

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

**Resolution Number: 23-094**

**Record Number: PLN-11980-SP**

**Assessor's Parcel Number: 522-025-003 and 522-024-005 (one separate legal parcel)**

**Resolution by the Planning Commission of the County of Humboldt certifying compliance with the California Environmental Quality Act and conditionally approving the Evergreen Family Farm, LLC, Special Permits.**

**WHEREAS**, Evergreen Family Farm, LLC, submitted an application and evidence in support of approving a Special Permit for the continued operation of an existing 10,000 SF of outdoor cannabis cultivation operation with appurtenant propagation, drying, and processing activities and a Special Permit for restoration work within a Streamside Management Area (SMA) associated with the removal of a water tank from the SMA.; and

**WHEREAS**, the County Planning Division, the lead agency, prepared an Addendum to the Final Mitigated Negative Declaration (MND) prepared for the Commercial Medical Marijuana 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 MND. 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 October 19, 2023, and reviewed, considered, and discussed the application for the Special 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 Special Permit for 10,000 square feet (SF) of existing outdoor full-sun cannabis cultivation. Plant stock will be sourced from a 1,000 SF nursery on the adjacent parcel (APN 522-024-002), which is also host to an existing cannabis operation that is pursuing a permit concurrent with the subject project. Irrigation water is sourced from a permitted groundwater well on the adjacent parcel that serves the subject parcel and the adjacent parcel. Total water storage for both parcels is 49,500 gallons and consists of 3 2,500-gallon tanks for fire suppression, 4 5,000-gallon tanks for irrigation, 6 2,500-gallon tanks for irrigation, 3 1,500-gallon tanks for irrigation, and 1 2,500-gallon tank for domestic use. An additional 150,000 gallons of tank storage is proposed to support irrigation needs. Total annual water use for both parcels is 312,000-gallons. Product will be dried on the

adjacent parcel in an existing shed and further processing will occur offsite at a licensed processing facility until Cabin #3 on the adjacent parcel is upgraded to commercial/Americans with Disabilities Act (ADA) standards. Power is not required for the 10,000 SF outdoor full-sun cultivation on the subject parcel. The operation is staffed by up to 3 full-time employees and 4 part-time seasonal employees shared between APNs 522-024-002 and APN 522-025-003/522-024-005. A Special Permit is also requested for work within the Streamside Management Area (SMA) associated with the removal of a tank from the SMA, and to allow for associated remediation activities within the SMA.

**EVIDENCE:** a) Project File: PLN-11980-SP

- 2. FINDING:** **CEQA.** The requirements of the California Environmental Quality Act have been complied with. The 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 adopted by the Humboldt County Board of Supervisors on January 26, 2016.

**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 MND. 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 Water Resource Protection Plan (WRPP) prepared by Pacific Watershed Associates Inc. in May 2017 evaluated if the site met the standard conditions of compliance. As a condition of approval, the applicant shall implement the corrective or remedial actions listed in the WRPP. On September 7, 2023, CDFW staff observed activities that were in violation of Fish and Game Code (FGC) section 1602. Notably, CDFW observed substantial sediment discharge to Waters of the State through erosion of hydrologically connected roads. CDFW requests, as a condition of project approval, that the applicant implement a stormwater plan (Site Management Plan) to direct surface flow away from streams to mitigate the existing threats of sediment delivery. In addition, those recommendations developed under any future Site Management Plan to be developed for the parcels, pursuant to Tier 2 enrollment under the State Water Resources Control Board (SWRCB) General Order shall also be followed.
- d) A Lake and Stream Bed Alteration Agreement (LSAA) notification was submitted to the California Department of Fish and Wildlife (CDFW) on November 30, 2020. CDFW issued Notification No. EPIMS-HUM-

13648-R1C in on July 13, 2021, for the replacement of 2 culverts on the subject parcel. On September 7, 2023, CDFW observed violations of Fish and Game Code (FGC) 1602 that were not in compliance with the LSAA. Notably, CDFW observed unauthorized surface water diversion for irrigation of cannabis cultivation from a tributary to Supply Creek during the forbearance period. Additionally, no water metering was occurring as required, and no monitoring reports have been submitted to CDFW as required, resulting in the applicant being out of compliance with the LSAA. CDFW requests, as a condition of project approval, that all Fish and Game Code violations are cured, and that the applicant becomes in compliance with the LSAA

- e) No Biological Assessment Report was prepared for the project. There is a water tank within the SMA of the Class II Stream. The WRPP is requiring that this tank be removed, and that the area be restored to its natural state. This activity is allowed with the additional Special Permit that is being requested. The nearest spotted owl activity center is approximately 1.1 miles east of the project site and additional owl activity centers are further from the project site in all directions. The project is conditioned to adhere to Dark Sky Association standards for security lighting, 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 affect northern spotted owl or other sensitive species.
- f) A Cultural Resources Inventory Report (CRIR) was prepared by Dimitra Zalarvis-Chase M.A., R.P.A. in August of 2022. Two cultural resources were observed and recorded as a result of survey efforts. Both resources were recorded on Department of Parks and Recreation (DPR) 523 forms. As a result, conditions were recommended for the project. It was concluded that there will be No Effect to historical, archaeological, or Tribal Cultural Resources, as defined by CEQA with adherence to the recommended conditions. It was also recommended that the inadvertent discovery protocol be followed.
- g) A Road Evaluation Report was prepared for 3 Creeks Road from Highway 299 to the private drive on APN 522-025-003. The report identified 3 Creeks Road as developed to the functional equivalent of a road category 4 standard and adequate for the proposed use without further review. 3 Creeks Road is partially county maintained.

## **FINDINGS FOR SPECIAL PERMITS**

**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 Timber Production Zone (TPZ) 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.

**4. FINDING:** The proposed development is consistent with the purposes of the existing TPZ zone in which the site is located.

**EVIDENCE:** a) The TPZ zone is applied to areas of the County in which timber production and recreation is the desirable predominant uses and general agriculture is the secondary uses.

b) All general agricultural uses are principally permitted in the TPZ-Zone.

c) Humboldt County Code Section 314-55.4.8.2.2 allows cultivation of up to 10,000 SF of existing cannabis cultivation on a parcel between 5 acres and 10 acres subject to approval of a Special Permit and a determination that the cultivation was in existence prior to January 1, 2016. The application for 10,000 SF of existing outdoor cultivation on a parcel 80-acres in size.

d) There is a water tank within the SMA of the Class II Stream. The WRPP requires that this tank be removed in accordance with the Streamside Management Areas and Wetlands Ordinance, and that the area be restored to its natural state. This activity is allowed with the additional Special Permit that is being requested.

**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 TPZ (Section 314-55.4.8.2.2).

b) The parcel has been determined to be a legal parcel per Notice of Lot Line Adjustment and Certificate of Subdivision Compliance, Instrument No.1992-2207-3, Recorded January 27, 1992.

c) The project will obtain water from a permitted groundwater well (16/17-1318).

d) A Road Evaluation Report was prepared for 3 Creeks Road from Highway 299 to the private drive on APN 522-025-003. The report

identified 3 Creeks Road as developed to the functional equivalent of a road category 4 standard and adequate for the proposed use without further review. 3 Creeks Road is partially county maintained.

- e) The slope of the land where cannabis will be cultivated is less than 15%.
- f) The location of the cultivation complies with all setbacks required in Section 314-55.4.11.d. It is more than 30 feet from any property line and more than 600 feet from any school, church, public park, or Tribal Cultural Resource.

**6. FINDING:**

The cultivation of 10,000 SF of outdoor cannabis cultivation, 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) The site is located on Old 3 Creeks Road, a partially county-maintained road and the Road Evaluation Report concluded that the entire road segment is developed to the equivalent of a road category 4 standard.
- b) The site is in a rural part of the county where the typical parcel size is over 25–40 acres and many of the land holdings are very large. 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. Approving cultivation on this site and the other sites which have been approved or are in the application process will not change the character of the area due to the large parcel sizes in the area.
- c) Irrigation water will come from a groundwater well that has been permitted by the Division of Environmental Health.
- d) Provisions have been made in the applicant's proposal to protect water quality and thus runoff to adjacent property and infiltration of water to groundwater resources will not be affected.

**7. 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 site is located in the Lower Trinity Planning Watershed, which under Resolution 18-43 is limited to 169 permits and 58 acres of cultivation. With the approval of the project the total approved permits in this Planning Watershed would be 62 permits and the total approved acres would be approximately 26.9 acres of cultivation. If all of the Supply Creek projects on the October 19, 2023 Planning Commission agenda are approved there would be a total of 73 permits and 34 acres approved within the Lower Trinity Planning Watershed.

**8. 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 but does have the potential to support one housing unit. The approval of cannabis cultivation on this parcel will not conflict with the ability for a residence to be constructed on this parcel.

### 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 Special Permits for Evergreen Family Farm, LLC subject to the conditions of approval attached hereto as Attachment 2A.

Adopted after review and consideration of all the evidence on **October 19, 2023**.

The motion was made by COMMISSIONER Thomas Mulder and second by COMMISSIONER Iver Skavdal and the following ROLL CALL vote:

AYES:	COMMISSIONERS:	Iver Skavdal, Noah Levy, Thomas Mulder, Brian Mitchell
NOES:	COMMISSIONERS:	Peggy O'Neill
ABSENT:	COMMISSIONERS:	Sarah West, Lonyx Landry
ABSTAIN:	COMMISSIONERS:	
DECISION:		Motion carried 4/1

I, John 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

## CONDITIONS OF APPROVAL

APPROVAL OF THE SPECIAL PERMITS IS CONDITIONED ON THE FOLLOWING TERMS AND REQUIREMENTS WHICH MUST BE SATISFIED BEFORE THE PROVISIONAL CANNABIS CULTIVATION PERMIT CAN BE FINALIZED.

### A. General Conditions

1. 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.
2. 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. Any and 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.
3. 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 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.
4. A Notice of Determination (NOD) will be prepared and filed with the County Clerk for this project in accordance with the State CEQA Guidelines. **Within three days of the effective date of permit approval**, the Department will file the NOD and will charge this cost to the project.
5. Within 60 days of the effective date of permit approval, the applicant shall submit a revised energy use plan that describes the power demand for the project that includes a description of what power is required for (e.g., propagation, cultivation, and processing) and how much power is required on a monthly and annual basis. The energy plan shall also include a description of the generator(s) used to meet the power demand and state how the size of the generator is reasonable based on the power demand. The plan shall also describe how the operation will transition to use of 100% renewable energy (e.g., solar, wind, and/or hydropower) sources by January 1, 2026, with a generator to be used for emergencies only.

6. 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 #7 through #16. 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.
7. The applicant shall secure permits for all structures 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 and proposed structures associated with drying, processing and storage or any activity with a nexus to cannabis, and any noise containment structures 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.
8. The approved building plans shall meet all applicable fire codes, including fire suppression infrastructure requirements deemed necessary for the project by the Building Inspection Division. Sign-off on the Occupancy Permit by the Building Division shall satisfy this requirement.
9. Obtain a permit to operate any EPA Tier 4 diesel generator from the North Coast Unified Air Quality Management District and obtain an electric permit from the County's Building Department.
10. The applicant shall submit a grading, erosion and sediment control plan shall be prepared by a qualified engineer. The plan shall identify the cubic yards of all grading that has been completed, and any proposed. A letter or similar communication from the Building Division verifying that all grading related to the cannabis cultivation operation are permitted, or not needed, will satisfy this condition.
11. No onsite processing (trimming and packaging) can be approved until approval of the unpermitted onsite wastewater treatment system (OWTS) at Cabin #3 on APN 522-024-002.
12. The applicant shall implement all corrective actions detailed in the Water Resource Protection Plan prepared for the site in May 2017 by Pacific Watershed Associates Inc. to evaluate if the site met the standard conditions of compliance and the applicant shall implement a stormwater plan (Site Management Plan) to direct surface flow away from streams to mitigate the existing threats of sediment delivery. In addition, those recommendations developed under any future Site Management Plan to be developed for the parcel, pursuant to Tier 2 enrollment under the State Water Resources Control Board (SWRCB) General Order (WDID I-12CC429237), shall also be followed. A letter or similar

communication from the SWRCB verifying that all their requirements have been met will satisfy this condition.

13. The applicant shall cure all Fish and Game Code violations associated with the unauthorized surface water diversion and come into compliance with the LSAA. The applicant shall execute the Lake or Stream Bed Alteration Agreement issued by the California Department of Fish and Wildlife (CDFW), Notification No. EPIMS-HUM-13648-R1C on July 13, 2021, for one point of diversion for domestic use, one onstream reservoir removal, and replacement of 4 culverts.
14. The applicant shall remove the water tank from the Streamside Management Area and restore the site per the recommendations detailed in the Water Resources Protection Plan for the project.
15. The applicant shall 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.
16. All unused water lines, infrastructure, and debris from the historic grow site shall be removed and properly disposed of at a waste management facility.
17. The applicant shall install water use meter(s) prior to the 2024 cultivation season to measure the amount of water used for the cultivation and annual metering reports shall be available during yearly compliance inspections.
18. 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 in order to keep the permit valid.
19. The applicant 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 Humboldt County Code and available at the Planning Division.

**B. Ongoing Requirements/Development Restrictions Which Must be Satisfied for the Life of the Project:**

1. 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 Commercial Medical Marijuana Land Use Ordinance (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 (dB). Conformance will be evaluated using current auditory disturbance guidance prepared by the United States Fish and Wildlife Service, and further consultation where necessary. A building permit shall be obtained should any structures be necessary for noise attenuation.

2. All artificial light utilized in mixed-light greenhouses shall be limited to 6 watts per square foot with no wattage limit in the ancillary propagation greenhouse. 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 light or low-spectrum Light Emitting Diodes with a color temperature of 3000 kelvins or less and 3) only placed where needed.
3. Should the Humboldt County Planning Division receive complaints that the lighting or noise is not complying with the standards listed above in items B.1. and B.2., within 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.
4. Ensure all generators 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.
5. 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.
6. All refuse shall be contained in wildlife proof storage containers, at all times, and disposed of at an authorized waste management facility.
7. Should any wildlife be encountered during work activities, the wildlife shall not be disturbed and be allowed to leave the work site unharmed.
8. The use of anticoagulant rodenticide is prohibited.
9. Evidence shall be provided to County staff during annual inspections to confirm the continual use of portable toilets to serve the needs of cultivation staff until the OWTS at Cabin #3 on APN 522-024-002 is permitted.

10. The applicant shall maintain water use meter(s) to measure the amount of water used for the cultivation and annual metering reports shall be available during yearly compliance inspections. If the metered use indicates that the yearly water demands are not being met, the applicant shall install the appropriate amount of storage/catchment storage to accommodate the yearly demand.
11. The applicant shall abide by the recommended conditions of the Cultural Resources Investigation Report (CRIR) prepared by Dimitra Zalarvis-Chase M.A., R.P.A. in August of 2022. which concluded that there will be No Effect to historical, archaeological, or Tribal Cultural Resources, as defined by CEQA with adherence to the recommended conditions of approval listed below.
  - A. Cannabis related activities are prohibited within the site boundaries as recorded on the Department of Parks and Recreation (DPR) Site Record Location maps, located in Confidential Appendix E of the CRIR.
  - B. Motor vehicles are prohibited within the site boundaries as recorded on the DPR Site Record Location maps, located in Confidential Appendix E of the CRIR.
  - C. Ground Disturbance is prohibited within the site boundaries as recorded on the DPR Site Record Location maps, located in Confidential Appendix E of the CRIR.
  - D. Vegetation removal is prohibited within the site boundaries as recorded on the DPR Site Record Location maps, located in Confidential Appendix E of the CRIR.
12. 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.
13. All components of project shall be developed, operated, and maintained in conformance with the Project Description, the approved Site Plan, the Cultivation and Operations Plan, 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. If offsite processing is chosen to be the preferred method of processing, this permit shall be modified to identify the offsite licensed facility.
14. Cannabis cultivation and other commercial cannabis activity shall be conducted in compliance with all laws and regulations as set forth in the CMMLUO and Medicinal and Adult-Use Cannabis Regulation and Safety Act (MAUCRSA), as applicable to the permit type.
15. 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 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 1 year of issuance of the provisional clearance or permit. If good faith effort toward compliance can be shown

within the 2 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.

16. 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.
17. Compliance with all statutes, regulations, and requirements of the California SWRCB 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.
18. 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).
19. Maintain enrollment in Tier 1 or 2 certification with North Coast Regional Water Quality Control Board Order No. R1-2019-0023, if applicable, or any substantially equivalent rule that may be subsequently adopted by the County of Humboldt or other responsible agency.
20. Comply with the terms of any applicable Lake and Stream Alteration (1600 or 1602) Permit obtained from the California Department of Fish and Wildlife and provide the County with a copy of the Final Notification(s).
21. 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.
22. Consent to an annual onsite 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).
23. Refrain from the improper storage or use of any fuels, fertilizer, pesticide, fungicide, rodenticide, or herbicide.
24. Pay all applicable application, review for conformance with conditions and annual inspection fees.
25. Fuel shall be stored and handled in compliance with applicable state and local laws and regulations, including the County of Humboldt's CUPA program, and in such a way that no spillage occurs.

26. The master log books maintained by the applicant to track production and sales shall be maintained for inspection by the County.
27. 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

28. 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.”
29. 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).
30. 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.
31. 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;
    - (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. Onsite housing provided to employees shall comply with all applicable federal, state, and local laws and regulations.

32. 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. Onsite housing, if any

33. Term of Commercial Cannabis Activity Permit. Any Commercial Cannabis Cultivation Permit issued pursuant to the CMMLUO shall expire 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.

34. 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 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 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.

35. 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.

36. 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.

37. 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.
38. 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.

**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 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 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.
2. This provisional permit approval shall expire and become null and void at the expiration of 1 year after all appeal periods have lapsed (see "Effective Date"), except where the Compliance Agreement per Condition of Approval #6 has been executed and the corrective actions pursuant to the agreement are being undertaken. Once building permits have been secured and/or the use initiated pursuant to the terms of the agreement, the use is subject to the Permit Duration and Renewal provisions set forth in Conditions of Approval #26 and 27 of the Ongoing Requirements/Development Restrictions, above.
3. If cultural resources are encountered during construction activities, the contractor onsite 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 Section 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.

4. The applicant shall be aware that the Federal Government considers the cultivation of cannabis to be an illegal activity. This project is accessed by using roads that pass-through lands owned by the Federal Government. The Federal Government may not allow the applicant to use these roads to transport cannabis. In such case, Humboldt County will not provide relief to the applicant. Approval of this permit does not authorize transportation of cannabis across Federal lands.

EVERGREEN FAMILY FARM, LLC

---

APN 522-025-003

#11980

OPERATIONS PLAN

PROPOSED CANNABIS  
CULTIVATION FACILITIES



DECEMBER 2020

# **Cultivation and Operations Manual**

## **EVERGREEN FAMILY FARM, LLC**

Lead Agency:

***Humboldt County Planning Department***

3015 H Street  
Eureka, CA 95501

Prepared By:

Christina Sundman

***PR Professional Services***

3034 H Street, Suite B  
Eureka, CA 95501  
(707)298-0902  
christina@prproservices.com

In Consultation with:

**EVERGREEN FAMILY FARM, LLC**

1305 Broadway  
Alameda, CA 94501

December 2020

This page intentionally left blank

---

OPERATIONS MANUAL  
EVERGREEN FAMILY FARM LLC

---

**TABLE OF CONTENTS**

<b><u>1. PROJECT SUMMARY .....</u></b>	<b><u>1-1</u></b>
1.1. PROJECT OBJECTIVE .....	1-1
1.2. SITE DESCRIPTION .....	1-1
1.3. STATE AND LOCAL COMPLIANCE .....	1-1
1.3.1. State of California Commercial Cannabis Activity License .....	1-1
1.3.2. State Water Resources Control Board.....	1-1
1.3.3. Humboldt County Building Department.....	1-1
1.3.4. CAL FIRE .....	1-1
1.3.5. California Department of Fish and Wildlife.....	1-2
1.3.6. Cultural Resources .....	1-2
<b><u>2. OPERATIONS MANAGEMENT .....</u></b>	<b><u>2-2</u></b>
2.1. WATER SUPPLY AND WATER USE.....	2-2
2.2. SITE DRAINAGE, RUNOFF AND EROSION CONTROL.....	2-3
2.3 WATERSHED AND HABITAT PROTECTION .....	2-3
2.3.1 Invasive Species Control Plan .....	2-4
2.4 ENERGY PLAN .....	2-4
2.4.1 Light Pollution Control Plan .....	2-4
2.5 NOISE SOURCE ASSESSMENT AND MITIGATION PLAN .....	2-4
2.6 USE AND STORAGE OF REGULATED PRODUCTS .....	2-4
2.7 FUELS AND OIL.....	2-5
2.8 WASTE MANAGEMENT PLAN .....	2-5
2.8.1 Solid Waste Management .....	2-5
2.8.2 Cultivation Waste and Soil Management .....	2-5
2.8.3 Wastewater management .....	2-6
2.9 EMPLOYEE PLAN.....	2-6
2.9.1 Job Descriptions And Employee Summary .....	2-6
2.9.2 Employee Training and Safety Practices .....	2-6
3.1 ON SITE HOUSING AND PARKING PLAN.....	2-6
3.2 SECURITY PLAN .....	2-6
<b><u>4 CULTIVATION PLAN.....</u></b>	<b><u>2-7</u></b>
4.1.1 Propagation .....	2-7
4.1.2 Cultivation Plan and Schedule .....	2-7
4.1.3 Irrigation Plan and Schedule .....	2-7
4.1.4 Harvesting, Drying and Trimming.....	2-7
4.1.5 Processing .....	2-8
<b><u>5 PRODUCT MANAGEMENT.....</u></b>	<b><u>2-8</u></b>
5.1 PRODUCT TESTING .....	2-8
5.2 PRODUCT INVENTORY AND TRACKING .....	2-8
5.3 TRANSPORTATION AND DISTRIBUTION PLAN.....	2-8

---

OPERATIONS MANUAL  
EVERGREEN FAMILY FARM LLC

---

<b>6</b>	<b><u>RESOURCES.....2-10</u></b>
----------	----------------------------------

**ATTACHMENTS**

- Appendix A: Personnel Acknowledgement Form
  - Appendix B: Site Plan
  - Appendix C: Pesticide Storage, Handling and Application Plan
  - Appendix D: Emergency Procedures and Contact Information
  - Appendix E: Cultivation Activities Schedule
  - Appendix F: Material Safety Data Sheets
-

## 1. PROJECT SUMMARY

### 1.1. PROJECT DESCRIPTION

Evergreen Family Farm, LLC is seeking a Conditional Use Permit (application #11980) for 10,000 square feet of existing outdoor cannabis cultivation in accordance with the County of Humboldt's Ordinance No. 2559 (CMMLUO). Water for irrigation is sourced from an existing groundwater well permitted for agricultural irrigation located on the adjacent parcel APN 522-024-002 (application #11978). Drying and harvest storage will take place in the designated drying shed on the adjacent parcel. Processing will occur off-site until an existing structure on the adjacent parcel is upgraded to meet commercial standards.

### 1.2. SITE DESCRIPTION

The 80-acre project site (APN 522-025-003) is located in Humboldt County, outside of the community of Willow Creek, on the North side of State Highway 299. The terrain is relatively steep, with natural benches. Elevation ranges from 3,600 feet to 4,200 feet above mean sea level.

The site is located within the Supply Creek watershed. The parcel is zoned for Timberland Production (TPZ) and has a Humboldt County General Plan Land Use Designation of T.

The project site has historically been used for timber harvest. The outdoor cultivation area and HDPE water storage tanks.

### 1.3. STATE AND LOCAL COMPLIANCE

#### 1.3.1. STATE OF CALIFORNIA COMMERCIAL CANNABIS ACTIVITY LICENSE

Upon project approval, Evergreen Family Farm, LLC shall obtain licensure under CDFA. Copies of State licenses shall be posted on the subject parcel, and copies will be made available upon request.

#### 1.3.2. STATE WATER RESOURCES CONTROL BOARD

The applicant is enrolled as a Tier 2 Low Risk discharger (WDID 1\_12CC4292374) under State Water Resources Control Board (SWRCB) Order WQ 2017-0023-DWQ. The SWRCB Order provides a framework for managing water quality, instream flow impacts, and wastewater discharge associated with commercial cannabis cultivation. Dischargers must implement Best Practicable Treatment or Control (BPTC) measures and submit technical and monitoring reports to ensure compliance with the order. The applicant has retained a consultant to prepare a Site Management Plan (SMP) summarizing existing and proposed BPTC measures for compliance with the SWRCB's General Order. Upon completion, the SMP will be submitted to the Humboldt County Planning Department (HCPD).

#### 1.3.3. HUMBOLDT COUNTY BUILDING DEPARTMENT

The project does not include any proposed or existing structures. All water tanks are less than 5,000 gallons.

#### 1.3.4. CAL FIRE

The subject property is located within the State Responsibility Area (SRA) for fire protection. The emergency vehicle turn-around area is located on the access road leading to Cultivation

OPERATIONS MANUAL  
EVERGREEN FAMILY FARM LLC

---

Area #4 (CA #4). The turn-around is approximately 30 feet long, less than 7% grade, and is regularly rocked and maintained to prevent ruts or rills to the road surface. The hammerhead turn-around area is approximately 50 feet wide with well over 15 feet of vertical clearance.

There are no structures on the property. The outdoor cultivation area meets the 30-foot SRA property line setback requirement.

### **1.3.5. CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE**

A Lake and Stream Bed Alteration (LSA) notification was submitted to CDFW on November 30, 2020. A copy of the notification is on file with HCPD.

The LSA notification includes a domestic point of diversion (POD #1) on the subject parcel, the maintenance and repair of four stream crossings (SC #1 and SC #2 on subject parcel and SC #3 and SC #4 on adjacent parcel), and the decommissioning of an on-stream pond (Pond #1) on the adjacent parcel. Due to signs of instability near the outfall pipe, Timberland Resource Consultants and Tom Leroy, Certified Engineering Geologist, recommend decommissioning the on-stream pond.

Upon Fish and Wildlife approval, a copy of the final Lake and Streambed Alteration Agreement (LSAA) will be filed with HCPD.

### **1.3.6. CULTURAL RESOURCES**

No ground disturbing activities are proposed. If buried archaeological or historical resources are encountered during regular cultivation activities, Evergreen Family Farm shall call all work in the immediate area to a temporary halt, and a qualified archaeologist will be contacted to evaluate material(s).

## **2. OPERATIONS MANAGEMENT**

### **2.1. WATER SUPPLY AND WATER USE**

Water for cannabis cultivation is sourced from a high-yielding groundwater well permitted for agricultural irrigation. The well is located over 200 feet from the nearest watercourse on the adjacent parcel APN 522-024-002. A Well Completion Report is on file with HCPD.

Irrigation water is stored in HDPE storage tanks. Float valves and water meters shall be installed on all water tanks.

Water for domestic purposes is sourced from an existing groundwater well and a point of diversion (POD-1) located on an unnamed tributary to Supply Creek on the subject parcel. Domestic water is stored in a HDPE storage tank.

The following table includes an inventory of all water storage tanks on APN 522-024-022 and APN 522-025-003 as both parcels share a water source and water storage infrastructure. Water tank locations are shown on the attached site plans.

OPERATIONS MANUAL  
EVERGREEN FAMILY FARM LLC

TABLE 1: INVENTORY OF WATER STORAGE			
STORAGE TYPE	QUANTITY	CAPACITY (GAL)	PROPOSED USE
HDPE tank	3	2,500	Fire suppression
HDPE tank	4	5,000	Irrigation
HDPE tank	4	2,500	Irrigation
HDPE tank	2	1,500	Irrigation
HDPE tank	1	2,500	Domestic
TOTAL	12	43,000	--

Evergreen Family Farm currently utilizes approximately 53,000 gallons of water per year for cannabis irrigation on APN 522-025-003. The following table outlines the estimated water usage for the proposed cultivation during a typical year. This estimate does not take into account variables such as weather conditions or specific cannabis strains which may have slight effects on overall water usage.

TABLE 2: PROPOSED AGRICULTURAL WATER USE (GAL)											
Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec
0	0	0	0	0	8,000	12,000	14,000	14,000	5,000	0	0

## 2.2. SITE DRAINAGE, RUNOFF AND EROSION CONTROL

Evergreen Family Farm has developed a plan using the guidelines for best practicable treatments and controls (BPTCs) in accordance with the recommendation of SWRCB General Order. The SMP summarizes erosion and sediment control measures that have been implemented to minimize discharge to surface waters.

Evergreen Family Farm will utilize the following BPTCs to manage stormwater runoff:

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

## 2.3 WATERSHED AND HABITAT PROTECTION

Watercourses and wetlands have been mapped and surveyed by Pacific Watershed Associates technicians and James Reagan, biologist. Copies of those reports are on file with HCPD. No cultivation areas fall within the riparian setbacks of the mapped watercourse and wetland features. There are no known occurrences of threatened, rare, or endangered species near the project site.

OPERATIONS MANUAL  
EVERGREEN FAMILY FARM LLC

---

The slope buffers are well-vegetated and adequate as a filter for any errant waste or entrained sediment from managed areas. No spoils from road grading or site grading are stored on the project site.

All tilling or earthwork activities will be conducted in accordance with approved the SMP and SWRCB BPTCs. Maintenance and repair strategies for site development and road improvements will utilize best practicable treatment and controls (BPTCs), such as outsloping of roads, installation of water bars, or other appropriate measures, to maintain slope and access road integrity. Proposed cultivation operations will be developed in accordance with SWRCB's BPTCs and the CDFW LSAA to ensure erosion control measures are effective and operations will not allow discharges to riparian areas.

### **2.3.1 INVASIVE SPECIES CONTROL PLAN**

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

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

## **2.4 ENERGY PLAN**

The proposed project includes full-sun outdoor cultivation only. No generator use is proposed at this time.

### **2.4.1 LIGHT POLLUTION CONTROL PLAN**

No artificial lighting is proposed.

## **2.5 NOISE SOURCE ASSESSMENT AND MITIGATION PLAN**

The combined decibel (dBA) level for all noise sources shall not exceed 50 dBAs at any potential habitat area, or tree line, and shall not exceed 60 dBs at the parcel boundary. No generators or exhaust fans will be used at this site. Noise levels are not expected to exceed the recommended thresholds.

## **2.6 USE AND STORAGE OF REGULATED PRODUCTS**

Evergreen Family Farm shall employ BPTCs when storing, handling, mixing, applying, and disposing of all fertilizers. Evergreen Family Farm practices organic farming methods for all cultivation. Table 3 contains an inventory of agricultural chemicals. Chemicals are stored in a designated area near Cabin #2 on the adjacent parcel.

TABLE 3: INVENTORY OF AGRICULTURAL CHEMICALS		
PRODUCT NAME	QUANTITY	PRODUCT TYPE
Bone Meal	150 lbs	Fertilizer
Humic Acid	150 lbs	Soil amendment

OPERATIONS MANUAL  
EVERGREEN FAMILY FARM LLC

---

Seaweed	250 lbs	Fertilizer
Moca Guano	275 lbs	Fertilizer
Molasses	24 gal	Fertilizer
Azomite	165 lbs	Soil amendment
Nitro Guano	220 lbs	Fertilizer
Black Gold Organic Soil	40,000 lbs	Soil
Rainbow Mix Organic Grow & Bloom	200 lbs	Soil
Dr. Zymes	2 gal	Integrated pest management
Grandevo	4 lbs	Integrated pest management

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

All nutrients are stored and handled as per manufacturer's recommendation. The designated Ag Chem storage area is in an enclosed shipping container on the adjacent parcel. Agricultural chemicals shall be stored in secondary containment.

The applicant will enroll with the Humboldt County Environmental Health Department (HCEHD) as the Certified Unified Program Agency (CUPA) and will comply with inventory reporting and response plan requirements.

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

## **2.7 FUELS AND OILS**

Gasoline and oil for generators, vehicles, and equipment shall be stored in containers rated for petroleum products and stored in secondary containment in the designated Petroleum Storage Area near Cabin #2 on the adjacent parcel. Equipment maintenance and servicing takes place off-site.

## **2.8 WASTE MANAGEMENT PLAN**

### **2.8.1 SOLID WASTE MANAGEMENT**

Garbage and recycling are stored in a secure waste storage area located west of Cabin #2 on the adjacent parcel. The waste storage area complies with BPTCs to prevent wildlife tampering and transport of waste to waters of the State. Waste is removed from the property every two weeks and transported to an approved waste disposal facility.

### **2.8.2 CULTIVATION WASTE AND SOIL MANAGEMENT**

Cultivation waste such as root balls, branches, and leaves shall be composted in a designated area away on the adjacent parcel. Spent soil will remain in fabric pots, where it will be planted with cover crops or covered with weighted tarps and amended for the following season. Pots containing clones will be washed, rinsed, and reused the following season. Pesticide and

OPERATIONS MANUAL  
EVERGREEN FAMILY FARM LLC

---

fertilizer bags and containers will be stored in the waste storage shed until they can be transported to an off-site recycling or waste disposal facility.

### **2.8.3 WASTEWATER MANAGEMENT**

Domestic wastewater is not generated at this project site. Employees will have access to restrooms and clean drinking water in the cabins on the adjacent parcel.

## **2.9 EMPLOYEE PLAN**

Evergreen Family Farm, 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.

### **2.9.1 JOB DESCRIPTIONS AND EMPLOYEE SUMMARY**

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

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

### **2.9.5 EMPLOYEE TRAINING AND SAFETY PRACTICES**

All cultivation and harvesting activities are performed by trained employees on procedures for cultivation, harvesting, use of pruning tools, proper application and storage of pesticides and fertilizers. All staff are provided with proper hand, eye, body Personal Protective Equipment (PPE). Access to onsite cultivation and the drying and processing facilities are limited to authorized staff of Evergreen Family Farm, LLC. A copy of the Operations Plan will be kept on site by the Agent in Charge and will contain all material safety data sheets (MSDS), see Appendix F.

## **3.1 ON SITE HOUSING AND PARKING PLAN**

There is no housing on-site. The adjacent parcel includes three existing cabins. Cabin #1 is occupied by the owner and their family. Cabin #2 and Cabin #3 are currently unoccupied. The applicant plans to convert Cabin #3 into a commercial/ADA compliant processing building. Bottled drinking water and restrooms are available in all cabins. Domestic wastewater is processed by the existing septic systems as shown on the attached site plan.

Each Cabin #1 and Cabin #2 each have two 9'x18' parking spaces. Cabin #3 has four parking spaces.

The subject parcel includes four 9' x 18' parking spaces near the cultivation area as shown on the attached site plan.

## **3.2 SECURITY PLAN**

Evergreen Family Farm has implemented security measures to safeguard the product and prevent nuisance from occurring on the property. Security gates are installed along all main roads and access gates. Gates have keyed locks and are kept locked when not in use. The applicant proposes to install an alarm system, game cameras, and motion sensor lights near cultivation areas and appurtenant facilities.

## 4 CULTIVATION PLAN

### 4.1.1 RECONFIGURATION AND ENVIRONMENTAL SUPERIORITY

The applicant is proposing to add a 20' x 50' (1,000 square foot) nursery to Cultivation Area #1 (CA #1) on the adjacent parcel APN 522-024-002. It is environmentally superior to include the nursery on the adjacent parcel because the subject parcel does not utilize electricity. CA #1 on the adjacent parcel will already be using generators to power mixed-light hoophouses associated with Application #11980. Consolidating greenhouses that require electricity to this one cultivation flat will eliminate light and noise impacts on the subject parcel, while adding a small amount of energy demand to the existing operation on the adjacent parcel.

### 4.1.2 PROPAGATION

Juvenile plants are obtained from 'mother plants' that demonstrate the desired genetics for the specific cannabis strain. The 'mother plants' shall be kept in designated nursery areas, as noted on the attached Site Plan. Cuttings are sampled from the mother plants and are rooted into a growing medium, to produce 'clones.' Once fully rooted, clones are transplanted into 4" pots inside the Nursery. The juvenile plants are irrigated using hand watering methods. After approximately 10 days, the clones are then transplanted into beds with a soil medium, where they continue their 'vegetative' cycle.

### 4.1.3 CULTIVATION PLAN AND SCHEDULE

Full sun outdoor cultivation will take place in 300-gallon Smart Pots in the area labeled Cultivation Area #4 (CA #4) on the attached site plan. The dimensions of the cultivation area are irregular. The total cultivation area is 10,000 square feet. Water for the proposed cultivation will be sourced a permitted groundwater well on the adjacent parcel.

The cultivation schedule in Appendix E details monthly cultivation activities, and work hours associated with the cultivation operation for a one cycle year.

### 4.1.4 IRRIGATION PLAN AND SCHEDULE

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

### 4.1.5 HARVESTING, DRYING AND TRIMMING

Once the *Lead Cultivator* has determined the plants are at their peak, harvest procedures will be initiated. This entails removing the flowering branches from the plant and suspending them in the drying shed on the adjacent parcel with ventilation supplied by oscillating fans. The drying process takes approximately one week. Dried flowers are then 'bucked' off the stalks and into manageable sizes for onsite processing via trim machine.

The finished product is stored in the drying, curing, harvest storage building on the adjacent parcel before being transported to a licensed facility or processed on-site in Cabin #3. The waste product or 'trim', is collected and placed into bins to be weighed and labeled. The trim will also be transported off-site and to a licensed manufacturing facility.

OPERATIONS MANUAL  
EVERGREEN FAMILY FARM LLC

---

#### **4.1.6 PROCESSING**

Processing will be completed off-site at a licensed facility until the applicant can upgrade Cabin #3 on the adjacent parcel to commercial/ADA standards. After permitting and completing the required upgrades, cannabis will be processed in a trim machine operated by Evergreen Family Farm's *Lead Cultivator*. The trimmed material will be placed into sterilized locking lid bins. These bins will be weighed, labeled, logged and sealed. Great care will be taken to ensure that the original numbered corresponding plant tag remains affixed to each bin. The *Agent in Charge* will then deliver the sealed and logged bins to the designated secured area within the processing area.

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

### **5 PRODUCT MANAGEMENT**

#### **5.1 PRODUCT TESTING**

Samples will be selected from harvested cannabis strains to be tested by a licensed third-party lab in accordance with State and Local regulations. The finished product shall be labeled with the Evergreen Family Farm, LLC logo and will include tracking Identification provided by CDFA's Track and Trace (METRC) program.

#### **5.2 PRODUCT INVENTORY AND TRACKING**

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

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

##### **5.2.1 REPORTING**

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

#### **5.3 TRANSPORTATION AND DISTRIBUTION PLAN**

Transportation will be handled via a third party, contracted, licensed transporter/distributor in accordance with MMRSA. All merchantable product will only be distributed through licensed medical cannabis dispensaries. Prior to moving packages from the onsite holding facility to another physical location, a transport manifest will be created by the distributor/transporter.

OPERATIONS MANUAL  
EVERGREEN FAMILY FARM LLC

---

This distribution document is required for each movement of packages and will be recorded in the Master Log.

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

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

OPERATIONS MANUAL  
EVERGREEN FAMILY FARM LLC

---

RESOURCES

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

California Code of Regulations. Health and Safety Code Section 11357-11362.9.  
<<http://www.leginfo.ca.gov/cgi-bin/displaycode?section=hsc&group=11001-12000&file=11357-11362.9>> Date accessed: July 16, 2014.

California NORML. SB 420 Establishes Prop. 215 Guidelines, Voluntary Patient Identification Card System.  
<<http://www.canorml.org/laws/sb420.html>> Date accessed: July 21, 2014.

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

North Coast Regional Water Quality Control Board. 2016. *Cannabis Cultivation Waste Discharge Regulatory Program*. [http://www.waterboards.ca.gov/northcoast/water\\_issues/programs/cannabis/](http://www.waterboards.ca.gov/northcoast/water_issues/programs/cannabis/). Date accessed: March 28, 2016.

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

State of California. Guidelines for the Security and Non-Diversion of Marijuana Grown for Medical Use. August 2008.  
<[http://www.ag.ca.gov/cms\\_attachments/press/pdfs/n1601\\_medicalmarijuanaguidelines.pdf](http://www.ag.ca.gov/cms_attachments/press/pdfs/n1601_medicalmarijuanaguidelines.pdf)>

OPERATIONS MANUAL  
EVERGREEN FAMILY FARM LLC

---

**Appendix A: Personnel  
Acknowledgement Form**

---

OPERATIONS MANUAL  
EVERGREEN FAMILY FARM LLC

---

**Personnel Acknowledgement Form**

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

---

***Employee sign and date***

---

***Agent in Charge sign and date***

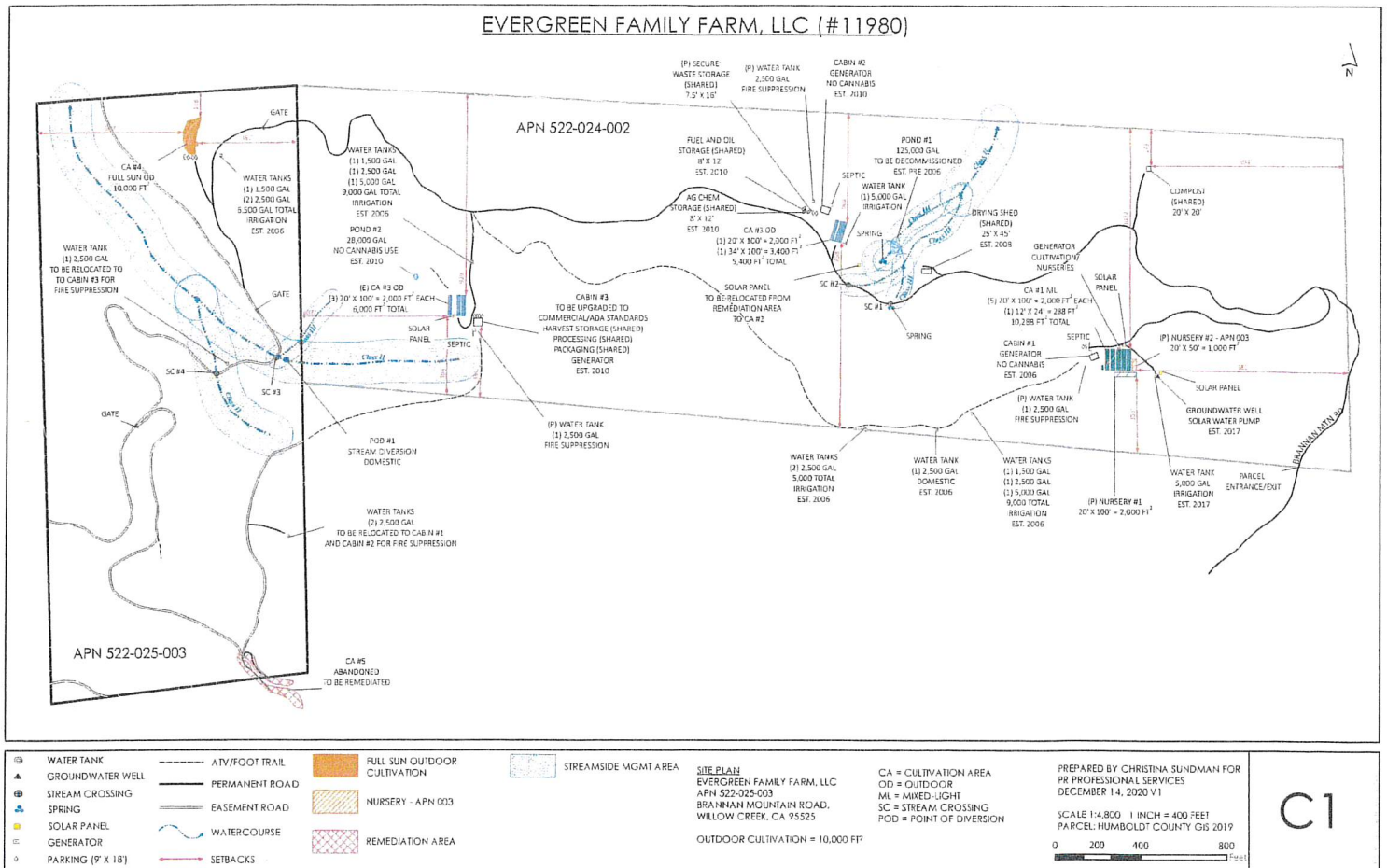
---

OPERATIONS MANUAL  
EVERGREEN FAMILY FARM, LLC

---

Appendix B: Site Plan

# EVERGREEN FAMILY FARM, LLC (#11980)



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

OPERATIONS MANUAL  
EVERGREEN FAMILY FARM, LLC

---

**EVERGREEN FAMILY FARM LLC**  
**Pesticide Storage, Handling and Application Plan**

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

**Storage**

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

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

**Handling**

The handling of pesticides/fungicide will be done in accordance with *State of California Agricultural Department Personal Pesticide Application License* guidelines. Handling will include, transportation from retail outlet to cultivation site, logging and entering into secured, labeled storage, mixing, preparation, transport to application locations on site, application and disposal. These activities will be logged into the Master Log immediately by the Lead Cultivator. By having a strictly monitored Pesticide Management plan in place, EVERGREEN FAMILY FARM will strive for a "ZERO SPILL POLICY". In the event of a spill, EVERGREEN FAMILY FARM will maintain on site an Emergency Containment and Clean Up policy in accordance with *State of California Agricultural Department Personal Pesticide Application License* guidelines.

EVERGREEN FAMILY FARM will also maintain on site in a clearly marked and accessible secure location any materials deemed necessary for clean up or spill containment and abatement. EVERGREEN FAMILY FARM will maintain a well-marked and easily accessible plan for accidental personnel exposure as well as proper applicators training as set forth by *State of California Agricultural Department Personal Pesticide Application License* guidelines in the event of such accidental exposure. Any spills or accidental personnel exposure will be

OPERATIONS MANUAL  
EVERGREEN FAMILY FARM, LLC

---

reported to the appropriate agencies as deemed necessary by *State of California Agricultural Department Personal Pesticide Application License* guidelines. These incidents will also be documented into the Master Log by the Lead Cultivator.

**Application**

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

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

**Disposal**

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

Appendix D: Emergency  
Procedures and Contact  
Information

## **Emergency Procedures Instructions EVERGREEN FAMILY FARM LLC**

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

### **Emergency Phone Numbers**

**Dial 911 for Fire/Police/Ambulance:**

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

**APN 522-025-003  
BRANNAN MOUNTAIN ROAD,  
WILLOW CREEK, CA 95525**

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

### **Other Emergency Contacts**

**Humboldt County Sheriff: 707-445-7251**

**Honeydew Volunteer Fire Dept: (707) 629-3445**

**Humboldt County HazMat: 707-445-6215**

**Humboldt County Ag Dept.: 707-441-5260**

## **Fire and Emergency Procedures Checklist**

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

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

## **Spill Procedures Checklist**

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

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

## **Incident Reporting**

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

**Respond to the accident promptly and positively**

**Collect relevant information about the accident**

**Develop and take remedial actions**

**Complete insurance claims and reports required**

### ***First Aid***

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

### ***Minor Injury Accidents***

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

### ***Serious Injury Accidents***

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

### ***Property Damage***

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

## **Emergency First Aid-Procedures**

### **Control of Bleeding**

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

#### ***Remember!!***

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

### **Management of Burns**

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

#### ***Remember!!***

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

## **Management of Eye Injuries**

### **Foreign bodies in the eye(s)**

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

### **Management of Chemicals in Eye(s)**

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

### **Breathing**

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

If person *is not breathing*

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

### **Location of Firefighting Equipment, Spill and First Aid Kits**

A **fire extinguisher** is located in the following places:

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

A **first aid kit** is located in the following places:

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

A **spill kit** is located in the following places:

- *Cultivation Site*
- *Processing Facility*

**Appendix E: Cultivation  
Activities Schedule**

# PR Professional Services

Project Management Consulting

## SCHEDULE OF ACTIVITIES – HOURS OF OPERATION

Evergreen Family Farm, LLC  
APN: 522-024-002 & 522-025-003

### Schedule of Activities

**April:** Site prep includes amending beds, and erecting hoops.

**May:** Hoophouses planted early May. Plants are regularly checked, watered, and fed.

**June:** Full sun outdoor planted. Plants are regularly checked, watered, and fed. Trellis placed around plants for support.

**July:** Harvest hoophouses mid-July; replant end of July. Cages placed around full sun outdoor plants. Plants are checked, watered and fed.

**August:** Plants are checked, watered, and fed. Cages and trellis are placed around plants for support.

**September:** Harvest hoophouses at end of September or beginning of October.

**October:** Harvest full sun outdoor late October. Cover soil with tarps or cover crop. Begin winterization measures.

**November:** Break down site in preparation for winter. Complete all winterization and erosion control measures.

### Hours of Operation – 8am to 8pm

Activities associated with cultivation (watering, transplanting, and harvesting) generally occur during daylight hours (dawn to dusk).

The operation is staffed by up to up to 3 full-time employees and 4 part-time seasonal employees. Employees are shared between APN 522-024-002 (#11978) and APN 522-025-003 (#11980).

Staffing Table - Person Hours by Month

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
<b>Total person hours</b>	0	0	160	320	560	504	640	504	504	640	320	0
<b>Full time</b>	1	0	1	2	3	3	3	3	3	3	2	0
<b>Part time</b>	0	0	0	0	0	2	4	2	2	4	0	0

<b>TOTAL Person Hours Per Year:</b>	<b>4,152</b>
-------------------------------------	--------------

NOTE: Person Hours may vary based on weather and/or unforeseen issues that may arise. Hours are based on median estimates.

Appendix F: Material Data  
Safety Sheets

**MATERIAL SAFETY DATA SHEET****SECTION I – IDENTIFICATION OF PRODUCT****Manufacturers Name**

Dr. Earth Company

P.O. Box 460

Winters, Ca 95694

**Emergency Phone Number**

(707) 448-4676

Fax: (707) 448-4760

**Trade Name & Synonyms**

Dr. Earth® Bone Meal 3-15-0

**Chemical Name & Synonyms**

Fertilizing Compounds

**Chemical Family**

Organic Solid

**SECTION II – HAZARDOUS INGREDIENTS OF MIXTURES**

<b>Component</b>	<b>%</b>
Total Nitrogen (N)	3.0
3.0 % Water insoluble organic nitrogen	
Available Phosphoric acid (P205)	15.0
Soluble Potash (K20)	0.0
Calcium (Ca)	—
Magnesium (Mg)	—
Sulfur (S)	—
Inert Ingredients	82.0

**SECTION III – PHYSICAL DATA**

<b>Appearance &amp; Odor:</b> Dry powdery, white to light yellow in color.		
<b>Boiling Point (Degrees Fahrenheit)</b>	<b>Specific (Water = 1)</b>	<b>Bulk Density</b>
N/A	N/A	N/A
<b>Vapor Pressure (MM of Mercury)</b>	<b>Percent Volatile (By Volume)</b>	
N/A	N/A	
<b>Vapor Density (Air = 1)</b>	<b>Evaporation Rate (Butyl acetate = 1)</b>	
N/A	N/A	
<b>Solubility in Water</b>		
Fairly soluble, but most remains solid.		

**SECTION IV – FIRE AND EXPLOSION HAZARD DATA**

<b>Flash Point (Specify Method/Degrees F)</b>	<b>Flammable Limits</b>	<b>Lower</b>	<b>Upper</b>
N/A	% by Volume	N/A	N/A
<b>Fire Extinguishing Media:</b> Use that which is appropriate for the surrounding fire.			
<b>Special Fire Fighting Procedures:</b> Wear bunker gear & a self-contained breathing apparatus.			

#### SECTION V – HEALTH HAZARD DATA

<b>Effects of Overexposure:</b> May irritate sensitive individuals if on skin for prolonged period of time.
<b>Emergency and First Aid Procedures:</b> <i>If Swallowed:</i> Induce vomiting, get medical attention. <i>If on Skin:</i> Flush with soap and water, remove and launder contaminated clothing. <i>If in Eyes:</i> Flush with plenty of water for at least 15 minutes. <i>If Inhaled:</i> Remove to fresh air.

#### SECTION VI – REACTIVITY DATA

Stability	Unstable	Conditions to Avoid N/A
	Stable X	
Incompatibility (Materials to Avoid):		None Known
Hazardous Decomposition Products:		None Known
Hazardous Polymerization	May Occur	Conditions to Avoid N/A
	Will not Occur X	

#### SECTION VII – SPILL OR LEAK PROCEDURES

<b>Steps to be taken in case material is released or spilled:</b> Sweep or scoop residue and remove. Mix with surrounding soil if possible; Recycle if possible.
<b>Waste Disposal Method:</b> Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

#### SECTION VIII – SPECIAL PROTECTION INFORMATION

<b>Respiratory Protection (Specify type):</b> N/A	<b>Mechanical (General):</b> N/A
<b>Ventilation:</b> Use with adequate ventilation.	<b>Local Exhaust:</b> N/A
<b>Protection Gloves:</b> N/A	<b>Eye Protection:</b> N/A
<b>Other Protective Equipment:</b> Change cloths daily; bathe daily, wash cloths separately before reuse.	

#### SECTION IX – SPECIAL PRECAUTIONS

<b>Precautions to be taken in handling and storing:</b> Store in the original container, preferably in a locked storage area. <b>KEEP OUT OF REACH OF CHILDREN!</b>
<b>Other precautions:</b> Wash thoroughly after handling. Do not get in eyes; on skin or clothing do not breathe dust. Cover up open wounds contain live bacteria.

#### SECTION X – DOT INFORMATION AND DATE

**DOT Classification and Label:** Not required by DOT



## SAFETY DATA SHEET Humic Acid 70

### 1. Identification

Product name  
Product code  
Chemical Description

Humic Acid 70  
FMHUM  
Granular Humic and fulvic acid derived from Leonardite

Recommended use  
Manufacturer & Distributor information  
Corporate Office

Agriculture  
  
Plant Food Company, Inc.  
38 Hightstown-Cranbury Station Road  
Cranbury, NJ 08512 United States  
Information: 1-609-448-0935  
[www.plantfoodco.com](http://www.plantfoodco.com)  
[prc@plantfoodco.com](mailto:prc@plantfoodco.com)  
SDS-Regulatory Department

Telephone  
Website  
E-mail  
Contact person

Emergency phone number

1-800-424-9300 CCN725928

Call CHEMTREC Day or Night Within USA and Canada  
Other Countries

or +1 703-527-3887 (collect calls accepted)  
1-609-448-0935

### 2. Hazard(s) Identification

Physical hazards  
Health hazards

Not classified.  
Acute toxicity, oral  
Serious eye damage/eye irritation  
Specific target organ toxicity, single exposure

Category 4  
Category 2A  
Category 3 respiratory tract  
irritation

Environmental hazards  
OSHA defined hazards  
Label elements

Hazardous to the aquatic environment, acute hazard  
Not classified.

Category 2



#### Warning

Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation.

Use only outdoors or in a well-ventilated area. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye/face protection.

If swallowed: Call a poison center/doctor if you feel unwell. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Rinse mouth. If eye irritation persists: Get medical advice/attention.

None known.

Signal word  
Hazard statement  
Precautionary statement  
Prevention

Response

Hazard(s) not otherwise classified (HNOC)

### 3. Composition/Information on ingredients

Mixture  
Chemical Name  
Leonardite

<u>Synonym Common Name</u>	<u>CAS Number</u>
Humic Acid	1415-93-6

<u>EINECS No.</u>
215-809-6



## SAFETY DATA SHEET

## Humic Acid 70

### 4. First-aid measures

#### Inhalation

Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has ceased, clear airway and start CPR. Obtain medical attention.

#### Skin contact

Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Continue rinsing. Obtain medical attention if irritation occurs.

#### Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Continue rinsing. Remove contact lenses, if present and easy to do. If eye irritation persists: Get medical advice/attention.

#### Ingestion

Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. If victim is conscious, give two to four glasses of water and induce vomiting by touching finger to back of throat. Obtain medical attention.

#### Most important symptoms/effects, acute and delayed

Irritation of eyes and mucous membranes.

#### Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. In case of shortness of breath, give oxygen. Keep victim under observation. Symptoms may be delayed.

#### General information

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### 5. Fire-fighting measures

#### Flammable Properties:

NFPA: Health - 0 Flammability - 0 Reactivity - 0

#### Suitable extinguishing media

Not flammable, use media suitable for combustibles involved in fire.

#### Unsuitable extinguishing media

Not applicable.

#### Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed. Heating (flames) of closed or sealed containers may cause violent rupture of container due to thermal expansion of compressed gases. Heating causes release of ammonia vapors. Vapors are irritating to eyes, skin and respiratory tract. Heating to dryness may cause the release of ammonia, ammonium sulfate, sulfur and oxides of sulfur (respiratory hazard).

#### Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from fire area if you can do so without risk. Keep containers/storage vessels in fire area cooled with water spray.

#### Fire-fighting equipment/instructions

#### Specific methods

Move container from fire area if it can be done without risk.

#### General fire hazards

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Keep people away from any upwind of spill/leak. Keep out of low areas. Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

#### Environmental precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

#### Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk.

Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS.

### 7. Handling and storage

#### Precautions for safe handling

Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Observe good industrial hygiene practices. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

#### Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

#### Occupational exposure limits

No exposure limits noted for ingredient(s).

#### Biological limit values

No biological exposure limits noted for ingredient(s).

#### Appropriate engineering controls

Provide eyewash station.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Wear eye/face protection. Wear safety glasses with side shields (or goggles).

##### Skin protection

For prolonged or repeated skin contact use suitable protective gloves.

##### Hand protection

Wear suitable protective clothing. Wash contaminated clothing prior to reuse.

##### Other

In case of insufficient ventilation, wear suitable respiratory equipment.

##### Respiratory protection

Wear appropriate thermal protective clothing, when necessary.

##### Thermal hazards

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

##### General hygiene considerations



## SAFETY DATA SHEET

## Humic Acid 70

### 12. Ecological Information

#### Ecotoxicity

Data not available.

#### Persistence and degradability

No data is available on the degradability of this product.

#### Bioaccumulative potential

This product is not bioaccumulative.

#### Mobility in soil

Not determined

#### Other adverse effects

Not determined

### 13. Disposal considerations

#### Disposal Instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

#### Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal Instructions).

#### Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### 14. Transport Information

#### DOT

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

### 15. Regulatory Information

#### US federal regulations

This product meets the criteria of the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### TSCA Section 12(b) Export Notification

(40) Not regulated.

#### CFR 707, Subpt. D)

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

#### SARA 304 Emergency release notification

Not regulated.

#### Hazard categories

Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

Not listed.

#### SARA 302 Extremely hazardous substance

#### Other federal regulations

(29) Not listed.

#### OSHA Specifically Regulated Substances

#### CFR 1910.1001-1050)

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants

Not regulated.

#### (HAPs) List

#### Clean Air Act (CAA) Section 112(r) Accidental Release

Not regulated.

#### Prevention (40 CFR 68.130)

#### Safe Drinking Water Act (SDWA)

Not regulated.

### 16. Other Information, including date of preparation or last revision

#### Issue date

6/1/2015

#### Revision date

#### Version #

1

#### Disclaimer

While the information contained herein is presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or information set forth, or that the products, or information may be used without infringing the intellectual property rights of others. In no case shall the information provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the information furnished by our company hereunder is given gratis and we assume no obligation or liability for the information given or results obtained, all such being given and accepted at your risk.

Composition / Information on Ingredients: Ingredients

Physical & Chemical Properties: Multiple Properties

#### Revision Information



## MATERIAL SAFETY DATA SHEET

### ASL™ Technical Ingredients *Ascophyllum nodosum* Soluble Seaweed Extract Powder

#### 1. PRODUCT AND COMPANY

**TRADE NAME:** ASL™ Technical Ingredients  
*Ascophyllum nodosum* Soluble Seaweed Extract Powder

**APPLICATION:** Extract from algae (*Ascophyllum nodosum*)

**Producer/Importer:** Acadian Seaplants Limited

**Address:** 30 Brown Avenue

**Postal Code & City:** Dartmouth, Nova Scotia, Canada, B3B 1X8

**Telephone:** (902) 468-2840

**Fax:** (902) 468-3474

**Contact Person:** David Hiltz

**Issued By:** Technical Department (Acadian Seaplants Limited)

#### 2. COMPOSITION OF PRODUCT

No.	Ingredients Name	CAS-NO	Cons. (weight%)	Classification
1	Extract from algae	n/a	100%	IK

Legend: T<sup>+</sup> = Very Toxic, T = Toxic, C = Corrosive, Xn = Harmful, Xi = Irritant,  
IK = No Classification Required, E = Explosive, O = Oxidizing, F<sup>+</sup> = Extremely  
Flammable, F = Very Flammable, Fo = Flammable, N = Dangerous to Environment,  
Mu = Genotoxic, Sens = Sensitizing, Carc = Carcinogen,  
Repr = Causes Birth Defects

#### 3. HAZARD IDENTIFICATION

This product does not require labeling.

**4. FIRST AID****GENERAL**

Non-hazardous material. If irritation or discomfort occurs, seek medical advice from a physician.

**EYE CONTACT**

Non-irritating to ocular tissue. Immediately flush eyes with plenty of water. Keep eyes wide open while flushing. Seek medical attention if irritation occurs.

**SKIN CONTACT**

Non-irritating to skin. Wash with mild soap and water. Seek medical attention if discomfort occurs.

**INHALATION**

Non-toxic. Do not intentionally breathe vapors.

**INGESTION**

Non-toxic if ingested. Drink plenty of water or milk. Seek medical attention if discomfort occurs.

**OVER EXPOSURE**

Not applicable.

**5. FIRE FIGHTING MEASURES****FLASH POINT**

Not applicable.

**FLAMMABLE LIMITS**

Not applicable.

**PROPER FIREFIGHTING EQUIPMENT**

Use extinguishing media appropriate for surrounding fire. Caution: Slippery in liquid form or when mixed with water.

**FIRE AND EXPLOSION HAZARDS**

Non-flammable. Non-explosive.

**6. UNINTENTIONAL LIBERATION OR RELEASE MEASURES****SAFETY MEASUREMENTS TO PROTECT PERSONS**

Gloves and eye protection should be worn when handling due to temporary staining.

**PROPER METHODS FOR DAMAGE LIMITATION AND CLEANUP**

Spills may be easily cleaned by removing as much solid as possible and washing remaining spill with copious amounts of water. Avoid loose product on floor in damp areas as product may become slippery with the addition of clean-up water. Gloves and eye protection should be worn due to temporary staining.

**7. HANDLING AND STORAGE****HANDLING ADVICE**

Avoid handling which may cause staining. Use personal protective equipment as specified in section 8.

**STORAGE**

Store in cool place and out of direct sunlight. Do not contaminate water, food or feed by storage or disposal.

**8. EXPOSURE CONTROL AND PERSONAL PROTECTION****EXPOSURE CONTROL**

No specific ventilation requirements. Eyewash facilities should be available.

**RESPIRATION PROTECTION**

No respirator is required.

**EYE PROTECTION**

Eye protection should be worn when handling due to temporary staining.

**HAND PROTECTION**

Gloves should be worn when handling due to temporary staining.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	Powder	Air Reactive	n/a
Color	Black	Percent Volatile (by Volume)	n/a
Odor	Marine-like	Bulk Density	0.65 g/cm <sup>3</sup>
Solubility	100% Water Soluble	Solubility in Water	100% at 20°C
Melting Point/Range	Not Determined	Saturation Conc.	Not Determined
Expl. Limit LEL-UEL, %-%	n/a	Rel. Density Sat. Air (Air=1)	Not Determined
Vapor Pressure	Not Determined	Boiling Point/Range	Not Determined
Decomposition Temp.	Not Determined	pH Concentrate	10
pH Value	10 - 10.5	Viscosity	n/a
Flash Point	n/a	Smelling Limits lo-hi	Not Determined
Molecular Weight	Not Determined	Rel. Evap. Velocity	Not Determined
Ignition Temp.	550°C	Water Reactive	n/a
Rel. Vapor Density (air=1)	Not Determined		

**10. STABILITY AND REACTIVITY****STABILITY**

Product is stable.

**CONDITIONS TO AVOID**

Excessive heat or freezing.

**MATERIALS TO AVOID**

Oxidants and acids may cause degradation.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Not applicable.

**HAZARDOUS POLYMERIZATION**

Will not occur.

**11. TOXICOLOGICAL INFORMATION****ACUTE ORAL TOXICITY**

Non-toxic orally. Ingestion of significant amounts may cause nausea and discomfort.

**ACUTE OCULAR TOXICITY**

Non-irritating to the ocular tissue of non-irrigated eyes.

**ACUTE DERMAL TOXICITY**

Not toxic dermally. No treatment-related effects were observed.

**ACUTE DERMAL IRRITATION**

No irritation or corrosive effects were observed.

**INHALATION TOXICITY**

Not hazardous by inhalation.

**SKIN SENSITIZATION**

Very slight erythema observed with no other signs of irritation.

**12. ECOLOGICAL INFORMATION****BREAKDOWN**

Biodegradable. Product presents minimal environmental impact.

**ECOTOXICITY**

Plant nutritional supplement and growth stimulant, high concentrations may cause burn of plants. Non toxic to marine algae, vertebrates or invertebrates.

**13. DISPOSAL CONSIDERATIONS**

Not classified as hazardous waste. Product must be disposed of according to Federal, State or local procedures.

**14. TRANSPORT INFORMATION****GENERAL**

Non-hazardous material according to transport regulations. No special precautions are necessary.

**15. REGULATORY INFORMATION****COMPOSITION**

Extract from algae (*Ascophyllum nodosum*)

**R-PHRASES**

The product does not require labeling. Marking according to hazardous product regulations is not required.

**REFERENCES**

The MSDS is prepared on basis of information given by the manufacturer.

**16. OTHER INFORMATION**

**ISSUED: February 2009**

**VENDOR NOTES**

Every endeavor has been made to ensure that the information contained in this MSDS leaflet is reliable, but we cannot accept liability for any loss, injury or damage, which may result from its use or misuse. Data given in this MSDS is solely for the guidance in safe handling and use of the product by customers; they do not form part of any specification. If any difficulties arise, we shall be glad to discuss them. Customers are encouraged to conduct their own tests following discussion with our technical department. The above information is based on experience, but it is always advisable for customers to satisfy themselves, by consultation with our technical department and small-scale testing is necessary, that product, which they have selected, is suitable for their purpose under their conditions of use.

## MATERIAL SAFETY DATA SHEET

### SECTION 1 – IDENTIFICATION OF PRODUCT

<b>Manufacturers Name</b> Dr. Earth Company P.O. Box 460 Winters, CA 95694	<b>Emergency Phone Number</b> (707) 448-4676 <b>Fax:</b> (707) 448-4760
---	---

**Trade Name & Synonyms**  
 Dr. Earth® Bat Guano 10-3-1

<b>Chemical Name &amp; Synonyms</b> Fertilizing Compounds	<b>Chemical Family</b> Organic Solid
--	---

### SECTION II – HAZARDOUS INGREDIENTS OF MIXTURES

Component	%
Total Nitrogen (N)	10.0
10.0 % Water insoluble organic nitrogen	
Available Phosphoric acid (P205)	3.0
Soluble Potash (K20)	1.0
Calcium (Ca)	—
Magnesium (Mg)	—
Sulfur (S)	—
Inert Ingredients	86.0

### SECTION III – PHYSICAL DATA

<b>Appearance &amp; Odor:</b> Dry granular, powdery, dark brown to light brown in color.		
<b>Boiling Point (Degrees Fahrenheit)</b> N/A	<b>Specific (Water = 1)</b> N/A	<b>Bulk Density</b> N/A
<b>Vapor Pressure (MM of Mercury)</b> N/A	<b>Percent Volatile (By Volume)</b> N/A	
<b>Vapor Density (Air = 1)</b> N/A	<b>Evaporation Rate (Butyl acetate = 1)</b> N/A	
<b>Solubility in Water</b> Approx. 50% by Weight		

### SECTION IV – FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Specify Method/Degrees F)</b> N/A	<b>Flammable Limits</b> % by Volume	<b>Lower</b> N/A	<b>Upper</b> N/A
<b>Fire Extinguishing Media:</b> Use that which is appropriate for the surrounding fire.			
<b>Special Fire Fighting Procedures:</b> Wear bunker gear & a self-contained breathing apparatus.			

#### SECTION V – HEALTH HAZARD DATA

<b>Effects of Overexposure:</b> May irritate sensitive individuals if on skin for prolonged period of time.
<b>Emergency and First Aid Procedures:</b> <i>If Swallowed:</i> Induce vomiting, get medical attention. <i>If on Skin:</i> Flush with soap and water, remove and launder contaminated clothing. <i>If in Eyes:</i> Flush with plenty of water for at least 15 minutes. <i>If Inhaled:</i> Remove to fresh air.

#### SECTION VI – REACTIVITY DATA

Stability	Unstable	Conditions to Avoid N/A
	Stable X	
Incompatibility (Materials to Avoid): None Known		
Hazardous Decomposition Products: None Known		
Hazardous Polymerization	May Occur	Conditions to Avoid N/A
	Will not Occur X	

#### SECTION VII – SPILL OR LEAK PROCEDURES

<b>Steps to be taken in case material is released or spilled:</b> Sweep or scoop residue and remove. Mix with surrounding soil if possible; Recycle if possible.
<b>Waste Disposal Method:</b> Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

#### SECTION VIII – SPECIAL PROTECTION INFORMATION

<b>Respiratory Protection (Specify type):</b> N/A	<b>Mechanical (General):</b> N/A
<b>Ventilation:</b> Use with adequate ventilation.	<b>Local Exhaust:</b> N/A
<b>Protection Gloves:</b> N/A	<b>Eye Protection:</b> N/A
<b>Other Protective Equipment:</b> Change cloths daily; bathe daily, wash cloths separately before reuse.	

#### SECTION IX – SPECIAL PRECAUTIONS

<b>Precautions to be taken in handling and storing:</b> Store in the original container, preferably in a locked storage area. KEEP OUT OF REACH OF CHILDREN!
<b>Other precautions:</b> Wash thoroughly after handling. Do not get in eyes; on skin or clothing do not breathe dust. Cover up open wounds contain live bacteria.

#### SECTION X – DOT INFORMATION AND DATE

**DOT Classification and Label:** Not required by DOT

# MATERIAL SAFETY DATA SHEET

# Blackstrap Molasses

## SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**1.1 Product Name:** Blackstrap Molasses

**Common Name:** Molasses

**Chemical Description:** Inverted syrup from the juice of sugar cane

**1.2 Manufactured For:** Plant Food Company, Inc.  
38 Hightstown-Cranbury Station Road  
Cranbury, NJ 08512

**Emergency Telephone Number** 609-448-0935  
**Telephone Number for Information** 609-448-0935  
**Date Prepared** 11/1/2011

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous Components (Specific Chemical)

Identity: Common Name	(CAS #)	OSHA PEL	ACGIH TLV	Other Limits Recommended
This product is a mixture--no specific CAS number	#REF!	N/A	N/A	N/A

## SECTION 3: HAZARDS IDENTIFICATION

Black/brown liquid with typical odor.

NEPA: Health:0 Reactivity:0 Flammability:1 Environment:0 (0=Insignificant=1 Slight 2=Moderate 3=High 4=Extreme)

### EMERGENCY OVERVIEW

This material is not a 'health hazard' or a 'physical hazard' as determined when reviewed according to the requirements of the Occupational Safety and Health Administration Hazard Communication Standard, 20 CFR 1910.1200

## SECTION 4: FIRST AID MEASURES

**4.1 EYES:** Flush immediately with plenty of water for at least 15 minutes while holding eyelids apart to ensure complete irrigation of all eye and lid tissue. If irritation occurs, seek medical attention.

**4.2 SKIN:** Wash with plenty of soap and water. Remove contaminated clothing and shoes. Get medical attention if irritation persists.

**4.3 INGESTION:** If conscious and alert, administer water or milk to dilute, then induce vomiting. Call Poison Control Center or physician immediately. Do not give anything by mouth to an unconscious person.

**4.4 INHALATION:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth and get medical attention.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 FLAMMABLE PROPERTIES

FLASHPOINT: Not flammable METHOD USED: Closed Cup/NONCOMBUSTIBLE

**5.2 FLAMMABLE LIMITS:** LFL: NA UFL: NA

**5.3 EXTINGUISHING MEDIA:** Foam, carbon dioxide, dry chemical, or water fog.

**5.4 FIRE & EXPLOSIVE HAZARDS:** Not Combustible

**5.5 FIRE FIGHTING EQUIPMENT:** As in any fire, wear self-contained breathing apparatus, pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Avoid smoke inhalation. Contain any liquid runoff.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1 SMALL RELEASES:** Confine and absorb small releases on sand earth or other inert absorbent. Use water spray to dilute.

**6.2 LARGE RELEASES:** Shut off release if safe to do so. Dike spill area to prevent runoff into sewers, rains or surface waterways. Recover as much of the solution as possible. Treat remaining material as a small release (above).

## SECTION 7: HANDLING AND STORAGE

**7.1 HANDLING:** Avoid contact with eyes. Use only in a well ventilated area. Wash thoroughly after handling. Avoid prolonged or repeated breathing of vapors. Avoid prolonged or repeated contact with the skin.

**7.2 STORAGE:** Store in original container only in a cool, well-ventilated, dry place at temperatures between 40° and 95°F. Do not store near food or feeds.

**7.3 TRANSFER EQUIPMENT:** Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.

## SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

**8.1 RESPIRATORY PROTECTION:** Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/moist respirator (such as 3M#8710). Ventilation: Where air contaminants can exceed acceptable criteria, use NIOSH/MSHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminant.

**8.2 SKIN PROTECTION:** Neoprene rubber gloves and apron should be worn to prevent repeated or prolonged contact with the liquid. Wash contaminated clothing prior to reuse.

**8.3 EYE PROTECTION:** Chemical goggles and a full face shield. DO NOT WEAR CONTACT LENSES.

8.4 EXPOSURE GUIDELINES:	TWA	STEL
OSHA	N/A	N/A
ACGIH	N/A	N/A

**8.5 ENGINEERING CONTROLS:** Use adequate exhaust ventilation to prevent inhalation of product vapors.

**MATERIAL SAFETY DATA SHEET****Blackstrap Molasses****SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1 APPEARANCE:	Black/brown, clear viscous liquid
9.2 ODOR:	Fruity sweet
9.3 VAPOR PRESSURE:	None
9.4 VAPOR DENSITY:	Not available
9.5 SOLUBILITY IN WATER:	Highly soluble
9.6 SPECIFIC GRAVITY (H <sub>2</sub> O = 1):	1.4
9.7 MELTING POINT:	N/A
9.8 pH:	5.1
9.9 VOLATILE:	Not available
9.10 COLOR:	Black/brown, clear viscous liquid
9.11 WEIGHT PER GALLON:	11.7 lbs (5.3 kg)
9.12 STORAGE LIFE AT 70° F:	> 1 Year
9.13 PH-21C:	N/A
9.15 VISCOSITY:	Not available
9.16 FREEZING POINT:	< 32° F
9.17 EVAPORATION RATE:	Not determined
9.18 BOILING POINT:	224°F

**SECTION 10: STABILITY AND REACTIVITY**

10.1 STABILITY: Stable

10.2 HAZARDOUS POLYMERIZATION: Will not occur.

10.3 HAZARDOUS DECOMPOSITION PRODUCTS: None Known

10.4 INCOMPATIBILITY: None. Avoid heat over 140°F. Keep container vented to allow release of CO<sub>2</sub> produced by natural yeast in product

**SECTION 11: TOXICOLOGICAL INFORMATION**

11.1 ORAL: May cause stomach cramps and/or nausea.

11.2 DERMAL: May cause slight irritation, especially from prolonged exposure. May cause redness.

11.3 INHALATION: None expected but inhalation may cause mild irritation of nasal mucous membranes.

11.4 CHRONIC/CARCINOGENICITY: Data not available

11.5 TERATOLOGY: Data not available

11.6 REPRODUCTION: Data not available

11.7 MUTAGENICITY: Data not available

11.8 EYES: May cause temporary eye irritation.

**SECTION 12: ECOLOGICAL INFORMATION**

12.1 Alga/Lemna Growth Inhibition: Not known.

12.2 Toxicity to Fish and Invertebrates: Not known

12.3 Toxicity to Plants: Not known

12.4 Toxicity in Birds: Not known

**SECTION 13: DISPOSAL CONSIDERATIONS**

Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents in accordance with state and local waste disposal regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal.

**SECTION 14: TRANSPORTATION INFORMATION**

D.O.T. Not D.O.T. Regulated

Other Shipping Description: Fertilizing Compounds (Manufactured), Liquid, NMFC Item 6810 Sub 6, LTL Class 70

**SECTION 15: REGULATORY INFORMATION**

15.1 CERCLA: None

15.2 SARA TITLE III, Section 313 Toxic Chemicals: None

**SECTION 16: OTHER INFORMATION**

This information was developed from information on the constituent materials. No warranty is expressed or implied regarding the completeness or continuing accuracy of the information contained herein, and Plant Food Company, Inc. disclaims all liability for reliance thereon. The user should satisfy himself that he has all current data relevant to his particular use.



## **AZOMITE® Material Safety Data Sheet**

### **Section I – Manufacturer**

AZOMITE Mineral Products, Inc.  
27 South Main  
Nephi, Utah 84648  
Phone: 435-623-8007  
Fax: 435-623-8009  
Toll Free: 877-296-6483  
USA E-Mail: [info@azomite.com](mailto:info@azomite.com)

### **Section II – Composition/Information on Ingredients**

Chemical name: Hydrated Sodium Calcium Aluminosilicate CAS No. 1344-01-0  
Hazardous Ingredients: None known  
Formula:  $\text{NaK}_2\text{Ca}_5\text{Al}_3\text{Si}_{21}\text{O}_{70}\text{H}_2\text{O}$   
Other elements are present as minor minerals in this natural product

### **Section III – Hazards Identification**

Potential Health Effects: Avoid inhalation of dust. May cause eye or skin irritation.

### **Section IV – First Aid Measures**

Skin Contact: Cover bare skin – dusty product.  
Eye Contact: Wear eye protection – dusty product.  
Inhalation: Wear respiratory protection – dusty product.  
Ingestion: Tested as feed additive up to 3% with no harmful results. Information beyond that is not available and human ingestion is not advised.

### **Section V – Fire Fighting Measures**

Flammable: No Means of Extinction: Not applicable Flash Points: Not applicable  
Flammable Limits: Not applicable Auto-ignition Temperature: Not applicable  
Explosion Data: Not available

### **Section VI – Accidental Release Measures**

In case of spill, sweep or scoop up material. Dispose in a container for non-hazardous materials.

### **Section VII – Handling and Storage**

Handling Procedures and Equipment: Dusty product; cover bare skin and wear eye and respiratory protection.  
Storage Requirements: Store in a clean, dry place.

### **Section VIII – Exposure Control/Personal Protection**

Exposure Limits: Not available Specific Engineering Controls: None  
Personal Protection: Eye protection, gloves, dust mask.

Section IX – Physical and Chemical Properties

Physical State: Solid Odor and Appearance: Odorless, tan to pink Odor Threshold: Not available Specific Gravity: 0.75 (Water=1) Vapor Density: Not available Vapor Pressure (mm Hg): 0 Evaporation Rate: Not applicable Boiling Point: Not available Freezing Point: Not applicable  
pH: 8.0 Coefficient of Water/Oil Dist: Not available Solubility in water: <1%

Section X – Stability and Reactivity

Stability: Unstable in acid Incompatibility with other substances: Avoid exposure to acid  
Remarks on Reactivity: Not available Hazardous Polymerization: Will not occur

Section XI – Toxicological Information

Effects of chronic exposure: Repeated inhalation of excessive concentration of any dust, including this material, may lead to lung injury.  
Threshold Limit Value: Mineral particles are classified as nuisance dusts by the American Conference of Governmental Industrial Hygienists (ACGIH) in their 1983-1984 TLV List. This material contains some free Silica (Fine silt and sand). Use ACGIH Publication to determine appropriate TLV.

Section XII – Ecological Information

Not applicable.

Section XIII – Disposal Considerations

Dispose in container for non-hazardous materials.

Section XIV – Transport Information

DOT Classification: Not a DOT controlled material (United States).  
Non-hazardous for air, sea and road freight.

Section XV – Regulatory Information

None available.

Section XVI – Other Information

Manufacturer Disclaimer: The information contained herein is, to the best of the Manufacturer's knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and the Manufacturer shall not be liable for any loss or damage arising out of the use thereof. The Manufacturer shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

# Material Safety Data Sheet



Date Reviewed and Issued: August 18, 2011

MSDS# #3100

## Section 1. Identification: Retail Organic Mixes

### Product Names:

- Black Gold All Organic
- Black Gold Natural & Organic Plus Fertilizer
- Black Gold Coco Blend
- Black Gold Waterhold Cocoblend
- Nature's All Organic Mix
- Nature's Natural & Organic Mix
- Lakeland All Organic Potting Soil
- Lakeland Natural and Organic Potting soil
- Sunshine Organic Gardening Mix
- Sunshine Natural & Organic Gardening Mix
- Sunshine Organic Planting Mix
- Sunshine Natural & Organic Planting Mix

### Manufacturer/Supplier:

Sun Gro Horticulture Canada Ltd.  
P.O. Box 189  
Seba Beach, AB T0E 2B0

### For more information call:

Western Region 1-888-797-7328  
Central Region 1-888-982-4500  
Eastern Region 1-888-896-1222  
Southeast Region 1-800-683-7700

For more information: [www.sungro.com](http://www.sungro.com)

### Distributed in the USA by:

Sun Gro Horticulture Distribution, Inc.  
15831 NE 8<sup>th</sup> St., Suite 100  
Bellevue, WA 98008

Product Uses: Horticulture

## Section 2. Hazardous Ingredient & Composition

		OSHA PEL		ACGIH TLV	
Component	CAS#	Total	Respirable	Total	Respirable
Nuisance dust	Not Applicable	15 mg/m3	5 mg/m3	10 mg/m3	3 mg/m3

**Comments:** This product is not considered to be hazardous in accordance with the OSHA Hazard Communication Standard 29 CFR 1910.1200, Health Hazard. The product is classified by ACGIH as a "Nuisance Dust" or "Particulates Not Otherwise Classified" (PNOC). See product label for ingredients and product specific information.

