CHRONIC CREEK, LLC

Cultivation and Operations Manual Humboldt County, CA

> Proposed Commercial Cannabis Cultivation Facilities



DECEMBER 2019

PREPARED FOR:

CHRONIC CREEK LLC APN No. 222-231-012-000

Proposed Commercial Cannabis Cultivation Facility

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OPERATIONS MANUAL

CHRONIC CREEK,LLC

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1. PROJECT SUMMARY

1.1. PROJECT OBJECTIVE

Chronic Creek, LLC is Proposing to Permit Commercial Cannabis Cultivation Activities In Accordance With The County Of Humboldt Commercial Cannabis Land Use Ordinance (CCLUO - Ordinance No. 2554). The applicant intends to permit 22,000 square feet (SF) of cannabis cultivation.

Drying to occur in a proposed barn. Trimming and processing will on site in the proposed Shop Building. Water is sourced from three (3) existing permitted wells.

1.2. SITE DESCRIPTION

The Project is located in Humboldt County on APN 222-231-012-000 in the Garberville area, on the southwest side of Connick Creek Rd. and, approximately 2.6 miles from the intersection of Sprowl Creek Road and Hwy 101. The subject parcel approximately 31.61 acres in size (per the County of Humboldt's WebGIS), having varying topography and slopes less than 15% and generally the property is characterized as wooded with open meadows.

The majority of the parcel is wooded with three (3) areas that are grassy flats are recently cannabis cultivation. The southern parcel boundary is delineated by Connick Creek running west to east. Connick Creek Rd runs through the center of the parcel from northeast to southwest. The pre-existing and proposed cultivations are located where the natural slope is between 10% and 30% on the west side and less than 5% at the other 2 sites, in greenhouses and on flats dispersed throughout the property.

1.3. LAND USE

The subject property has a General Plan designation of Residential Agricultural (RA-5-20), and Airport Land Use Compatibility Zone Overlay (AP) as identified by the Humboldt County General Plan and has the combining zone of Agricultural Exclusive (AE-B5-160), AG-B-5-(5); Agricultural Grazing) and Special Building Site (B-5(5)). Land uses surrounding the parcel range from Improved Residential to Vacant Timberland The surrounding parcels are all zoned similar to the subject parcel.

1.4. STATE AND LOCAL COMPLIANCE

1.4.1. STATE OF CALIFORNIA COMMERCIAL CANNABIS ACTIVITY LICENSE

Chronic Creek, LLC will obtain a Commercial Cannabis Activity license from the State of California at time such a license becomes available within local jurisdiction authorization.

1.4.2. STATE WATER RESOURCES CONTROL BOARD

Chronic Creek, LLC is registered as a Tier 1 - Low Risk site with the SWRCB under the Cannabis Cultivation General Order (Order No. WQ 2019-0001-DWQ) General Waste Discharge Requirements and Waiver of Waste Discharge Requirements for the Discharges of Waste associated with Cannabis Cultivation. [App No.416406]

1.4.3. CAL-FIRE

The subject property is located within a State Responsibility Area (SRA) for fire protection. Several improvements are proposed in order to meet SRA requirements, including designating a fire turn- around and pull-out area for emergency vehicles, and management of trees and vegetation around existing structures to maintain the required 100-foot defensible space. All structures on the property meet the 30-foot SRA setback requirements from property lines.

1.4.4. CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE

A Lake and Streambed Alteration Agreement (LSAA) from the Department of Fish and Wildlife (DFW) will be applied for.

1.4.5. HUMBOLDT COUNTY PLANNING AND BUILDING DEPARTMENT

All necessary building permits will be obtained from the Humboldt County Building Department for all existing and proposed structures and supporting infrastructure upon approval of the proposed Cultivation for a Zoning Clearance Certificate, in accordance with the Humboldt County Planning Departments Commercial Cannabis Land Use Ordinance (CCLUO).

