre:** 517.1
- **Tons/Acre:** 1
- **Fuel Arrangement:** Natural
- **Fuel Density:** Typical
- **General Fuel Moisture:** Dry
- **Min THFM:** 0
- **Max THFM:** 5
- **Cover Type:** VALLEY NEEDLEGRASS GRASSLAND
- **General Description:** Previously burnt area and >95% native grasses.
- **Emissions Calculation Method:** Table 2 & Table 3 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)
- **Estimated Emissions:** 3.62

**Unit Location**

- **County:** San Joaquin
- **District:** San Joaquin Valley APCD
- **Air Basin:** San Joaquin Valley
- **Latitude:** 37.671744
- **Longitude:** -121.551499
- **Township:** 3S
- **Range:** 4E
- **Section:** 16, 17, 21
- **Min Elev:** 994
- **Max Elev:** 1578
- **Mean Elev:** 1286
- **Crossroads:** HW-580
- **Slope:** varied
- **Aspect:** northern

**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)

**Delete**

Delete Project 12 (Plot 2).

**Inactive**

Make this unit inactive.

## Project 13 (Plots 16E, 12 and 15)

**General Information**

- **Acre:** 211
- **Tons/Acre:** 1
- **Fuel Arrangement:** Natural
- **Fuel Density:** Typical
- **General Fuel Moisture:** Dry
- **Min THFM:** 0
- **Max THFM:** 5
- **Cover Type:** VALLEY NEEDLEGRASS GRASSLAND
- **General Description:** Previously burnt area and >95% native grasses.
- **Emissions Calculation Method:** Table 2 & Table 3 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)
- **Estimated Emissions:** 1.477

**Unit Location**

- **County:** San Joaquin
- **District:** San Joaquin Valley APCD
- **Air Basin:** San Joaquin Valley
- **Latitude:** 37.671744
- **Longitude:** -121.551499
- **Township:** 3S
- **Range:** 4E
- **Section:** 16, 17, 21
- **Min Elev:** 994
- **Max Elev:** 1578
- **Mean Elev:** 1286
- **Crossroads:** HW-580
- **Slope:** varied
- **Aspect:** northern

**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)

**Delete**

Delete Project 13 (Plots 16E, 12 and 15).

**Inactive**

Make this unit inactive.

## Project 14 (Plot 13)

**General Information**

- **Acre:** 211
- **Tons/Acre:** 1
- **Fuel Arrangement:** Natural
- **Fuel Density:** Typical
- **General Fuel Moisture:** Dry
- **Min THFM:** 0
- **Max THFM:** 5
- **Cover Type:** VALLEY NEEDLEGRASS GRASSLAND
- **General Description:** Previously burnt area and >95% native grasses.
- **Emissions Calculation Method:** Table 2 & Table 3 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)
- **Estimated Emissions:** 1.477

**Delete**

Delete Project 14 (Plot 13).

**Inactive**

Make this unit inactive.
Project 14 (Plot 13)

General Information

- **Acres:** 33
- **Tons/Acre:** 1
- **Fuel Arrangement:** Natural
- **Fuel Density:** Typical
- **General Fuel Moisture:** Dry
- **Min THFM:** 0
- **Max THFM:** 5
- **Cover Type:** VALLEY NEEDLEGRASS GRASSLAND
- **General Description:** Previously burnt area and >95% native grasses.
- **Emissions Calculation Method:** Table 2 & Table 3 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)
- **Estimated Emissions:** 0.231

Unit Location

- **County:** San Joaquin
- **District:** San Joaquin Valley APCD
- **Air Basin:** San Joaquin Valley
- **Latitude:** 37.639722
- **Longitude:** -121.531041
- **Township:** 3S
- **Range:** 4E
- **Min Elev:** 614
- **Max Elev:** 1302
- **Mean Elev:** 958
- **Crossroads:** HW-580
- **Slope:** varied
- **Aspect:** varied

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)

Project 15 (Plot 14)

