



## MARSH MANAGEMENT FIRE SMOKE MANAGEMENT PLAN

(Please complete the following information)

1. Property Number & Name: \_\_\_\_\_ 2. **Total Acreage to be burned:** \_\_\_\_\_
3. Property Location: (Provide only one of the following location descriptions)  
 Legal: Township \_\_\_\_\_ Range \_\_\_\_\_ Section(s) \_\_\_\_\_ **or**,  
 Lat/Long: North Latitude \_\_\_\_\_ (deg.) \_\_\_\_\_ (min) \_\_\_\_\_ (sec)  
 West Longitude \_\_\_\_\_ (deg.) \_\_\_\_\_ (min) \_\_\_\_\_ (sec)
4. Fire Agency: \_\_\_\_\_ 5. County: \_\_\_\_\_
6. Burner's Name: \_\_\_\_\_ 7. Phone Number \_\_\_\_\_
8. Burner's Address (street, city, zip code): \_\_\_\_\_

**Note: Please include 3 copies of your property map with this document**

9. Field Contact Name: \_\_\_\_\_ 10. 24-Hour Phone Number \_\_\_\_\_
11. Burn Season: Fall / Spring      Year \_\_\_\_\_
12. Proposed maximum number of acres to be burned per day: \_\_\_\_\_
13. Specify number of people on burn site during burn: \_\_\_\_\_
14. Vegetation type(s) to be burned: \_\_\_\_\_

<b>Tall Emergent (cattails, tules, phragmites, etc.)</b>					<b>Number of Acres: _____</b>
<b>Average height</b>					
<b>Average % cover</b>	0 to 1 ft	1 to 5 ft	5 to 8 ft	8 to 10 ft	10 ft and over
76-100%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
52-75%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26-50%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0-25%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>Low Emergent (salt grass, baltic rush, cocklebur, etc.)</b>					<b>Number of Acres: _____</b>
<b>Average height</b>					
<b>Average % cover</b>	0 to 1 ft	1 to 5 ft	5 to 8 ft	8 to 10 ft	10 ft and over
76-100%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
52-75%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26-50%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0-25%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Upland Grasslands (Annual grass, rye, vetch, etc.)					Number of Acres: _____
Average % cover	Average height				
	0 to 1 ft	1 to 5 ft	5 to 8 ft	8 to 10 ft	10 ft and over
76-100%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
52-75%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26-50%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0-25%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

15. Describe the specific resource management objective(s) and goal(s) of burn:

- Eliminate pest weeds
- Open up seedbed for planting
- Other (specify): \_\_\_\_\_
- Change plant species composition to improve feed/cover
- Control invasive non-desirable vegetation

16. Have other activities (i.e., alternatives to burning) such as discing, mowing, or water management on the proposed burn site been considered or tried at achieving the desired habitat management objectives and goals of your property?

- YES
- NO

If no, explain why not (e.g., vegetation too thick to penetrate by mechanical means, soils are too wet, etc.)

\_\_\_\_\_

If yes, explain the extent and success of your efforts. \_\_\_\_\_

\_\_\_\_\_

17. Describe burn site preparation to be completed prior to burning to minimize potential adverse impacts:

- Create fire breaks
- Flood ditches prior to burning
- Other (specify): \_\_\_\_\_
- Minimize area to be burned with mowing and/or discing

18. Ignition technique and material to be used, Specify:

- Pressurized diesel torches
- Napalm or Blivets
- Fuses
- Commercial fuses
- Lighters or matches
- Propane or LPG torches
- Commercial safety fuses
- Lighters or matches
- Orchard Torches
- Commercial petroleum gel materials
- Commercial type ignition grenades
- Drip Torches

19. Contingency actions or measures the burner will take in the event that smoke impacts begin to occur:

- Disc incremental firebreaks
- Flood fields and ditches
- Other (specify): \_\_\_\_\_
- Have water pump and hose readily available on-site

20. Contingency actions or measures the burner will take in the event that the burn is declared "out of control" and continues to advance after 3:00 p.m. or a peat fire is ignited and continues to burn after 3:00 p.m.:

- Disc incremental firebreaks
- Flood fields and ditches
- Other (specify): \_\_\_\_\_
- Attempt to extinguish fire with water pump and hose on-site
- Call 911 for fire department assistance

21. Range of surface wind conditions acceptable to burner for satisfactory burn:

Wind Speed \_\_\_\_\_ (minimum & maximum, miles/hour)

Wind Direction(s) \_\_\_\_\_

Note: depending on property location in the Suisun Marsh, a North wind blows smoke into Pittsburgh/Antioch, and a Southeast wind blows smoke into Fairfield and Cordelia.

22. Describe planned method(s) of estimation and interval of weather observations:

**Method**

- On burn site, visual
- Hand held anemometer
- Remote weather station (at clubhouse, etc.)
- Other (specify): \_\_\_\_\_

**Frequency**

- Every 30 min.
- Hourly
- Other (specify): \_\_\_\_\_

23. Identify all sensitive receptor areas within a 10-mile radius from the burn site and indicate the distance(s) and direction(s) from the burn site to each sensitive receptor area:

Smoke Sensitive Receptor Area	Distance (miles)	Direction From Burn Site

**NOTE:** Sensitive receptor areas are populated areas and other areas where smoke and air pollutants from a burn project can adversely affect public health and welfare. Examples of such areas include, but are not limited to, towns, cities, highways, major roads, hospitals, nursing homes, schools and airports.

**Landowner’s Certification:**

**A Marsh Management Fire may be conducted by the designated burn applicant above for this property in accordance with all applicable rules and regulations. By signing below, I certify that the information submitted in this Smoke Management Plan is complete and accurate to the best of my knowledge.**

Landowner’s Signature \_\_\_\_\_ Date \_\_\_\_\_

Print Name \_\_\_\_\_ Phone Number \_\_\_\_\_

Address (street, city, zip code): \_\_\_\_\_

## BAAQMD REGULATION 5: OPEN BURNING



### INSTRUCTIONS FOR COMPLETING A MARSH MANAGEMENT FIRE SMOKE MANAGEMENT PLAN (FORM MM-1)

#### GENERAL INFORMATION & APPLICABILITY

Marsh Management fires are open, outdoor fires set for the purpose of improvement of marshland for wildlife habitat. A "marshland" is defined as a type of wetland periodically or permanently covered to a depth of up to 2 meters (6.6 feet) that supports low or tall emergent vegetation. Some examples are diked wetlands, seasonally managed wetlands, unmanaged tidal wetlands, sloughs and open bays.

All Marsh Management fires, irrespective of size, must be certified by the California Dept. of Fish & Game (DFG) and require a Smoke Management Plan (SMP) approved in writing by the Air District **prior to burning**. In addition, a local fire agency burn permit is required prior to burning in the Suisun Marsh. For burns conducted outside of the Suisun Marsh, contact the local fire agency with jurisdiction at the burn site to determine how to comply with any requirements.

Completed SMPs should be submitted to:

**The Department of Fish and Game  
2548 Grizzly Island Road,  
Suisun, CA 94585**

Submit your SMP as soon as possible, we recommend at least 45 Days before you plan to burn. The District **requires** that the plan be received 30 calendar days prior to the burn.

**The SMP must include 3 copies of a detailed property map** that identifies the area(s) to be burned (burn site and any interior unit contingency cutoff lines), and all access roads and gates to the property. Also, include an additional map showing the property's location within the marshland.

#### INSTRUCTIONS

Please read and follow these instructions.

Clearly write or print the requested information on the SMP (Form MM-1) and on any attachment as needed. **Completing all fields speeds up processing your application.**

1. Property Number & Name: Give the Suisun Resource Conservation District (SRCD)-designated ownership property number(s) and the property or club name, if applicable. A single SMP may be used for more than one property number when the properties are adjacent and have the same owner.
2. Acreage to be Burned: Give an estimate of the total number of acres you are planning to burn.