1.4.6. CULTURAL RESOURCES

If buried archaeological or historical resources are encountered during construction or cultivation activities, the applicant or contractor shall call all work in the immediate area to halt temporarily, and a qualified archaeologist is to be contacted to evaluate the materials. Prehistoric materials may include obsidian or chert flakes, tools, locally darkened midden soils, groundstone artifacts, dietary bone, and human burials. If human burial is found during construction, state law requires that the County Coroner be contacted immediately. If the remains are found to be those of a Native American, the California Native American Heritage Commission will then be contacted by the Coroner to determine appropriate treatment of the remains. The applicant is ultimately responsible for ensuring compliance with this condition.

2. CULTIVATION AND PROCESSING

2.1 PROPAGATION AND INITIAL TRANSPLANT

Juvenile plants are either purchased from a legal nursery or propagated on site from seeds that demonstrate the desired genetics for the specific cannabis strain.

Cuttings are purchased as trays with clones rooted into a growing medium, typically oasis cube trays. The rooted clones are are transplanted directly into one (1) gallon plastic containers within the nursery (see Appendix A for nursery locations). The juvenile plants are irrigated using hand watering methods. After 3 more weeks the clones are then transplanted into a mixed light greenhouse where they continue their 'vegetative' cycle.

Propagation will take place in nursery greenhouses. The cuttings are grouped in immature plant lots of 100 until they are flowering, in which they will each be assigned an individual tag in the state track and trace system.

2.2 CULTIVATION PLAN AND SCHEDULE

The proposed cultivation is located on three (3) different flats and in sixteen (16) greenhouses for a total of approximately 22,000 square feet.

There are two (2) greenhouses proposed on the Western Flat - Greenhouse #'s - 1 & 2, both with dimensions of 30' x 60' (1,800 SF) for a total of 3,600 square feet (sf) of mixed-light cultivation.

There are eight (8) greenhouses proposed on the Central Flat - Greenhouse #'s - 3, 4, 5, 6, & 7 each with a dimension of 20' x 100' (10,000 SF), Greenhouse # 8 with dimensions of 12' x 80' (960 SF) Greenhouse #10 with dimensions of 20 ' x 80' (1,600 SF) for a total of 2,560 square feet of nursery propagation. The total approximate cultivation area is 12,560 square feet.

There are six (6) greenhouses proposed on the Eastern Flat - Greenhouse #'s - 11, 12, 13, 14, 15 & 16 each with a dimension of 20' x 50' for a total of 7,200 square feet of outdoor cultivation.

The proposed greenhouses will utilize light deprivation and supplemental lighting methods to produce up to two (3) flowering cycles per year. The monthly Cultivation Schedule in Appendix B details the cultivation activities. Hoophouses without supplemental lighting to be used for the first 1 to 3 years until PG&E service is provided, at that time hoops will be replaced with auto-deprivation Greenhouses.

Drying for the harvested cannabis on the Eastern and Central Flats will occur in the proposed 1,800 SF Barn (30' \times 60') located on the Central Flat, as denoted on the Plot Plan. (Appendix A) Drying for the harvested cannabis on the Western Flat will occur in the proposed 1,800 SF Barn (30' \times 60') also located on the Western Flat, as denoted on the Plot Plan. (Appendix A)

Cultivation Operations and Generator Usage Schedule						
Month	Cultivation Activities	Generator Usage				
January	Propagate immature plants	Propagating immature plants				
February	Feb 15- first planting (supplemental lighting)	Generator usage (until PGE upgrade provided) ~12 hours/day				
March	Watering/maintain plants (supplemental lighting)	Generator usage (until PGE upgrade provided) ~12 hours/day				
April	Watering/maintain plants	Generator usage (until PGE upgrade provided) ~12 hours/day				
May	May 1st - First Harvest, re-plant (supplemental lighting)	Generator usage (until PGE upgrade provided) ~12 hours/day				
<u>June</u>	Watering/maintain plants					
July	July 15 - Second harvest, replant					
August	Watering/maintain plants (light deprivation)					
September	Watering/maintain plants					
October	Third Harvest, cover crop/winterization	Generator usage for drying (until PGE upgrade provided) ~12 to 18 hours/day				
November	Drying/processing, maintain mothers	Generator usage (until PGE upgrade provided) ~12 to 18 hours/day				
December	Processing/maintain mother plants	Minimal, keeping mother plans watered/fed				

