

Live Oak Meadows LLC

Operations Plan with Amended Cultivation Operating Procedures 2020

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APN#: 215-151-002-000
Hum. County APPS#: PLN-11903
Live Oak Meadows, LLC
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Document Prepared by HUBER C&D and applicant. All efforts have been made to accurately describe the farm, but operations may change over time. HCD makes no claims to accuracy of farm description.

April 15, 2019

Contents

PART 1: PURPOSE OF THIS COP DOCUMENT	1
PART 2: FARM REVIEW	1
2.1 LIVE OAK MEADOWS, LLC (LOM)	1
2.2 PERMITTING GOALS	1
2.3 SITE	2
2.4 CULTIVATION LEGACY AND REMEDIATION	3
2.5 ROADS	3
PART 3: ENVIRONMENT	4
3.1 SOIL AND SPOILS	4
3.2 WATER QUALITY	4
3.3 WATER SOURCES	4
3.4 WASTE WATER	6
3.5 HAZARDOUS MATERIALS	6
3.6 ANIMALS/WILDLIFE/LIVESTOCK	9
3.7 CULTURAL RESOURCES	10
3.8 LIGHT POLLUTION	10
PART 4: CULTIVATION OPERATING PROCEDURES	11
4.1 PLANTING AND HARVESTING	11
4.2 PEST MANAGEMENT	13
4.3 WASTE MANAGEMENT	14
PART 5: CURING, PROCESSING AND PACKAGING	15
5.1 CURING PROCESS	15
5.2 PROCESSING, PACKAGING & LABELING	15
PART 6: STORAGE AND TRANSPORTATION	18
6.1 STORAGE AREA	18
6.2 TRANSPORTATION OF CANNABIS	18
PART 7: TRACEABILITY, RECORDS AND SALES	19
7.1 TRACEABILITY GENERAL PROCEDURES	19
7.2 FIELD TRACEABILITY	19
7.3 COMMERCIAL TRACEABILITY	21
7.4 SALES INVOICES AND RECEIPT REQUIREMENTS	21
7.5 WEIGHING	22
7.6 RECORD RETENTION	22
PART 8: SECURITY	23
PART 9: PERSONNEL POLICY, HIRING AND TRAINING	24
9.2 PERSONNEL TRAINING	24
9.3 HEALTH AND HYGIENE POLICY	25
9.4 INJURY AND ILLNESS POLICIES	26
9.5 PERSONNEL SAFETY AND SECURITY EMPOWERMENT	27

9.6 POLICY ON TAKING BREAKS	27
APPENDIX A SITE PLAN (PLOT PLAN)	28
APPENDIX B CULTIVATION SCHEDULE.....	29
APPENDIX C WATER TESTING PROCEDURES	30
APPENDIX D CANNABIS WASTE COMPOSTING PROTOCOL.....	31
APPENDIX E PRE-EXISTING CANNABIS PRIOR TO STATE LICENSE ISSUANCE AND CLOSE OUT INVENTORY PROCEDURES.....	32
APPENDIX F LOG SHEETS, INVOICE, & SHIPPING MANIFEST	33
<i>PLANTING EVENTS LOG.....</i>	<i>1</i>
<i>HARVEST EVENTS LOG</i>	<i>2</i>
<i>HARVEST TOTE AND TOOL CLEANING LOG</i>	<i>3</i>
<i>PROCESSING LINE CLEANING LOG</i>	<i>4</i>
<i>PACKAGING EVENTS LOG.....</i>	<i>5</i>
<i>CANNABIS RELEASE LOG</i>	<i>6</i>
<i>SHIPPING MANIFEST</i>	<i>8</i>
<i>TRANSPORT VEHICLE INSPECTION CLEANING LOG.....</i>	<i>10</i>
<i>WATER SOURCE TESTING LOG.....</i>	<i>11</i>
DATE.....	11
<i>PEST MANAGEMENT LOG.....</i>	<i>12</i>
<i>FIELD SANITATION UNIT SERVICE LOG</i>	<i>13</i>
<i>FENCE PERIMETER AND FIELD INSPECTION LOG</i>	<i>14</i>
<i>EMPLOYEE TRAINING LOG</i>	<i>15</i>
<i>ILLNESS AND INJURY REPORT FORM</i>	<i>16</i>
<i>FIRST AID KIT LOG</i>	<i>17</i>
<i>RESTROOM CLEANING LOG</i>	<i>18</i>
APPENDIX G – SAFETY DATA SHEETS	19

Part 1: Purpose of this COP document

This document provides information to demonstrate compliance with laws regarding the cultivation and transfer of cannabis and non-manufactured cannabis products to other licensed cannabis businesses. In addition, this document is intended as a reference manual for farm personnel, and provides the basis for farm operations and compliance.

Part 2: Farm Review

2.1 Live Oak Meadows, LLC (LOM)

The applicant is seeking approval of a Special Permit for existing light deprivation cannabis cultivation of 8,650 square feet, and ancillary processing activities and appurtenant support infrastructure/facilities. **See Appendix A** for the LOM site plan (premises diagram).

Parcel Information: The subject parcel (215-151-002) is approximately 93 acres, zoned U-unclassified with framework designation RA20, RA40 (T). It is accessed off of Stump Lane in the Whitethorn region of Humboldt County.

Topography/Landscape: The parcel resides on the South-Eastern slopes of an elongated ridge that ranges from approximately 1,400 to 1,100 feet in elevation. The slope gradually declines eastwards to Raviscioni Creek, a tributary of the Mattole River. The majority of the parcel is covered with native tree species with the exception of four small clearings, where residential infrastructure has been built and the cultivation sites are located.

At the time of applying for a State Annual License to cultivate cannabis, LOM has no employees. Work is done by the applicant that lives on site.

2.2 Permitting Goals

Live Oak Meadows, LLC intends to obtain a Commercial Cannabis Permit for 8,650 square feet of existing outdoor cultivation for this parcel from Humboldt County, and the annual Small Mixed-Light Tier 1 License from the State of California.

All other required permits from Humboldt County Building Department and Environmental Health will be obtained for existing and proposed facilities.

2.3 Site

SITE ADDRESS:

APN#: 215-151-002-000

PARCEL CENTROID LONGITUDE AND LATITUDE:

Lat: 40.0447 Long: -123.9394

AGGREGATE SQUARE FOOTAGE OF NON-CONTIGUOUS CANOPY AREAS:

GREENHOUSE #1 16'X56' 896 SQUARE FEET

GREENHOUSE #2 12'X40' 480 SQUARE FEET

GREENHOUSE #3 16'X36' 576 SQUARE FEET

GREENHOUSE #4 22'X40' 800 SQUARE FEET

GREENHOUSE #5 8'X70' 560 SQUARE FEET

GREENHOUSE #6 20'X70' 1400 SQUARE FEET

GREENHOUSE #7 12'X60' 720 SQUARE FEET

GREENHOUSE #8 4'X60' 240 SQUARE FEET

GREENHOUSE #9 12'X60' 720 SQUARE FEET

GREENHOUSE #10 12'X60' 720 SQUARE FEET

GREENHOUSE #11 4'X60' 240 SQUARE FEET

GREENHOUSE #12 12'X60 720 SQUARE FEET

PROPOSED GREENHOUSE #14 12'X41.5' 498 SQUARE FEET

APPLICANT PROPOSES TO RELOCATE 498 SQUARE FEET OF PRE-EXISTING CULTIVATION AREA AS DEFINED BY THE CMMLUO (55.4.14.1) TO THE ENVIRONMENTALLY SUPERIOR RIDGETOP CULTIVATION AREA. THE PROPOSED GREENHOUSE IS LABELED ON THE PLOT PLAN AS PROPOSED GREENHOUSE #14. THIS WOULD BRING THE TOTAL CULTIVATION AREA TO 8,650 SQUARE FEET, CONSISTENT WITH THE CURRENT INTERIM PERMIT SQUARE FOOTAGE THAT THE APPLICANT HAS BEEN PAYING TAXES ON.

TOTAL CANOPY AREA 8,650 SQUARE FEET

IMMATURE PLANT AREAS:

EXISTING: GREENHOUSE #13: 16' X 36', 576 SQUARE FEET

PROPOSED: HOOPHOUSE #15 8'X20, 160 S.F. WITHIN THE EXISTING FENCED IMMATURE PLANT AREA.

PROPOSED: HOOPHOUSE #16, 8'X32', 256 S.F WITHIN THE EXISTING FENCED IMMATURE PLANT AREA.

THE TWO PROPOSED HOOPHOUSES ARE FOR IMMATURE PLANTS ONLY AND WOULD NOT CHANGE THE TOTAL SQUARE FOOTAGE OF THE IMMATURE PLANT AREA.

EXISTING: OPEN AIR NURSERY OF 1154 SQUARE FEET.

TOTAL IMMATURE PLANT AREA: 1730 SQUARE FEET

EXISTING CULTIVATION FACILITIES:

TOOL STORAGE:

MARINE CONTAINER (SITE MAP: C1): 5'X8', 40 SQUARE FEET, 2017

SECURED COMPOSTING AREA:

FENCED ENCLOSURE (SITE MAP: F): 12' X 12', 400 SQUARE FEET

SHED: (SITE MAP: B):12'X8', 96 SQUARE FEET, 2005

PESTICIDE STORAGE:

MARINE CONTAINER (SITE MAP: C4): 5'X8', 40 SQUARE FEET, 2017

NON- CANNABIS WASTE:

MARINE CONTAINER (SITE MAP: C2): 5'X8', 40 SQUARE FEET, 2017

FERTILIZER:

MARINE CONTAINER (SITE MAP: C3): 5'X8', 40 SQUARE FEET, 2017

MAIN FACILITY/HARVEST STORAGE AREA:

METAL BUILDING, SITE MAP (SITE MAP: D, E, H, G): 20' X 40', 800 SQUARE FEET, 2008

GENERATOR STORAGE:

MARINE CONTAINER: 20'X8', 160 SQUARE FEET, 2014

NON-CANNABIS FACILITIES:

GARAGE: 14' X 24', 336 SQUARE FEET, 2008

PRIMARY RESIDENCE: 32' X 36', 1152 SQUARE FEET, 2008

- no dripping oil, anti-freeze, or other fluid, petroleum product, or automotive lubricant
- Contamination hazards present including food, pet hair, mold, or other items that could compromise cannabis product. Inspect vehicle before loading cannabis

Part 3: Environment

3.1 Soil and Spoils

We amend and develop our own soil. We currently have no spoilage. In the event of soil contamination, the spoilage will be dealt with in the manner described in the SMP.

3.2 Water Quality

Site has a P.O.D. WATERBOARD SMALL IRRIGATION USE REGISTRATION #H502357' CERTIFICATE #100256

The Farm is a registered cultivation site per the California Regional Water Quality Control Board North Coast Region Order No. 2015-0023 Waiver of Waste Discharge Requirements and General Water Quality Certification, **WDID #1B170415CHUM**. Our Site Management Plan (SMP), discharge logs, permits, and site maps are found in the Metal Building.

LOM practices are designed to protect the water quality and the environment from adverse effects caused by overuse of water sources and/or waste discharges and to meet all applicable state and federal water and waste discharge requirements. Potential discharge locations are monitored and events are reported in our discharge log and for annual reporting as well as:

- Before and after any significant alterations to a stream crossing, roads, or other controllable sediment discharges.
- Prior to October 15 to ensure the site is ready for storm events.
- Following any rain fall event of 3 inches or more within 24hrs

3.3 Water Sources

Water serving this parcel is supplied from a Point of Diversion (3 gallons per minute) located on Raviscioni Creek. The water is pumped seasonally Jan-April. The water course pump sends the water to the top of the property where a large 93,500-gallon tank array is located (SEE PAGE 17 FOR WATER STORAGE TOTALS). Float valves have been installed in the holding tanks to promote water conservation. A Copy of the Notice of Applicability - Waste Discharge Requirements Water Quality Order WQ 2019-0001-DWQ is included in this packet.

is included within the application package.

Peak water demand: Calculated using estimates to the best of the applicant's ability. The "Monthly Water Use" table below shows estimated water use being proposed throughout the grow season. The water data was calculated using the above averaged data as well as information gleaned from the Initial Statement of Water Diversion that was filed in June 2017 at the State Water Resources Control Board.

This parcel is subject to a forbearance period of May 15 to October 31st per CDF&W 1600 Agreement. Water usage will continue to be monitored and recorded by use of inline totalizing flow meters in accordance with applicable regulations.

Monthly Water Use Table: See table 1 on next page

Domestic Water Source: Domestic water is provided by a permitted surface diversion and a well. Domestic water use is minimal and is monitored. A 3000-gallon HDPE water tank is dedicated for domestic use.

Drinking Water: Drinking water is filtered by a two-stage system. The first stage removes particles down to 5 microns. The second filter rated at .4 microns is located in the residence where bacteria, cysts, giardia, crypto, and viruses, should they be present, are removed.

Fire Suppression: There is a 3500 Gallon Poly Tank on top of the ridge that is reserved for fire suppression. There is a 1-1/2" NH fire hose thread standpipe at the uphill side of the parking area in front of the residence. The fire suppression tank and stand pipe are indicated by blue text on the plot plan.

Irrigation Methods: Irrigation is accomplished by use of drip irrigation as well as hand watering once weekly. The drip lines installed have been set on a timer the water delivery throughout the beds is monitored on a daily basis (flow meters and float valves are installed at the water bank) ensuring responsible water use. Mulch is carefully placed as a top dressing to optimize soil water retention.

Irrigation Runoff: The use of carefully administered hand watering minimizes the chance of any overwatering or residual discharge of irrigation solutions outside of the "targeted" root zone. In the unlikely event that residual discharge did occur, it would

There is no agricultural water use during the months of **November-February**

Monthly Water Tracking 2019

WDID# 1B170415CHUM

Month	Total Surface Water Diversion	Water input to Storage by Source (gallons)	Water use by Source (gallons)
January	37,310	36,750	560
February	38,980	38,280	700
March	36930	35,970	960
April			5,280
May			11,750
June			12,650
July			16,490
August			23,145
September			19,650
October			16,930
November			2,225
December			650

Timberland Resource Consultants has prepared updated Site Management Plan subject to the Waste Discharge Requirements Water Quality Order WQ 2019-0001-DWQ

We intend to test water used for irrigation, rinsing and mixing of topical sprays once per season for nitrates and total bacteria and these records would be kept on file in the water management plan. If any water test is outside our normal range, we do an observational review of the water source area to see if there are any obvious problems or situations that can be mitigated. We then take recommended actions to mitigate contamination and retest water as needed. All observational reviews are documented and any mitigation actions are documented in our Water Source Testing Log in Appendix F.

Appendix C contains best practices for water testing. Please see our SMP for additional information.

3.4 Waste Water

Cultivation related wastes are sorted such that compostable materials are recycled or composted onsite (compost pile is located on the top landing see site plan). Solid waste that is unsuitable for composting, is stored along with domestic garbage in conventional lid trash containers inside the shipping container on the flat near the ridge top cultivation area (refer to site plan) and hauled to an approved transfer station/disposal facility as needed. There are shipping containers placed at each of the cultivation sites for storage of garbage and other materials.

Human Waste: Portable toilets are located near the upper and lower work areas. The family home has a restroom and an onsite wastewater treatment system that is currently used by family members only. The OWTS consists of a 1,200-gallon cement septic tank, and a purposely oversized leech field. The OWTS is designed for a 3-bedroom residence. In the event that employees are hired, facilities will be updated to allow for equal access as defined by labor laws, as well as to ensure the OWTS is sufficient for increased use.

Hazardous materials such as: fertilizers, soil amendments, rodenticides, herbicides, fungicides, pesticides and insecticides, fuel used onsite for power generators and/or heating elements as well as cleaners and sanitizers and compressed gasses shall be stored in secure locations within the **Marine Containers listed in area C of site map**, and will be inventoried and reported to the DEH, and C.E.R.S. if they are stored in quantities above 55 gallons for liquids, 500 pounds of solids, or 200 cubic feet for gasses.

Electrical Power: Power is provided by a 4500-watt solar photovoltaic array. Solar energy is stored by a battery. A battery based inverter rated at 7200 watts converts the stored solar energy into 120 volts AC that provides power to necessary electrical loads.

Backup generator: A backup generator is used to recharge the battery during periods of extended cloudy weather. The battery is charged at the battery manufacturer's highest recommended charge rate to reduce generator run time. The backup generator is under 50 hp and is stored in a sound attenuated metal shipping container to prevent noise disturbances. The manufacturer states that the decibel reading at 23 feet is less than 65 decibels. The metal enclosure is insulated and significantly reduces this sound level. The backup generator is in a metal spill containment tray that is sized at greater than 110% of all combined fuel, and other engine fluids so as to prevent contamination to the environment, should a spill ever occur.

Projected Generator Run Time: The Generator is used for battery charging during periods of cloudy weather. The power system is sized so as not to require the generator to run more than twenty percent of the time. Generator decibel output at any property line will not exceed 60 decibels. The Generator is operated during early daylight hours or during late afternoon/evening hours.

List of farm machinery (fuel type):

Generator: 17 KW 1,800 RPM (diesel)

Mowers: (gasoline)

Chain Saws/Lawn Trimmers: (mixed oil/gasoline)

Processing machine: (45 watts, runs off solar system)

Equipment Maintenance. The larger farm equipment such as generator are serviced off site at licensed repair centers. In the event that a breakage requires servicing at the farm site, a licensed repair specialist will be called to service the equipment and will be responsible for removing any associated hazardous waste from the site. Smaller equipment such as the generator, mowers, or lawn trimmers will likely be serviced on site, and any associated hazardous waste will be stored in leak proof containers, and removed to a hazardous waste recycling facility within 30 days.

Gas and Petroleum. Petroleum products of any kind may not be stored or used within the perimeter of the farm fields. Petroleum products in small containers must be kept in the designated 5'x8' marine container. All refueling must take place away from cannabis fields to minimize the risk of petroleum contamination to the fields or cannabis. All above ground tanks shall be built in a manner that allow for containment of the tank contents in the event of a leak per safety standards. Any used oil, filters or other hazardous waste shall be stored in appropriate leak proof containers and taken to the hazardous waste facility at Eel River disposal, or the Cal Trans yard promptly.

Gas or Petroleum Spill Procedure: If gas or oil is spilled, immediate attention will be taken to stop the spill by turning off valves or plugging the source of the leak. If the

After stopping the spill, the contaminated soil will be removed from the ground and contained in a bucket, pail, or other non-permeable container. All soil that has visible oil stains or petroleum odor will be dug out and contained. The contaminated soil will be disposed of in accordance with state law.

After the cleaning process is finished, a report of the incident describing what was spilled and the amount, how the spill was cleaned, and the steps that will be taken to prevent future spills should be created. Illustrations or diagrams should be included to show the contaminated area, the excavation of the soil, and the kind of waste that was created. The spillage event and corrective actions will be written down in the **Field Sanitation Unit Service Log** and kept in our records.

Pesticide or fungicide spill procedure: Wear protective gloves and face mask when cleaning up a spill. Record spill in **Field Sanitation Unit Service Log**.

Dry spills. (granular, dust, wettable, dispersible and soluble powder formulations)

1. Cover the spill with plastic or a tarp to prevent a breeze from moving the material.
2. Put weights on the cover.
3. Use a broom, dust pan or shovel to sweep up the spill while rolling back the tarp to expose only a small area at a time.
4. Place spillage in metal or plastic containers. Plastic bags may be used, but only as a last resort.
5. Secure and label the containers for later disposal.
6. If at all possible, assess the volume of spilled material, review the label and application rates, and then apply as a legal application. Use of the product, though not necessarily for pest control, is legal and allows the material to breakdown under normal application conditions; thus, negating the possible need to handle the material as an expensive hazardous waste. If application is not possible, dispose of as a hazardous or non-hazardous waste.

Liquid spills.

1. Soak up the liquid with an appropriate absorbent. (sweeping compound, sawdust).
2. Use a broom to work the absorbent into the spill.
3. Gather the combined material and deposit it in a labeled plastic or metal container.
4. Contaminated soil may need to be removed. Soil should be packaged in labeled containers for later disposal.
5. If at all possible, assess the volume of spilled material, review label and application rates, and then apply as a legal application. If application is not possible, dispose of the material as a hazardous or non-hazardous waste depending on the product.

Policy and Procedure for Handling a Sanitation or Safety Hazard in the Field.

Sanitation facilities that have been tipped over or are in any way not available for use will be noted immediately and dealt with in a manner that minimizes the risk of contaminating the produce. In the case of a sanitation unit spilling or any other septic leakage occurring in or near field boundaries, the following clean-up steps will be performed:

1. Any affected produce is immediately disposed of in a covered waste bin.
2. The contaminated area will be marked off with caution tape or string.
3. Signs in appropriate languages will be posted at the perimeter prohibiting entry to the contaminated area.
4. People and animals will be kept out until the area is sufficiently decontaminated.
5. Any solid waste still resting on the surface will be collected, shoveled up, and removed to the waste bin.
6. Any affected permanent structures will be hosed off and disinfected with a dilute bleach solution.
7. The sanitation unit if used will be cleaned up and replaced by the company providing the units and maintenance services.
8. The spillage event and corrective actions will be written down in the **Field Sanitation Unit Service Log** and kept in our records.

3.6 Animals/Wildlife/Livestock

Wildlife. Our primary wildlife problems come from deer, rats, mice, birds, and bear. Wildlife activity is monitored and deterred through game cameras, our tame pet dogs, and fencing.

Livestock. We do not have livestock or manure lagoons. Our production areas are not located near or adjacent to dairy, livestock, or fowl production facilities or manure. Livestock animals are not allowed in or near sources of irrigation water.

Fence and Field inspections. Cultivation areas are monitored for presence and signs of wild and domestic animals entering the production areas. Daily, we do a field perimeter check to look for animal tracks and pathways, animal resting areas, or other signs of animals in the fields. Personnel are instructed to notify the farm manager if during their normal farming activities they notice signs of animals passing through or feeding in the production areas. We record disturbances on our inspection and any actions taken in the **Fence Perimeter and Field Inspection Log (Appendix F)**.

Inspecting the fences and fields will include the following:

- ▶ Walking the fence line observing any places where the fence may be compromised or in need of repair. All repairs are noted in the **Fence Perimeter and Field Inspection Log**.
- ▶ Making sure there are no weaknesses or places where animals are clearly entering and exiting the fields.
- ▶ Visually inspecting the fields from the outside to see if there are any noticeable signs of animal presence. If animal presence is noted, affected sections of the field will be noted.

3.7 Cultural Resources

If buried archaeological or historical resources are encountered during construction or cultivation activities, LOM personnel or contractor shall temporarily halt all work in the immediate area, and contact a qualified archaeologist to evaluate the materials.

Prehistoric materials may include obsidian or chert flakes, tools, locally darkened midden soils, ground stone artifacts, dietary bone, and human burials. If human burial is found, state law requires that the County Coroner be contacted immediately. If the remains are found to be those of a Native American, the California Native American Heritage Commission will then be contacted by the Coroner to determine appropriate treatment of the remains. The applicant is ultimately responsible for ensuring compliance with this condition.

