

GREAT EXPECTATIONS, INC.

OPERATIONS PLAN

PROPOSED CANNABIS
CULTIVATION FACILITIES

#11674

APN 216-026-013

8686 Bell Springs Road

Harris, CA 95542

Prepared for:



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**Cultivation and Operations Manual
GREAT EXPECTATIONS, INC.
APP #11674**

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1. PROJECT SUMMARY

PROJECT OBJECTIVE

GREAT EXPECTATIONS, INC. is applying for land use approval for existing medical cannabis cultivation in accordance with the County of Humboldt's Commercial Medical Marijuana Land Use Ordinance 1.0 (CMMLUO), located on Assessor Parcel Number (APN) 216-026-013, approximately 10.5 miles southeast of Garberville.

The project site includes 33,072 square feet of existing outdoor cannabis cultivation. The project also proposes to receive (1) Retirement, Remediation, and Relocation site (APP # 12023) for a total of 53,072 sf of cannabis cultivation and ancillary nursery, processing, and storage facilities.

SITE DESCRIPTION

The subject parcel is approximately 83.40 acres in size (per County of Humboldt WebGIS). The parcel is within the County of Humboldt's Unclassified (U) zone and accompanied by a Residential Agriculture (RA 40) General Plan land use designation. This site was previously an industrial mill site. The current Land uses surrounding the parcel are comprised of residential and agricultural uses.

STATE AND LOCAL COMPLIANCE

1.3.1 STATE OF CALIFORNIA COMMERCIAL CANNABIS ACTIVITY LICENSE

Great Expectations, Inc. holds active state licenses for all existing cultivation areas on the project site. Copies of state licenses are posted on the subject parcel, and copies are available upon request.

1.3.2 STATE WATER RESOURCES CONTROL BOARD

Great Expectations, Inc. has enrolled in the SWRCB General Order as a Tier 2 Moderate Risk Discharger (WDID1_12CC419256). Upon completion, a copy of the Site Management Plan will be submitted to the Humboldt County Planning Dept (HCPD).

1.3.3 HUMBOLDT COUNTY BUILDING DEPARTMENT

Upon approval, all necessary building and grading permits will be obtained from the Humboldt County Building Department (HCBD) for existing and proposed structures and supporting infrastructure.

1.3.4 CAL FIRE

The subject property is located within the State Responsibility Area (SRA) for fire protection. The access roads, Bells Springs Road and Dugan Mill Road, meet Category 4 requirements or equivalent and a road evaluation form is on file with the County of Humboldt. Cultivation operations generate approximately three (3) vehicle trips per day during the growing season and up to (1) vehicle trip per day during the winter.

The emergency vehicle turn-around area is located at the terminus the main driveway. The turn-around is less than 7% grade and is regularly maintained to prevent ruts or rills to the road surface. The turn-around area is greater than 30 feet long with over 15 feet of vertical clearance.

Great Expectations, Inc. shall maintain the recommended 100 feet of defensible space around all structures on the property. All buildings and cultivation areas meet the 30-foot SRA property line setback requirement. Designated 2,500-gallon water tanks shall be installed within 150 feet of all structures for fire suppression.

1.3.5 CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE

A Lake and Streambed Alteration Agreement (LSAA) notification (1600-2019-0484-R1) has been entered into between by California Fish and Wildlife (CDFW) and the landowner. The notification for 8 encroachments on an unnamed tributary to Tom Long Creek, was initially filed on June 13, 2019. A site visit with CDFW was conducted on July 10, 2019 and the final agreement was issued on November 20, 2019. A copy of the final LSAA kept on the project site and available upon request.

1.3.6 CULTURAL RESOURCES

The Phase I Cultural Resource Inventory Report for APN 216-06-013 is on file with HCPD. Three pre-contact sites, Chee-laa-che' Drainage, Chee-laa-che' Meadow and Chee-laa-che' Terrace, are present within the Area of Potential Effects (APE). While all three resources have incurred some degree of prior impacts, the present analysis determines that future impacts may be avoided. With the implementation of the Cultural Conditions (CUL#) as stipulated in Section 7.1 of the Resource Inventory Report, there will be No Effect to any cultural, Tribal, or historic resources, as defined by CEQA, from this project.