General Information

- **Acres:** 442.1
- **Tons/Acre:** 1
- **Fuel Arrangement:** Natural
- **Fuel Density:** Typical
- **General Fuel Moisture:** Dry
- **Min THFM:** 0
- **Max THFM:** 5

Unit Location

- **County:** San Joaquin
- **District:** San Joaquin Valley APCD
- **Air Basin:** San Joaquin Valley
- **Latitude:** 37.638183
- **Longitude:** -121.537528
- **Township:** 3S
- **Range:** 4E
- **Min Elev:** 568
- **Max Elev:** 738
- **Mean Elev:** 653
- **Crossroads:** HW-580
- **Slope:** varied
- **Aspect:** southern

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)
Cover Type: VALLEY NEEDLEGRASS GRASSLAND

General Description: Previously burnt area and >95% native grasses.

Emissions Calculation Method: Table 2 & Table 3 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)  
Estimated Emissions: 3.095

Unit Location

County: San Joaquin  
District: San Joaquin Valley APCD  
Air Basin: San Joaquin Valley

Latitude: 37.652034  
Longitude: -121.549692  
Meridian: N/A

Township: 3S  
Range: 4E  
Section: 17, 20

Min Elev: 1065  
Max Elev: 1707  
Mean Elev: 1386

Crossroads: HW-580  
Slope: varied  
Aspect: varied

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)

Project 16 (Plot 16W)

General Information

Acres: 1.1  
Tons/Acre: 1  
Fuel Arrangement: Natural  
Fuel Density: Typical

General Fuel Moisture: Dry  
Min THFM: 0  
Max THFM: 5

Cover Type: VALLEY NEEDLEGRASS GRASSLAND

Emissions Calculation Method: Table 2 & Table 3 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)  
Estimated Emissions: 0.008

Project 17 (Plot 11)

General Information

Acres: 1.1  
Tons/Acre: 1  
Fuel Arrangement: Natural  
Fuel Density: Typical

General Fuel Moisture: Dry  
Min THFM: 0  
Max THFM: 5

Cover Type: VALLEY NEEDLEGRASS GRASSLAND

Emissions Calculation Method: Table 2 & Table 3 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel)  
Estimated Emissions: 0.008

Project 17 (Plot 11)
### Prescribed Fire Information Reporting System

#### Single

- **Add a single Broadcast Unit**

- **Add a single Pile Unit**

#### Multiple

- **Add a multiple Broadcast Units via spreadsheet**

- **Add a multiple Pile Units via spreadsheet**

#### Pile Units

**Complete**

#### Smoke Sensitive Areas

**Complete**

<table>
<thead>
<tr>
<th>SSA Name</th>
<th>Direction</th>
<th>Distance</th>
<th>Delete?</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Tracy</td>
<td>NE</td>
<td>2.7 miles</td>
<td>Delete</td>
</tr>
<tr>
<td>City of Livermore</td>
<td>E</td>
<td>7.26 miles</td>
<td>Delete</td>
</tr>
<tr>
<td>Community of Mountain House</td>
<td>N</td>
<td>5.3 miles</td>
<td>Delete</td>
</tr>
<tr>
<td>City of Manteca, CA</td>
<td>NE</td>
<td>17.07 miles</td>
<td>Delete</td>
</tr>
<tr>
<td>City of Lathrop</td>
<td>NE</td>
<td>15.68 miles</td>
<td>Delete</td>
</tr>
</tbody>
</table>

- **Edit:** Edit Smoke Sensitive Area(s)
- **Add:** Add Smoke Sensitive Area(s)

#### Public Contact Methods

**Complete**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

- **Description of Contact Method(s):** Letters to neighbors, newspaper notice, local libraries, LLNL webpage, social media platforms, such as LinkedIn, Twitter, etc.
- **Signage Description:** Not applicable, remote site.

- **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
## SMP Comments

Add Smoke Mitigation information

### Add SMP Comment (optional)

## Project Maps

Add Maps

#### LLNL S300 2022 Burn Map

View

Delete

#### Google Map with all burn units

Google

## 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.