3.8 Light Pollution

All outdoor lighting used for security purposes is shielded and downward facing. LOM personnel ensure that if lights are used in the immature plant area they are shielded from sunset to sunrise to avoid nighttime glare. In case lights are used for this purpose, we cover greenhouses at sundown with plastic covers that are impenetrable by light, and uncover them after sunrise.

Part 4: Cultivation Operating Procedures

4.1 Planting and Harvesting

All objects that come into contact with plants must be clean, in good working condition, and cleaned and/or sanitized on a regular basis. This includes, for example, hands, harvesting equipment (knives, pruners, etc.); harvesting tote transportation equipment; bulk hauling vehicles; processing equipment (tables, tubs); and storage equipment.

Planting/Monthly Activities: Our cannabis is grown using the light deprivation method in greenhouses. See the Plot Plan for canopy areas and their respective aggregate square feet. The plants, depending on location, may be in fabric pots, raised beds, or in-ground trenches. Plant count varies depending on the spacing of plants, which can range from 18" to 2' depending on the weather at the time of planting. **See Appendix B for our Cultivation Schedule Calendar.**

March/April: Begin garden site preparation and water line inspection, POD verify irrigation system efficiency etc. Water storage is approaching capacity before forbearance period begins.

April/May: Begin preparation of raised beds, condition soil, clones have been purchased and are transferred to beds at the beginning of May. Forbearance period begins May 15.

May: Mid-month begin flowering, bottom branch removal and trellising. Take clones for second crop.

June: First round of crop is flowering and being tended to regularly to ensure optimal health and growth rate. Second round of clones are placed into beds. Organic nutrient feeding as needed, start tie/netting as needed, ongoing maintenance.

July: Mid-month harvest begins first round of cannabis crop. The second round has just started is in vegetative state. Tarps are used to block out natural light for extended daylight hours in the summer months. Plants are dried in the drying and storage building .

August - September: Second round of crop is in full flower, fans are used to keep air flow in the greenhouses. Continue garden/site maintenance, start dry room preparations **October/November:** Initiate hand harvesting, drying and processing. Garden sites are cleaned up and prepared for winter. Water forbearance period ends.

Fertilizers, other Regulated products: The fertilizers/amendments listed below are used at the start of the grow season; only quantities needed are purchased and brought to the site. Annual reporting of fertilizer/amendment use is required under RWQCB Order No. R1-2015-0023 and the data is provided on page 4, Appendix C (RWQCB Order No. R1-2015-0023). Mixing of the products listed below takes place only within a small area near cultivation sites and the products are kept protected from accidental spillage or disturbance from wildlife while mixing takes place.

Dr. Earth – All Purpose Fertilizer 5-5-5
Bone Meal
Worm castings
Bat Guano
Fish Emulsion

Harvesting: Plants are harvested at peak ripeness and immediately transferred to the harvest storage building where they are hung to dry. See section 5 on curing, processing, and packaging for more information.

The harvest process starts by clipping two or three foot long sections of the mature plant. Small batches are then transported inside totes to the curing facility where they are weighed, and the totes are labeled with the batch UID. Cannabis is harvested in batches over several consecutive days, depending on the size of the area ready for harvest. Harvest information should be recorded on the **Harvest events log** and required data is entered into track and trace systems per section 7.1 of this document.

Harvest tools policy. Any tool used for harvesting plants, such as shears or scissors, will be cleaned and/or disinfected daily. If a tool is not clean, that tool may not be used for harvesting. Cleaning history should be kept on file in the **Harvest Tool & Container Cleaning Log**.

Harvesting totes/containers. Harvest totes are kept in good repair and damaged ones are immediately discarded or repaired. Harvesting totes will be cleaned and disinfected before each harvest season and whenever needed. Each tote is numbered and individually identified and its cleaning history should be kept on file in the **Harvest Tool & Container Cleaning Log**. Totes not in use will be stored in a clean and secure location.

Harvesting totes will not be used for carrying anything but cannabis. If something other than cannabis is placed in a harvesting tote, that tote must be cleaned or disinfected. Before moving cannabis from the field, excessive dirt and mud will be removed from totes and pallets as much as possible. It is our **policy** that any product that is being moved from the field to the processing and storage house will be covered. All containers used for field packing are new, or sanitized plastic containers.

4.2 Pest Management

Pest Definition. *“Any insect, predatory animal, rodent, nematode or weed; and any form of terrestrial, aquatic, or aerial plant or animal virus, fungus, bacteria, or other microorganism (except viruses, fungi, bacteria, or other microorganisms on or in living man or other living animals).”CDFA*

Rodents:

Indicators: chew marks at base of plants, or droppings found in production areas, dirt mounds from gophers etc.

We do not use rodenticides. Traps are placed in pest problem areas as required. Traps are checked daily by the farm manager or appointed personnel. Records should be kept of the daily checks as well as any rodents that are found in the traps on the **Pest Management log (Appendix F)**. Any deceased rodents are disposed of in the trash using single use gloves.

All walls, doors, and windows in buildings are inspected. All windows are screened. Any holes are repaired to prevent pest and/or bird entrance into the buildings. Personnel are trained to report any signs of infestation in the field or processing and storage areas.

Other Pests:

Indicators: spotted or curled leaves, webs, fungus gnats or white flies.

We strongly believe that preventative measures are the best policy. Bi-weekly application of organic pesticide during the vegetative cycle can help reduce the chance of infestation. All pesticides and fungicides used at LOM are OMRI approved products. Pesticide is never applied to flowering plants, when pollinators are present, or when high winds are present. Our practices ensure that pesticide does not reach surface or groundwater at any time.

LOM personnel should record pesticide application in the **Pest Management log**. Refer to Table 2 below for type of pesticides used and amount applied annually. Any pesticide products along with the MSDS documents are stored in the **Metal building**. Spills or leaks are cleaned up immediately (refer to section 3.5 Hazardous Materials for clean-up protocol).