2. OPERATIONS MANAGEMENT

IRRIGATION PLAN

Great Expectations, Inc. will use approximately 558,650 gallons of water per year for cannabis irrigation. Current watering practices primarily include a focused drip irrigation system, with occasional top-feed hand watering based on need. Both methods will ensure the most efficient use of water and minimize runoff.

The following table outlines the projected water usage for cultivation during a typical year. This does not consider variables such as weather conditions or specific cannabis strains which may have slight effects on overall water usage.

2.1.1 WATER SOURCE

The project proposes to source irrigation water from an existing 600,000- rain catchment pond as well as install additional catchment via a gutter system on existing greenhouses and ancillary facilities. The project also maintains 127,000 gallons of HDPE storage (see table 1), to meet agricultural needs. The following details provide rainfall catchment and storage for for the project.

Table 1: Water Storage Inventory			
Water Storage Location	Qty	Capacity	Proposed Use
Pond	1	600000	Irrigation
HDPE Tank @ 5000 Gal	21	105000	Irrigation
HDOE Tank @ 3000	9	27000	Irrigation
Total Storage Capacity	30	732000	

Existing and a proposed expanded rain catchment systems will be plumbed to the pond to increase catchment surface area. At full build-out including all existing and proposed

structures, the total capture area will be 15,840 sf. The capture efficiency is estimated to be approximately 90%, factoring potential leaks or other environmental complications, while the pond capture efficiency is estimated to be 100%. Rainwater will be captured from the gutter system to collect and convey rainwater to the HDPE water tanks and additional run off will be diverted to the rain catchment pond.

The existing unpermitted well(s) will be decommissioned Well #3 located near the metal harvest storage/processing building at lat/long (40.0150, -123.6315), and Well #1(40.0147/-123.6201) and well #2 (40.0144/-123.6298).

Water for domestic uses an off-site spring (POD #1) located on the adjacent parcel. An Initial Statement of Diversion and Use (ISDU) has been filed for the domestic POD. A Small Domestic Use (SDU) shall be filed to continue diverting water from POD #1 for drinking, bathing, and cooking, etc.

2.1.2 PROJECTED WATER USE

Table 2: Projected Annual Agricultural Water Usage												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Nursery	0	2500	2500	2500	2500	2500	2500	0	0	0	0	0
Cultivation	0			35850	52200	82800	110450	92250	82200	58200	29700	0
Total	0	2500	2500	38350	54700	85300	112950	92250	82200	58200	29700	0
TOTAL GALLONS USED:											558650	

RAIN CATCHMENT ANALYSIS

Data from PRISM Climate Group was used (<https://prism.oregonstate.edu/explorer/>). The PRISM Group provides site-specific average monthly and annual rainfall data based on topography and historic precipitation values. Data extrapolated was from the years 2000-2023 to provide an accurate representation of overall rainfall data.

The highest precipitation year on record for the project site was 58.50 in 2012, with the lowest rainfall at 27.65 in 2013. For the calculations provided, an average was rounded to 44.

Table 3: Rainwater Catchment Surfaces/Collection Data			
Catchment Location	Catchment Area (sf)	Average Rainfall (in)	Collection Total (gal)
Pond	10,415	44	285,679.28
Greenhouse Gutters	9,550	44	261,952.68
Building (1)	1,725	44	47,316.06
Building (2)	2,210	44	60,619.42
HDPE Rain Catchment Tanks	1,645	44	45,121.69
Total	25545		700,689.13

Harvested rainwater (gal) = catchment area (ft) x precipitation (in) x .6234 conversion factor

2.1.3 EVAPORATION

Evaporation rates have been calculated to ensure proper capacity and need. Evaporation rates can change based on various factors including temperature, humidity, sun exposure

and wind. To estimate evaporation rates as there were no specific rates for the Harris area, an average was used based on the areas of Ferndale (31.64 inches), and Willow Creek (38.69 inches), bringing the estimated rate of 35.18 inches of evaporation rate per year. A conversion of this rate was done to account for the metal pan above ground evaporation to better represent the natural ground surface evaporation rate as follows:

Evaporation Calculations:

Corrected Pan Evaporation = $35.18 \times .75 = 26.285' / 12 = 2.2\text{ft}$

Projected Evaporation Loss (gal.) = catchment area 6920(sf.) x Class A Pan Evaporation Rate 2.2(ft.) x 7.48 (gal/ft).

Using the above equations, it is estimated that approximately 113,900 gallons would be lost from the pond at full capacity.