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2.3 IRRIGATION PLAN AND SCHEDULE

Irrigation and fertigation of plants occurs using top-feed hand watering methods. Chronic Creek, LLC maintains that irrigation and fertigation is more efficiently managed via hand watering, allowing for daily inspection of each plant by the cultivator and tailored irrigation and nutrient application depending on the needs of each individual plant. The monthly Cultivation Schedule in Appendix C details the irrigation activities associated with all cultivation.

2.4 PROCESSING PLAN

2.4.1 PROCESSING FACILITY

Cannabis processing will occur on site in the proposed 24' x 24' Shop Building, and the two proposed 30' x 60' Drying Barns. The facility will incorporate all aspects of processing including drying, curing, and trimming, and will include an ADA restroom for employees. The restroom will include a working flush toilet as well as a sink with cold and hot running water provided by an on demand electric water heater. The proposed building will have an engineered concrete slab and will conform to commercial building standards per the 2016 California Building Code.

2.4.2 PROCESSING ACTIVITIES

2.4.1 HARVESTING

Plantings that are ready for either partial plant harvest (manicure) or whole plant harvest are to be cut / manicured, are transferred to the processing facility were they are weighed wet and recorded as Harvest Batches for METRC compliance.

2.4.2 DRYING, CURING & GRADING

The Harvest Batches are moved into the drying room, grouped according to Batch with their flowering branches removed and suspended. The drying room equipped with ventilation fans and dehumidifiers. The drying process takes approximately one week.

2.4.3 BUCKING & TRIMMING

Once the Harvest Batch has dried, the dried flower is then bucked into manageable buds and packed in plastic containers with lids and weight is recorded. These are now identified as a product and get a new Product Tag. In process Products are securely stored until transported to the processing facility on-site.

Bucked down buds are fed into an automated trimming machine. The machine-trimmed buds receive a finishing trim by hand before being weighed, packaged, labeled, logged, and sealed.

The finished product is securely stored before being transported to a licensed distribution facility. The waste product, or 'trim', from the machines is collected and sold to manufacturers.

2.5. EMPLOYEE PLAN

2.5.1 STAFFING REQUIREMENTS

CHRONIC CREEK, LLC 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.

2.5.1.1 JOB DESCRIPTIONS AND EMPLOYEE SUMMARY

- > Agent in Charge: Responsible for business oversight and management of the CHRONIC CREEK, LLC. Responsibilities include, but are not limited to: inventory and tracking, personnel management, record keeping, budget, and liaison with State and County inspectors as needed. This is a part-time to full-time, seasonal position.
- ➤ <u>Lead Cultivator</u>: Oversight and management of the day to day cultivation of medical cannabis. Responsibilities include, but are not limited to: plant propagation and transplant, soil management, irrigation, fertilization, pesticide management, and harvest activities. This is a full-time, year-round position.
- > <u>Seasonal Laborer:</u> Provides cultivation, harvesting, and processing support including trim machine operation and hand-finish trimming. This is a part-time to full-time, seasonal position.

In addition to the Agent and Lead Cultivator positions, up to six (6) full-time seasonal labor positions are employed. The number of seasonal laborers varies based on the needs of the farm during the cultivation, harvest and processing seasons. During the peak harvest and processing season, there are an estimated total of five (5) employees on site.

2.5.2 EMPLOYEE TRAINING AND SAFETY

On site cultivation, harvesting, drying, and trimming is performed by employees trained on each aspect of the procedure including: cultivation and harvesting techniques and use of pruning tools; proper application and storage of pesticides and fertilizers; trim machine use and cleaning; and correct hand trimming methods. All cultivation and processing staff are provided with proper hand, eye, body and respiratory Personal Protective Equipment (PPE). Access to the onsite cultivation, drying and processing facilities are limited to authorized and trained staff.

All employees are trained on proper safety procedure including fire safety; use of rubber gloves and respirators; proper hand washing guidelines; and protocol in the event of an emergency. Contact information for the local fire department, CAL FIRE, Humboldt County Sheriff and Poison Control as well as the Agent in Charge will be posted at the employee restroom. Each employee is provided with a written copy of emergency procedures and contact information. The material safety data sheets (MSDS) are kept on site and accessible to employees.

For an applicant entity with more than one employee, the applicant entity shall attest that the applicant employs, or will employ within one year of receiving a license, one supervisor and one employee who have successfully completed a Cal-OSHA 30-hour general industry outreach course offered by a training provider that is authorized by an OSHA Training Institute Education Center to provide the course;

2.6.3 TOILET AND HANDWASHING FACILITIES

Portable toilets will be installed adjacent to each cultivation site to ensure workers have rest facilities within \(\frac{1}{2} \) mile of each operating area.

2.6.4 DRINKING WATER SOURCE

Chronic Creek, LLC will use safe, clean, purified drinking water via store bought individual sealed bottled water bottles.

2.6.5 ONSITE HOUSING

The existing cabins located on site is occupied by the employees.

2.6.6 PARKING PLAN

See plot plan for parking locations.

3. SECURITY PLAN

3.1 FACILITY SECURITY

The entrance gates are to remain locked at all times and access to the cultivation area is limited exclusively to employees. All lighting will be designed and located so that direct rays are confined to the property and provide the best quality lighting for security cameras. Security cameras and alarm system will be installed at entrances to the property, the cultivation area, Processing Area, Dry Harvest Storage and Loading / Unloading Zones.

3.1.1 UNAUTHORIZED ACCESS PREVENTION

3.1.1.1 PERIMETER -

The entrance gates are to remain locked at all times and only accessible by Authorized Personnel or authorization through Authorized Personnel for Transporters and Sub- Contractors.

3.1.1.2 CONSTRUCTION

The exterior of barns and processing facility will have low intensity exterior lighting to illuminate the entrances, and will include a small number of motion activated security lights. All lighting will be designed and located so that direct rays are confined to the property and provide the best quality lighting for security cameras.

3.1.1.3 AUTHORIZED PERSONNEL

All Authorized Personnel, Suppliers and Visitors, upon first time arrival will be required to register with the Facility and receive a Laminated Identification if required. Access Levels throughout the Premises will vary on persons responsibility to corresponding processes. All Authorized Personnel are required to wear Identification Badge assigned by company at all times while on property and any Contractors or Sub-contractors, vendors or distributors must at minimum wear a visible name tag while in Limited Access Areas (if required).

3.1.1.4 SECURITY MONITORING MAINTENANCE

Premises must be maintained so that all surveillance has a no obstructed views and that monitoring systems are not interfered with. Regular Inspection and Maintenance shall be performed and recorded.

3.1.1.5 SUSPICIOUS ACTIVITY

When there is any reason to suspect suspicious activity, the first step is to document observations and accurate reporting of behaviors. Second, must be submitted in a timely manner to the Supervisors assigned SAR responsibility.

3.1.2 THEFT AND DIVERSION MEASURES

3.1.2.1 INVENTORY & PERSONNEL TRACKING

Company's use of the California Metrc System allows inventory tracking and reporting of all movements made by cannabis products on site at all times.

3.1.2.2 ACCESSIBILITY TO LIMITED ACCESS AREAS

Personnel Access will be limited to the area use required by job duties as well as specifically scheduled time frames for completion of job duties. In order to further prevent cannabis or cannabis product diversion, all personnel are required to store personal belongings (purses, backpacks etc.) outside of premise.

3.1.2.3 DIVERSION RISKS

The risk of Diversion increases when Cannabis or Cannabis Products are not securely stored, (i.e., Transfers between Facilities) therefore a Supervisor must be present to inspect, document and accompany the product to its next secured holding. Supervisors identification and reports are attached to the Product Inventory Processing.

3.1.2.4 SECURING OF ELECTRONIC RECORDS

All mechanical components for Electronic Records including the Security Alarm System, Video Surveillance System, Inventory and Personnel Tracking System, etc are Stored in the Electronic Storage Room Secured and designated as a High Level Restricted Access Area.

3.1.3 VIDEO SURVEILLANCE MEASURES

3.1.3.1 SYSTEM REQUIREMENTS

The Processing building Surveillance System features complete digital video surveillance capable of 24 hour continuous recording at 15 frames per second, providing clear images in all lighting environments at a resolution of 1280x720. All surveillance recordings are kept for 90 days and display at the current time and date on recorded event.

3.1.3.2 REMOTE ACCESS

Licensee will have remote access to Surveillance and can monitor all activities from off-site, strengthening activity tracking.

3.1.3.3 INTERFERENCE PREVENTION

Location installation of Surveillance cameras are out of persons natural reach and reasonable distance for foreign reach, so that if obstruction were attempted, identification of persons or activity will already be recorded. The Surveillance cameras are fully enclosed and protected from tampering or disabling, as all power and control features are Secured either on site in the Electronic Storage Room or Remotely Controlled by Licensee.

3.1.3.4 SPECIFIED CANNABIS ACTIVITY AREAS

Specified Areas Where Cannabis Or Cannabis Product is Weighed, Packed, Stored, Quarantined, Loaded and Unloaded for Transportation Including Preparation and Transfers

- 1.) Cultivation Sites
- 2.) Weigh Stations
- 3.) Dry Harvest Storage Area
 - a.) Entry & Exit
 - b.) Loading and Unloading Zone
 - c.) Inventory Storage Area
- 4.) Processing Shop Building

3.2 FACILITY HOURS OF OPERATION

Activities associated with cultivation in the greenhouses (watering, transplanting, and harvesting) generally occur during daylight hours. All other activities such as processing typically occur no earlier than 8 AM and extend no later than 8 PM.

4. ENVIRONMENT

4.1 WATER SOURCE & PROJECT WATER USE

4.1.1 SOURCE

Water for *cultivation* irrigation will be provided by the existing permitted wells.

Western Well - Permit # 11/12-13356 (40.092278, -123.817889)

Central Well - Permit # 11/12-13357 (40.092417, -123.81525)

Eastern Well - Permit # 11/12-13358 (40.092361, -123.811167)

4.1.2 USE

Chronic Creek, LLC utilizes water management strategies such as hand watering/drip emitters to conserve water use.

The table below outlines the estimated irrigation water usage for cultivation during a typical year. Variables such as weather conditions and specific cannabis strains will have a slight effect on water use.

All cultivation occurs in greenhouses with smaller plants which use less water than full sun outdoor cultivation.

TABLE 4.1 ESTIMATED ANNUAL IRRIGATION WATER USAGE (GAL)											
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
		1,000	15,200	26,400	28,400	26,400	28,400	26,400	26,400		

4.2 WATER STORAGE

There are five existing 5,000 gallon tanks and two existing 1,100 gallon tanks on-site for a total of 27,200 gallons of storage.

An additional 20,000 gallons of storage is proposed for a total of 47,200 gallons of water storage.

4.3 SITE DRAINAGE, RUNOFF, AND EROSION CONTROL

Chronic Creek, LLC is enrolled with the California State Water Resource Control Board (SWRCB) in accordance with the Cannabis Cultivation General Order as a Tier 1 site, and a Site Management Plan (SMP) will be developed utilizing best management practices (BMP's) in accordance with the SWRCB's recommendations.