Any use of pesticide products shall be in compliance with the State pesticide laws and regulations enforced by the County Agricultural Commissioner's Office and the California Department of Pesticide Regulation, as well as CMMLUO.

Fungus Control:

Indicators: white powdery mildew, root rot, stem rot

Preventative measures are the best policy. Bi-weekly application of Plant Therapy fungicide reduces the chance of infestation. See Appendix G Safety Data Sheets.

Any uses of fungicide products shall be in compliance with the State laws and regulations enforced by the County Agricultural Commissioner's Office.

Fungicide products are safely stored in the Marine Containers listed in area C of site map along with corresponding MSDS sheets. The following table identifies pesticides and fungicides used in cultivation.

TABLE 2. Pesticides and Fungicides			
Type/Brand	*Active Ingredients	Quantity Used Annually (gallons/year)	Frequency/Rate of Application (Depends on growth stage)
Plant Therapy	Soy Oil, Peppermint Essential Oil, Citric Acid	10	1 OZ PER GALLON, 1-2 APPLICATIONS WEEKLY

* See Appendix G for Safety Data Sheet

4.3 Waste Management

Solid Waste and Recycling. LOM aims to prevent vectors for disease, infestation, or nuisance with our facilities' solid waste. Cultivation-related solid waste including, but not limited to, empty soil/soil amendment/fertilizer/pesticide bags and containers, empty plant pots or containers shall be stored in water tight storage containers, and removed weekly if putrescible, and monthly otherwise.

All refuse will be contained in wildlife proof storage containers, at all times, and disposed of at an authorized waste management facility. Filled solid waste containers are stored within one of the Marine containers in area C of site map, and are self-hauled to the Redway Transfer Station on Conservation Camp Rd, Redway, CA 95560.

Cannabis Waste. Cultivation organic matter such as stems and leaves from cannabis plants are composted in a designated area identified on plot plan. Compost will be handled and processed on site according to Title 14 of the California Code of Regulations at Division 7, Chapter 3.1 summarized in Appendix D. Cannabis waste will be identified, weighed and tracked in the track-and-trace system per section 7.2 of this document. LOM personnel will maintain accurate and comprehensive records regarding cannabis waste that account for, reconcile, and

evidence all activity related to the generation or disposition of cannabis waste. Cannabis waste records will be stored in the LOM records binder located in the Metal Building

In the case that composting on site is not possible due to legal constraints, cannabis waste will be stored in a secure fenced area with restricted access for LOM personnel, local agency or contracted waste hauler. Organic waste, which is not composted on site, shall be hauled by LOM personnel to Redway Transfer Station on Conservation Camp Rd, Redway, CA 95560, or to a manned fully permitted composting operation or facility as identified in CDFA Cannabis Cultivation regulations section 8108. LOM personnel will obtain and retain a copy of a certified weight ticket, or receipt documenting delivery, prepared by a representative(s) of the solid waste facility receiving the self-hauled cannabis waste. Transportation of self-hauled cannabis waste shall only be performed by personnel of LOM.

Part 5: Curing, Processing and Packaging

The Metal Building listed in area D, E, H, and G of site map is the harvest storage area and is used as the work center and processing facility for the cured product.

The Curing, Processing and Storage Facilities will be accessed by authorized personnel only. Traceability protocols and sanitation practices will minimize cross contamination between batches. Processing is currently performed by family members.

5.1 Curing Process

Natural air flow may be supplemented with household fans and dehumidifiers to aid the drying process.

Plants are hung in strain specific batches. The traceability tags are hung with the batches to prevent disruption to the traceability protocols. The curing house is kept at 72°F and 60% humidity until the flowers are properly cured. Cured batches are sealed in cleaned and labeled storage totes and transported to the processing facility.

5.2 Processing, Packaging & Labeling

Processing and packaging will occur at the Metal Building. Processing and packaging operations will be performed under clean and sanitary conditions, including all work surfaces and equipment. Only trained personnel will use processing equipment. People handling cannabis in processing and packaging operations will have access to premium quality facemasks, gloves, work surfaces and seating as well as hand washing stations.

Processing Cannabis. Due to the small size of our farm, and to minimize road use by processing personnel, we use a single person operable Green Broz cannagin for stripping the flowers from the stem, and Green Broz dry trimming machine to process the plants. Operators are trained in the safe use of the machines. The cannagin, and

trimming machines are cleaned and sterilized between batches to limit cross contamination by different strains.

Processing Worker Health and Hygiene Policy. LOM personnel will wear clean clothing to work every day. When required, personnel will wear appropriate supplied clothing including hats, hairnets, aprons, and disposable gloves. No jewelry is allowed in the packinghouse or packing facility with the exception of a plain wedding band (no stones allowed). Personnel areas including lunch and break areas are located in the main facility and are kept clean. Under no circumstances will glass containers be allowed in the processing area.

General housekeeping. Only non-toxic food-grade cleaners may be used in cleaning processing and packaging surfaces. Sanitation chemicals have their own storage area separate from the processing line, and are marked on the building map.

Areas outside the processing facility are covered in gravel or wood chips and well-maintained. They are free of debris that could harbor pests and free of standing water. Garbage cans/dumpsters are covered and located away from entrances.

The processing and packaging facilities will be clean and orderly before and after use. Light bulbs are protected from breakage by either being in sleeves, covered, or be made of shatterproof material. Pipes, ducts, fans and ceilings are kept clean. At the end of each day, packing areas are dry swept. The grading, sorting, and packing lines are cleaned and sanitized as well. A thorough cleaning, including floors, will happen on a weekly basis or as needed and this should be recorded on the **Processing & Packaging Line Cleaning Log**.

Glass. No glass containers are allowed in processing facility. All light bulbs are shatter proof or are shielded with shatter proof sleeves or covers.