3. Property Location: Give the property address (the actual physical location, not mailing address), and the legal description (township, range, and sections) **or** the north latitude and west longitude (in degrees, minutes, and seconds) of the property where the burn will be conducted.
4. Fire Agency: Provide the name of the fire agency that has jurisdiction at the burn site. The three fire agencies with jurisdiction in the Suisun Marsh are the Cordelia, Montezuma, and Suisun Fire Protection Districts.
5. County: Enter the county where the burn will be conducted.
6. Burn Applicant's Name: Provide the complete name of the person who will be conducting the burn.
7. Burn Applicant's Phone Number: Enter the phone number of the person who will be conducting the burn.
8. Burn Applicant's Address: Enter the mailing address of the person who will be conducting the burn.
9. Field Contact Name: Provide the name of the person who can be reached by phone at the burn site or on the property during the burn.
10. 24-Hour Phone Number: Provide the phone number of the field contact or person responsible for the burn who can be reached at any time on a day when burning occurs.
11. Burn Season: Indicate whether you plan to burn during the fall burning period (September 1 through October 15) and/or the spring burning period (February 1 through March 31), and during what calendar year.
12. Proposed Maximum Number of Acres To Be Burned Per Day: Indicate the maximum number of acres you are proposing to burn on any given day.
13. Specify Number of People on Burn Site: Indicate how many people will be on the property prior to and during burning to document surface wind conditions, observe smoke behavior, and to ignite, maintain control of, and extinguish the fire.
14. Vegetation Types to Be Burned: (a) enter the estimated number of acres to be burned by vegetation type (i.e., tall emergent, low emergent, and upland grasslands). (b) for each vegetation type, characterize the arrangement of the vegetation, expressed as average percent cover and average height.

Example: Let's say that you are planning to burn 20 acres of tall emergent vegetation, and you estimate that 25% of the acreage is covered with vegetation with an average height of 5 feet and the remaining 75% is covered with vegetation with an average height of 9 feet. To provide the information from this example, enter '20' as the number of acres in the "tall emergent" vegetation type section of the SMP form. Then, in the same section, check the "1 to 5 ft" box on the line that

indicates 0-25% coverage and the “8 to 10 ft” on the line that indicates 52-75% coverage.

15. Specific Resource Management Objective(s) and Goal(s) of Burn: Describe the resource management objectives and goals of the burn you are proposing.
16. Consideration of Non-Burning Alternatives: Indicate whether any alternatives to burning have been considered or tried to achieve the resource management objectives and goals of your property. If “yes”, explain the extent and success of your efforts. If “no”, explain why alternatives to burning were not considered or tried.
17. Burn Site Preparation: Describe what preparations to the burn site you will complete prior to burning to minimize the risk of an “out of control” fire, adverse smoke impacts, and of exceeding burn acreage and burn hour limits.
18. Ignition Technique To Be Used: Describe the technique and materials you are planning to use to ignite the fire.
19. Contingency Actions or Measures - Smoke Impacts: Describe what actions **will be taken** if smoke from the fire adversely impacts any sensitive receptor area. This information may include your ability to extinguish the fire with equipment on the property or with assistance from a fire protection agency.  
  
**Note: “Sensitive receptor areas” are populated areas such as towns or cities, major roads, hospitals, schools and airports.**
20. Other Contingency Actions or Measures: Describe what actions **will be taken** if the fire is declared “out of control” or continues to advance after 3:00 p.m., or a peat fire is ignited and continues to burn after 3:00 p.m.
21. Range of Surface Wind Conditions: Provide a proposed range of surface wind directions and a minimum and maximum wind speed range for the time of year under which burning is to be conducted. Note: This weather prescription **must be present** prior to ignition and the prescription **must be verified** during any burning.
22. Method of Estimation and Interval of Weather Observations: (a) describe the method you are planning to use to determine the surface wind speed and wind direction prior to ignition; and (b) indicate how frequently you will verify the wind conditions at the burn site during the fire (hourly, ½ hour, etc.).
23. Distance and Directions to Sensitive Receptor Areas: (a) identify **all** sensitive receptor areas within a 10-mile radius from the burn site; and (b) provide the distance(s) in miles and the compass direction(s) from the burn site to **each** sensitive receptor area identified.

Landowner’s Certification: To complete the SMP, a landowner of the property where the burn is proposed must certify that the information submitted is complete and accurate. To certify the information, the landowner should sign and print their name, and include their phone number, mailing address and the certification date.