4.3.1 SITE DRAINAGE

The sites drainage is from the north. The proposed greenhouses are located away from riparian zones. Proposed Fertilizer and pesticide storage is in a shed with secondary containment to prevent contamination with runoff. Sites have been identified for storage/disposal of spoils and cultivation waste.

4.3.2 SITE RUNOFF

Cultivation facilities will meet all required setbacks from the nearest water course, providing a sufficient buffer to prevent sediment and nutrient delivery. To further prevent runoff to riparian areas, water conservation and containment measures will be implemented including the use of hand irrigation to prevent excessive water use, and the maintenance of a stable, vegetated buffer between the cultivation area and riparian zone.

4.3.3 EROSION CONTROL

Chronic Creek, LLC will utilize best management practices including but not limited to:

- 1. Maintenance of roads, including rocking and armoring.
- 2. Proper management of solid, liquid and cultivation waste (see section 3.8)
- 3. Cultivation facilities and spoil stockpiles will meet all required setbacks from riparian and wetland areas.
- 4. Irrigation and application of fertilizers will be applied at agronomic rates.
- 5. Regulated products will be safely stored with secondary containment (see section 3.7)

4.4 WATERSHED AND HABITAT PROTECTION

Adherence to the proposed best management practices ensures that the watershed and surrounding habitat are protected. The cultivation activities and associated structures meet all required setbacks from the nearest watercourse, providing a suitable buffer between the cultivation operation and habitat. Additionally, site development and maintenance activities utilize BMP's in accordance with the SWRCB's recommendations. Any grading and earthwork activities will be conducted by a licensed contractor in accordance with approved grading permits.

An Invasive Species Control plan was conducted and no invasive plant or wildlife species were observed. Refer to the appended technical report from a biologist. (Biological Assessment Report, page 22, section 4.4.7)

4.5 MONITORING AND REPORTING

Monitoring will be conducted to confirm the effectiveness of corrected measures listed in the Site Management Plan (SMP) and determine if the site meets all Standard Conditions. Inspections will include photographic documentation of any controllable sediment discharge sites as identified on the site map. Visual inspection will occur at those locations on the site where pollutants or wastes, if uncontained, could be transported into receiving waters, and those locations where runoff from roads or

developed areas drains into or towards surface water. The inspection will also document the progress of any plan element subject to a time schedule, or in the process of being implemented. A monitoring plan is included in the SMP with photo points identified on SMP map.

Onsite monitoring shall occur:

- > Before and after any significant alteration or upgrade to a given stream crossing, road segment, or other controllable sediment discharge site. Inspection should include photographic documentation, with photo records to be kept on site.
- > Prior to October 15 and December 15 to evaluate site preparedness for storm events and stormwater runoff.
- > Following any rainfall event with an intensity of 3 inches precipitation in 24 hours. Precipitation data can be obtained from the National Weather Service by entering the site zip code at http://www.srh.noaa.gov/forecast.

A Monitoring and Reporting Form (Order No. WQ 2019-0001-DWQ Attachment B) will be submitted upon initial enrollment in the Order (NOI) and then annually by March 1st to the State Water Resource Control Board. The annual report will include data from the monitoring reports.

4.6 ENERGY PLAN

Electricity for cultivation and domestic uses is provided by PG&E and emergency back up generators. Use of the on-site generators are limited to power outage events, and follows all guidelines set up by Humboldt County and the State of California. The generators are located away from the property line to ensure the noise level does not exceed 60 decibels at the property line. The generator and diesel fuel is located within a secondary containment trough.

4.7 NOISE CONTROL MEASUREMENTS

The generators will be located in the generator sheds to ensure the noise level does not exceed 50 decibels measured at 100 feet. The generator and diesel fuel are located within a secondary containment trough.

Greenhouse fans shall not exceed 50 decibels at 100'.

