

**RESOLUTION OF THE PLANNING COMMISSION
OF THE COUNTY OF HUMBOLDT**

Resolution Number 24-025

Record Number PLN-11682-CUP

Assessor's Parcel Numbers: 216-271-013-000

Resolution by the Planning Commission of the County of Humboldt certifying compliance with the California Environmental Quality Act and conditionally approves VIPA Farmers, LLC Conditional Use Permit.

WHEREAS, Kalifornia Green Akers, MBC Kalifornia Green Akers, MBC provided an application and evidence in support of approving a Conditional Use Permit for 26,500 square feet of existing outdoor and 3,000 square feet of existing mixed light commercial cannabis cultivation for a total cultivation area of 29,500 square feet supported by a 2,950 square foot ancillary nursery.

WHEREAS, the lead agency, prepared an Addendum to the Final Mitigated Negative Declaration (MND) prepared for the Commercial Medical Land Use Ordinance (CMMLUO) adopted by the Humboldt County Board of Supervisors on January 26, 2016. The proposed project does not present substantial changes that would require major revisions to the previous Mitigated Negative Declaration. No new information of substantial importance that was not known and could not be known at the time was presented as described by §15162(c) of CEQA Guidelines; and

WHEREAS, the Humboldt County Planning Commission held a duly-noticed public hearing on May 2, 2024, and reviewed, considered, and discussed the application for a Conditional Use Permit and reviewed and considered all evidence and testimony presented at the hearing.

Now, THEREFORE BE IT RESOLVED, that the Planning Commission makes all the following findings:

- 1. FINDING:** **Project Description:** A Conditional Use Permit for 3,000 square feet of existing mixed light and 26,500 square feet of existing outdoor for a total of 29,500 square feet of commercial cannabis cultivation. Estimated annual water usage is 243,000 gallons and sourced from a well and an existing on-stream pond. Total water storage is 68,000 gallons in tanks. Drying and processing, including trimming or packaging, will occur onsite. Existing residence is used to house permanent and seasonal employees. Power is provided by PGE with a generator for emergencies only.

EVIDENCE: a) Project File: PLN-11682-CUP

- 2. FINDING:** **CEQA.** The project complies with the requirements of the California

Environmental Quality Act. The Humboldt County Planning Commission has considered the Mitigated Negative Declaration previously adopted for the Commercial Medical Marijuana Land Use Ordinance as well as the Addendum to the Mitigated Negative Declaration that was prepared for the project pursuant to Section 15164 of the CEQA guidelines.

- EVIDENCE:**
- a) Addendum Prepared for the proposed project.
 - b) The proposed project does not present substantial changes that would require major revisions to the previous mitigated negative declaration. No new information of substantial importance that was not known and could not be known at the time was presented as described by §15162(c) of CEQA Guidelines.
 - c) A Site Management Plan in compliance with the State Water Resources Control Board Cannabis General Order for Waste Discharge.
 - d) Northern Spotted Owl (NSO) habitat does not exist in the vicinity and the nearest activity center is over 5 miles from the site. The project is conditioned to adhere to noise and light attenuation measures, refrain from using synthetic netting, ensure refuse is contained in wildlife proof storage, and refrain from using anticoagulant rodenticides to further protect wildlife. As proposed and conditioned, the project is consistent with CMMLUO performance standards and CDFW guidance and will not negatively impact NSO or other sensitive species.
 - e) An Investigation of Unpermitted Grading prepared by Whitchurch Engineering observed that previous grading appeared to have been done without any engineering control. Project conditions require remediation such as revegetating of cut and fill banks associated with benches areas with grasses/ erosion resistant foliage.
 - f) The project is conditioned requiring all development by removed from streamside management areas.
 - g) A Cultural Resource Study concluded no historic or prehistoric era resources were located on the project parcel pertaining to cultivation. No further archaeological study or mitigation measures were recommended for the project beyond inadvertent discovery protocol.

FINDINGS FOR CONDITIONAL USE PERMIT

3. FINDING: The proposed development is in conformance with the County General Plan, Open Space Plan, and the Open Space Action Program.

- EVIDENCE:**
- a) General agriculture is a use type permitted in the Rural Community Center (RCC) land use designation. The proposed cannabis cultivation, an agricultural product, is within land planned and zoned for agricultural purposes, consistent with the use of Open Space land for managed production of resources. The use of an agricultural parcel for commercial agriculture is consistent with the Open Space Plan and Open Space Action Program. Therefore, the project is consistent with and complimentary to the Open Space Plan and its Open Space Action Program.
 - b) General Plan 2017, Section 10.6.4 discusses methods to identify and protect sensitive cultural resources and archaeological artifacts, and methods to address development with the potential of losing or destroying those resources. An archaeological survey was completed, and no resources were found to be on the site or within proximity to the site

4. FINDING: The proposed development is consistent with the purposes of the existing Forestry Recreation (FR) in which the site is located.

- EVIDENCE:**
- a) The FR Zone is applied to areas of the county in which general agriculture uses are the desirable predominant uses.
 - b) All general agricultural uses are principally permitted in the FR Zone.
 - c) Humboldt County Code section 314-55.4.8.2.2 allows cultivation of up to 43,560 SF of existing outdoor cannabis and up to 22,000 SF of existing mixed-light cannabis on a parcel over 1 acre subject to approval of a Conditional Use Permit and a determination that the cultivation was in existence prior to January 1, 2016. The application for 3,000 SF mixed light cultivation and 26,500 SF of outdoor on a 7-acre parcel is consistent with this and with the cultivation area verification prepared by the County.
 - d) All cultivation is over 30 feet from all property lines and there are no public parks, churches, school bus stops or other sensitive receptors within 600 feet of the cultivation areas.

5. FINDING: The proposed development is consistent with the requirements of the CMMLUO Provisions of the Zoning Ordinance.

- EVIDENCE:**
- a) The CMMLUO allows existing cannabis cultivation to be permitted in areas zoned FR (HCC 314-55.4.8.2.2).
 - b) The subject property consists of two parcels, one that was created by an approved lot split in 1967 and that was conveyed to the property owner sometime shortly thereafter in what appears to have been intended to be a lot line adjustment. As a condition of approval, the property owner shall be required to submit a notice of merger to memorialize the historical lot line adjustment.
 - c) Irrigation water is provided by an existing permitted well that has been determined to likely be disconnected from surface waters.
 - d) Access to the site is by Alderpoint road which is a county-maintained category 4 road.
 - e) Existing cultivation is in areas mapped in 15% to 30% which is allowed under 314-55.4.8.2.2. The unpermitted grading must be resolved through compliance agreement per 314-55.4.11(a).
 - f) Power is sourced from PG&E with a generator for emergency backup only.
 - g) The cultivation of cannabis will not result in the net conversion of timberland post environmental baseline (January 1, 2016). No timber conversion is proposed.
 - h) The location of the cultivation complies with all setbacks required in Section 314-55.4.11.d. It is more than 30 from any property line, more than 300 feet from any off-site residence, more than 600 feet from any school, church, public park or Tribal Cultural Resource.

6. FINDING: The cultivation of commercial cannabis and the conditions under which it may be operated or maintained will not be detrimental to the public health, safety, or welfare or materially injurious to properties or improvements in the vicinity.

- EVIDENCE:**
- a) Access to the site is by River Road via Alderpoint Road which are county maintained.
 - b) The site is in a rural part of the County where the typical parcel size is 40 acres. The proposed cannabis will not be in a location where there is an established neighborhood or other sensitive receptor such as a school, church, park, or other use which may be sensitive to

cannabis cultivation.

- c) The location of the existing cannabis cultivation is at least 30 feet from any property line per 314-55.4.11 (d).
- d) Irrigation water is sourced from an existing groundwater well. Per staff analysis of the well completion report, the well does not appear to be diverting from surface waters.
- e) A Site Management Plan (SMP) was prepared by Natural Resources Management Corporation for the subject site in January 2020 in compliance with the State Water Resources Control Board (SWRCB) Cannabis General Order for Waste Discharge (WQ2019-0001-DWQ). The SMP assesses compliance with the required elements and standard conditions established in the General Order to protect water quality from cannabis cultivation and related activities.

7. FINDING: The proposed development does not reduce the residential density for any parcel below that utilized by the Department of Housing and Community Development in determining compliance with housing element law.

EVIDENCE: a) The parcel was not included in the housing inventory of Humboldt County's 2019 Housing Element.

8. FINDING: Approval of this project is consistent with Humboldt County Board of Supervisors Resolution No. 18-43 which established a limit on the number of permits and acres which may be approved in each of the County's Planning Watersheds.

EVIDENCE: a) The project is in the Middle Main Eel Planning Watershed which under Resolution No. 18-43 is capped at 360 permits and 125 acres of commercial cannabis cultivation. With the approval of this project the total approved permits in this Planning Watershed would be 109 permits and the total approved acres would be 43.93 acres of total cultivation.

DECISION

NOW, THEREFORE, based on the above findings and evidence, the Humboldt County Planning Commission does hereby:

- Adopt the findings set forth in this resolution; and
- Conditionally approves the Conditional Use Permit for Kalifornia Green Akers, MBC, LLC subject to the conditions of approval attached hereto as Attachment 1.

Adopted after review and consideration of all the evidence on **May 2, 2024**.

The motion was made by Commissioner Noah Levy and seconded by Commissioner Sarah West and the following vote.

AYES: Commissioners: Iver Skavdal, Thomas Mulder, Noah Levy, Jerome Qiriaz, Sarah West, Lorna McFarlane
NOES: Commissioners:
ABSTAIN: Commissioners:
ABSENT: Commissioners: Peggy O'Neill
DECISION: Motion carried 6/0

I, John H. Ford, Secretary to the Planning Commission of the County of Humboldt, do hereby certify the foregoing to be a true and correct record of the action taken on the above-entitled matter by said Commission at a meeting held on the date noted above.



John Ford, Director
Planning and Building Department

ATTACHMENT 1A

Conditions of Approval

APPROVAL OF THE CONDITIONAL USE PERMIT IS CONDITIONED ON THE FOLLOWING TERMS AND REQUIREMENTS.

A. Conditions which must be satisfied before the provisional cannabis cultivation permit can be finalized and no longer considered provisional (unless otherwise indicated).

1. Within 60 days of the effective date of permit approval, the applicant shall execute a Compliance Agreement with the Humboldt County Planning and Building Department detailing all necessary permits and infrastructure improvements described under Conditions of Approval **A13 through A17**. The agreement shall provide a timeline for completing all outstanding items. All activities detailed under the agreement must be completed to the satisfaction of the Planning and Building Department before the permit may be finalized and no longer considered provisional.
2. Within 60 days of approval, the Permittee shall provide a revised site plan accurately depicting the 100-foot setback from perennial wetlands and 50-foot setback from seasonal wetlands. The revised site plan shall also depict a reduction to the proposed ancillary nursery to no greater than 2,950 SF, which is 10% of the cultivation area. A revised site plan shall be provided to the Planning and Building Department for review and approval prior to implementation.
3. Within 60 days of approval, the Permittee shall also provide a cultivation area relocation and restoration plan for the cultivation within the wetland setbacks. Cultivation shall not occur within the wetland buffer. If a suitable area to relocate the cultivation is not available, the total approved cultivation area shall be reduced accordingly. Prior to cultivation, a qualified professional shall evaluate the site and provide an appropriate adjusted SMA buffer recommendation as well as mitigation measures to minimize impacts to surface water. Furthermore, all cultivation operations shall be removed from the recommended SMA buffer and mitigation measures are implemented prior to cannabis cultivation.
4. Within 60 days of project approval, the applicant shall provide a revised Operations Plan that includes:
 - a. Explicitly stating cannabis waste will not be burned onsite, as state regulations prohibit the burning of cannabis waste. The revised Operations Plan shall include details on where and how cannabis waste is managed. If managed onsite, the Operations Plan shall describe methods to prevent contamination of surface waters and wetlands. If taken offsite, the Operations Plan shall describe methods of storing and taking offsite to a waste management facility.