Policy for product that hits the floor. If product falls or is dropped to the floor it may not be picked up and put back on the packing line and dropped produce should remain on the floor. Dirty product will be cleaned from the floor regularly. Product will be swept or pushed away from the packing line and shoveled into the clearly marked waste bins. Employees will wash their hands before returning to the packing line. The product in the waste bin will be emptied at the end of the day, or sooner, and taken to the compost.

EXISTING LIVE OAK WATER STORAGE TOTALS 2020						
TANK SIZE	QTY.	TYPE	GALS.	HARD STORAGE GALS.	BLADDER GALS.	TOTAL STORAGE GALS.
5,000	16	HARD POLY	80000	100000	51000	151000
3,500	4	HARD POLY	14000			
3,000	2	HARD POLY	6000			
3,000	17	BLADDER	51000			

Part 6: Storage and Transportation

6.1 Storage area

The packaged product will be stored in a locked metal container in strain specific batches that maintain traceability. Items will be checked in and out of the container with a two party verification system which requires two members of the family to be present and to sign the **Cannabis Release Log (Appendix F)**.

Storage areas are kept clean, secure, and tidy. The general housekeeping policy for the storage area is the same as for the packinghouse areas, as is the pest and rodent control program.

6.2 Transportation of Cannabis

All delivery trucks and vehicles used to transport cannabis are inspected for odors and signs of unsanitary conditions before loading. If a vehicle is found to be unsanitary, it will be cleaned and sanitized before cannabis is loaded. All records of inspections and cleaning should be kept on the **Delivery Vehicle Cleaning and Inspection Log**.

Equipment used to carry potentially hazardous items including fertilizers or pesticides will not be used. Any contracted truck operators will be asked to state the last load that was hauled in the vehicle and provide a cleaning schedule and temperature log for the vehicle before loading, as well as a log of previous loads. Cannabis will be loaded carefully so that risk of damage will be minimized.

Cannabis that is transported off LOM premises will be documented on the **Shipping Manifest (Appendix F)** and entered into the track and trace system per section **7.3 Commercial Traceability**. Copies of Shipping Manifests will be kept for seven (7) years (refer to section 2.6 Records Retention). A shipping manifest shall accompany every transport of cannabis.

Part 7: Traceability, Records and Sales

Please note, the requirements outlined below may be subject to change. Please verify their accuracy with your local jurisdiction as needed.

7.1 Traceability General Procedures

Traceability requirements are subject to change. LOM verify with the CDFA annually.

Overview. LOM reports in the Ag Department's track-and-trace system the disposition of immature and mature plants, non-manufactured cannabis products on the premises, any transfers associated with commercial cannabis activity, and any cannabis waste. All commercial cannabis activities shall be entered in the track and trace system. Cannabis is entered into the track-and-trace system starting with seed, clone propagated onsite or purchased from a licensed nursery, or seedling purchased from a licensed nursery.

Account/Cultivation Manager & Training. LOM has a designated track and trace account manager (Cultivation Manager) who has completed the track and trace system training (see Appendix F Employee Training Log). The account manager legally represents LOM. The account manager can designate additional users of both the State track and trace system and the County's Calorigin system. Any additional LOM personnel that are designated to use these systems will also complete the corresponding system training.

Loss of access to track and trace system and errors. Any errors that occur in the system are corrected within three business days. If by chance access to the track-and-trace system is lost, LOM personnel will maintain comprehensive records detailing all required inventory tracking activities conducted during the loss of access. Upon recovering access, all inventory tracking activities that occurred during the loss of access will be entered into the system within three (3) business days. Document the date and time when access to the system was lost and when it was recovered as well as the cause for each loss of access. During the time when access to the system is lost, cannabis or non-manufactured cannabis products may not be released to a distributor.

Pre-Existing Cannabis prior to receiving State license. See Appendix E for important instructions to follow upon issuance of State Annual License to deal with pre-existing cannabis plants on the farm. Also, procedures for closing out inventory in the case that license is surrendered, expired or revoked.

7.2 Field Traceability

1) Immature Plants

- a. State UID Procedure – immature plants are grouped in lots of up to 100 plants. Each lot of immature plants is assigned a UID. The lot UID label is maintained so as to be clearly visible and free of dirt and debris. Each

individual immature plant in a lot is labeled with the corresponding UID number assigned to the lot, and shall be contiguous to one another.

Immature plants transferred from a licensed nursery, via a distributor to LOM will follow the same requirements above for UID labeling.

- b. State Reporting Requirement – Immature plant lot UID information is entered into the track and trace system within three (3) days of creation of the UID. If clones or seedlings are physically received or rejected by LOM personnel from another licensee, this transfer is reported in the track and trace system (refer to section 7.4 for required info to be entered).

2) Mature Plants

- a. State UID Procedure – Upon transferring plants to designated planting areas, each plant is given their own individual State UID label, attached to the main stem at the base of each plant using a tamper evident strap or zip tie. All labels will be clearly visible and free of dirt and debris. The label/tags remain on the plant until harvested or disposed of.
- b. State Reporting Requirement – Mature plants are reported in the track and trace system upon any change in disposition, including when the plants have flowered, and if plants are destroyed and disposed of (likely due to mold or bugs, rendering the plant unusable).

3) Harvested Cannabis

- a. State UID Procedure – Harvested cannabis plants are batched and assigned a unique harvest batch name which is associated with all the UIDs of each individual plant, or portion contained within the harvest batch.
- b. State Reporting Requirement – Each unique harvest batch name is entered in the track and trace system within three (3) days of harvest.

4) Cured and processed cannabis

- a. State UID Procedure – finished cannabis and non-manufactured cannabis products are labeled with UID's associated with the corresponding harvest batch name that they are derived from.
- b. State Reporting Requirement – Record the net weight of all cannabis once the majority of drying, trimming and curing activities have been completed, or within sixty (60) calendar days from the initial harvest date, whichever is sooner.

