PHASE 2 SOIL FUMIGATION MANAGEMENT PLAN
(CHLOROPICRIN/1,3-DICHLOROPROPENE PRODUCTS)

FMP Elements:
I. Certified Applicator Supervising the Application
II. General Site Information
III. Application Block Owner Information
IV. Recordkeeping
V. General Application Information
VI. Buffer Zones
VII. Emergency Response Plan
VIII. Communication Between Applicator, Owner and Other On-site Handlers
IX. Handler Information
X. Enclosed Cabs
XI. Tarp Plan
XII. Soil Conditions
XIII. Posting Signs – Fumigant Treated Area and Buffer Zone
XIV. Emergency Preparedness and Response Measures
XV. State and/or Tribal Lead Agency Advance Notification
XVI. Air Monitoring Plan
XVII. Good Agricultural Practices (GAPs)

Attachments:
Check the boxes if the information below is attached as a separate document to the FMP.
☐ Site map, aerial photo or detailed sketch
☐ Description of evacuation routes (this can be included in the site map)
☐ Written agreement, if the buffer zone extends onto land not under the control of the owner of the application block
☐ Handler Information (Use EPA’s Microsoft Word or PDF template)
☐ GAPs
☐ Other: ____________________________
| I. Certified Applicator Supervising the Application |
|----------------------------------|---------------------------------|---------------------------------|-----------------|-----------------|
| Name:                            | Phone number:                   | License and/or certificate number: | □ Commercial applicator | □ Private applicator |
| Employer name:                   | Employer address:               |                                 |                 |                 |
| Date and location of completing EPA approved certified applicator training program: |                                 |                                 |                 |                 |

<table>
<thead>
<tr>
<th>II. General Site Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application block location (e.g., county, township-range-section quadrant), address, or global positioning system (GPS) coordinates:</td>
</tr>
</tbody>
</table>

- 1,3-Dichloropropene has not been used on this application block in the previous two years.

- There are no occupied structures within 100 feet of the application block during the seven consecutive days after the application.

- Site map, aerial photo attached to the FMP or detailed sketch provided below that shows (application block location, application block dimensions, buffer zone dimensions, property lines, roadways, rights-of-ways, sidewalks, permanent walking paths, bus stops, wells, karst topography, nearby application blocks, surrounding structures (occupied and non-occupied), locations of Buffer Zone signs, and locations of difficult to evacuate sites within ¼ mile of the application block if the buffer zone is greater than 300 feet, or 1/8 mile if the buffer zone is 300 feet or less).

Comments:
### III. Application Block Owner Information

<table>
<thead>
<tr>
<th>Name:</th>
<th>Address:</th>
<th>Phone number:</th>
</tr>
</thead>
</table>

### IV. Recordkeeping

- The owner of the application block has been informed that he/she as well as the certified applicator must keep a signed copy of the site-specific FMP and the post-application summary for 2 years from the date of application.

### V. General Application Information

<table>
<thead>
<tr>
<th>Target application date/window:</th>
<th>EPA Registration Number:</th>
<th>Fumigant Product Name:</th>
</tr>
</thead>
</table>

### VI. Buffer Zones

<table>
<thead>
<tr>
<th>Application method:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tarp strip</td>
</tr>
<tr>
<td>Tarp bedded</td>
</tr>
<tr>
<td>Tarp broadcast</td>
</tr>
<tr>
<td>Untarp bedded</td>
</tr>
<tr>
<td>Untarped broadcast</td>
</tr>
<tr>
<td>Deep untarped broadcast</td>
</tr>
<tr>
<td>Tarp drip</td>
</tr>
<tr>
<td>Hand held probes (tree hole)</td>
</tr>
<tr>
<td>Multiple crop under a previously perforated tarp</td>
</tr>
</tbody>
</table>

| Application Rate from the buffer zone table on the label, (if the rate used is not in the buffer zone table, round up to the next value): |
| Injection Depth (inches): |
| Application Block Size from the buffer zone table on the label, (if the block size is not in the buffer zone table, round up to the next value): |

Credit applied and measurements taken (if applicable):

- **Tarp:** _____ %
  - Brand name and tarp manufacturer:
  - Lot number:
  - Batch number:
  - Part number:
  - Thickness:
  - Color:

- **Symmetry™ application system:** _____ %

- **Potassium thiosulfate:** _____ %

- **Water seal:** _____ %

- **Organic matter content:** _____ (measurement), _____ %

- **Clay content:** _____ (measurement), _____ %

- **Soil temperature:** _____ (measurement), _____ %

| Total credits: | _____ % |

| Buffer zone distance: |

Are there areas in the buffer zone that are not under the control of the owner of the application block?  
- Yes  
- No

If yes, describe the areas and attach the written agreement to the FMP.
### VII. Emergency Response Plan

Description of evacuation routes (a diagram or drawing may be attached to the FMP):

- [ ] Check here if diagram or drawing is attached or if evacuation routes are included in the site map.

Locations of telephones:

<table>
<thead>
<tr>
<th>Contact information for first responders</th>
<th>Local/state/federal contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Emergency procedures/responsibilities in case of an incident, sensory irritation is experienced outside of the buffer zone and/or there are equipment/tarp/seal failure, complaints or other emergencies:

<table>
<thead>
<tr>
<th>IV. Communication Between Applicator, Owner, and Other On-site Handlers</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ ] Pesticide product labels and material safety data sheets are at the application block and available for employees to review.</td>
</tr>
</tbody>
</table>

Will the certified applicator be at the application site during all handler activities that take place after the application is complete until the entry restricted period expires?  
- [ ] Yes  
- [ ] No

If no, describe how the certified applicator will share the label requirements with the owner and/or handlers who will be present at the application block after the application is complete until the entry restricted period expires. Include the name and phone number of persons contacted as well as the date they were contacted.

### IX. Handler Information  
(Use EPA’s Microsoft Word or PDF version of the handler information template)

<table>
<thead>
<tr>
<th>Information for all handlers is attached to the FMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ ] Handlers have the proper respirators and cartridges/canisters</td>
</tr>
<tr>
<td>[ ] Appropriate respirators and cartridges/canisters are available for each handler that will wear one</td>
</tr>
</tbody>
</table>

Comments/notes:
**X. Enclosed Cabs** (check here if section is not applicable)

Check boxes below once the information has been verified

- Positive pressure is 6 mm H₂O Gauge
- Minimum air intake flow is 43 m³/hour
- Enclosed cab is equipped with activated charcoal filter-media containing no less than 1000 grams of activated charcoal
- Ventilation system is maintained according to manufacturer’s instructions

Record the hours of application time for the filter:

**XI. Tarp Plan** (check here if section is not applicable)

Schedule for checking tarps for damage, tears, and other problems:

Minimum size of damage that will be repaired:

Factors used to determine when tarp repair will be conducted:

Equipment/methods used to perforate tarps:  
- mechanical: _________  
- hand: _________

Target dates for perforating tarps:

Target dates for removing tarps:

Is this a multiple crop application under a previously perforated tarp?  
- Yes  
- No

**XII. Soil Conditions**

Soil texture:

**Soil Temperature:** Has the air temperature been above 100°F in any of the 3 days prior to application?  
- Yes  
- No

(If yes, record the soil temperature measurement:

**Soil Moisture:** (check the box of the method used to determine the soil moisture)

- USDA Feel and Appearance Method
- Instrument
- Other

Description of soil:  
Instrument used:  
Describe method:

Percent water capacity estimate:  
Percent water capacity:  
Percent water capacity:

**XIII. Posting Signs – Fumigant Treated Area and Buffer Zone**

Name(s) of person(s) posting and removing Fumigant Treated Area and Buffer Zone signs:

Location of Buffer Zone signs:
**XIV. Emergency Preparedness and Response Measures** (check here if section is not applicable □)

If Emergency Preparedness and Response Measures are triggered, check the option below that will be used:

- [ ] Fumigant site monitoring  or  [ ] Response information for neighbors

<table>
<thead>
<tr>
<th>Fumigant site monitoring (if applicable)</th>
<th>Response information for neighbors (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>List when and where it will be conducted:</td>
<td>List residences and businesses informed:</td>
</tr>
</tbody>
</table>

Name and phone number of person providing the information:

List the method of providing the information:

**XV. State and/or Tribal Lead Agency Advance Notification** (check here if section is not applicable □)

Date notified:

Person notified:

**XVI. Air Monitoring Plan**

If monitoring indicates air concentrations greater than or equal to 1.5 ppm for chloropicrin, handlers must stop work and leave the application block.