- b. Description of water storage, including omitting the pond as a source of irrigation if an LSAA for the pond is not obtained.
 - c. Depicting the location of a water source dedicated to fire protection.
5. Within 90 days of project approval, the permittee shall execute and file with the Planning Division the statement titled, "Notice and Acknowledgment regarding Agricultural Activities in Humboldt County," ("Right to Farm" ordinance) as required by the HCC and available at the Planning Division.
6. Within 6 months of the effective date of the permit, the Permittee shall be required to revegetate cut and fill banks associated with bench areas with grasses and erosion resistant foliage as identified in the Investigation of Unpermitted Grading by Whitchurch. A completion report from a licensed engineer is required to satisfy this condition.
7. Within 1 year of the effective date of the permit, the property owner shall submit a notice of merger to memorialize the historical lot line adjustment.
8. Prior to cultivating the Permittee shall obtain a final LSAA. Transfer of irrigation water from the pond is not authorized until issuance of the final LSAA. Permittee shall provide the requested wetland/pond diversion analysis to CDFW.
9. Prior to cultivation, the Permittee shall install and utilize a water meter to track monthly water usage. The permittee shall also keep monthly water logs. The water use for cultivation is limited to the use of the well and amount of water available in storage tanks. Water use data shall be made available to the county upon request.
10. Prior to cultivation, the Permittee shall provide verification from CDFW that Fish and Game Code (FGC) violations 5650 and 5652 have been cured.
11. Prior to cultivating, the permittee shall provide a will service letter from the Alderpoint Volunteer Fire Company or cause to be recorded an "ACKNOWLEDGMENT OF NO AVAILABLE EMERGENCY RESPONSE AND FIRE SUPPRESSION SERVICES" for the parcel(s) on a form provided by the Humboldt County Planning Division. Document review fees as set forth in the schedule of fees and charges as adopted by ordinance of the Humboldt County Board of Supervisors will be required.
12. Prior to cultivating, the Permittee shall provide and implement a Bullfrog Management Plan to mitigate the proliferation of the invasive bullfrog population onsite.
13. Water storage must be increased with the resulting total storage equaling no less than 260,000 gallons.

14. The applicant shall secure permits for all structures and grading related to the cannabis cultivation and other commercial cannabis activity, including but not limited to, existing and proposed greenhouses, water tanks over 5,000 gallons, existing or proposed structures associated with drying and storage or any activity with a nexus to cannabis, generators, any noise containment structures and graded flats, as necessary. The plans submitted for building permit approval shall be consistent with the project description and the approved project site plan. A letter or similar communication from the Building Division verifying that all structures related to the cannabis cultivation are permitted will satisfy this condition.
15. The applicant shall improve the intersection at River Road intersection to commercial driveway standards. Specifically, the driveway shall be paved for a minimum width of 18 feet and a length of 50 feet where it intersects the County Road (River Road). The applicant shall obtain an encroachment permit from the Department of Public Works prior to commencing any work. A letter or similar communication from the Department of Public Works will satisfy this condition. All driveway and private road intersections onto the County Road shall be maintained in accordance with County Code Section 341-1 (Sight Visibility Ordinance). A letter or similar communication from the Department of Public Works will satisfy this condition.
16. The Permittee shall regrade the road at the upper curve, located at 40.1710 latitude and 123.6073 longitude, to redirect road drainage and erosion away from the wetland feature and on-stream pond.
17. Per note 15 on the site plan in Attachment 1C, the Permittee shall implement the restoration, remediation, and restocking plan by NRM dated April 2020.
18. Trimming and our packaging may not occur onsite until the structure is permitted and a certificate of occupancy issued.
19. Within 90 days of the effective date of this permit, the Permittee shall provide a Bullfrog Management Plan as well as a plan for control nutrient loading of the pond. If the Permittee is unable to demonstrate successful mitigation measures to control the invasive bullfrog population and the nutrient loading that are occurring to the satisfaction of CDFW, then the applicant shall submit and implement a pond restoration/decommission plan by January 1, 2025.
20. Within 90 days of the effective date of this permit, the Permittee shall provide additional photographic evidence that uncontained trash has been cleaned up.
21. Prior to cultivating the Permittee shall provide documentation demonstrating that compost and soil are appropriately managed using best practices.

B. General and Ongoing Requirements Which Must be Satisfied for the Life of the Project:

1. If cultural resources are encountered during construction activities, the contractor on-site shall cease all work in the immediate area and within a 50-foot buffer of the discovery location. A qualified archaeologist and the appropriate Tribal Historic Preservation Officer(s) are to be contacted to evaluate the discovery and, in consultation with the applicant and the lead agency, develop a treatment plan in any instance where significant impacts cannot be avoided.

Prehistoric materials may include obsidian or chert flakes, tools, locally darkened midden soils, groundstone artifacts, shellfish or faunal remains, and human burials. If human remains are found, California Health and Safety Code 7050.5 requires that the County Coroner be contacted immediately at 707-445-7242. If the Coroner determines the remains to be Native American, the Native American Heritage Commission will then be contacted by the Coroner to determine appropriate treatment of the remains pursuant to Public Resources Code (PRC) Section 5097.98. Violators shall be prosecuted in accordance with PRC Section 5097.99.

2. The generator is limited to emergency backup purposes only.
3. The applicant is responsible for obtaining all necessary County and State permits and licenses, and for meeting all requirements set forth by other regulatory agencies.
4. The applicant is required to pay for permit processing on a time and material basis as set forth in the schedule of fees and charges as adopted by ordinance of the Humboldt County Board of Supervisors. The Planning and Building Department will provide a bill to the applicant after the decision. All outstanding planning fees to cover the processing of the application to decision by the Hearing Officer shall be paid to the Humboldt County Planning Division, 3015 "H" Street, Eureka.
5. The Applicant is responsible for costs for post-approval review for determining project conformance with conditions. A deposit is collected to cover this staff review. Permit conformance with conditions must be demonstrated prior to release of building permit or initiation of use and at time of annual inspection. A conformance review deposit as set forth in the schedule of fees and charges as adopted by ordinance of the Humboldt County Board of Supervisors (currently \$750) shall be paid within sixty (60) days of the effective date of the permit or upon filing of the Compliance Agreement (where applicable), whichever occurs first. Payment shall be made to the Humboldt County Planning Division, 3015 "H" Street, Eureka.
6. A Notice of Determination (NOD) will be prepared and filed with the County Clerk for this project in accordance with the State CEQA Guidelines. The Department will file the NOD and will charge this cost to the project.