TOTAL NEED AFTER EVAPORATION CALCULATIONS

Annual Water Need (558,650 gal) + Evaporation Loss (113,000 gal) = 671,650 gallons

SITE DRAINAGE, RUNOFF AND EROSION CONTROL

Great Expectations, Inc. has hired a qualified professional to develop a plan using the guidelines for best practicable treatments and controls (BPTCs) in accordance with the recommendation of SWRCB General Order.

The discharger shall utilize the following BPTCs to manage stormwater runoff:

1. Maintenance of roads, including rocking and armoring as needed.
2. Cultivation facilities and spoil stockpiles will meet all required setbacks from riparian areas.
3. Regulated products will be safely stored with secondary containments.
4. Proper management of solid, liquid and cultivation waste.
5. Irrigation and fertilizer application will be applied at agronomic rates.

WATERSHED AND HABITAT PROTECTION

A qualified professional has been retained to evaluate the potential for threatened, rare, or endangered species, and wetland habitat near the project site. Upon completion, the Biological Resource Assessment and Wetland Delineation (if applicable) shall be filed with HCPD.

The applicant shall not cultivate within Humboldt County's Streamside Management Area (SMA). All cultivation areas within the SMA shall be removed and remediated. An Onsite Relocation and Remediation Plan shall be submitted to HCPD for approval prior to relocation.

Any grading and earthwork activities will be conducted by a licensed contractor in accordance with approved grading permits and the SMP. Maintenance and repair strategies for site development and road improvements will utilize best practicable treatment and controls, such as outsloping of roads, installation of water bars or other appropriate measures, to maintain slope integrity. Cultivation sites will be developed in

accordance with SWRCB's BPTCs for site development to ensure erosion control measures are effective to not allow discharges to streams and aquatic habitats.

2.3.1 INVASIVE SPECIES CONTROL PLAN

The cannabis cultivator shall not plant or seed noxious weeds. Prohibited plant species include those identified in the California Invasive Pest Plant Council's database, available at: www.cal-ipc.org/paf/. Locally native, non-invasive, and nonpersistent grass species may be used for temporary erosion control benefits to stabilize disturbed land and prevent exposure of disturbed land to rainfall. Straw mulch used for erosion control must be weed-free and secured to the ground, if warranted by site conditions.

To prevent transfer of invasive species, all equipment used at the cannabis cultivation site, including excavators, graders, etc., shall be cleaned before arriving and before leaving the site.

ENERGY PLAN

Outdoor cannabis cultivation utilizes light deprivation techniques that do not require electricity. Supplemental string lighting is used in nursery hoophouses. The primary power source is PG&E. Generators shall be used as a back-up power source and shall not exceed 60 decibels at the property line, or 50 decibels at 100 feet, or any tree line or potential habitat area. See additional info on generators in Section 2.5 Noise Source Assessment and Mitigation Plan.

2.4.1 LIGHT POLLUTION CONTROL PLAN

The cultivator shall shield nursery hoophouses so that no light is visible from neighboring properties between sunset and sunrise. The light source should comply with the International Dark Sky Association standards for Lighting Zone 0 and Lighting Zone 1, and be designed to regulate light spillage onto neighboring properties resulting from backlight, uplight, or glare (BUG). Should the Humboldt County Planning Division receive complaints that the lighting is out of alignment or not complying with these standards, within ten (10) working days of receiving written notification that a complaint has been filed, the applicant shall submit written verification that the light shielding and alignment has been repaired, inspected and corrected as necessary.

NOISE SOURCE ASSESSMENT AND MITIGATION PLAN

A single backup propane generator (Kohler Decision Maker 3500) is kept on site for power outages. The combined decibel level for all noise sources measured at the property line shall be no more than 60 decibels.

Where applicable, sound levels must also show that they will not result in the harassment of Marbled Murrelet or Spotted Owl species. Conformance will be evaluated using current auditory disturbance guidance prepared by the United State Fish and Wildlife Service, and further consultation where necessary.

A Noise and Light Attenuation Plan shall be submitted to HCPD and CDFW within 30 days of the execution of the final permit.

USE AND STORAGE OF REGULATED PRODUCTS

Great Expectations, Inc. shall employ BPTCs when storing, handling, mixing, applying, and disposing of all fertilizers. All agricultural chemicals shall be stored on shelving in secondary containment totes within the designated ag chem storage areas. The cultivator shall follow required regulations and manufacturer's recommendations in the storing, handling, mixing, application, and disposal of any and all other regulated products. The cultivator shall

provide personal protective equipment (PPE) and absorbent materials to be used in the event of a spill.

