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:	Last Frontier Joint Operations LLC.	**License Number:**	11957		
License Type:	Standard Marijuana Cultivation Facility				
Doing Business As:	Last Frontier Joint Operations LLC.				
Premises Address:	7180 Ravilla rd. suite 101				
City:	Ketchikan	**State:**	ALASKA	**ZIP:**	99901

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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 area to be under cultivation will start with the first flower room at 25 ft x 45 ft totaling 1,125 sq ft. Second is an identical flower room 25 ft x 45 ft totaling 1,125 sq ft. Next is the vegetative room 17 ft x 24 ft totaling 408 sq ft. Last is the propagation room 8 ft x 17 ft totaling 136 sq ft. the total for our intended cultivation space will be 2794 sq ft.

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

The marijuana cultivation facilities growing medium(s) to be used will consist of; hydroton expanded clay pebbles, peat moss, coconut coir, perlite, worm castings, and bat guano.

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

The marijuana cultivations facilities fertilizers will all be meant for human consumption and are all well known industry regular. We will use Advanced nutrients,Gro High Cal, Hygrozyme, Cultured Solutions,Hi-Brix plant molasses, Techna Flora, Dutch Master, Clonex rooting supplements, Budswell, Roots Organic, cyco solutions and Heavy 16. Each of these nutrient lines are well known, international brands, common to the industry. None of the chosen nutrient lines contain any banned substances (not for human consumption, or progressive growth regulators). These substances are responsible for many recalls of marijuana in washington and colorado. All viable information provided by the manufacturers on breakdown, health and safety is on the manufactures websites. Chemicals to be used in the cultivation facility will be limited to a minimum and mostly listed organic. see additional space

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

Our planned irrigation system will start with 1in. PVC pipe attached to 1/2 hp flotec pumps in 55 gallon drums. These 55 gallon drums will be filled with watering hose by hand. Each PVC pipe will run through the plants and 3/16 in. black irrigation line will be plumbed to individual plants. We also have a under current hydroponic system. In this system water is contained in 32 gallon tubs and flows from one to another through 3 inch PVC and returned by a 7200 gph pump. By carefully monitoring and proper scheduling we will significantly decrease our runoff and wastewater created. All large quantities of runoff will be captured by the grow areas floor and pumped into 375 gallon tanks for testing and filtration. Most wastewater will be filtered and reused within the cultivation facility, any unusable will be properly disposed of by a third party handler of contaminated water meeting all local and state regulations. see add. space 2

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(Additional Space as Needed):

1. Neem oil, aloe vera extract. Gas(es) to be used will be a industry normal of Co2 (carbon dioxide).Delivery systems to be used is a common propane burner with some units to be water cooled. The main systems to be used will be 10 burner titan control brand Co2 generators. Specs LP =22,630 BTU/hr with dual redundant solenoid to control gases. Durable powder coated chassis for hydroponic environment. Brass gas burner resistant to rust. Built in tip over switch defeats gas source in case of earthquake or fall. We will regulate these burners with digital Co2 monitors(atlas 8/10 Co2 digital control monitor by titan control) this will disable the device once a set point is achieved.

2. We will also have a septic system capable of handing the water usage of the facility and grow room facility runoff or waste not meeting local and state laws will not be disposed of using the septic.

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Our solid waste agreements include an industrial chipper and a 2500 gallon locking roll away container to be chipped into. This chipped marijuana bi product will then be mixed with equal parts grow medium to be deemed unusable. We have made an arrangement with Ketchikan solid waste facility to depose of this material If needed. We also have made an arrangement with a wood pellet manufacturer in Ketchikan to supply us with chipped wood bi product to mix with our marijuana waste and be returned to him to be made into wood pellet fuel. In addition we may compost the marijuana and grow media for reuse in the facility or sale.

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Describe the marijuana cultivation facility's waste disposal arrangements:

Our marijuana cultivation facilities waste disposal arrangements are for any discharge into the public sewer will meet all local and state regulations including ph between 6-9 and no high measurements of commercial growing nutrients. Any runoff deemed unfit for disposal in the sewer will be filtered, stored or reused in the facility. If necessary we will contract with a third party(such as pacific waste anchorage AK) waste disposal company to dispose of any unusable water.

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:

Our facility will ensure any marijuana at the facility will not emit an odor that is detectable by the public from the outside by the use of filters filled with granular activated carbon(GAC). This is an industry standard and used by chemical production facilities reduce toxic odors produced. The filters to be used will be similar to CAN 150 (60in x 16.5in) with 12 inch in-line fans (1440 cfm). These fans draw contaminated air through the GAC and releasing clean, fresh air back into the facility. We will follow all manufacturing recommendations on square footage requirements and scheduled replacement.

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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:

The testing procedure protocols the marijuana cultivation facility plans to implement will be first designating an individual responsible for collecting the random sample. That individual will prepare a signed statement showing that each sample has been randomly selected for testing. A copy will be provided to the marijuana testing facility and the cultivation facility will also keep a copy for records. After the the sample is taken it will be transported in compliance with 3 ACC 306.750. Then the entire batch will be segregated from which the testing sample was selected until the testing facility reports the results from the tests. During this period of segregation, our facility will maintain the batch in a secure, cool, and dry location prevent the marijuana from being contaminated or losing its efficacy. We will not sell or transport any marijuana from the segregated batch until the marijuana testing facility has completed its testing and provided those results, in writing, to the marijuana cultivation facility. We will then maintain the testing results as a part of its business books and records.

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We will meet all requirements of 3 AAC 306.465. by allowing any agent of the board or prescribed testing facility immediate access to all areas of the cultivation facility for random sampling.

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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:

There will be no windows or doors with windows entering any part of the facility that produce or process marijuana. In addition the property is private property and will be posted as such and only employees of the company will be allowed on the property.

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

Mike Keiser

Printed name

Subscribed and sworn to before me this 12 day of FEB, 2017

NOTARY PUBLIC
CLYDE PASTERSKI
STATE OF ALASKA
My Commission Expires September 1, 2019

Notary Public in and for the State of Alaska.

My commission expires: 09.01.2019

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