---

### Section 3. Physical/Chemical Characteristics

<b>Physical State:</b> Solid	<b>Boiling Point:</b> Not applicable
<b>Appearance:</b> Granular, soil-like	<b>Vapor Pressure:</b> Not applicable
<b>Color:</b> Brown, earthy color	<b>Solubility in Water:</b> Not applicable
<b>Odor:</b> Earthy	<b>Melting point:</b> Not applicable
<b>pH:</b> 3.5 to 7.5	<b>Evaporation rate:</b> Not applicable
<b>Density:</b> 400-800 g/l or 25-50 lb/cubic foot	<b>Specific gravity:</b> Not applicable

---

### Section 4. Fire and Explosion Hazard Data

<b>Flash Point:</b>	Not Applicable
<b>Flammable Limits:</b>	Not Applicable
<b>Extinguishing Media:</b>	Water, fog or spray
<b>Special Fire Fighting Procedures:</b>	None. Caution, burning may continue inside bags or piles after surface fire is out. Break bags or separate pile to assure that the fire is extinguished. The thermal decomposition products are those commonly observed with natural products such as wood or other vegetative matter.
<b>Unusual Fire and Explosion Hazards:</b>	None

---

### Section 5. Stability and Reactivity

<b>Stability:</b>	Stable
<b>Conditions to Avoid:</b>	See label. Keep away from heat, sparks and open flames.
<b>Incompatibility:</b>	None known
<b>Hazardous Decomposition or Byproducts:</b>	High temperatures or fire may produce irritating gases and vapors.
<b>Polymerization:</b>	Will not occur
<b>Incompatible Materials:</b>	None known

---

---

## Section 6. Health Hazard Data

<b>Routes of Entry:</b>	Inhalation, open wounds and eyes
<b>Health Hazards:</b>	Nuisance dust. See product label for ingredients
<b>Carcinogenicity:</b>	None known
<b>Effects of Exposure:</b>	Inhalation over long periods of high amounts of any nuisance dust may overload lung clearance mechanism, irritate mucous membranes and make lungs more vulnerable to respiratory disease.
<b>Emergency and First Aid Procedures:</b>	If inhaled, provide fresh air. If eye irritation occurs, flush with water. Keep open wounds covered and clean as suggested by any good program of hygiene.
<b>Other Concerns:</b>	Keep out of reach of children and pets.

---

## Section 7. Toxicological Information

**General Comments:** Inhalation of dust may irritate nose, throat and lungs. Eye contact with solids may produce irritation, tearing or blinking as a foreign body in the eye.

---

## Section 8. Precautions for Safe Handling and Use

<b>Steps to be taken in case material is spilled:</b>	Use methods to clean spill which avoid creating airborne dust.
<b>Waste Disposal Method:</b>	According to EPA 40 CFR 261.3, waste of this product is not defined as hazardous. Dispose of all waste in accordance with federal, state and local regulations.
<b>Precautions to be taken in handling and storage:</b>	If excessive dust is created avoid breathing dust by using adequate ventilation and/or using NIOSH or MSHA approved respirator for nuisance dust of this type. Breathing dust may be harmful to your health.
<b>Other Precautions:</b>	Protective eyewear should be worn where dust levels are high enough to cause irritation.
<b>Ecological Information:</b>	Keep out of lakes, streams or ponds.

---

Earth Juice®  
Rainbow Mix Bloom™ Original Blend

HYDRO-ORGANICS WHOLESALE, INC.  
MATERIAL DATA SAFETY SHEET

REVISED 03/05/13

SECTION I: GENERAL INFORMATION

PRODUCT NUMBER: J50001-J50101  
PRODUCT NAME: RAINBOW MIX BLOOM™ (WITH MYCORRHIZAE/HUMIC ACID) ORIGINAL BLEND, Earth Juice®  
PRODUCT CLASS: PLANT NUTRIENT  
CHEMICAL NAME AND SYNONYMS: ORGANIC GRANULAR/POWDER NPK FERTILIZER  
PRECAUTIONS: Avoid contact with eyes and clothing. Avoid inhaling dust.

SECTION II: HAZARDOUS INGREDIENTS

Not Applicable

SECTION III: PHYSICAL/CHEMICAL DATA

BOILING POINT: N/A  
% VOLATILE BY WEIGHT: N/A  
VAPOR DENSITY: Not Determined  
VAPOR PRESSURE (MM HG): Not Determined  
SOLUBILITY IN WATER: Insoluble  
SPECIFIC GRAVITY (H2O-1): Not Determined  
pH: 5 - 7  
APPEARANCE AND ODOR: Light brown powder, slightly organic smell

SECTION IV: FIRE AND EXPLASION DATA

FLASH POINT: N/A  
EXPLOSIVE LIMITS: Not determined  
EXTINGUISHING MEDIA: Dry Chemical, Carbon Dioxide, Foam, Water Class BC, ABC Fire Extinguisher  
UNUSUAL FIRE EXPLOSION HAZARDS: None

SECTION V: REACTIVITY DATA

STABILITY: Stable  
HAZARDOUS POLYMERIZATION: Will not occur  
HAZARDOUS DECOMPOSITION PRODUCTS: None  
INCOMPATIBILITY: unknown

SECTION VI: HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE/ EMERGENCY AND FIRST AID PROCEDURES:

EYES: Avoid contact with eyes. Flush eyes with water.  
SKIN: Wash off skin with water  
INHALATION: If dust causes irritation or distress, move to fresh air.  
INGESTION: If swallowed, consult a physician immediately.  
RESPIRATORY PROTECTION: For those that are sensitive to dust, wear a mask or respirator.

SECTION VII: SPILL, LEAK, AND DISPOSAL PROCEDURES

Contain spills. Product is non toxic

SECTION VIII: SPECIAL PRECAUTIONS

Store in a dry location.  
Wash thoroughly after handling. If ingested, call a physician.  
Dusty.  
DO NOT USE AS FEED FOR RUMINANTS.

\*\*\*\*\*  
NEITHER THIS DATA SHEET NOR ANY STATEMENT CONTAINED HEREIN GRANTS OR EXTENDS ANY LICENSE, EXPRESSED OR IMPLIED, IN CONNECTION WITH PATENTS ISSUED OR PENDING WHICH MAY BE THE PROPERTY OF THE MANUFACTURER OR OTHERS. THE INFORMATION IN THIS SHEET HAS BEEN ASSEMBLED BY THE MANUFACTURER BASED ON ITS OWN STUDIES AND ON THE WORK OF OTHERS. THE MANUFACTURER MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, OR ADEQUACY OF THE INFORMATION CONTAINED HEREIN. THE MANUFACTURER SHALL NOT BE LIABLE TO THE VENDEE, THE VENDEE'S EMPLOYEES, OR ANYONE FOR ANY DIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE ACCURACY, COMPLETENESS, ADEQUACY, OR FURNISHING OF SUCH INFORMATION.  
\*\*\*\*\*

<p style="text-align: center;"><b>SAFETY DATA SHEET</b> <b>The Amazing Doctor Zymes Eliminator</b></p>
--

**Section 1-Chemical Product & Company Identification**

**Trade Name:** The Amazing Doctor Zymes Eliminator

**Product Description:** A fermentation product made from a proprietary blend, Citric Acid. Contains no hazardous chemicals.

**Manufacturer's Name:** The Amazing Doctor Zymes

**Address:** 44911 North Highway 101, PMB #148, Laytonville, CA 95454

**Phone:** 707-984-6094

**Section 2-Composition/Information of Ingredients**

The Amazing Doctor Zymes Eliminator is a proprietary composition NOT CONSIDERED HAZARDOUS under the

OSHA Hazard Communication Standard CFR Title 29 1910.1200.

**Section 3-Physical and Chemical Properties**

**Vapor Pressure:** <1

**Vapor Density (air = 1)** Unknown

**Specific Gravity:** 1.000-1.010 @ 77 degrees F. (25 degrees C.)

**Solubility in water:** Infinitely Soluble

**Volatile Organic:** Negligible

**Content:**

**Appearance:** Orange/brown translucent liquid

**PH:** 3.25-4.20 @ 77 degrees F. (25 degrees C.)

**Evaporation Rate:** <1 (water = 1)

**Weight:** Approximately 8.5 lb. gallon (3.8 kg/liter)

**Odor:** Mild, slightly sweet

**Section 4-Fire Fighting Measures**

**Flammable Properties:** Non-Flammable

**Flammable Limits:** N/A

**Hazardous Combustion:** None known

**Products:**

**Extinguishing Method:** Water fog, foam, carbon dioxide, dry chemical foam

**Fire Fighting Instructions:** Wear self-contained breathing apparatus and protective clothing.

**Section 5-Hazards Identification & First Aid Measures**

**HMS Hazard Ratings**

Health-0,1,2 Fire-0 Reactivity-0 Personal Protection-See Section 8

**Routes of Entry:** Product may enter the body via eye contact, skin contact and ingestion.

**Potential Health Effects:**

**Eye:** Eye Contact with product may cause irritation. Avoid eye contact.

**Skin:** Adverse effect not known to occur. Avoid prolonged skin contact with the product.

**Ingestion:** Swallowing may cause irritation of mouth and throat. Mild diarrhea may occur if ingested.

**First Aid Measures**

**Eye Contact:** Direct contact with eyes may be painful and irritating. Flush eyes immediately with plenty of water. Seek medical attention if irritation occurs.

**Skin Contact:** Adverse effects are not known to occur. Rinse exposed areas with water.

**Ingestion:** If swallowed, give 2 glasses of water. Do not induce vomiting. If spontaneous vomiting is inevitable, PREVENT ASPIRATION by keeping victim's head below the knees. Seek immediate medical attention.

**Inhalation:** Adverse effects not known to occur. Remove to fresh air, if breathing is difficult.

**Section 6-Stability and Reactivity**

**Hazardous Polymerization:** Will not occur.

**Materials to Avoid:** Avoid contact with strong oxidizing and reducing agents.

**Hazardous Decomposition Products:** N/A

**Section 7-Accidental Release Measures**

Large Spill: Product is biodegradable and ecologically harmless. Rinse spill with water if desired.

Small Spill: Contain spill. Follow same procedure as above for large spill.

Waste Disposal Method: Flush with water; safe for sewer disposal; harmless to aquatic, plant and animal life.

**Section 8-Exposure Controls, Personal Protection**

Personal Protection:

Gloves: Always wear gloves when handling this product in bulk.

Safety Glasses: Always wear eye protection. Goggles or safety glasses with side shields are recommended when spraying.

**Section 9-Handling and Storage**

Storage Temperature: Store this product below 120 Degrees F (49 Degrees C), preferably below 75 degrees F (24 Degrees C), in a cool, dry, well ventilated area away from heat, sparks, flame, oxidizers and out of direct sunlight.

General Precautions: Keep container closed when handling and storing.

**Section 10-Other Information**

Disclaimer: The information contained herein is based upon data available to us and reflects our best professional judgment. However, no warranty is expressed or implied regarding the accuracy of such information or the results obtained from the use thereof. We assume no legal responsibility whatsoever for any damage resulting from reliance upon this information since it is being furnished upon the condition that the person receiving it shall make his or her own determination of the suitability of the material described herein for a particular application or storage situation.

The Amazing Doctor Zymes urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals that are experts in ventilation, toxicology and fire prevention, as necessary or appropriate to use and understand the data contained in this MSDS.

To promote safe handling, each customer or recipient should: (1) notify its employees, agents, contractors and others whom it knows or believes will use this material or the information in this MSDS and any other information regarding hazards or safety; (2) furnish this same information to each of its customers for the product, and (3) request its customers to notify their employees, customers and other users of this product information.

---

Revision Date 07/10/2017

**SAFETY DATA SHEET****SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** **GRANDEVO®**

**REGISTRATION NO:** 84059-17

**MANUFACTURER:** Marrone Bio Innovations

**ADDRESS:** 1540 Drew Avenue, Davis CA, 95618

**EMERGENCY PHONE:** **INFOTRAC Chemical Response System**  
**US and Canada 1-800-535-5053 (24 hours)**  
**International 1-352-323-3500 (24 hours)**

**OTHER CALLS:** Marrone Bio Innovations 530-750-2800 (9am to 5 pm PST)

**FAX PHONE:** Marrone Bio Innovations 530-750-2808

**PRODUCT USE:** Bio-based Insecticide/ bio-protectant

**SECTION 2: HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW:**

Causes eye irritation

**HAZARD SYMBOLS:**

Pictogram (NONE)

Signal Word Warning

**HAZARD STATEMENT:**

H320 Causes eye irritation

**PRECAUTIONARY STATEMENTS**

P264 Wash exposed areas thoroughly after handling.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical attention.

**POTENTIAL ROUTES OF ENTRY:** Oral, eye, and inhalation.**CARCINOGENICITY:**

OSHA: Not listed ACGIH: Not listed NTP: Not listed. IARC: Not listed

**SAFETY DATA SHEET****SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

synonyms: MBI-203 DF, GRANDEVO® ST, GRANDEVO® DF

**ACTIVE INGREDIENT:***Chromobacterium subtsugae* strain PRAA4-1 an spent fermentation media**CAS NO.** None**% WT** 30**EXPOSURE LIMITS** None Established**OTHER INGREDIENTS:**

70.0 % inert, non-reactive.

**SECTION 4: FIRST AID MEASURES**

**INHALATION:** Remove person to fresh air. If the person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment.

**EYES:** Hold eye open and rinse slowly and gently with water for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Do not use an eye ointment. Call poison control center or doctor for treatment advice.

**SKIN:** Remove contaminated clothing. Rinse skin immediately with plenty of water for at least 15-20 minutes. Call a poison control center or doctor for treatment advice.

**INGESTION:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or physician. Do not give anything by mouth to an unconscious person.

**SECTION 5: FIRE-FIGHTING MEASURES****FLAMMABLE LIMITS IN AIR, (% BY VOLUME)**

UPPER: Not applicable.

LOWER: Not applicable.

**FLASH POINT:** Not applicable.**AUTOIGNITION TEMPERATURE:** Not applicable.**NFPA HAZARD CLASSIFICATION****HEALTH:** 0**FLAMMABILITY:** 0**REACTIVITY:** 0**HMIS HAZARD CLASSIFICATION****HEALTH:** 0**FLAMMABILITY:** 0**REACTIVITY:** 0**EXTINGUISHING MEDIA:** Use extinguishing media appropriate for the surrounding fire.

**SAFETY DATA SHEET**

**SPECIAL FIRE FIGHTING PROCEDURES:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

**HAZARDOUS DECOMPOSITION PRODUCTS:** None

**SECTION 6: ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES**

Use personal protective equipment. Avoid dust formation, Avoid breathing dust, vapor, or mist. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see Section 8.