If sensory irritation is experienced check which of the following be procedures will be followed:

- [ ] Intend to cease operations  or  [ ] Intend to continue operations with respiratory protection

<table>
<thead>
<tr>
<th>Handler Tasks to be Monitored</th>
<th>Monitoring Equipment</th>
<th>Timing</th>
</tr>
</thead>
</table>
XVII. Good Agricultural Practices (GAPs)

☐ Check here if applicable mandatory GAPs are attached to the FMP (this could be a copy of the label highlighting the applicable GAPs). If this box is not checked, the checklist below must be completed.

**General**

☐ Tarps
☐ Weather Conditions
☐ Soil Preparation
☐ Soil Sealing

**Bedded and Broadcast Shank Applications**

☐ Tarps
☐ Soil Preparation
☐ Soil Temperature
☐ Soil Moisture
☐ Application Depth
☐ Prevention of End Row Spillage
☐ Calibration, Set-up, Repair, and Maintenance for Application Rigs

**Drip Irrigation Applications**

☐ Tarps
☐ Soil Preparation
☐ Soil Temperature
☐ Soil Moisture
☐ System Controls and Integrity
☐ Site of Injection and Irrigation System Layout
☐ System Flush
☐ Soil Sealing
☐ Pre-Plant Soil Fumigation in Greenhouses

**Tree Replant Application Using Handheld Equipment**

☐ Soil Preparation
☐ Application Depth
☐ System Flush
☐ Soil Sealing

Description of other product specific GAPs from label that will be followed:

Before beginning the fumigation, I have verified that this site-specific FMP reflects current site conditions and product label directions.

_____________________________________________                              ________________________________
Signature of certified applicator supervising the application                   Date
<table>
<thead>
<tr>
<th>Handler Name, Address, and Phone Number</th>
<th>Employer Name, Address, and Phone Number</th>
<th>Tasks Handlers are Trained and Authorized to Perform* (check number(s) from below)</th>
<th>PPE (check all that apply)</th>
<th>Respirator Information (leave blank if “no respirator” is checked under PPE)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1 Long-sleeved shirt/long-pants, shoes, socks</td>
<td>Make:</td>
<td>Make:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 Chemical-resistant apron</td>
<td>Model:</td>
<td>Model:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 Chemical-resistant footwear and socks</td>
<td>Style:</td>
<td>Style:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4 Protective eyewear (NOT goggles)</td>
<td>Size:</td>
<td>Size:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 Chemical-resistant gloves</td>
<td>Cartridge/canister type:</td>
<td>Cartridge/canister type:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6 Chemical-resistant suit</td>
<td>Fit test date:</td>
<td>Fit test date:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7 Chemical-resistant headgear</td>
<td>Training date:</td>
<td>Training date:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8 Half-mask air-purifying respirator</td>
<td>Medical qualification date:</td>
<td>Medical qualification date:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9 Full-face air-purifying respirator</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>10 Self contained breathing apparatus</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>11 Other:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>No respirator</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>PPE training date:</td>
<td></td>
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</table>

The above handler has received Fumigant Safe Handling Information within the past 12 months.

*1. Loaders, drivers, tractor co-pilots, shovelfers, cross-ditchers, or other direct application participants
2. Cleaning up fumigant spills (does not include emergency personnel not associated with the application)
3. Tasks with liquid contact potential
4. Installing, perforating or removing tarps
5. Repairing, or monitoring tarps until 14 days after the application is complete if tarps are not perforated and removed during those 14 days.
6. Monitoring fumigant air concentrations
7. Handling or disposing of fumigant containers
8. Cleaning, handling, adjusting, or repairing equipment that may contain fumigant residues
9. Installing, repairing, operating, or removing irrigation equipment in the application block or buffer zone
10. Performing scouting, crop advising, or monitoring tasks in the application block or buffer zone
11. Performing other WPS handling tasks

Comments/notes: