



## MEMORANDUM

TO: Chair Mlynarik and Members of the  
Board

DATE: September 14, 2017

FROM: Erika McConnell, Director

RE: Greatland Ganja #10015  
Standard Cultivation Facility

Greatland Ganja is requesting an operating plan change to increase their total area under cultivation and update their list of fertilizers, chemicals gases, delivery systems, and CO2. A corresponding MJ-14 to add a new greenhouse to their licensed premises was approved by me on August 10, 2017.

This license was first approved with delegation by the Board on June 9, 2016, and became effective on August 2, 2016.



**From:** Christina Thibodeaux  
**To:** [Marijuana Licensing \(CED sponsored\)](#)  
**Cc:** [Jana Weltzin](#); [Valerie Mastolier](#); [Leif Abel](#); [Greatland Ganja](#)  
**Subject:** #10015 Greatland Ganja - MJ-15 Operating Plan Change  
**Date:** Friday, July 21, 2017 10:48:06 AM  
**Attachments:** [10015 Cover Sheet for MJ-15.pdf](#)  
[10015 MJ-15 Operating Plan Change Greatland Ganja.pdf](#)

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Good Morning Mark and Jane,

Please find attached an operating plan change form for Greatland Ganja #10015. Below is an explanation of the changes:

MJ-04, pg 2 - Total area under cultivation is amended to reflect the addition of a Rimol greenhouse (a MJ-14 form has been sent to the KPB for approval)

MJ-04, pg 3 – update to list of fertilizers, chemicals, gases, delivery systems and CO2

We would like to request temporary approval from the Director of the changes not related to the MJ-14.

Thank you and please let us know if anything else is needed for this request to be processed.

*Tina Thibodeaux*

JDW, LLC

Paralegal

3003 Minnesota Drive Suite 201

Anchorage, Alaska 99503

907-231-3750

[info@jdwcounsel.com](mailto:info@jdwcounsel.com)

[christina@jdwcounsel.com](mailto:christina@jdwcounsel.com)

The author of this email is not an attorney. This communication does not constitute legal advice and should not be construed as such. The information contained in this message is privileged and confidential. It is intended only to be read by the individual or entity named above or their designee. If the reader of this message is not the intended recipient, you are on notice that any distribution of this message, in any form is strictly prohibited. If you have received this message in error, please immediately notify the sender by telephone at 630-913-1113 and delete or destroy any copy of this message. Thank you.



Alaska Marijuana Control Board

# Cover Sheet for Marijuana Establishment Applications

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

## What is this form?

This cover sheet **must** be completed and submitted any time a document, payment, or other marijuana establishment application item is emailed, mailed, or hand-delivered to AMCO's main office.

**Items that are submitted without this page will be returned in the manner in which they were received.**

### Section 1 – Establishment Information

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

<b>Licensee:</b>	Greatland Ganja, LLC	<b>License Number:</b>	10015		
<b>License Type:</b>	Standard Marijuana Cultivation Facility				
<b>Doing Business As:</b>	GREATLAND GANJA, LLC				
<b>Physical Address:</b>	56475 Sterling Highway				
<b>City:</b>	Kasilof	<b>State:</b>	AK	<b>Zip Code:</b>	99610
<b>Designated Licensee:</b>	Leif Abel				
<b>Email Address:</b>	info@greatlandganja.com				

### Section 2 – Attached Items

List all documents, payments, and other items that are being submitted along with this page.

<b>Attached Items:</b>	MJ-15  (\$250 fee to be hand delivered by JDW Counsel)
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#### OFFICE USE ONLY

Received Date:		Payment Submitted Y/N:		Transaction #:	
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Received by AMCO 7/21/17



## Alaska Marijuana Control Board

# Form MJ-15: Operating Plan Change

### What is this form?

This operating plan change form is required for all marijuana establishment licensees seeking to change a licensed marijuana establishment's existing operating plan, under 3 AAC 306.100. With this form, a licensee may request changes to as much or as little as desired of Form MJ-01 and/or the corresponding operating plan supplemental for the establishment's license type.

**The required \$250 change fee may be made by credit card online (VISA, MasterCard, or Discover), or by check or money order.**

Please download, complete, and submit with this form **only the pages** of Form MJ-01 and/or the corresponding operating plan supplemental that contain sections that you are requesting to change. All fields that are left blank will be considered unchanged from the existing operating plan. All fields that are completed and submitted with this form will be considered as changes to the existing operating plan and are subject to board approval. **Please do not submit any wholly unchanged pages of an operating plan.**

### The form(s) that I am requesting board approval to change is:

- Form MJ-01:** Marijuana Establishment Operating Plan
- Form MJ-03:** Retail Marijuana Store Operating Plan Supplemental
- Form MJ-04:** Marijuana Cultivation Facility Operating Plan Supplemental
- Form MJ-05:** Marijuana Product Manufacturing Facility Operating Plan Supplemental
- Form MJ-06:** Marijuana Testing Facility Operating Plan Supplemental

**This form must be completed and submitted to AMCO's main office prior to changing existing operations. The licensed establishment's operations may not be altered unless and until the Marijuana Control Board has approved of the changes. Please note that licensees seeking to change operating plans for multiple licenses must submit a separate completed copy of this form for each license.**

## Section 1 – Establishment Information

Enter information for the licensed establishment.

Licensee:	Greatland Ganja, LLC	License Number:	10015		
License Type:	Standard Marijuana Cultivation Facility				
Doing Business As:	Greatland Ganja				
Premises Address:	56475 Sterling Highway				
City:	Kasilof	State:	AK	ZIP:	99610



**Alaska Marijuana Control Board**  
**Operating Plan Supplemental**  
**Form MJ-04: Marijuana Cultivation Facility**

Alcohol and Marijuana Control Office  
 550 W 7<sup>th</sup> Avenue, Suite 1600  
 Anchorage, AK 99501  
[marijuana.licensing@alaska.gov](mailto:marijuana.licensing@alaska.gov)  
<https://www.commerce.alaska.gov/web/amco>  
 Phone: 907.269.0350

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

- |   |                                     |                          |
|---|-------------------------------------|--------------------------|
| <b>Sell, distribute, or transfer any marijuana or marijuana product to a consumer, with or without compensation</b>   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <b>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</b> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <b>Treat or otherwise adulterate marijuana with any organic or nonorganic chemical or compound to alter the color, appearance, weight, or odor of the marijuana</b>   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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:**

Facility Description, Size and Space to be Under Cultivation: Total area under cultivation 10,844 sq. ft. Of that total 10,844 sq. ft., 4,800 sq. ft. will be under cultivation on a summer seasonal basis and 5,460 sq. ft. will be under cultivation year round. 584 sq. ft. may be under cultivation part time of the year (in this context part-time may mean any time of the year).

Cultivation Facility Consists of the following structures: Glen Creek Group Warehouse: The Glen Creek Warehouse will be a restricted access area, and will have designated areas for curing, processing/trimming, packaging and storage.

The Glen Creek Warehouse is conventionally framed, sided and roofed in metal, 48' x 48', 2,304 sq ft, single story slab on grade, 1140 sq. ft. under cultivation full time plus (as noted above) and 584 sq. ft. under cultivation on a part time basis.

Glen Creek Group Cold Frames: Restricted Access Areas. Small greenhouses that will be 12' wide. One at 120 feet long, one at 110 feet long, and the third at 90' feet long, and forth at 80' feet long. Built from bent conduit and Polyfilm, 4,800 sq ft under cultivation, seasonally.

Rimol Greenhouse: Restricted Access Area. Rigid polycarbonate end walls with steel frames that will be 30' x 144' for a total of 4,320 square feet to be used year round.



**Alaska Marijuana Control Board**  
**Operating Plan Supplemental**  
**Form MJ-04: Marijuana Cultivation Facility**

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Phone: 907.269.0350

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

Organic Soil comprised primarily of peat, compost from Susitna organics, onsite composting, or equivalent and pro-mix, sunshine mix or equivalent mixed with organic perlite.

Hydroclay will be 66 to 100 percent of the mixture, depending on the watering system and redundancies. The clay pellets will be rinsed prior to being placed in gutters or containers.

Rockwool will be added to retain moisture in the event of a pump or timer failure or human error. Rockwool shall be rinsed and soaked in a PH balanced solution as per the manufacturer's recommendation, prior to mixing with the hydroclay.

Cocoa Fiber may be used as a natural alternative to rockwool and is more foolproof in relation to PH. Soil-less Mix made from sterilized peat, Promix or the equivalent combined with vermiculite and perlite may be used.

In the event another type of cultivation growing medium is identified by Greatland Ganja as a potential new type of medium to be utilized in the facility, management and ownership will first contact the AMCO staff and Director to have any other medium types pre-approved prior to introducing said medium into the cultivation facility.

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

- |     |  |            |                    |
|-----|--|------------|--------------------|
| 1)  | Grandpa's Earthworm Castings, Kasilof Alaska | FERTILIZER |                    |
| 2)  | Alaskan Organics 5-8-3 Vegetable Formula     | FERTILIZER |                    |
| 3)  | Alaskan Organics Clam Flour                  | FERTILIZER |                    |
| 4)  | Alaskan Organics Shrimp Meal                 | FERTILIZER | *Continued on pg 8 |
| 5)  | Alaskan Organics Fish Meal                   | FERTILIZER |                    |
| 6)  | Alaskan Organics Fish Bone Meal              | FERTILIZER |                    |
| 7)  | Blood Meal                                   | FERTILIZER |                    |
| 8)  | Organic Sulfate of Potassium (Pot Ash)       | AMENDMENT  |                    |
| 9)  | Organic Alfalfa Meal                         | AMENDMENT  |                    |
| 10) | Cotton Seed Meal                             | AMENDMENT  |                    |
| 11) | Bat Guano                                    | FERTILIZER |                    |

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

The irrigation system in the greenhouses and row covers will be efficient and will provide irrigation of the organic soil via hand watering or delivery via wands on the surface of the soil.

The irrigation system in the warehouse will be delivered primarily via wats, pumps, and plumbing, recirculating to hydroponically feed directly to the plants.

Any waste water from either the outdoor greenhouses/row covers and the warehouse will be disposed of in compliance with in compliance with all Alaska Department of Agriculture and DEC regulations pertaining to disposal or treatment of agricultural hydroponic effluent. The following methods may be used unless guidance from the local state or federal government indicates otherwise:

- Fertigation of alternate crops on premises;
- Treatment on site through a Sand based Leach field. Treatment on site through the use of Constructed Wetlands;
- Shipment offsite to approved alternate treatment facilities or for fertigation of alternate crops.



Alaska Marijuana Control Board

Operating Plan Supplemental  
Form MJ-04: Marijuana Cultivation Facility

(Additional Space as Needed):

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

12)	Alaskan Organics Fully Soluble Kelp Powder	FERTILIZER
13)	Alaskan Organics Bio Bloom Minerals	FERTILIZER
14)	Alaskan Organics Bio Grow Minerals	FERTILIZER
15)	Alaskan Organics 50/50 Shrimp/Crab Meal	FERTILIZER
16)	Alaskan Organics Granulated Clam Shells	FERTILIZER
17)	Alaskan Organics Genesis Tea	FERTILIZER
18)	Alaskan Organics Gypsum	AMENDMENT
19)	Alaskan Organics Dolomite Lime	AMENDMENT
20)	Alaskan Organics Bio-Activators	AMENDMENT
21)	Agricultural Lime	AMENDMENT
22)	Hygrozyme	AMENDMENT
23)	VAM Bio-Ag Endo-Mix	AMENDMENT
24)	Earth Compound Compost Tea Inoculant	AMENDMENT
25)	RAW Humeric Acid	AMENDMENT
26)	RAW Cane Molasses	AMENDMENT
27)	RAW Silica	AMENDMENT
28)	RAW B-Vitamin & Mag Sulfate	FERTILIZER
29)	RAW Yucca	AMENDMENT
30)	Organic Soft Rock Phosphate	FERTILIZER
31)	General Hydroponics PH UP	AMENDMENT
32)	General Hydroponics PH DOWN	AMENDMENT
33)	General Hydroponics Flora Grow	FERTILIZER
34)	General Hydroponics Flora Micro	FERTILIZER
35)	General Hydroponics Flora Bloom	FERTILIZER
36)	General Hydroponics Cal-Mag	ADDITIVE
37)	PERLITE	AMENDMENT
38)	Maxicrop Sea Weed Powder	FERTILIZER
39)	Viva Strap Blk Strap Molasses	AMENDMENT
40)	Root Naturally (Clay) Azomite	AMENDMENT
41)	Viva Root Endomycorrhizae Mix	AMENDMENT
42)	Bio Organics Endomycorrhizal Inoculant	AMENDMENT
43)	Axiom Harpin Proteins	AMENDMENT
44)	Down To Earth Granular Humeric Acid	AMENDMENT
45)	Advanced Nutrients Grow	FERTILIZER
46)	Advanced Nutrients Micro	FERTILIZER
47)	Advanced Nutrients Bloom	FERTILIZER
48)	Kool Bloom Powder	FERTILIZER
49)	General Hydroponics Flora Nectar	FERTILIZER
50)	Jacks Professional Water Soluble	FERTILIZER





Alaska Marijuana Control Board

## Operating Plan Supplemental Form MJ-04: Marijuana Cultivation Facility

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Phone: 907.269.0350

(Additional Space as Needed):

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

51)	Diamond Nectar	ADDITIVE
52)	Armor SI	FERTILIZER
53)	Sub Culture M	ADDITIVE
54)	Sub Culture B	ADDITIVE
55)	Clonex Gel	ADDITIVE
56)	Clonex Solution	FERTILIZER
57)	Olivias Cloning Solution	FERTILIZER
58)	Hygrozyme	ADDITIVE
59)	Axiom Harpin Proteins	ADDITIVE
60)	Yucca Schidigera	ADDITIVE
61)	Organic Safer Neem Oil	PESTICIDE
62)	Organic Safer Soap	PESTICIDE
63)	Pyganic-Pyrethrium	PESTICIDE
64)	Safer End All Insect Killer-Pyrethrium	PESTICIDE
65)	Bleach	CLEANING PRODUCT
66)	Vinegar	CLEANING PRODUCT
67)	Simple Green	CLEANING PRODUCT
68)	70% and 91% Isopropyl Alcohol	CLEANING PRODUCT
69)	Hydrogen Peroxide 3% USP	CLEANING PRODUC
70)	CO2	ATMOSHPERIC ENHANSMENT

Chemicals and Delivery Systems shall be operated, stored, and handled in accordance with the current Safety Data Sheet and the Authority Having Jurisdiction. Delivery of Fertilizers and Amendments shall be through dispensing spigots, measuring cups, and pumps.





Alaska Marijuana Control Board

## Operating Plan Supplemental Form MJ-04: Marijuana Cultivation Facility

(Additional Space as Needed):

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

CO2. We have applied for and received a State of Alaska Fire Marshal Building Permit to run CO2 injection and burners in every plant area of our facility. This is a regulator and emitter system you would hook to bottled CO2. Active Air CO2 System with Timer, 1-20 cubic ft per hour or equivalent. This is a CO2 Burner for the warehouse rooms and gnome domes. IR-42-MF MULTI-FUEL INFRARED CO2 GENERATOR or equivalent. Equipment (meters or gauges or sensors) shall be provided to indicate CO2 levels in each grow cultivation area/room (Autopilot). Grow cultivation area/room meters shall be calibrated and inter-connected to each natural gas burner stopping the generation of CO2 in each grow room to limit CO2 levels to a maximum of 5,000 ppm (Autopilot). Grow cultivation area/rooms will require an amber strobe and audible horn inside and outside the room at each entrance when the sensor exceeds 5,000 ppm in that room.

Describe the cultivation facility's waste disposal plan:CONTINUED

The Company will implement the same disposal methods that other marijuana cultivation facilities have successfully employed in Colorado and Washington. These methods render all marijuana unusable and safe for disposal. To render marijuana unusable, the Company will grind and incorporate the marijuana waste with either non-compostable solid wastes, or with compostable solid wastes so that the resulting mixture is at least fifty percent non-marijuana waste. The following is a list of the non-compostable solid wastes that the Company will use:

- Paper waste
- Plastic waste
- Cardboard waste
- Soil

The following is a list of the compostable solid wastes that the Company will use:

- Food waste
- Yard waste



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Phone: 907.269.0350

Alaska Marijuana Control Board

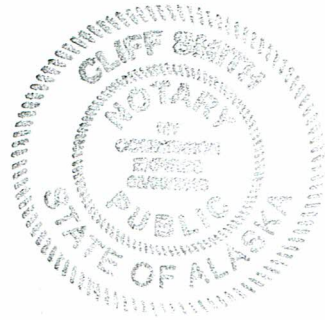
**Form MJ-15: Operating Plan Change**

As a marijuana establishment licensee, I declare under penalty of unsworn falsification that I have examined this form, including all accompanying documents, schedules, and statements, and to the best of my knowledge and belief find them to be true, correct, and complete.

Leif B. Abel  
Signature of licensee

Leif Abel  
Printed name

Subscribed and sworn to before me this 20 day of July, 2017.



[Signature]  
Notary Public in and for the State of Alaska.

My commission expires: 05/05/2018



Alaska Marijuana Control Board

# Cover Sheet for Marijuana Establishment Applications

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550 W 7<sup>th</sup> Avenue, Suite 1600  
Anchorage, AK 99501  
marijuana.licensing@alaska.gov  
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Phone: 907.269.0350

## What is this form?

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**Items that are submitted without this page will be returned in the manner in which they were received.**

### Section 1 – Establishment Information

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

<b>Licensee:</b>	Greatland Ganja, LLC	<b>License Number:</b>	10015		
<b>License Type:</b>	Standard Marijuana Cultivation Facility				
<b>Doing Business As:</b>	GREATLAND GANJA, LLC				
<b>Physical Address:</b>	56475 Sterling Highway				
<b>City:</b>	Kasilof	<b>State:</b>	AK	<b>Zip Code:</b>	99610
<b>Designated Licensee:</b>	Leif Abel				
<b>Email Address:</b>	info@greatlandganja.com				

### Section 2 – Attached Items

List all documents, payments, and other items that are being submitted along with this page.

<b>Attached Items:</b>	MJ-14  (\$250 fee to be hand delivered by JDW Counsel)
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#### OFFICE USE ONLY

Received Date:		Payment Submitted Y/N:		Transaction #:	
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Received by AMCO 7/25/17



Alaska Marijuana Control Board

# Form MJ-14: Licensed Premises Diagram Change

## What is this form?

This licensed premises diagram change form is required for all marijuana establishment licensees seeking to alter the functional floor plan or reduce or expand the area of the establishment's existing licensed premises, under 3 AAC 306.100 and 3 AAC 306.705. **The required \$250 change fee may be made by credit card online (VISA, MasterCard, or Discover), or by check or money order.**

Your diagram must show all entrances and boundaries of the premises, restricted access areas, and storage areas, and dimensions. If your proposed premises is located within a building or building complex that contains multiple businesses and/or tenants, please provide an additional page that clearly shows the location of your proposed premises within the building or building complex, along with the addresses and/or suite numbers of the other businesses and/or tenants within the building or building complex. Limited marijuana cultivation licensees must clearly delineate the proposed area(s) for cultivation.

**The second page of this form is not required.** Blueprints, CAD drawings, or other clearly drawn and marked diagrams may be submitted in lieu of the second page of this form, as long as it meets the requirements listed on this form. The first and third pages must still be completed, attached to, and submitted with any supplemental diagrams. An AMCO employee may require you to complete the second page of this form if additional documentation for your premises diagram is needed.

This form must be signed by the licensee and by the local government having jurisdiction over the location of the premises before it is submitted to AMCO staff for review.

**This form must be completed and submitted to AMCO's main office prior to altering the existing floor plan. The licensed premises may not be altered unless and until the AMCO Director has given written approval on this form. Please note that licensees seeking to change licensed premises diagrams for multiple licenses must submit a separate completed copy of this form for each license.**

Yes No

I have attached blueprints, CAD drawings, or other supporting documents in addition to, or in lieu of, the second page of this form.

## Section 1 – Establishment Information

Enter information for the licensed establishment.

Licensee:	Greatland Ganja, LLC	License Number:	10015		
License Type:	Standard Marijuana Cultivation Facility				
Doing Business As:	Greatland Ganja				
Premises Address:	56475 Sterling Highway				
City:	Kasilof	State:	AK	ZIP:	99610

10015 - Greatland Grange, LLC



Alcohol and Marijuana Control Office  
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Anchorage, AK 99501  
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Phone: 907.269.0350

Alaska Marijuana Control Board

### Form MJ-14: Licensed Premises Diagram Change

#### Section 3 - Declarations and Approvals

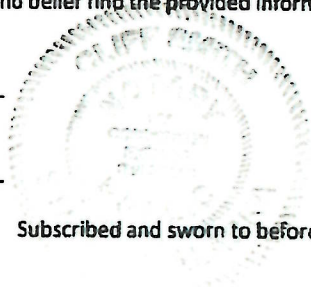
Read the line below, and then sign your initials in the box to the right of the statement:

Initials

If a local building permit is required, I have attached a copy of it to this form.

As a marijuana establishment licensee, I declare under penalty of unsworn falsification that I have examined this form, including all attachments, and to the best of my knowledge and belief find the provided information to be true, correct, and complete.

Leif Abel  
Signature of licensee  
Leif Abel  
Printed name of licensee



[Signature]  
Notary Public in and for the State of Alaska.  
My commission expires: 05/05/2018  
Subscribed and sworn to before me this 24 day of JULY, 2017.

Local Government Review (to be completed by an appropriate local government official):

Yes No

The proposed changes shown on this form conform to all local restrictions and laws.

A local building permit is required for the proposed changes.

Bruce Wall  
Signature of local government official  
Bruce Wall  
Printed name of local government official

July 21, 2017  
Date  
Planner  
Title

AMCO Review:

Approved Disapproved

[Signature]  
Signature of AMCO Enforcement Supervisor  
James Hoelscher  
Printed name of AMCO Enforcement Supervisor

Erika McConnell  
Signature of Director  
Erika McConnell  
Printed name of Director

10  
8-8-17  
Date

AMCO Comments:





THE STATE  
of **ALASKA**  
GOVERNOR BILL WALKER

## Department of Public Safety

DIVISION OF FIRE AND LIFE SAFETY  
Plan Review Bureau - Anchorage

5700 East Tudor Road  
Anchorage, Alaska 99507-1225  
Main: 907.269.2004  
Fax: 907.269.0098

April 27, 2017

Leif Abel  
Abel Brothers General Contracting  
PO Box 1136  
Kasilof, AK 99610

SUBJECT: Glen Creek Group Warehouse (Greatland Ganja) -  
Renovation / Remodel  
CITY: Kasilof  
PLAN REVIEW: 2017Anch1281  
OCCUPANCY: F-1, U  
2009 INTERNATIONAL BUILDING AND FIRE CODE

Dear Leif Abel:

This letter is to acknowledge receipt of your plans and application for plan review for the subject facility. A plan review number has been assigned as indicated. The plan review fee is required to be paid prior to the review. To help keep our files current and expedite the review, your submittal of the fee within fifteen (15) days will be appreciated.

The plan review fee is \$279.00. Please make your check, money order or cashier's check payable to the State of Alaska. To ensure that the check or money order reaches us in a timely manner, please include "Fire and Life Safety - Plan Review Bureau" in the mailing address.

13 AAC 50.027 prohibits the beginning of any construction, alteration, or repair to building regulated by the State Fire Marshal until plans and specifications have been reviewed and approved.

If you have any questions regarding this matter, please contact us at the address above.

Sincerely,

A handwritten signature in black ink that reads "Jillian Roberts".

Jillian Roberts  
Plans Examiner



THE STATE  
of **ALASKA**  
NORTH SICHUDDI WAKNE

**Department of Public Safety**

DIVISION OF FIRE AND LIFE SAFETY  
Plan Review Division - Anchorage

311 - 267-4000  
411 - 267-4000  
TDD - 367-4294  
www.dps.alaska.gov

June 06, 2017

Leif Abel  
Abel Brothers General Contracting  
PO Box 1136  
Kasilof, AK 99610

SUBJECT: Glen Creek Group Warehouse (Greatland Ganja) -  
Renovation / Remodel  
CITY: Kasilof  
PLAN REVIEW: 2017Anch1281  
OCCUPANCY: F-1, U  
2012 INTERNATIONAL BUILDING AND FIRE CODE

Dear Leif Abel:

Plans for the Renovation / Remodel have been reviewed by this office for conformity with the State Fire Safety Regulations and are hereby approved. Enclosed is a certificate of approval that must be posted on the premises until the project has been completed according to the approved plans and all regulations have been adhered to.

Approval of submitted plans is not approval of omissions or oversights by this office or noncompliance with any applicable regulations of the Municipal Government.

It must be understood that the inclusion of and compliance with State Fire Safety Regulations does not preclude the necessity of compliance with the requirements of local codes and ordinances.

If we can be of further assistance in this matter, please feel free to contact us at the address above.

Sincerely,

A handwritten signature in black ink, appearing to read "David Aden".

David Aden  
Plans Examiner

Enclosure: Approval Certificate





## CENTRAL EMERGENCY

### SERVICES

FIRE PREVENTION BUREAU  
231 S. BINKLEY  
SOLDOTNA ALASKA 99669  
(907) 262-4792 EXT. 3004      FAX: (907) 260-6236

*Roy Browning*  
*Fire Chief*

---

*Wes Perkins*  
*Fire Marshal*

Alaska State Fire Marshal's office  
5700 E. Tudor Road  
Anchorage, Alaska 99507-1225

April 20, 2017

Re: Greatland Ganja Agricultural Facility  
56475 Sterling Hwy Kasilof, AK 99610

A review of the submitted plans for the planned facility meets or exceeds the requirements set forth in the International Fire Code (2009 Edition) , Section 503 FIRE APPARATUS ACCESS ROADS; and amended by the Alaska State Fire Marshal's Office stating: The Fire Chief of the registered department having jurisdiction, Central Emergency Services, may require approved fire apparatus roadways for every facility, building, or portion of a building constructed or moved into or within the jurisdiction on or after September 15, 2001. The fire apparatus access roadway must be required to comply with the requirements of this section as determined by the Chief of that jurisdiction and be required to extend within 150 feet (45 720 mm) of all portions of the facility or building or any portion of the exterior wall of the first story of the facility or buildings as measured by an approved route around the exterior of the building or facility.

If you have any questions please don't hesitate to ask.

Best Regards,  
Wes Perkins

Fire Marshal  
Central Emergency Services

State of Alaska  
Office of the State Fire Marshal  
Plan Review

This is to certify that the plans for this building were reviewed by the *State Fire Marshal* on June 06, 2017 for conformance with AS 18.70.010 -- 100; 13 AAC 50.027.

This certificate shall be posted in a conspicuous place on the premises named Glen Creek Group Warehouse (Greatland Ganja) and shall remain posted until construction is completed.

**NOTICE:** Any changes or modifications to the approved plans **must** be resubmitted for review by the *State Fire Marshal*.

Plan Review #: 2017Anch1281 By: 

Authority: AS 18.70.080  
Form: 12-741  
(6/01)

David Aden  
Plans Examiner

**Renovation / Remodel ONLY**

**ORIGINAL**  
**APPROVED**  
**MJ-04**



Alaska Marijuana Control Board  
**Operating Plan Supplemental  
Form MJ-04: Marijuana Cultivation Facility**

Alcohol and Marijuana Control Office  
550 W 7<sup>th</sup> Avenue, Suite 1600  
Anchorage, AK 99501  
[marijuana.licensing@alaska.gov](mailto:marijuana.licensing@alaska.gov)  
<https://www.commerce.alaska.gov/web/amco>  
Phone: 907.269.0350

**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:

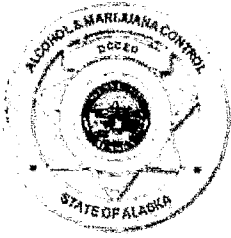
- Prohibitions
- Cultivation plan
- Odor control
- Testing procedure and protocols
- Security

**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:	Greatland Ganja, LLC	License Number:	10015		
License Type:	Standard Marijuana Cultivation Facility				
Doing Business As:	Greatland Ganja, LLC				
Premises Address:	56475 Sterling Highway				
City:	Kasilof	State:	ALASKA	ZIP:	99610



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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 marijuana 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:

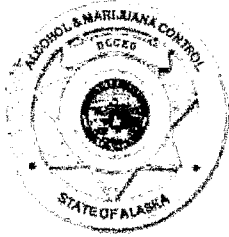
Facility Description, Size and Space to be Under Cultivation: Total area under cultivation 6,524 sq. ft. Of that total 6,524 sq. ft., 4,800 sq. ft. will be under cultivation on a summer seasonal basis and 1,140 sq. ft. will be under cultivation year round. 584 sq. ft. may be under cultivation part time of the year (in this context part-time may mean any time of the year). The Premises will be located at 56475 Sterling Highway, Kasilof AK, 99610. Global Positioning System Coordinates: Latitude: 60.329599, Longitude: -151.246984.

Cultivation Facility Consists of the following structures:

Glen Creek Group Warehouse: The Glen Creek Warehouse will be a restricted access area, and will have designated areas for curing, processing/trimming, packaging and storage.

The Glen Creek Warehouse is conventionally framed, sided and roofed in metal, 48' x 48', 2,304 sq ft, single story slab on grade, 1140 sq. ft. under cultivation full time plus (as noted above) and 584 sq. ft. under cultivation on a part time basis.

Glen Creek Group Cold Frames: Restricted Access Areas. Small greenhouses that will be 12' wide. One at 120 feet long, one at 110 feet long, and the third at 90' feet long, and forth at 80' feet long. Built from bent conduit and Polyfilm, 4,800 sq ft under cultivation, seasonally.



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

Organic Soil comprised primarily of peat, compost from Susitna organics, onsite composting, or equivalent and pro-mix, sunshine mix or equivalent mixed with organic perlite.

Hydroclay will be 66 to 100 percent of the mixture, depending on the watering system and redundancies. The clay pellets will be rinsed prior to being placed in gutters or containers.

Rockwool will be added to retain moisture in the event of a pump or timer failure or human error. Rockwool shall be rinsed and soaked in a PH balanced solution as per the manufacturer's recommendation, prior to mixing with the hydroclay.

Cocoa Fiber may be used as a natural alternative to rockwool and is more foolproof in relation to PH. Soil-less Mix made from sterilized peat, Promix or the equivalent combined with vermiculite and perlite may be used.

In the event another type of cultivation growing medium is identified by Greatland Ganja as a potential new type of medium to be utilized in the facility, management and ownership will first contact the AMCO staff and Director to have any other medium types pre-approved prior to introducing said medium into the cultivation facility.

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

Alaskan Organics or Equivalent (AO) 5-8-3, Organic Sulfate of Potassium (potash), Organic Clam Flour, shrimp meal, Dolomite lime, Prilled-fast acting lime, fish meal, organic alfalfa meal, fish bone meal, Gypsum, Kelp meal (Acadian), fully soluble kelp (Maxicrop), AO Bio-Activators, organic Humic Acid, M3 Mineral Magic, Bio-Grow Minerals, Bio Bloom Minerals, AO 50/50 (Shrimp-Crab Meal Mix), powdered yucca mix, granulated clam shell, Cotton Seed Meal, Silicate, Azomite, RAW Bloom and Grow microbes, Bat Guano, Sensi Grow A and B, Sensi Bloom A and B, Bud Ignitor, Big Bud, B 52, Fruit Flower Mix, General Hydroponics, Advanced Nutrients or Equivalent, GH Flora Bloom, GH Flora Micro, GH Flora Grow. Delivery shall be through dispensing spigot (6 gallon containers), a nutrient pump (2.5 gallon containers), or a syringe, into a measuring cup. The measured amount is then added to the mother vat. Alternatively an automated nutrient pump may be used. This is a three part system and needs to be mixed according to the manufacturer's directions. Jacks Professional Water Soluble Fertilizer 5-12-26 Hydroponic. Delivery shall be through dispensing powder nutrient into a measuring cup. SEE PAGE 8 (additional space) OF THIS FORM FOR ADDITIONAL FERTILIZERS, CO2 AND DELIVERY SYSTEMS

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

The irrigation system in the greenhouses and row covers will be efficient and will provide irrigation of the organic soil via hand watering or delivery via wands on the surface of the soil.

The irrigation system in the warehouse will be delivered primarily via vats, pumps, and plumbing, recirculating to hydroponically feed directly to the plants.

Any waste water from either the outdoor greenhouses/row covers and the warehouse will be disposed of in compliance with all Alaska Department of Agriculture and DEC regulations pertaining to disposal or treatment of agricultural hydroponic effluent. The following methods may be used unless guidance from the local state or federal government indicates otherwise:

- Fertigation of alternate crops on premises;
- Treatment on site through a Sand based Leach field. Treatment on site through the use of Constructed Wetlands;
- Shipment offsite to approved alternate treatment facilities or for fertigation of alternate crops.



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Describe the marijuana cultivation facility's waste disposal arrangements:

Greatland Ganja will transport its own solid waste to the landfill outside of Soldotna. Waste not transported will be composted onsite for reuse in the soil. All DEC, MCB and Department of Agriculture regulations pertaining to waste, composting, and wastewater will be followed.

Marijuana plant waste shall be:

- composted on site;
- within a restricted access area and under video surveillance;
- and destroyed in accordance with 3 AAC 306 or composited with soil to use for further cultivation activities onsite.

Prior to marijuana plant waste being transported to a landfill, the following steps will be taken:

In this section, the term "marijuana" is intended to refer to all parts of the marijuana plant, including trim, sugar leaf, any other leaves, root balls, flower and/or bud. Disposing of marijuana in a safe, secure, and environmentally responsible manner is a top priority for the Company. Rendering marijuana unusable before disposal will ensure that marijuana and marijuana products are safely kept away from the public. The Company will ensure that all marijuana is rendered unusable prior to leaving the facility. The Cultivation Manager will maintain a log on the status of all marijuana waste, tracking the type of waste, the date of disposal, the date it was rendered unusable, and the date that it was picked up by the disposal company.

### 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:

Odor control as per 3 AAC 306.430. Greatland Ganja will filter exhaust air using particulate pre filters, carbon filters and American Ultraviolet air sanitizers as needed. This should assure clean air exits the facility. Odor will be un-detectable, by the public, from outside the cultivation facility. Note: Except as allowed by a local government conditional use permit process, as per 3 AAC 306.430.





Alaska Marijuana Control Board
Operating Plan Supplemental
Form MJ-04: Marijuana Cultivation Facility

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

Two empty square boxes for 'Agree' and 'Disagree' responses.

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

Text box containing detailed testing procedures for Greatland Ganja, including batch testing, sample selection, labeling, and transportation protocols.



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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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Read and understands and agrees to the labeling of marijuana requirements under 3 AAC 306.475	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Restricted Access Area (3 AAC 306.430):</b>	<b>Yes</b>	<b>No</b>

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:

Marijuana will be produced in polyfilm greenhouses at our facility. The greenhouses will be enclosed by a 6’ chain link full privacy fence.

Greenhouse No. 1 - 12’X120’

Greenhouse No. 2 - 12’X110’

Greenhouse No. 3 - 12’X90’

Greenhouse No. 4 - 12’X80’

See attached site plan for further detail.



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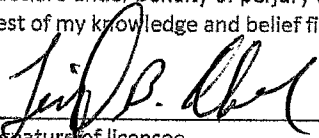
Describe the method(s) used to ensure that any marijuana at the marijuana cultivation facility cannot be observed by the public from outside the facility:

The cultivation of marijuana will not be viewable by the general public from outside of the Licensed Premises shall be obscured using one or more of the following methods.

- i. Solid Structures with walls and a roof
- ii. Sight Obscuring Fencing at least 6' in height
- iii. Shade Screening
- iv. Opaque greenhouse film or opaque ridged polycarbonate

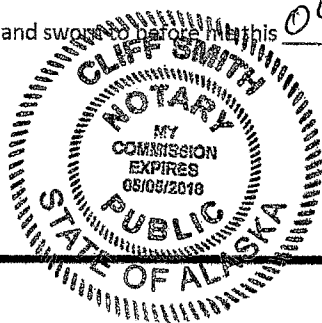
I certify that as a marijuana cultivation facility, I will submit monthly reports to the Department of Revenue and pay the excise tax required under AS 43.61.010 and 43.61.020 on all marijuana sold or provided as a sample to a marijuana establishment, as required under 3 AAC 306.480.