Drying will occur in an insulated structure. Equipment used for drying will include:

- 1. Fans (inside structure) no noise will be heard from fans outside of the structure due to insulation and the building mitigating noise generation
- 2. Dehumidifiers (inside structure) no noise will be heard from fans outside of the structure due to insulation and the building mitigating noise generation
- 3. Air conditioning unit window or pad mount AC unit will generate less than 60 decibels of noise at 30'. A sound blanket or similar system will be implement to further mitigate noise: https://brinmar.com/usd/sound_blankets.html

4. Generator (before PGE upgrade is provided) - manufacturer specifications for the generator without an enclsoure rate it at 56 decibels at 23': https://www.runvonrental.com/GENERATOR-25-KW-DIESEL-TOWABLE.item

4.8 LIGHT POLLUTION CONTROL MEASURES

Black out tarp will be utilized when lights are on beyond dusk to ensure the site meets International Dark Sky Standards. The applicant proposes to upgrade to auto-dep greenhouses in 2 to 3 years which will eliminate human error with respect to light mitigation.

4.9 BEST MANAGEMENT PRACTICES

4.9.1 USE AND STORAGE OF REGULATED PRODUCTS

Best Management Practices (BMP's) are employed when storing, handling, mixing, application and disposal of all fertilizers, pesticides and fungicides. All nutrients, pesticides and fungicides are located in a locked storage room, and contained within water tight, locked and labeled containers in accordance with manufactures instruction. Application rates will be tracked and reported with the end of the year monitoring report required in the Site Management Plan (SMP). Employees responsible for application are trained to handle, mix, apply or dispose of pesticides/fungicides with proper hand, eye body and respiratory protection in accordance with the manufacturer's recommendations. See the SMP'S for complete BMP specifications for the use and storage of regulated products.

4.10 FERTILIZERS, PESTICIDES AND FUNCICIDES

4.10.1 FERTILIZERS

Nutrients and biological inoculants used for cultivation include:

- > Earthjuice Rainbow Mix Bloom Original Blend
- ➤ Earthjuice Rainbow Mix Pro Grow (2) 20 lb bag
- ➤ Earthjuice Rainbow Mix Pro Bloom -(2) 20 lb bag
- ➤ Age Old Grow 12-6-6 (2) 2.5 gallon
- ➤ Age Old Bloom 5-10-5 (2) 2.5 gallon
- > Vital Earth's High Nitro Bat Guano 9-3-1 (2) 40 lb bag
- > Dr Earth All Purpose Fertilizer 4-4-4 (2) 50 lb bag
- > Vital Earth's Powdered Glacial Rock (2) 50 lb bag

- > Vital Earth Organic Compost OMRI (4) 1 cubic foot bags
- ➤ Maxsea Plant Food All Purpose 16-16-16 -(2) 2.5 gal bucket
- ➤ EcoHydro Fish Fertilizer 1.5-3-02 (2) 5 gal bucket
- > EcoNereo Kelp Plant Food (2) 5 gal bucket
- > EcoFish Bloom (2) 5 gal bucket
- > Isopropyl Alcohol -(2) 2 gallons

Seasonal soil amendments (immediately mixed into soil):

- > Baseline Granular Compost
- > Vital Earth's Organic Compost
- > Oyster Shell (2) 50-55 lb bags
- > Vital Earth's Powdered Glacial Rock (2) 50 lb bag

See Appendix B - Regulated Products Resource List for product details.

4.10.2 PESTICIDES AND FUNGICIDES

Pesticides and fungicides used for cultivation include:

- ➤ Lost Coast Plant Therapy -(2) 1 gallon
- ➤ Bonide Sulphur (2) 5 lb bag
- ➤ Isopropyl Alcohol (2) 2 gallons

See Appendix B - Regulated Products Resource List for product details.

4.10.3 FUELS AND OILS

Fuels and oils stored on site include:

- ➤ Motor Oil 1 Gallons
- ➤ Diesel 50 Gallons

See Appendix B - Regulated Products Resource List for product details.

