San Joaquin Valley Air Pollution Control District
Supplemental Application Form

**Cannabis Manufacturing/Processing**

*This form must be accompanied by a completed Authority to Construct/Permit to Operate Application form. The Authority to Construct/Permit to Operate Application form as well as other supplemental forms can be found here: [https://www.valleyair.org/busind/pto/ptoforms/1ptoformidx.htm](https://www.valleyair.org/busind/pto/ptoforms/1ptoformidx.htm)*

| PERMIT TO BE ISSUED TO |
| LOCATION WHERE THE EQUIPMENT WILL BE OPERATED |

## PROCESS DESCRIPTION

<table>
<thead>
<tr>
<th>Manufacturing License Classification</th>
<th>Type P: Packaging/repackaging</th>
<th>Type N: Edibles, infusions and other non-extraction products</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Type 6: Non-volatile extraction</td>
<td>Type 7: Volatile extraction</td>
</tr>
</tbody>
</table>

Please provide a process flow diagram, a description of the manufacturing/processing operation, and detailed list of all equipment used on site.

### Extraction Method

#### Mechanical Extraction

- Screens
- Presses
- Other*

#### Chemical Extraction: Non-Volatile

- Carbon Dioxide (CO$_2$)
- Water
- Vegetable Glycerin
- Vegetable Oil
- Animal Fat
- Food-Grade Glycerin
- Other*:

#### Chemical Extraction: Volatile

- Butane
- Hexane
- Propane
- Isopropyl Alcohol
- Ethanol
- Other*:

*If marked, please specify below with a detailed description of the extraction method as required by the manufacturing license application in 17 CCR §40220.b.

<table>
<thead>
<tr>
<th>Max quantity of extract solvent used per extraction cycle:</th>
<th>___________ gallons/day</th>
<th>___________ gallons/year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max number of extraction cycles:</td>
<td>___________ cycles/day</td>
<td>___________ cycles/year</td>
</tr>
</tbody>
</table>

### Post Extraction Refinement/Purification

Please provide a detailed process description of any post extraction refinement/purification processes:

<table>
<thead>
<tr>
<th>Type of solvent(s) used:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Max quantity of processing solvents used:</th>
<th>___________ gallons/day</th>
<th>___________ gallons/year</th>
</tr>
</thead>
</table>

### Cleaning Solvents

<table>
<thead>
<tr>
<th>Ethanol</th>
<th>Isopropyl Alcohol</th>
<th>Acetone</th>
<th>Other:</th>
<th>(Note: Provide details)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Max quantity of cleaning solvents used:</th>
<th>___________ gallons/day</th>
<th>___________ gallons/year</th>
</tr>
</thead>
</table>
**VOC/ODOR CONTROL EQUIPMENT DESCRIPTION**

### Scrubber Details

Operations that this control equipment serves:

- [ ] Dry Scrubber  
- [ ] Other type of scrubber (please provide details):

- [ ] Wet Scrubber  
- [ ] Other type of scrubber (please provide details):

**Operations that this control equipment serves:**

- Packed Bed  
- Orifice  
- Condensation Scrubbing  
- Tray/Plate  
- Spray Chamber  
- Venturi

**Select Type(s) of Wet Scrubber**

- Packed Bed
- Orifice
- Condensation Scrubbing
- Tray/Plate
- Spray Chamber
- Venturi

**Manufacturer’s guaranteed control efficiency:**________%  
**Please provide additional details per manufacturer’s recommendations to ensure control efficiency.**

### Adsorption Details

Operations that this control equipment serves:

- Manufacturer:  
- Model:  
- Weight of primary canister(s): ________ lb (each)  
- Weight of final canister: ________ lb

**Type of Adsorbent:**

- [ ] Granulated activated carbon  
- [ ] Synthetic adsorbent  
- [ ] Other: ____________ (Note: Provide details)

**Adsorbent capacity:** ____________ (lb vapor/lb adsorbent)

**Number of canisters:**  
**Manufacturer’s guaranteed control efficiency:**________%  
**Note:** Prior to the last canister, the system must be able to withstand 7 days of operation without VOC breakthrough.

### Thermal/ Catalytic Oxidizer Details

Operations that this control equipment serves:

- Manufacturer:  
- Model:  
- Supplemental Heat: [ ] Natural Gas _______ MMBtu/hr,  
  [ ] LPG _______ MMBtu/hr,  
  [ ] Electric _______ kVA

**Oxidizer temperature:** _______ ºF  
(Note: Thermal oxidizer temperature must be at least 1,400 ºF, catalytic oxidizer temperature must be at least of 600 ºF)

**Is a continuous exhaust temperature-recording device present?** [ ] Yes  
[ ] No  
(Note: A continuous temperature-recording device or an automatic shutdown system is required.)

**Oxidizer retention time:** _______ sec  
(Note: The retention time must be at least 0.5 seconds.)

### Other

Describe (provide additional sheets as necessary):

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**HEALTH RISK ASSESSMENT DATA**

<table>
<thead>
<tr>
<th>Operating Hours</th>
<th>Maximum Operating Schedule: ________ hours per day, and ________ hours per year</th>
</tr>
</thead>
</table>

### Receptor Data

**Distance to nearest Residence** ________ feet  
**Direction to nearest Residence**  
**Distance to nearest Business** ________ feet  
**Direction to nearest Business**  
**Distance is measured from the proposed stack location to the nearest boundary of the nearest apartment, house, dormitory, etc.**

**Direction from the stack to the receptor, e.g. Northeast or South.**

**Distance is measured from the proposed stack location to the nearest boundary of the nearest office building, factory, store, etc.**

**Direction from the stack to the receptor, e.g. North or Southwest.**

### Stack Parameters

**Release Height** ________ feet above grade  
**Stack Diameter** ________ inches at point of release  
**Rain Cap**  
- [ ] Flapper-type  
- [ ] Fixed-type  
- [ ] None  
- [ ] Other: ____________

**Direction of Flow**  
- [ ] Vertically Upward  
- [ ] Horizontal  
- [ ] Other: ________ ° from vert. or ________ ° from horiz.

### Exhaust Data

**Flowrate:** ________ scfm  
**Temperature:** ________ ºF

### Facility Location

- [ ] Urban (area of dense population)  
- [ ] Rural (area of sparse population)

**Include a facility plot plan showing the location of the stack. Please indicate North on the plot plan. For public notice projects, indicate on plot plan the facility boundaries or fence line and distance(s) from stack to boundaries.**