Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

Operating Plan Supplemental
Form MJ-04: Marijuana Cultivation Facility

What is this form?

This operating plan supplemental form is required for all applicants seeking a marijuana cultivation facility license and must accompany the **Marijuana Establishment Operating Plan (Form MJ-01)**, per 3 AAC 306.020(b)(11). Applicants should review **Chapter 306: Article 4** of the **Alaska Administrative Code.** This form will be used to document how an applicant intends to meet the requirements of those regulations. If your business has a formal operating plan, you may include a copy of that operating plan with your application, but all fields of this form must still be completed per 3 AAC 306.020 and 3 AAC 306.420(2).

What additional information is required for cultivation facilities?

Applicants must identify how the proposed establishment will comply with applicable regulations regarding the following:

- Prohibitions
- Cultivation plan
- Odor control
- Testing procedure and protocols
- Security

This form must be submitted to AMCO's main office before any marijuana cultivation facility license application will be considered complete.

Section 1 – Establishment Information

Enter information for the business seeking to be licensed, as identified on the license application.

Licensee:	Terra House, LLC.	**License Number:**	10086		
License Type:	Limited Marijuana Cultivation Facility				
Doing Business As:	Terra House, LLC.				
Premises Address:	48714 Jones Rd.				
City:	Soldotna	**State:**	ALASKA	**ZIP:**	99669-9387

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Section 2 – Prohibitions

Applicants should review 3 AAC 306.405 – 3 AAC 306.410 and be able to answer "Agree" to all items below.

The marijuana cultivation facility will not:	Agree	Disagree
Sell, distribute, or transfer any marijuana or marijuana product to a consumer, with or without compensation	■	☐
Allow any person, including a licensee, employee, or agent, to consume marijuana or marijuana product on its licenses premises or within 20 feet of the exterior of any building or outdoor cultivation facility	■	☐
Treat or otherwise adulterate marijuna with any organic or nonorganic chemical or compound to alter the color, appearance, weight, or odor of the marijuana	■	☐

Section 3 – Cultivation Plan

Review the requirements under 3 AAC 306.420, and identify how the proposed premises will meet the listed requirements.

Describe the size of the space(s) the marijuana cultivation facility intends to be under cultivation, including dimensions and overall square footage. Provide your calculations below:

The proposed premises will be a limited marijuana cultivation facility, and will adhere to the 500 square foot canopy limitation as set forth below:

The actual grow will be 499 square feet.

The facility will occupy a space originally intended to be a two-car garage in a single family dwelling. Dimensions of the space being designated as the proposed facility are 26' 8" x 29" (775.75 Sq Ft.)

The 500 square foot of canopy allowed for a limited cultivation facility, will be divided between two separate rooms; the first measuring 29' x 11' (319 Sq Ft.) for blooming of marijuana flower. The second room will measure 14.6' x 12' 4" (180 Sq Ft.), and will be utilized for vegetative growth.

The balance of the space (225 Sq Ft.) will be divided between a small anteroom to isolate the residence from the facility, and work/ processing space.

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Describe the marijuana cultivation facility's growing medium(s) to be used:

Growing medium will consist of a commercially available mix of aged forest products (compost), sphagnum moss, Pacific Northwest Sea-going fish emulsion, crab meal, earthworm castings, sandy loam, perlite, fossilized bat guano, granite dust, Norwegian kelp moss, oyster shell, vermiculite, and limestone.

Describe the marijuana cultivation facility's fertilizers, chemicals, gases, and delivery systems, including carbon dioxide management, to be used:

Advanced Nutrients line of fertilizers are to be used in the proposed cultivation facility.

"X-Factor" is 0.5% Water Soluble Magnesium.
"Sensizym" is 10 units/ml Beta-Glucanase, 850 units/ml Cellulase, 200 units/ml Xylanase. "Sensi Cal Mag Xtra" is 4% Nitrate Nitrogen (N), 3.2% Calcium (Ca), 1.1% Water Soluble Magnesium (Mg), .09% Chelated Iron (Fe), .05% Chelated Manganese (Mn), .05% Chelated Zinc. (Zn).
"Big Bud" is 1% Available Phosphates, 3% soluble Potash.
"pH Perfect Connoisseur Bloom (part A)" is is 2.5% Nitrate Nitrogen, .5% Urea Nitrogen, 2.2% Calcium, 0.7% Water Soluble Magnesium.
"pH Perfect Connoisseur Bloom (part B)" is .05% Ammoniacal Nitrogen, 1.95% Nitrate Nitrogen,4% Available Phosphate, 10% Soluble Potash, 0.4% Sulfur

All nutrient solutions will be titrated into use specific batches according to the requirements of the crop.

Carbon Dioxide will be augmented by use of myoculture bags that generate and release CO_2 over time by decomposing wood chips with a fungus.

Pests will be controlled by means of Prevention. Should the need arise to treat plants for common pests the chemicals to be used are:

"SM-90" - 1% Coriander Oil, 94% Sulphonated Canola Oil Solution, 5% Triethanolamine. Used as a wetting agent, SM-90 is diluted to 2-3mL per gal of water. Product can also be diluted with 5 parts water to 1 part SM-90, and used as foliage spray to treat for flying insects and larvae.
"Monterey Neem Oil-RTU (Ready to use)" - 0.9% Clarified Hydrophobic extract of Neem Oil, 99.1% Other Ingredients. (EPA Reg. No. 70051-13-54705). Product can be used to treat both foliage and water runoff to prevent insect larvae from maturing.
"Clean Air Purge III, CB Flying Insect" - 0.975% Pyrethrins, 1.95% Piperonyl Butoxide, technical, 3.050% N-octyl bicycloheptene diarboximide, 94.025% Inert Ingredients (EPA Reg No. 9444-158 & 9444-LA-1) Product will be delivered via aerosol spray to areas around growing plants.

Describe the marijuana cultivation facility's irrigation and waste water systems to be used:

The irrigation system to be used in the proposed cultivation facility is designed to minimize waste. All excess run off from plants will be collected in collection containers, reused and any remainder will be allowed to evaporate. Plants will be watered by means of hand watering, water can, or by means of a reservoir fed, timer controlled, metered drip emitter style system.

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Describe the marijuana cultivation facility's waste disposal arrangements:

All marijuana waste will be mixed and mulched with household garbage consisting of paper and food products in a 50/50% ratio and made unusable. Once this is done, the mulched material will be reused again in home gardens etc. Alaska Waste is also willing to take the mulched product once the material has been rendered unusable per statute and allowed to be disposed of under the rules pertaining to disposal of marijuana once rendered unusable.

Section 4 – Odor Control

Review the requirements under 3 AAC 306.430, and identify how the proposed premises will meet the listed requirement.

Describe the odor control method(s) to be used and how the marijuana cultivation facility will ensure that any marijuana at the facility does not emit an odor that is detectable by the public from outside the facility:

Canister style, activated carbon filters will be utilized in conjunction with ducted fans within the proposed cultivation facility to prevent any marijuana odor from being detected by the public. Ozone generators will be utilized near exits to mitigate any unwanted smell from exiting the facility.

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Section 5 – Testing Procedure and Protocols

Review the requirements under 3 AAC 306.455 and 3 AAC 306.465, and identify how the proposed premises will meet the listed requirements.

Applicants should be able to answer "Agree" to the item below.

I understand and agree that:	Agree	Disagree
The board will or the director shall from time to time require the marijuana cultivation facility to provide samples of the growing medium, soil amendments, fertilizers, crop production aids, pesticides, or water for random compliance checks	■	☐

Describe the testing procedure and protocols the marijuana cultivation facility will follow:

Upon notification that the board or the director require samples for random compliance checks of the proposed facility, a licensee or an authorized agent of the proposed facility will notify an independent testing laboratory (of the states' choice if applicable) to send a representative to collect the required samples. This way, a chain of custody is established, and the possibility of unintentional contamination due to improper sample collection practices is minimized.

All marijuana product batches will be tested for a battery of state required impurities and/or contaminants by a state licensed lab in accordance with 3 AAC 306.455. The facility will collect random samples from homogeneous batches of individual strains of bud or flower in the amount required by the selected testing facility.

We will further select homogeneous samples from our limited cultivation facility for random testing during our growing cycles in order to ensure the highest of quality of standards are met.

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Section 6 – Security

Review the requirements under 3 AAC 306.430 and 3 AAC 306.470 – 3 AAC 306.475, and identify how the proposed premises will meet the listed requirements.

Applicants should be able to answer "Agree" to the two items below.

The marijuana cultivation facility applicant has:	Agree	Disagree
Read and understands and agrees to the packaging of marijuana requirements under 3 AAC 306.470	■	☐
Read and understands and agrees to the labeling of marijuana requirements under 3 AAC 306.475	■	☐

Restricted Access Area (3 AAC 306.430):

	Yes	No
Will the marijuana cultivation facility include outdoor production?	☐	■

If "Yes", describe the outdoor structure(s) or the expanse of open or clear ground fully enclosed by a physical barrier:

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Describe the method(s) used to ensure that any marijuana at the marijuana cultivation facility cannot be observed by the public from outside the facility:

The proposed facility is designed to be a completely indoor growing cultivation facility. There will be no direct outside access from the designated growing area. No marijuana will ever be visible to the public.

I certify that as a marijuana cultivation facility, I will submit monthly reports to the Department of Revenue and pay the excise tax required under AS 43.61.010 and 43.61.020 on all marijuana sold or provided as a sample to a marijuana establishment, as required under 3 AAC 306.480.

I declare under penalty of perjury that I have examined this form, including all accompanying schedules and statements, and to the best of my knowledge and belief find it to be true, correct, and complete.

Signature of licensee

MICHAEL J. LOWRY
Printed name

Subscribed and sworn to before me this 8 day of August, 20 16.

Notary Public
EILEEN MAPES
State of Alaska
My Commission Expires May 16, 2020

Notary Public in and for the State of Alaska.

My commission expires: 5-16-20

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(Additional Space as Needed):