4.11 WASTE MANAGEMENT PLAN

4.11.1 CULTIVATION WASTE AND SOIL MANAGEMENT

Cultivation vegetative matter such as root balls, branches, and leaves will be composted on site or hauled off site. Spent soil to be planted with a cover crop in the winter and amended in place during the spring. A soils testing service is utilized to check nutrient levels and provide recommendations for proper amendments to re-condition soil. After consultation and testing, the soils will be amended and reused. Used pots will be collected and stored for the winter.

All packaging from soil amendments and fertilizers will be collected and disposed of at an appropriate facility.

4.11.3 MATERIALS MANAGEMENT AND WASTE PLAN

Waste bins with lids are kept adjacent to cultivation sites and emptied out the day they are filled up or weekly. A compost waste bin will be provided for all organic waste generated.

Waste materials are stored in a dumpster located at the center flat.

Trash and recycling containers are located near the greenhouses. Solid waste and recycling is hauled off-site by Recology at least once per week.

4.11.4 WASTEWATER MANAGEMENT PLAN

Hand watering methods minimize the over-irrigation of plants and subsequent runoff. Moreover, the greenhouse floors are unimproved and will absorb any run-off.

A portable toilet will be installed adjacent to the cultivation site and will be serviced as needed. The processing building will have ADA compliant restroom facility.

4.11.5 STORM-WATER MANAGEMENT PLAN

See appended Site Management Plan and Department of Fish and Wildlife Lake and Streambed Alteration Agreement regarding the sizing of culverts and storm-water discharge best management practices.

Site Management Plan Recommended Compliance Measures						
Deficiency	Recommended action	Proposed Completion Date				
Exposed soil stockpile near western	Remove or stabilize stockpite (Tarp or seed and straw)	October 15, 2020				
Access road rilling	Remove soil berm at outside edge of access road and develop waterbars every 50' along length of access road. Use box-grader to develop outslope and to repair rills on road surface	October 15, 2020				
Waste/debris	Remove waste and debris from site. Remove all damaged/unoperable vehicle. Any cultivation materials (pots, etc) to remain shall be stored within an enclosed area.	October 15, 2020				

4.12 INVASIVE SPECIES REPORT

An Invasive Species Control Plan has been prepared by Naiad Biological Consulting. See Appendix D - Invasive Species Control Plan

5. PRODUCT MANAGEMENT

5.1 PRODUCT TESTING AND LABELING

Samples are selected from individual harvested cannabis strains and are tested by a licensed third-party lab in accordance with State and local standards. The finished product is labeled with the applicants company logo, and will include tracking UID's provided by the CDFA's Cal Cannabis Track & Trace System.

5.2 PRODUCT INVENTORY AND TRACKING

Until such time as either a County or Statewide cannabis product and inventory tracking system becomes available, an internally-developed system of inventory and tracking is utilized. The Agent in Charge ensures all medical cannabis from clone to packaged product is tracked, accounted for and inventoried. Records are 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:

- > Cultivation canopy area
- > Weight of flowers, by-product, and trim waste after drying and separation
- > Weight of buds after trimming
- > Product UID numbers and product weight
- > Staff identification (at each step)
- > Physical location of the plant material at all times

5.3 TRANSPORTATION AND DISTRIBUTION

Applicant is proposing as part of the project to have a Transport Only and Self-Distribution Only licence in accordance with State and Local regulations. All product packages will be transported / distributed by the applicant from the on-site holding facility to next destination. Prior to departure, a transport manifest will be created by the self distributer/transporter and will include:

- > Product UID numbers and product weight
- ➤ Route to be travelled
- > Origin and destination addresses
- ➤ Time of departure
- > Time of arrival

The Agent in Charge is responsible for performing a physical inventory of all packages being transported, and ensuring that the physical inventory coincides with the transport manifest.

Appendix A: Site Plan

Appendix B: Cultivation Activities Schedule

Appendix C: SMP

Appendix D: Invasive Species Control Plan