7. The combination of background, generator and greenhouse fan or other operational equipment created noise must not result in the harassment of Northern Spotted Owl species as required to meet the performance standards for noise set by Department Policy Statement No. 16-005 clarifying CMMLUO Section 55.4.11 (o) requirements. The combined noise levels measured at 100 feet or the edge of habitat, whichever is closer, shall be at or below 50 decibels. Conformance will be evaluated using current auditory disturbance guidance prepared by the United State Fish and Wildlife Service, and further consultation where necessary. A building permit shall be obtained should any structures be necessary for noise attenuation.
8. All artificial lighting shall be fully contained within structures such that no light escapes (e.g., through blackout curtains). Structures shall be enclosed between 30 minutes prior to sunset and 30 minutes after sunrise to prevent disruption to crepuscular wildlife. Security lighting shall be motion activated and comply with the International Dark-Sky Association standards and Fixture Seal of Approval Program; see: <https://www.darksky.org/our-work/lighting/lighting-for-citizens/lighting-basics/>. Standards include but are not limited to the following, 1) light shall be shielded and downward facing, 2) shall consist of Low Pressure Sodium (LPS) light or low spectrum Light Emitting Diodes (LED) with a color temperature of 3000 kelvins or less and 3) only placed where needed.
9. Should the Humboldt County Planning Division receive complaints that the lighting or noise is not complying with applicable standards, within ten (10) working days of receiving written notification that a complaint has been filed, the applicant shall submit written verification that the lights' shielding and alignment, and noise levels have been repaired, inspected, and corrected as necessary.
10. All refuse shall be contained in wildlife proof containers, always, and relocated to an authorized waste management facility, in compliance with State and local laws, on a regular and on-going basis. Prior to cultivating the applicant shall provide documentation that all uncontained refuse has been disposed of at an authorized waste management facility.
11. The applicant shall be compliant with the County of Humboldt's Certified Unified Program Agency (CUPA) requirements regarding hazardous materials. A written verification of compliance shall be required before any provisional permits may be finalized. Ongoing proof of compliance with this condition shall be required at each annual inspection to keep the permit valid.
12. Ensure all generators, used as emergency backup, be located on stable surfaces with a minimum 200-foot buffer from all waterways measured horizontally from the outer edge of the riparian drip zone.

13. The applicant is required to adhere to and implement the requirements contained in the SWRCB's Cannabis Cultivation Policy, the General Order, the Site Management Plan and the Notice of Applicability. A copy of the reporting form portion of the Mitigation and Reporting Program (MRP) shall be provided to the Planning and Building Department on request.
14. Prohibition on use of synthetic netting. To minimize the risk of wildlife entrapment, Permittee shall not use any erosion control and/or cultivation materials that contain synthetic (e.g., plastic or nylon) netting, including photo- or biodegradable plastic netting. Geotextiles, fiber rolls, and other erosion control measures shall be made of loose-weave mesh, such as jute, hemp, coconut (coir) fiber, or other products without welded weaves.
15. All refuse shall be contained in wildlife proof storage containers, at all times, and disposed of at an authorized waste management facility.
16. Should any wildlife be encountered during work activities, the wildlife shall not be disturbed and be allowed to leave the work site unharmed.
17. The use of anticoagulant rodenticide is prohibited.
18. The operator shall provide information to all employees about the potential health impacts of cannabis use on children. Information shall be provided by posting the brochures from the Department of Health and Human Services titled "Cannabis Palm Card" and "Cannabis Rack Card." This information shall also be provided to all employees as part of the employee orientation.
19. All components of project shall be developed, operated, and maintained in conformance with the Project Description, the approved Site Plan, the Plan of Operations, and these conditions of approval. Changes shall require modification of this permit except where consistent with Humboldt County Code Section 312-11.1, Minor Deviations to Approved Plot Plan.
20. Cannabis cultivation and other commercial cannabis activity shall be conducted in compliance with all laws and regulations as set forth in the CMMLUO and MAUCRSA, as applicable to the permit type.
21. If operating pursuant to a written approved compliance agreement, permittee shall abate or cure violations at the earliest feasible date, but in no event no more than two (2) years from the date of issuance of a provisional clearance or permit. Permittee shall provide plans for curing such violations to the Planning and Building Department within one (1) year of issuance of the provisional clearance or permit. If good faith effort toward compliance can be shown within the two years following the issuance of the provisional clearance or permit, the Department may, at the discretion of the Director, provide for

extensions of the provisional permit to allow additional time to meet the outstanding requirements.

22. Possession of a current, valid required license, or licenses, issued by any agency of the State of California in accordance with the MAUCRSA, and regulations promulgated thereunder, as soon as such licenses become available.
23. Compliance with all statutes, regulations, and requirements of the California State Water Resources Control Board and the Division of Water Rights, at a minimum to include a statement of diversion of surface water from a stream, river, underground stream, or other watercourse required by Water Code Section 5101, or other applicable permit, license, or registration, as applicable.
24. Confinement of the area of cannabis cultivation, processing, manufacture, or distribution to the locations depicted on the approved site plan. The commercial cannabis activity shall be set back at least 30 feet from any property line, and 600 feet from any school, school bus stop, church or other place of religious worship, or tribal cultural resources, except where a reduction to this setback has been approved pursuant to Section 55.4.11(d).
25. Maintain enrollment in Tier 1, 2, or 3, certification with North Coast Regional Water Quality Control Board (RWQCB) Order No. R1-2015-0023, if applicable, or any substantially equivalent rule that may be subsequently adopted by the County of Humboldt or other responsible agency.
26. Comply with the terms of any applicable Lake and Stream Alteration (1600 or 1602) Permit obtained from the California Department of Fish and Wildlife (CDFW).
27. Comply with the terms of a less-than-3-acre conversion exemption or timberland conversion permit, approved by the California Department of Forestry and Fire Protection (Cal Fire), if applicable.
28. Consent to an annual on-site compliance inspection, with at least 24 hours prior notice, to be conducted by appropriate County officials during regular business hours (Monday through Friday, 9:00 a.m. to 5:00 p.m., excluding holidays).
29. Refrain from the improper storage or use of any fuels, fertilizer, pesticide, fungicide, rodenticide, or herbicide.
30. Pay all applicable application, review for conformance with conditions and annual inspection fees.

31. Fuel shall be stored and handled in compliance with applicable state and local laws and regulations, including the County of Humboldt's Certified Unified Program Agency (CUPA) program, and in such a way that no spillage occurs.
32. The master logbooks maintained by the applicant to track production and sales shall be maintained for inspection by the County.
33. Pay all applicable taxes as required by the Humboldt County Commercial Marijuana Cultivation Tax Ordinance (Humboldt County Code Section 719-1 et seq.).

Performance Standards for Cultivation and Processing Operations

34. Pursuant to the MAUCRSA, Health and Safety Code Section 19322(a)(9), an applicant seeking a cultivation license shall "provide a statement declaring the applicant 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), to the extent not prohibited by law."
35. Cultivators shall comply with all applicable federal, state, and local laws and regulations governing California Agricultural Employers, which may include federal and state wage and hour laws, Cal/OSHA, OSHA, the California Agricultural Labor Relations Act, and the Humboldt County Code (including the Building Code).
36. Cultivators engaged in processing shall comply with the following Processing Practices:
 - a. Processing operations must be maintained in a clean and sanitary condition including all work surfaces and equipment.
 - b. Processing operations must implement protocols which prevent processing contamination and mold and mildew growth on cannabis.
 - c. Employees handling cannabis in processing operations must have access to facemasks and gloves in good operable condition as applicable to their job function.
 - d. Employees must wash hands sufficiently when handling cannabis or use gloves.
37. All persons hiring employees to engage in commercial cannabis cultivation and processing shall comply with the following Employee Safety Practices:
 - a. Cultivation operations and processing operations must implement safety protocols and provide all employees with adequate safety training relevant to their specific job functions, which may include:
 - (1) Emergency action response planning as necessary;
 - (2) Employee accident reporting and investigation policies;
 - (3) Fire prevention;
 - (4) Hazard communication policies, including maintenance of material safety data sheets (MSDS);
 - (5) Materials handling policies;

- (6) Job hazard analyses; and
 - (7) Personal protective equipment policies, including respiratory protection.
- b. Cultivation operations and processing operations must visibly post and maintain an emergency contact list which includes at a minimum:
- (1) Operation manager contacts;
 - (2) Emergency responder contacts; and
 - (3) Poison control contacts.
- c. At all times, employees shall have access to safe drinking water and toilets and handwashing facilities that comply with applicable federal, state, and local laws and regulations. Plumbing facilities and water source must be capable of handling increased usage without adverse consequences to neighboring properties or the environment.
- d. On site-housing provided to employees shall comply with all applicable federal, state, and local laws and regulations.
38. All cultivators shall comply with the approved processing plan as to the following:
- a. Processing practices
 - b. Location where processing will occur
 - c. Number of employees, if any
 - d. Employee Safety Practices
 - e. Toilet and handwashing facilities
 - f. Plumbing and/or septic system and whether or not the system is capable of handling increased usage
 - g. Drinking water for employees
 - h. Plan to minimize impact from increased road use resulting from processing
 - i. On-site housing, if any
39. Term of Commercial Cannabis Activity Conditional Use Permit. Any Commercial Cannabis Cultivation CUP issued pursuant to the CMMLUO shall expire one (1) year after date of issuance, and on the anniversary date of such issuance each year thereafter, unless an annual compliance inspection has been conducted and the permittees and the permitted site have been found to comply with all conditions of approval.
40. If the inspector or other County official determines that the permittees or site do not comply with the conditions of approval, the inspector shall serve the permit holder with a written statement identifying the items not in compliance, and the action that the permit holder may take to cure the noncompliance, or file an appeal within ten (10) days of the date that the written statement is delivered to the permit holder. Personal delivery or mailing the written statement to the mailing address listed on the application by regular mail, plus three (3) days after date of mailing, shall constitute delivery. The permit holder may request a reinspection to determine whether or not the permit holder has cured all issues of noncompliance. Failure to request reinspection or to cure any items of noncompliance shall terminate the Special Permit, immediately upon the

expiration of any appeal period, or final determination of the appeal if an appeal has been timely filed pursuant to Section 55.4.13.

41. Permit Renewals to Comply with Updated Laws and Regulations. Permit renewal is subject to the laws and regulations effective at the time of renewal, which may be substantially different than the regulations currently in place and may require the submittal of additional information to ensure that new standards are met.
42. Acknowledgements to Remain in Full Force and Effect. Permittee acknowledges that the County reserves the right to reduce the size of the area allowed for cultivation under any clearance or permit issued in accordance with this section in the event that environmental conditions, such as a sustained drought or low flows in the watershed in which the cultivation area is located, will not support diversions for irrigation.
43. Transfers. Transfer of any leases or permits approved by this project is subject to the review and approval of the Planning Director for conformance with CMMLUO eligibility requirements and agreement to permit terms and acknowledgments. The fee for required permit transfer review shall accompany the request. The request shall include the following information:
 - a. Identifying information for the new owner(s) and management as required in an initial permit application;
 - b. A written acknowledgment by the new owner in accordance as required for the initial permit application;
 - c. The specific date on which the transfer is to occur;
 - d. Acknowledgement of full responsibility for complying with the existing permit; and
 - e. Execution of an Affidavit of Non-diversion of Medical Cannabis.
44. Inspections. The permit holder and subject property owner are to permit the County or representative(s) or designee(s) to make inspections at any reasonable time deemed necessary to assure that the activities being performed under the authority of this permit are in accordance with the terms and conditions prescribed herein.
45. The applicant shall provide service receipts for the portable toilet and handwashing station and make documentation available at each annual inspection. Once a permitted Onsite Wastewater Treatment System (OWTS) is permitted and developed, this requirement will become moot. Applicant shall also provide these service receipts to Division of Environmental Health (DEH).
46. The applicant shall abide by the terms and conditions of the Right to Divert and Use Water (Certificate No. H100603), which limits the applicant to diverting no more than 0.77-acre-feet of water (250,000-gal.) annually.