Table 2: Inventory of Agricultural Chemicals	
Product Name	Product Type
Compost	Soil amendment
Earthworm castings	Soil amendment
Dr. Earth 4-4-4	Soil amendment
Perfect Blend 4-4-4	Soil amendment
Glacial rock dust	Soil amendment
Bat guano	Soil amendment
Sea Green	Fertilizer
Max Sea Triple 16	Fertilizer
Grow More Triple 16	Fertilizer
Grow More 4-26-26	Fertilizer
Bud Load	Fertilizer
Carbo Candy	Fertilizer
Cal Mag	Fertilizer
Sulphur	Integrated pest management
Plant Therapy	Integrated pest management
Aza Pro	Integrated pest management
Companion (bacillus subtilis)	Integrated pest management
Safer Inspect soap	Integrated pest management
Grandevo	Integrated pest management

The *Agent In Charge* is responsible for proper applications of regulated products and will be trained in accordance with the Department of Agriculture and issued through the Humboldt County Agricultural Department.

Great Expectations, Inc. will enroll with the Humboldt County Environmental Health Department (HCEHD) as the Certified Unified Program Agency and will comply with inventory reporting and response plan requirements.

A copy of the Operations Plan will be kept on site by the Agent in Charge and will contain all material safety data sheets (MSDS) for all regulated products used on site.

FUELS AND OILS

Propane is stored in ten (10) 7-gallon tanks approved and rated for propane storage. Gasoline for farm equipment and generators is stored in six (6) 5-gallon containers rated for fuel storage. Equipment maintenance and servicing takes place offsite.

WASTE MANAGEMENT PLAN

2.8.1 SOLID WASTE MANAGEMENT

Garbage and recycling are stored in secure containers within the shed adjacent to the residence. The waste storage area shall comply with BPTCs to prevent wildlife tampering and transport of waste to waters of the State. Solid waste is transported to Eel River Disposal once a week. Recycling is transported to Eel River Disposal once a month.

2.8.2 CULTIVATION WASTE AND SOIL MANAGEMENT

Cultivation waste such as root balls, branches, and leaves are composted. Other cultivation-related waste and recyclables such as nutrient containers, pots, and bags are stored in the secure waste storage area as noted on the attached site plan and transported to the Redway Transfer Station as needed. Spent soil will be planted with cover crop or tarped according to BPTCs. Soil will be analyzed by a testing facility and after consultation will be amended and reused. New potting soil will be purchased and delivered as necessary.

2.8.3 WASTEWATER MANAGEMENT

Onsite wastewater treatment is managed via a septic system for the existing residences. The septic leachfield location is noted on the attached site plan.

The cultivator shall provide ADA accessible portable toilets onsite for employees. Restrooms shall be located within 50 feet of the existing cultivation areas.

EMPLOYEE PLAN

Great Expectations, Inc. is an "agricultural employer" as defined in the Alatorre-Zenovich-Dunlap-Berman Agricultural Labor Relations Act of 1975 (Part 3.5 (commencing with Section 1140) of Division 2 of the Labor Code), and complies with all applicable federal, state and local laws and regulations governing California Agricultural Employers.

2.9.1 JOB DESCRIPTIONS AND EMPLOYEE SUMMARY

- *Agent in Charge*: Oversight and management of the entire facility. Responsibilities will include but not be limited to: personnel, records keeping, budget, and liaison with State and County inspectors as needed.
- *Lead Cultivator*: Oversight and management of the day to day cultivation of commercial cannabis cultivation. This will include but not be limited to: irrigation, fertilization, pesticide management and harvest.

Great Expectations, LLC currently performs the role of Agent in Charge and Lead Cultivator, the applicant seasonally employs family members living on site to perform tasks related to cannabis cultivation.

2.9.2 EMPLOYEE TRAINING AND SAFETY PRACTICES

All cultivation and harvesting activities are performed by trained employees on procedures for cultivation, harvesting, use of pruning tools, proper application and storage of pesticides and fertilizers. All staff are provided with proper hand, eye, body Personal Protective Equipment (PPE). Access to onsite cultivation and the drying and processing facilities are limited to authorized staff of Great Expectations, Inc. A copy of the Operations Plan will be

kept on site by the Agent in Charge and will contain all material safety data sheets (MSDS), and emergency contact numbers for fire, poison control, and emergency response.