**ENVIRONMENTAL PRECAUTIONS**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP**

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

**SECTION 7: HANDLING AND STORAGE****PRECAUTIONS FOR SAFE HANDLING**

Further processing of solid materials may result in the formation of combustible dusts. Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

**CONDITIONS FOR SAFE STORAGE**

Keep container tightly closed in a dry and well-ventilated place. Store in original container and out of direct sunlight.

**OTHER PRECAUTIONS:** No special precautions.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Spill controls and dust control apparatus should be provided for working with large quantities.

**VENTILATION:** No TLV assigned. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and aerosols below the exposure levels. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**SAFETY DATA SHEET**

**RESPIRATORY PROTECTION:** Use a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95.

**EYE PROTECTION:** Safety goggles or glasses with side shields advisable when handling dry powder.

**SKIN PROTECTION:** Wear gloves made of Latex or other impervious material.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Clothing to prevent prolonged skin contact as needed such as long-sleeved shirt, long pants and shoes with socks.

**WORK HYGIENIC PRACTICES:** Wash any contamination from skin or eyes immediately. Wash hands and exposed skin before eating, drinking, smoking, after work or using the toilet.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE:	Powder
COLOR:	Dark brown powder
ODOR:	Fruity
pH:	7 to 9
DENSITY:	Not determined
BOILING POINT:	Not applicable
MELTING POINT:	Not applicable
SOLUBILITY IN WATER:	Dispersible in water
FLASH POINT:	Not determined
EVAPORATION RATE:	Not determined
FLAMMABILITY (SOLID, GAS):	Not determined
UPPER FLAMMABILITY LIMITS:	Not determined
LOWER FLAMMABILITY LIMITS:	Not determined
VAPOR PRESSURE:	Not determined
VAPOR DENSITY:	Not determined
RELATIVE DENSITY:	Not determined
SOLUBILITY IN OTHER SOLVENTS:	Not determined
PARTITION COEFFICIENT:	Not determined
AUTOIGNITION TEMPERATURE:	Not determined
DECOMPOSITION TEMPERATURE:	Not determined
KINEMATIC VISCOSITY:	Not determined
DYNAMIC VISCOSITY:	Not determined
EXPLOSIVE PROPERTIES:	Not determined
OXIDIZING PROPERTIES:	Not determined

**SECTION 10: STABILITY AND REACTIVITY**

**STABILITY:** Stable.

**INCOMPATIBILITY (MATERIAL TO AVOID):** None known

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** None known

**HAZARDOUS POLYMERIZATION:** Not known to occur

**SAFETY DATA SHEET**

CONDITIONS TO AVOID (POLYMERIZATION): None

**SECTION 11: TOXICOLOGICAL INFORMATION**

ACUTE ORAL TOXICITY LD <sub>50</sub> :	LD <sub>50</sub> >5000 mg/kg (rat). Not categorized
ACUTE DERMAL TOXICITY LD <sub>50</sub> :	LD <sub>50</sub> >5050 mg/kg (rat). Not categorized
ACUTE INHALATION LC <sub>50</sub> :	LC <sub>50</sub> >5.11 mg/L (rat). Not categorized
EYE IRRITATION:	Mild irritation; clears within 72 hours (rabbit) Category 2B
SKIN IRRITATION:	Does not produce irritation (rabbit) Not categorized.
SKIN SENSITIZATION:	Non-sensitizing (guinea pigs) Not categorized

**SECTION 12: ECOLOGICAL INFORMATION**

Toxicity to freshwater aquatic life (OECD 203): Rainbow trout (96-hour acute toxicity)  
LC<sub>50</sub> > 100 mg/L; NOEC > 100 mg/L

Acute Oral Toxicity to Honey Bee (*Apis mellifera*) (OECD 213): 48-hour LD<sub>50</sub> > 100 µg a.i./bee

Acute Contact Toxicity Honey Bee (*Apis mellifera*) (OECD 214): 48-hour LD<sub>50</sub> > 100 µg a.i./bee

Testing all beneficial insects, in all situations, mixtures and combinations, is not feasible. Prior to treating entire crop where the release of beneficial insects serve as part of an Integrated Pest Management (IPM) program, consult with an extension specialist, a pest control advisor (PCA) or with the product manufacturer.

**For terrestrial uses only:** Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate.

**Sensitive areas:** The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas). Do not allow spray to drift from the application site and contact people, structures people occupy at any time and the associated property, parks and recreation areas, non-target crops, aquatic and wetland areas, woodlands, pastures, rangelands, or animals. Do not allow product to drift to blooming crops or weeds if bees are foraging. Minimize spray drift away from the target area to reduce effects to other non-target insects

Bioconcentration potential: This material is not expected to bioconcentrate in organisms.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Do not reuse containers. Dispose of in accordance with all applicable federal, state, and local environmental regulations.

**SECTION 14: TRANSPORTATION INFORMATION**

U.S. DOT: Not regulated

**SAFETY DATA SHEET**

IATA DGR: Not regulated

IMDG: Not regulated

Freight Classification: Insecticide. See NMFTA code.

**SECTION 15: REGULATORY INFORMATION**

## Allowable Tolerances:

Residues of GRANDEVO® are exempted from the requirement of a tolerance when used in accordance with good agricultural practices and label application instructions to agricultural commodities directed on the product label.

## U.S. FEDERAL REGULATIONS

TSCA: Exempt

CERCLA: Not applicable.

## SARA TITLE III HAZARD CLASSIFICATION SECTIONS 311 AND 312:

Immediate (acute) Health: None

Delayed (chronic) Health: None

Fire: None

Sudden Release of Pressure: None

Reactivity: None

## US STATE RIGHT TO KNOW REGULATIONS:

New Jersey Right To Know Components  
Kaolin CAS No.  
1332-58-7

Pennsylvania Right To Know Components  
Kaolin CAS No.  
1332-58-7

California Proposition 65  
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**SECTION 16: OTHER INFORMATION**

## NFPA HAZARD CLASSIFICATION

HEALTH: 0 FLAMMABILITY: 0 REACTIVITY: 0

## HMIS HAZARD CLASSIFICATION

HEALTH: 0 FLAMMABILITY: 0 REACTIVITY: 0

SPECIAL HAZARDS: Not Determined

**SAFETY DATA SHEET**

Date Issued: 10 April 2019  
Revision: 5  
Revision Note: Update synonyms

DISCLAIMER: IN NO EVENT SHALL MARRONE BIO INNOVATIONS BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES. THE DATA PROVIDED IS FOR GENERAL INFORMATION ONLY AND IS NOT INTENDED AS A COMPREHENSIVE GUIDE CONCERNING HAZARDS THAT MAY BE ASSOCIATED WITH THIS PRODUCT. USER ASSUMES ALL RESPONSIBILITY FOR FOLLOWING PROPER SAFETY PROTOCOL AND CONSULTING TRAINED PERSONNEL FOR CONTROL AND CONTAINMENT.

TABLE 1: INVENTORY OF CURRENT WATER STORAGE			
STORAGE TYPE	QUANTITY	CAPACITY (GAL)	PROPOSED USE
HDPE tank	3	2,500	Fire suppression
HDPE tank	4	5,000	Irrigation
HDPE tank	6	2,500	Irrigation
HDPE tank	3	1,500	Irrigation
HDPE tank	1	2,500	Domestic
TOTAL	17	49,500	--

Evergreen Family Farm currently utilizes approximately 102,000 gallons of water per year for cannabis irrigation on APN 522-025-003. An additional (3) 5,000 gal tanks are proposed bringing the total storage capacity up to 62% of the annual cultivation needs for both APPS 11978/11980. The following table outlines the estimated water usage for the proposed cultivation during a typical year. This estimate does not consider variables such as weather conditions or specific cannabis strains which may have slight effects on overall water usage.

**Proposed Water Storage: (to be installed within the next 2 years):**

TABLE 2: PROPOSED INCREASED WATER STORAGE			
STORAGE TYPE	QUANTITY	CAPACITY (GAL)	PROPOSED USE
HDPE tank	30	5,000	Irrigation
TOTAL		150,000	--

TABLE 2: PROPOSED AGRICULTURAL WATER USE (GAL)											
Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec
0	0	0	0	0	12,000	20,000	25,000	30,000	15,000	0	0

## 2.2. SITE DRAINAGE, RUNOFF AND EROSION CONTROL

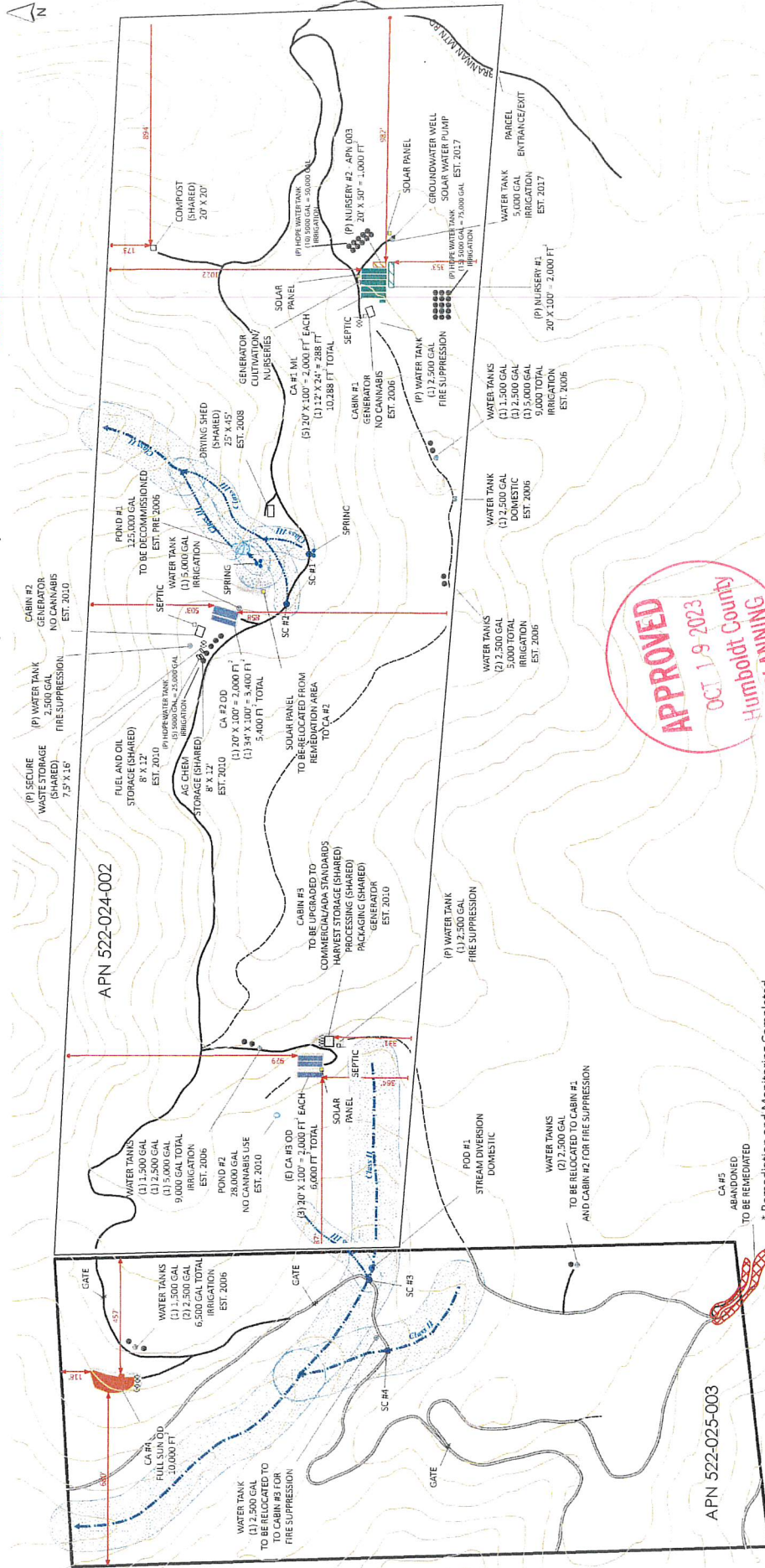
Evergreen Family Farm has developed a plan using the guidelines for best practicable treatments and controls (BPTCs) in accordance with the recommendation of SWRCB General Order. The SMP summarizes erosion and sediment control measures that have been implemented to minimize discharge to surface waters.

Evergreen Family Farm will utilize the following BPTCs to manage stormwater runoff:

1. Maintenance of roads, including rocking and armoring as needed.
2. Cultivation facilities and spoil stockpiles will meet all required setbacks from riparian areas.
3. Regulated products will be safely stored with secondary containments.

# EVERGREEN FAMILY FARM, LLC (#11980)

Received 10/5/2023 HCP&B



<p>WATER TANK</p> <p>GROUNDWATER WELL</p> <p>STREAM CROSSING</p> <p>SPRING</p> <p>SOLAR PANEL</p> <p>GENERATOR</p> <p>PARKING (9' X 18')</p>		<p>ATV/FOOT TRAIL</p> <p>PERMANENT ROAD</p> <p>EASEMENT ROAD</p> <p>WATERCOURSE</p> <p>SETBACKS</p>		<p>FULL SUN OUTDOOR CULTIVATION</p> <p>NURSERY - APN 003</p> <p>REMEDIATION AREA</p>		<p>STREAMSIDE MGMT AREA</p> <p>SITE PLAN</p> <p>EVERGREEN FAMILY FARM, LLC</p> <p>APN 522-025-003</p> <p>BRANNAN MOUNTAIN ROAD, WILLOW CREEK, CA 95525</p>		<p>CA = CULTIVATION AREA</p> <p>OD = OUTDOOR</p> <p>ML = MIXED-LIGHT</p> <p>SC = STREAM CROSSING</p> <p>POD = POINT OF DIVERSION</p>		<p>PREPARED BY CHRISTINA SUNDMAN FOR PR PROFESSIONAL SERVICES</p> <p>DECEMBER 14, 2020 V1</p> <p>SCALE 1:4,800 1 INCH = 400 FEET</p> <p>PARCEL: HUMBOLDT COUNTY GIS 2019</p> <p>0 200 400 800 Feet</p>		<p>C1</p>	
--	--	---	--	--	--	--	--	--	--	--	--	-----------	--