Informational Notes:

1. Pursuant to Section 314-55.4.11(a) of the CMMLUO, if upon inspection for the initial application, violations of any building or other health, safety, or other state or county statute, ordinance, or regulation are discovered, the Planning and Building Department may issue a provisional clearance or permit with a written approved Compliance Agreement. By signing the agreement, the permittee agrees to abate or cure the violations at the earliest opportunity but in no event more than two (2) years after the date of issuance of the provisional clearance or permit. Plans for curing the violations shall be submitted to the Planning and Building Department by the permittee within one (1) year of the issuance of the provisional certificate or permit. The terms of the compliance agreement may be appealed pursuant to Section 314-55.4.13 of the CMMLUO.

KALIFORNIA GREEN AKRES CULTIVATION AND OPERATIONS MANUAL HUMBOLDT COUNTY, CALIFORNIA

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2024

**Cultivation and Operations Manual
For
Kalifornia Green Akres
APN 216-271-013**

Cannabis Cultivation Facilities

Kalifornia Green Akres
142 River Road
Alderpoint, CA 95511



2024

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1. PROJECT SUMMARY

1.1. PROJECT OBJECTIVE

KALIFORNIA GREEN AKRES is proposing to permit existing medical cannabis cultivation activities in accordance with the County of Humboldt's (County) *Commercial Medical Marijuana Land Use Ordinance* (CMMLUO). The project requires a Conditional Use Permit (CUP) for 26,500 sf of existing outdoor and 3,000 sf of existing mixed light cultivation. The project includes the permitting of existing and proposed facilities appurtenant to the cultivation, including greenhouses and a cultivation facility for drying, curing, and trimming of medical cannabis. The applicant aims to become fully compliant with State and Local cultivation regulations.

All outdoor full sun cultivation areas are proposed to be converted to outdoor light dep greenhouses.

1.2. SITE DESCRIPTION

The Project is located at 142 River Road, Alderpoint, CA 95511, (APN 216-271-013). The subject parcel is approximately 7.13 acres in size (per the County of Humboldt's WebGIS), having varying topography with flats and slopes of up to 30% gradient. The western half of the property is primarily grassland and is developed with an existing single-family residence, approximately 1,000 sf in size, cultivation facility, and residential accessory structures. The eastern half of the property is characterized as forested. The existing 3,000 sf of mixed light cultivation is located within greenhouses.

1.3. LAND USE

The subject property has a General Plan designation of Rural Community Center (RCC) as identified by the Humboldt County General Plan and is zoned Forest Recreation (FR-B-5). The property contains no prime agricultural soil according to the Humboldt WebGIS. Land uses surrounding the parcel are comprised of residential and a railroad. The surrounding parcels are zoned Forest Recreation (FR).

1.4. STATE AND LOCAL COMPLIANCE

1.4.1. STATE OF CALIFORNIA COMMERCIAL CANNABIS ACTIVITY LICENSE

KALIFORNIA GREEN AKRES has obtained two PROVISIONAL CANNABIS CULTIVATION LICENSES and will obtain an ANNUAL CANNABIS CULTIVATION LICENSE from the State of California: **CCL19-0001462, CCL19-0001632**

1.4.2. STATE WATER RESOURCES CONTROL BOARD

Water for domestic use is provided by the Alderpoint Community Services District. Water for cultivation use is provided by a 100,000-gallon rain catchment pond and on-site well, as point of diversion to 12 x 5,000 gallon tanks, 4 x 1150 gallon tanks, 1 x 1100 gallon tanks, 5 x 500 gallon tanks.

1.4.3. NORTH COAST REGIONAL WATER QUALITY CONTROL BOARD

KALIFORNIA GREEN AKRES enrolled with the North Coast Regional Water Quality Control Board (NCRWQCB) for coverage under Tier 2 of Order No. 2015-0023 *Waiver of Waste Discharge Requirements and General Water Quality Certification for Discharges of Waste Resulting from Cannabis Cultivation and Associated Activities or Operations with Similar Environmental Effects in the North Coast Region* (WDID Number 1B16571CHUM). A Water Resources Protection Plan was developed for the project and has been implemented for activities associated with on-site cultivation since September 2016.

1.4.4. HUMBOLDT COUNTY 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 Conditional Use Permit.

1.4.5. CALFIRE

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 requirement from property lines.

The site is within the Alderpoint Community Services District.

1.4.6. CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE

An LSAA has been submitted to CDFW. Several culverts are upon the property which handle drainage from seasonal runoff. An existing manmade pond is also present on the site. The pond is under the LSAA for diversion and subject to forbearance. An on-site 100,000 gallon well engineered by Fisch Drilling is used for cultivation. The well has a well completion report.

There is a Humboldt County Planning and Zoning approved 100-foot buffer between any potential wetland and the project.

1.4.7. 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, ground stone 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 propagated on site from 'mother plants' that demonstrate the desired genetics for the specific cannabis strain. Mother plants remain in the vegetative stage solely for propagation. Cuttings are sampled from the mother plants and are rooted into a growing medium, typically oasis cubes, to produce 'clones.' The clones are placed into a greenhouse which acts as a nursery, and once fully rooted they are transplanted directly into one (1) gallon plastic containers (see Appendix A for nursery location). The juvenile plants are irrigated using hand watering methods. After 2-4 weeks the clones are then transplanted into 20-gallon smart pots with a soil and perlite medium, and moved into either a mixed light greenhouse or to an outdoor cultivation area where they continue their 'vegetative' cycle.

2.2. MIXED LIGHT & OUTDOOR CULTIVATION PLAN AND SCHEDULE

The mixed light cultivation occurs in an existing 3,000 square foot greenhouse. The greenhouses utilize a combination of artificial light and light deprivation to produce up to two (2) to three (3) flowering cycles per year. The monthly Cultivation Schedule in Appendix B details the cultivation activities associated with the mixed light cultivation operation for a typical two cycle year.

Outdoor cultivation within light deprivation greenhouses will produce two (2) to three (3) cycles per year.

All full sun cultivation areas proposed to be converted to outdoor light dep greenhouses.

7800 mixed-light proposed to the County for a total of 10,800 sq-ft. Total cultivation 29,500 sq-ft.

2.3. IRRIGATION PLAN AND SCHEDULE

Irrigation and fertigation of plants occurs using top-feed hand watering methods. KALIFORNIA GREEN AKRES 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. HARVESTING, DRYING, AND TRIMMING

Plants that are ready for harvest have their flowering branches removed and suspended in the drying facility which is equipped with ventilation fans. The drying process takes approximately one week.

The dried flowers are then bucked into manageable buds and fed into an automated trimming machine. The machine-trimmed buds receive a finishing trim by hand before being weighed, labeled, logged, and sealed.

The finished product is stored in the processed materials room before being transported to a licensed distribution facility. The waste product, or 'trim', from the machines is collected and placed into bins to be weighed, labeled, and sealed. Trim will be transferred to an offsite, licensed manufacturing facility.

2.5. PROCESSING FACILITY

All cannabis processing will occur on site at the existing 1,900 square foot processing facility which has been permitted as a commercial structure. The facility incorporates all aspects of processing including drying, curing, and trimming, and includes an ADA restroom for employees. The restroom includes a working flush toilet as well as a sink with cold and hot running water.

All cannabis processing will occur on site at the processing facility by KALIFORNIA GREEN AKRES and other principals of the firm. No employees will be involved in processing of medical cannabis.

2.6. EMPLOYEE PLAN

KALIFORNIA GREEN AKRES 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.

2.6.1. JOB DESCRIPTIONS AND EMPLOYEE SUMMARY

- *Agent in Charge*: Responsible for business oversight and management of the KALIFORNIA GREEN AKRES. 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 full-time, year-round position.
- *Lead Cultivator*: 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.
- *Seasonal Laborer*: Provides cultivation, harvesting, and processing support including trim machine operation and hand-finish trimming. This is a full-time, seasonal position.

2.6.2. STAFFING REQUIREMENTS

In addition to the *Agent*, *Lead Cultivator*, up to two (2) 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 four (4) employees on site.

2.6.3. 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.

2.6.4. TOILET AND HAND WASHING FACILITIES

The existing drying and processing building will include one (1) ADA-compliant restroom, including a working flush toilet as well as a sink with hot and cold running water. Anti-bacterial Liquid Soap and paper hand towels will be made available. Employees will work at a distance typically no greater than 1300 feet from the restroom facility.

2.6.5. ONSITE HOUSING

The existing 3 bedroom single family residence located on site is occupied by the property Agent in Charge, Lead Cultivator, and the seasonal laborers. No new residential structures are proposed as a part of this project.

2.7. SECURITY PLAN AND HOURS OF OPERATION

2.7.1. FACILITY SECURITY

An entry gate is located off Alderpoint Road. The entry gates remain locked at all times and access to the cultivation area is limited exclusively to employees. Restricted access signs are posted conspicuously at the entry gate. The processing facility area will have security cameras installed and will include an alarm system.

2.7.2. 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.

3. ENVIRONMENT

3.1. WATER SOURCE AND PROJECTED WATER USE

Water for cultivation use is provided by a 100,000-gallon rain catchment pond and 100,000 on-site well, as

point of diversion to 12 x 5,000 gallon tanks, 4 x 1150 gallon tanks, 1 x 1100 gallon tanks, 5 x 500 gallon tanks. Water for domestic use is provided by direct service connection to the Alderpoint Water District.

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. Water conservation is a priority, with hand watering and monitoring in effect.

Table 3.1: Estimated Annual Irrigation Water Usage (Gallons)

Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec
500	500	500	500	30000	50000	50000	50000	30000	30000	500	500

3.1.1. IMPLEMENTATION OF DRIP TAPE IRRIGATION.

Kalifornia Green Akres plans to implement a Drip Tape irrigation system which will allow for; water conservation; precise water delivery and efficient nutrient uptake. Please see appendix D for further information.

3.2. WATER STORAGE

Water for cultivation use is provided by a 100,000 gallon rain catchment pond and 100,000 gallon on-site well, as point of diversion to 12 x 5,000 gallon tanks, 4 x 1150 gallon tanks, 1 x 1100 gallon tanks, 5 x 500 gallon tanks totaling 168,200 gallons.

3.3. SITE DRAINAGE, RUNOFF, AND EROSION CONTROL

Kalifornia Green Akres is enrolled with the North Coast Regional Water Quality Control Board (NCRWQCB) for Tier 2 coverage, and a Water Resources Protection Plan (WRPP) has been developed utilizing best management practices (BMP's) in accordance with the NCRWQCB's recommendations.

3.3.1. SITE DRAINAGE AND RUNOFF

The site is mostly flat with surface flow in the wet season generally draining from the west to the east. Drainage flows offsite into Eel River 350' east of the property. The access road will be rocked and drainage from the road has been disconnected from the stream system. There are no stream crossings on the site. The existing and proposed greenhouses are located away from riparian zones. Fertilizers and pesticides are currently stored in a storage shed with secondary containment to prevent contamination with runoff.

Site investigation for the development of the Water Resources Protection Plan (WRPP) showed no evidence of surface runoff associated with the cultivation. 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.