ON SITE HOUSING AND PARKING PLAN

There are three (3) existing residences on the subject parcel. No new residential structures are proposed as part of this project. Parking spots for eight (8) vehicles are located in the gravel driveways near the residences and processing building. See attached site plan for parking locations.

SECURITY PLAN

There is a locked gate at the entrance to the parcel. A *No Trespassing* sign is proposed near the gate. Motion sensor lighting outside of the cultivation facility will be installed to illuminate the cultivation and processing area as well as the entrance to the site. Additional measures being considered by Great Expectations are the installation of security cameras at the entrance to the site, residence, and processing facility with data storage for up to thirty (30) days with an alarm system for the cultivation facility and residences.

3. CULTIVATION PLAN

PROPAGATION

Juvenile plants grown onsite in hoopouses designated for immature plants. Juvenile plants are typically obtained from 'mother plants' that demonstrate the desired genetics for the specific cannabis strain. Cuttings are sampled from the mother plants and are rooted into a growing medium, to produce 'clones.' Once fully rooted they are transplanted directly into 4" gallon containers. The juvenile plants are irrigated using hand watering methods. After 10 days the clones are then transplanted into beds with a soil medium and moved into a light deprivation hoopouse or full-term outdoor area where they continue their 'vegetative' cycle.

3.1 CULTIVATION PLAN AND SCHEDULE

Outdoor Cultivation

Cultivation areas will be located outside of the SMA in natural clearings previously used for cannabis cultivation. Light deprivation cultivation will take place in hoopouses constructed of polyvinyl tarping and PVC tubing, and full-term outdoor cannabis will be planted in 300-gallon soft-sided grow bags. A table including dimensions of each cultivation area is included on the attached site plan.

The monthly cultivation schedule in Appendix E details the proposed cultivation activities associated with the operation for up to two cycles per year of cannabis grown in hoopouses and one cycle per year for full-term outdoor cannabis. The applicant agrees to comply with the Performance Standards for cultivation set forth in Ordinance 2559.

3.2 IRRIGATION PLAN AND SCHEDULE

Irrigation will occur via hand watering methods. Great Expectations maintains that the amount of irrigation needed is better controlled via hand watering and allows for a more tailored irrigation plan and better plant inspection and nutrient application.

3.3 HARVESTING, DRYING AND TRIMMING

Once the *Lead Cultivator* has determined the plants are at their peak, harvest procedures will be initiated. This entails removing the flowering branches from the plant and suspending them in the drying shed with ventilation supplied by oscillating fans. The drying process takes

approximately one week. Dried flowers are then 'bucked' off the stalks and into manageable sizes for onsite processing via trim machine.

The finished product is stored in the processing room before being transported to a licensed distribution facility. The waste product or 'trim', is collected and placed into bins to be weighed and labeled. The trim will also be transported offsite and to a licensed manufacturing facility.

3.4 PROCESSING

Processing will take place at a licensed offsite facility until the applicant can upgrade the processing building to meet ADA/commercial standards. Once commercial building permits are obtained, processing will take place onsite in designated processing building (see attached site plan). Trimming of dried cannabis will be conducted by seasonal employees under the supervision of the *Lead Cultivator and/or Assistant Cultivator*. ADA compliant bathrooms and parking spaces shall be provided for seasonal employees. The trimmed material will be placed into sterilized locking lid bins. These bins will be weighed, labeled, logged, and sealed. Great care will be taken to ensure that the original numbered corresponding plant tag remains affixed to each bin. The *Agent in Charge* will then deliver the sealed and logged bins to the designated secured area within the processing area.

The waste product from the machines or "trim" will be collected and placed into sterilized locking lid bins. These bins will then be weighed, labeled and sealed for transport and delivery to an offsite, contracted, licensed Facility. All weights will be recorded in the master log. Once securely in the Processed Material Holding Facility, the *Agent in Charge/Lead Cultivator* will begin to weigh, vacuum seal and label individual one-pound packages for distribution. After weighing, labeling, and packaging each unit will be placed inside of a lock box or safe inside the designated secured area in the processing facility.

4. PRODUCT MANAGEMENT

PRODUCT TESTING

Samples will be selected from harvested cannabis strains to be tested by a licensed third-party lab and in accordance with state and local regulations. The finished product is labeled with the Great Expectations, Inc. logo and will include tracking Identification provided by CDFA's Track and Trace program.

PRODUCT INVENTORY AND TRACKING

Inventory of all plants shall be performed by the *Agent in Charge/Lead Cultivator*. All commercial cannabis will be tracked from clone to packaged product and accounted for and inventoried. Records will be kept at each phase of the harvest and processing operation for reporting and compliance with State and Local regulations. The information recorded for each harvest includes

- Weight of flowers, by product, and trim waste
- Weight of trimmed buds
- Staff identification
- Product ID numbers and product weight
- Physical location of plant material at all times

Reporting

The Master Log will contain reports on the harvest process, providing total weight harvested and trimmed at each weigh point, and compares that to final weight post-trim, including waste. Discrepancies are traced to the source, documented, and reported to the Agent in Charge. After investigation, any appropriate corrective measures are taken. All cultivation and harvest records are retained for a minimum of five (5) years.

TRANSPORTATION AND DISTRIBUTION PLAN

Transportation will be handled via a third party, contracted, licensed transporter/distributor in accordance with MMRSA. All merchantable product will only be distributed through licensed medical cannabis dispensaries. Prior to moving packages from the on-site holding facility to another physical location, a transport manifest will be created by the distributor/transporter. This distribution document is required for each movement of packages and will be recorded in the Master Log.

The *Agent in Charge* is responsible for performing a physical inventory of all package being transported, reconciling the physical inventory with the transport manifest, ensuring that packaging material is intact, and labeling is secure. The distribution document records the current location and status of the packages, such as "in-transit" or "received." The licensed distributor must also create detailed transport manifests for the package distribution. The manifest contains details such as:

- Time of departure
- Time of arrival
- Product Identification and product weight
- Route to be travelled
- Origin and destination addresses

5. RESOURCES

Bass, Ronald E., Kenneth M. Bogdan, and Terry Rivasplata. 2013. CEQA Desktop. Point Arena, CA; Solano Book Press. Page 44.

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County of Humboldt. *Medical Marijuana Land Use Ordinance (MMLUO) – Phase IV, Commercial Cultivation, Processing, Manufacturing and Distribution of Cannabis for Medical Use* (Staff Report to the Board of Supervisors). January 26, 2016. <<https://humboldt.legistar.com/Calendar.aspx>> Date accessed: March 28, 2016.

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State Board of Equalization. Information on the Sales and Registration for Marijuana Sellers. June 2007. <<http://www.boe.ca.gov/news/pdf/173.pdf>>

State of California. Guidelines for the Security and Non-Diversion of Marijuana Grown for Medical Use. August 2008. <http://www.ag.ca.gov/cms_attachments/press/pdfs/n1601_medicalmarijuanaguidelines.pdf>

**Appendix A: Personnel
Acknowledgement Form**

Personnel Acknowledgement Form

It is the intention of GREAT EXPECTATIONS, INC. to create an enjoyable, safe and sane workplace. We feel that understanding and compliance with our Operations Manual will create just that. It is the responsibility of each employee to read and understand the procedures outlined herein. If after reading and reviewing this entire document, you have any questions please see the Agent in Charge immediately for clarification. By signing this document below, it confirms your reading, understanding and adherence to the entire **GREAT EXPECTATIONS, INC., OPERATIONS MANUAL FOR MEDICAL CANNABIS CULTIVATION.**

Employee sign and date

Agent in Charge sign and date

Appendix B: Site Plan

**Appendix C: Pesticide
Storage, Handling and
Application Plan**

GREAT EXPECTATIONS, INC.
Pesticide Storage, Handling and Application Plan

All pesticides, disinfectants, fungicides and agricultural chemical products used by the GREAT EXPECTATIONS, INC. will maintain strict compliance with standards imposed by the Humboldt County Agricultural department and State of California Department of Agriculture Department and US Environmental Protection Agency. The Agent will maintain a current Private Applicators License with the Humboldt County Agricultural Department. This license will be posted and a copy will be entered into the Manager's Handbook and available for view by any regulatory agency deemed appropriate by Humboldt County or State of California.

Storage

All pesticides, disinfectants, fungicides and agricultural chemicals will be secured in an appropriate locked and labeled housing and accessed only by those employees that have been trained under the guidelines of *State of California Agricultural Department Personal Pesticide Application License* guidelines in handling, application and disposal of each product. Entry into the locked facility will be logged by the Lead Cultivator. This log will include: The name of employee removing the material, the date and time of day and the amount and type of pesticide removed.

Any over-the-counter pesticide products may be applied by either the Agent or trained personnel in accordance with State of California Agricultural Department's Private Applicators License criteria. Training of employees will be in accordance with *State of California Private Applicators License* criteria. These products will be limited to safe chemicals recognized by the Humboldt County Department of Agriculture, the California Department of Agriculture and the Federal EPA. Copies of all MSDSs and labels will be clearly identified and maintained onsite at all times in the Lead Cultivators Handbook. GREAT EXPECTATIONS will make available to its employees saline eye wash stations where ever pesticides are stored.

Handling

The handling of pesticides/fungicide will be done in accordance with *State of California Agricultural Department Personal Pesticide Application License* guidelines. Handling will include, transportation from retail outlet to cultivation site, logging and entering into secured, labeled storage, mixing, preparation, transport to application locations on site, application and disposal. These activities will be logged into the Master Log immediately by the *Lead Cultivator*. By having a strictly monitored

Pesticide Management plan in place, GREAT EXPECTATIONS will strive for a "ZERO SPILL POLICY". In the event of a spill, GREAT EXPECTATIONS will maintain on site an Emergency Containment and Clean Up policy in accordance with *State of California Agricultural Department Personal Pesticide Application License* guidelines.

GREAT EXPECTATIONS will also maintain on site in a clearly marked and accessible secure location any materials deemed necessary for clean up or spill containment and abatement. GREAT EXPECTATIONS will maintain a well-marked and easily accessible plan for accidental personnel exposure as well as proper applicators training as set forth by *State of California Agricultural Department Personal Pesticide Application License* guidelines in the event of such accidental exposure. Any spills or accidental personnel exposure will be reported to the appropriate agencies as deemed necessary by *State of California Agricultural Department Personal Pesticide Application License* guidelines. These incidents will also be documented into the Master Log by the Lead Cultivator.

Application

All application will be done in accordance with *State of California Agricultural Department Personal Pesticide Application License* guidelines. A copy of all applications will be manually entered into the Master Log. Proper eye, face and body protective wear as well as approved respirators shall be provided by GREAT EXPECTATIONS and worn and available at all times during application of all pesticides/fungicides. A preventive application program per manufactures directions and label requirements will be established from the onset of the plants initial transplant. Application frequency will vary with each phase of growth or infestation pressure. This will help to ensure the least amount of pesticide/fungicide will be needed. Application will end no less than thirty days before harvest or by manufactures able requirements, whichever is longer.

During application factors such as wind, temperature and humidity will be taken into account. This will ensure that the pesticide/fungicide is used in the most efficient manner and will mitigate drift. Pesticides will be applied using a variety of methods including atomizer, backpack sprayer and air less sprayer. Nozzle types and pressure settings will be determined by manufacture directions. Anywhere pesticide is applied GREAT EXPECTATIONS will provide a saline eye wash station in case of accidental exposure.

Disposal

Any mixed solutions will be used to their entirety. In the event there is a surplus of used mixed solution, it will be disposed of according to guidelines set forth by *State of*

California Agricultural Department Personal Pesticide Application License procedures. After the applicator has finished application, the protective wear shall be discarded and disposed according to *State of California Agricultural Department Private Applicators License* guidelines. All bottles, containers or receptacles that have come into contact with, or contained, any product that falls under the state's guidelines for pesticides, disinfectants, fungicides and agricultural chemicals shall be washed, rinsed and or disposed of according to strict EPA and *State of California Agricultural Department Private Applicators License* guidelines. Proper training of employees in rinsing, washing and disposal shall be overseen by the Licensed Lead Cultivator on premise. All washing, rinsing or disposal of any product packaging, applicator or protective clothing will be logged into the Master Log.

**Appendix D: Emergency
Procedures and Contact
Information**

Emergency Procedures Instructions

GREAT EXPECTATIONS, INC.

The first priority in the event of an emergency is for the safety of all people present. Move quickly out of area danger. Meet at assigned meeting place to get a headcount. Enact Emergency Procedures.

Emergency Phone Numbers

Dial 911 for Fire/Police/Ambulance:

1. Tell the operator which emergency service you want
2. Wait until the service answers
3. Give the following address:

8686 Bell Springs Road
Harris, CA 95542

4. Do not hang up until told to do so by the 911 Operator

Other Emergency Contacts

Humboldt County Sheriff: 707-445-7251

Garberville CALFIRE Fire Dept: (707) 923-2645

Humboldt County HazMat: 707-445-6215

Humboldt County Ag Dept: 707-441-5260

Fire and Emergency Procedures Checklist

You must know and understand what to do if a fire occurs. Your first concern is the immediate safety of visitors and staff; secondly, the need to call emergency services and then to contain the fire but only if it is safe to do so. If help is available, allocate responsibilities to others to create a competent firefighting team.

- Evacuate people from the area
 - If it is safe to do so, switch off power to all equipment
 - Call the fire department (dial 911)
 - If a small fire, use your fire extinguisher if it is safe to do so – try to contain and extinguish the fire
 - If the fire is near a fuel tank, do not attempt to extinguish the fire – retreat to a safe distance
 - Be prepared to direct the fire service to the scene
-

Spill Procedures Checklist

You must know and understand what to do if a spill occurs. Your first consideration is the immediate safety of visitors and staff; secondly, the need to call emergency services and then contain the spill if it is safe to do so. If help is available allocate responsibilities to others to create a competent team to deal with the spill.

- If the spill is from the hose or tap, shut the isolation valve
 - Warn people in area of the spill – evacuate if necessary
 - Remove sources of ignition if flammable substance present
 - Evaluate the spill – only respond if you believe it is safe to do so
 - Refer to the safety data sheet or call on an approved handler or other specialists for advice
 - If necessary, call emergency services and advise local authority
 - Put on safety equipment (e.g. overalls, boots, gloves, eye protection, etc.)
 - Contain the spill if it is safe to do so – utilize a drip tray or oversize container or spill kit to soak up the substance
-

- Dispose of waste safely as set out in the material safety data sheet

Incident Reporting

Every accident resulting in injury or damage to farm property must be reported to your manager immediately.

Respond to the accident promptly and positively

Collect relevant information about the accident

Develop and take remedial actions

Complete insurance claims and reports required

First Aid

- A first aid kit must be kept on the premises and maintained
- All staff must know basic first aid procedures

Minor Injury Accidents

- Minor cuts and abrasions must be attended to immediately
- If in doubt contact a physician or call 911

Serious Injury Accidents

- Call an ambulance immediately (dial 911)
- Seek the assistance of any first responder
- Stabilize Victim
- Advise your manager

Property Damage

- All damage to farm property must be reported to your manager
-

Emergency First Aid-Procedures

Control of Bleeding

1. Direct pressure – use your hand(s).
2. Elevate (raise) the limb
3. Apply a pad and firm bandage.
4. If necessary use clean rags or clothing.

Remember!!

- *Always check circulation below the bandage!*
- *If there is tingling, numbness or blueness loosen the bandage.*

Management of Burns

1. Cool the burnt area with cool water for 10-15 minutes
2. If necessary, cover the burn with a clean dressing or plastic wrap before removing person to medical aid.

Remember!!

- *Do not burst blisters.*
 - *Do not remove clothing that is stuck.*
 - *Do not apply creams*
-

Management of Eye Injuries

Foreign bodies in the eye(s)

- 1. Wash the eye(s) with eyewash or clean water.**
- 2. If the foreign body is stuck to the eye DO NOT attempt remove.**
- 3. Place covering over the eye and obtain medical attention.**

Management of Chemicals in Eye(s)

- 1. Wash the eye(s) with clean cool water for at least 15 minutes.**
- 2. Wash from near the nose outward.**
- 3. Always wash under the upper eyelid.**
- 4. Obtain medical attention**

Breathing

If a person is breathing but unconscious turn them on their side to prevent tongue swelling or vomit from obstructing airway.

If person is not breathing

- **Check airway for blockage and clear**
- **Call 911**
- **Administer CPR**

Location of Firefighting Equipment, Spill and First Aid Kits

A fire extinguisher is located in the following places:

- **All Cold Frames**
- **Nutrient and Fertilizer Storage**
- **Drying and Processing Facility**

A first aid kit is located in the following places:

- **Cultivation Site**
- **Drying and Processing Facility**

A spill kit is located in the following places:

- **Cultivation Site**
 - **Processing Facility**
-

**Appendix E: Cultivation
Activities Schedule**

**Appendix F: Material Data
Safety Sheets**