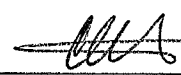
I declare under penalty of perjury that I have examined this form, including all accompanying schedules and statements, and to the best of my knowledge and belief find it to be true, correct, and complete.

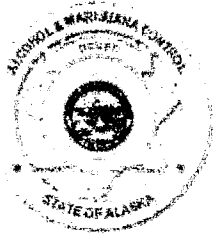
  
\_\_\_\_\_  
Signature of licensee

Leif B. Abel  
\_\_\_\_\_  
Printed name

Subscribed and sworn to before me this 04 day of April, 2016.



  
\_\_\_\_\_  
Notary Public in and for the State of Alaska.  
My commission expires: 05/05/2016



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Phone: 907.269.0350

(Additional Space as Needed):

Describe the marijuana cultivation facility's fertilizers, chemicals, gases, and delivery systems, including carbon dioxide management, to be used: **Beneficials, Additives and Micronutrients:** Superthrive, Diamond Nectar (Humic Acid), B-1, General Hydroponics Cal-Mag, SubCulture-B, Voodoo Juice, Piranha, SubCulture-M, Great White, Ancient Earth, Nirvana, Silica Supplement such as General Hydroponics Armor Si, Cloning Gels and Powders such as Clonex, Olivias or Equivalent. Dave's Root Dip (Organic) from Alaskan Organics, or Equivalent. Sugar, Molasses or a plant equivalent such as Flora Nectar or CarboLoad. Hygrozyme or equivalent, BACTERIA-FREE enzymes and complex chains of amino acids, Sensizyme, Glaciatic Dust, Earth Worms and castings, European Nite Crawlers (*Eisenia Hortensis*), Red Wiggles (*Eisenia Foetida*). **Chemicals and Delivery Systems.** Shall be operated, stored, and handled in accordance with the current MSDS and Authority Having Jurisdiction. **PH UP: (Potassium Carbonate & Potassium Citrate) PH Down: (Phosphoric Acid, Citric Acid, mono ammonium phosphate)** Delivery will be through dispensing spigot (6 gallon containers), a chemical pump (2.5 gallon containers), or a syringe, into a measuring cup. The measured amount is then added to a sample removed from aerated mother vat. This solution is then added to the mother vat. Alternatively an Autopilot Digital PH Controller/Doser or equivalent may be used. **CO<sub>2</sub>.** No CO<sub>2</sub> burners will be operated in the warehouse unless authorized by the state fire marshal. CO<sub>2</sub> injection will only be used in compliance with IBC and sensor/alarm equipment meeting or exceeding NBIC (National Board Inspection Code) CO<sub>2</sub> storage regulations. Carbon dioxide levels need to be monitored for 5,000 ppm OSHA and NIOSH limits. Sentinel, Hydrofarm, Blueprint, Titan Controls, or Equivalent CO<sub>2</sub> Regulators will be used to dispense CO<sub>2</sub>. Appropriate cylinders from 20 to 100 lb will be used. Additionally larger tanks may be installed out of doors for fill up by a truck.

Describe the cultivation facility's waste disposal plan: CONTINUED

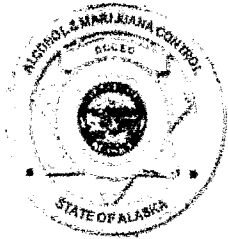
The Company will implement the same disposal methods that other marijuana cultivation facilities have successfully employed in Colorado and Washington. These methods render all marijuana unusable and safe for disposal. To render marijuana unusable, the Company will grind and incorporate the marijuana waste with either non-compostable solid wastes, or with compostable solid wastes so that the resulting mixture is at least fifty percent non-marijuana waste.

The following is a list of the non-compostable solid wastes that the Company will use:

- Paper waste
- Plastic waste
- Cardboard waste
- Soil

The following is a list of the compostable solid wastes that the Company will use:

- Food waste
- Yard waste



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- Vegetable-based grease or oils

The Cultivation Manager will ensure that the resulting mixture is composed of no more than 50% marijuana by volume. The Cultivation Manager will log the composition of the mixture, and the records will be made available to the MCB upon request. The disposal log shall be kept as part of the Company's business records pursuant to 3 AAC 306.755.

Marijuana waste will be rendered unusable using this method a minimum of once per day, before the cultivation facility closes. Once rendered unusable, marijuana will be securely stored in locked containers located on the licensed premise. All locks will comply with the highest UL standards. Only authorized personnel will have access to the keys that lock and unlock the disposal containers. The disposed marijuana will not be stored outside the facility at any time. Twice a week, a waste truck will collect the waste and dispose of it unless the waste is destroyed and rendered unusable for consumption by method of composting and used to for grow medium for future crops onsite. To ensure tracking and to ensure that no diversion occurs, a manager will meet with the waste truck driver and collect a signature and the name of the waste truck driver, the date, time, and the type of marijuana waste being collected.

Management shall give the board at least 3 days notice in the marijuana inventory tracking system required under 3 AAC 306.755 before making the waste unusable and disposing of it.