3.3.2. EROSION CONTROL

The Water Resource Protection Plan (WRPP) includes erosion and sediment control BMP's designed to prevent, contain, and reduce sources of sediment. The WRPP also includes corrective actions to reduce sediment delivery, including: properly dispose of vegetation waste; maintain and pump the portable toilets; constructing a sediment basin to catch surface runoff; install fiber roll on perimeter of outdoor cultivation; install rolling dips; and inslope main access road. Additionally, the WRPP requires mulch piles and spoils from any grading to be stored in a designated location away from watercourse. See the WRPP section titled *Best Management Practices for Discharges of Waste Resulting from Cannabis Cultivation and Associated Activities* in Appendix E for complete BMP recommendations and specifications.

3.4. 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 NCRWQCB's recommendations. Any grading and earthwork activities will be conducted by a licensed contractor in accordance with approved grading permits.

3.5. MONITORING AND REPORTING

Monitoring will be conducted to confirm the effectiveness of corrected measures listed in the Water Resource Protection Plan (WRPP) 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 WRPP with photo points identified on WRPP 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. 2015-0023 Appendix C) will be submitted upon initial enrollment in the Order (NOI) and then annually by March 31 to the Regional Water Board. The annual report will include data from the monitoring reports.

3.6. ENERGY AND GENERATOR USE

On-grid electricity is provided by PG&E for all cultivation and domestic uses. No generator is used on site.

3.7. USE AND STORAGE OF REGULATED PRODUCTS

3.7.1. BEST MANAGEMENT PRACTICES

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 watertight, 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 Water Resources Protection Plan (WRPP). 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 WRPP for complete BMP specifications for the use and storage of regulated products.

3.7.2. FERTILIZERS

Nutrients and biological inoculants used for cultivation include:

- Fox Farm Grow Big
- Cal Mag Pure Blend
- Fox Farm Big Bloom Overdrive
- Advanced Nutrients

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

3.7.3. PESTICIDES AND FUNGICIDES

Pesticides and fungicides used for cultivation include:

- Venerate cg.
- Grandevo cg.
- Regalia cg.

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

3.7.4. FUELS AND OILS

No fuels and oils are stored on site.

3.8. WASTE MANAGEMENT PLAN

3.8.1. SOLID WASTE MANAGEMENT

Trash and recycling containers are located on a concrete pad underneath the processing building overhang. Solid waste and recycling is hauled off-site to the Alderpoint transfer station at least once per week by trailer.

3.8.2. CULTIVATION WASTE AND SOIL MANAGEMENT

Cultivation vegetative matter such as root balls, branches, and leaves are burned at a designated area (see WRPP map in Appendix E). Spent potting soil is hauled off site yearly. Used pots will be collected and stored in the processing building for the winter. All packaging from soil amendments and fertilizers will be collected and disposed of at an appropriate facility.

3.8.3. WASTEWATER MANAGEMENT

Hand watering methods minimize the over-irrigation of plants and subsequent runoff. Moreover, the greenhouse floors are gravel/dirt and will absorb any excess runoff.

A septic system is in place for the existing residence and processing facility.

4. PRODUCT MANAGEMENT

4.1. 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 KALIFORNIA GREEN AKRES tracking ID's provided by the Statewide tracking system Metrc.

4.2. PRODUCT INVENTORY AND TRACKING

In accordance with California Department of Food & Agriculture, CalCannabis Licensing Division, California has selected Metrc as the state's track-and-trace system used to track commercial cannabis activity and movement across the distribution chain ("seed-to-sale").

Kalifornia Green Akres utilizes the regulatory cannabis system Metrc along with paid Metrc approved API software Flourish. Flourish software provides inventory reporting and management which Kalifornia Green Akres utilizes for inventory management as well as monthly reporting. All reporting is kept in the cloud.

4.3. TRANSPORTATION AND DISTRIBUTION

Transportation will be handled by a third-party, contracted, licensed transporter/distributor in accordance with State and Local regulations. All merchantable products will be distributed through licensed 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 in Metrc and will include:

- Product ID numbers and product weight
- Route to be traveled.
- Origin and destination addresses
- Time of departure
- Time of arrival

The *Agent in Charge* and the *Processing Manager* are 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: References

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Appendix D

Drip tape irrigation implementation.

Advantages

1. **Precise Water Delivery:** Drip irrigation systems provide precise control over water delivery, delivering water directly to the root zone of plants. This targeted approach ensures that water reaches the plants' root systems where it is needed the most, reducing water loss through evaporation or runoff.
2. **Water Conservation:** Drip irrigation significantly reduces water waste by avoiding unnecessary water dispersion. It conserves water by supplying it directly to the plants' roots, minimizing overspray or surface runoff that can occur with other irrigation methods.
3. **Efficient Nutrient Uptake:** Drip irrigation can be combined with fertigation, the process of applying nutrients through the irrigation system. This enables a precise and efficient delivery of nutrients directly to the root zone, maximizing nutrient uptake by cannabis plants.
4. **Scalability:** Drip irrigation systems can be easily scaled up or down to accommodate various garden sizes and layouts. Whether you have a small home garden or a large commercial operation, drip irrigation can be customized to meet your specific needs.

Efficiency and water conservation

To maximize efficiency and conserve water with drip irrigation the following strategies will be implemented:

1. **Mulching:** By using Mulch and adding Char around the base of the plants to minimize evaporation, regulate soil temperature, and reduce weed growth. This helps retain moisture in the root zone, reducing the frequency of irrigation.
2. **Watering Schedule:** We will establish an appropriate watering schedule based on the specific needs of our Cannabis plants. These factors include: plant size, growth stage, weather conditions, and humidity levels when determining the frequency and duration of irrigation cycles.
3. **Watering Time:** Watering during the cooler parts of the day, such as early morning or late evening, reduces evaporation and allows plants to efficiently utilize water.
4. **Zone-based Irrigation:** The greenhouses will be divided up into zones based on plant water requirements. This allows us to customize the irrigation schedule and water application based on the specific needs of different areas.