5) Cannabis waste

- a. UID Procedure – Upon destruction or disposal of any cannabis or non-manufactured cannabis products, the applicable UIDs shall be retired in the track-and-trace system by the licensee within three (3) business days of the

destruction or disposal and be performed in accordance with the licensee's approved cannabis waste management plan.

- b. Reporting Requirement – In addition to retiring UID's for disposed cannabis (due to plant damage), Cannabis compost weight is to be reported in track and trace. Refer to section 4.3 for cannabis compost recording procedures.

7.3 Commercial Traceability

Each transfer of Cannabis or non-manufactured cannabis product between licensed entities is recorded and entered into the track and trace system.

STATE:

Cannabis transferred FROM LOM – All transfers of cannabis or non-manufactured cannabis products from LOM to another licensed entity is entered in the track and-trace system prior to the movement of the cannabis or non-manufactured cannabis product off the premises. Refer to section 7.4 Sales Invoices and Receipt Requirements for required information to be recorded and entered into track and trace.

Cannabis transferred TO LOM – All cannabis or non-manufactured cannabis products physically received or rejected by LOM from another licensed entity is entered in the track and trace system within twenty-four (24) hours of receipt or rejection of the products. Refer to section 7.4 Sales Invoices and Receipt Requirements for required information to be recorded and entered into track and trace.

7.4 Sales invoices and receipt requirements

LOM personnel will prepare a sales invoice for every sale or transport of cannabis or non-manufactured cannabis product to another licensee. Sales invoices and receipts may be retained electronically but must be readily accessible for examination by the Ag Department, other state licensing authorities, any state or local law enforcement authority, and the California Department of Tax and Fee Administration. Each sales invoice or receipt shall include the following (**See Appendix F for Sales Invoice form**).

** Required info to enter in Track and Trace system

- 1) ** Name, business address, and Ag Department issued license number of the seller;
- 2) ** Name, business address, and Ag Department issued license number of the purchaser;
- 3) ** Name and department issued license number of the distributor
- 4) ** Date of sale or transfer -- month, day and year RECEIVED by LOM;
- 5) Invoice or receipt number;
- 6) ** Weight or quantity of cannabis and non-manufactured cannabis products sold. Refer to Weighing protocol in section 7.5 below.
- 7) Cost to the purchaser, including any discount applied to the total price, shall be recorded on the invoice.

- 8) ** Estimated departure and arrival time and actual departure time;
- 9) ** Description for each item including strain or cultivar, and all of the applicable information below:
 - a) Plant;
 - b) Flower;
 - c) Leaf;
 - d) Shake;
 - e) Kief; and
 - f) Pre-rolls.
- 10) **UID's
- 11) Signature of the seller, or designated representative of the seller, acknowledging accuracy of the cannabis and non-manufactured cannabis products being shipped.
- 12) Signature of the purchaser, or designated representative of the purchaser, acknowledging receipt or rejection of the cannabis or non-manufactured cannabis products.

7.5 Weighing

Cannabis or non-manufactured cannabis products are weighed for data input into the track and trace systems, when it is packaged for sale, and when it is bought or sold. In all of the above occurrences, weight of cannabis or non-manufactured cannabis products, is determined using a weighing device that is approved, tested and sealed pursuant to chapter 5 (commencing with section 12500) of division 5 of the Business and Professions Code, and registered with the county sealer consistent with chapter 2 (commencing with section 12240) of division 5 of the Business and Professions Code.

- 1) Weight. Wet weight and net weight shall be measured, recorded and reported in U.S. Customary units (e.g., ounce or pound); or International System units (e.g., kilograms, grams, or milligrams).
- 2) Count. For the purposes of this section count means the numerical count of the individual plants or units.

7.6 Record Retention

LOM personnel will keep and maintain the following records for at least seven (7) years from the date the document was created. Records will be securely stored in the Main Facility and are available for review by the Ag Department upon request, or during regular business hours (8:00am – 5:00 pm PST).

1. Ag Department issued cultivation license(s);
2. Cultivation plan;
3. All records evidencing compliance with the environmental protection measures pursuant to sections 8304, 8305, 8306 and 8307 of Title 3, Food and Agriculture, Division 8, Cannabis Cultivation Chapter 1.
4. All supporting documentation for data or information input into the track-and-trace system;

5. All UIDs assigned to product in inventory and all unassigned UIDs. UIDs associated with product that has been retired from the track-and-trace system must be retained for six (6) months after the date the tags were retired;
6. Financial records, including but not limited to, bank statements, tax records, sales invoices, and sales receipts;
7. Personnel records, including each employee's full name, social security, or individual tax payer identification number, date of beginning employment, and date of termination of employment if applicable;
8. Records related to employee training for the track-and-trace system or other requirements of this Chapter. Records shall include, but are not limited to, the date(s) training occurred, description of the training provided, and the names of the employees that received the training;
9. Contracts with other state licensed cannabis businesses;
10. Permits, licenses, and other local authorizations to conduct the licensee's commercial cannabis activity;
11. Security records; and
12. Records associated with composting or disposal of cannabis waste.
13. Documentation associated with loss of access to the track-and-trace system prepared pursuant to section 8402 (d) of this Chapter.

Part 8: Security

The property has a locked gate at the entrance to prevent vehicles from gaining access to the property when not in operation. See the map for location.

Personnel are trained to be advocates for security and safety by monitoring and reporting any unusual persons near the entry road, signs of persons such as boot prints, or unusual vehicles adjacent to the property.

In the event it is discovered that an unauthorized person has gained access to the property, personnel will ask the person to leave the property. If the person refuses to leave, authorities will be contacted to remove the intruder, and a police report will be filed.

All Cannabis is stored in a locking metal shipping container and is released from the container under a two party verification system involving 2 family members only. Product that leaves the storage area is recorded on the **Cannabis Release Log (Appendix F)**

Relevant safety warnings will be printed on all packaging that leaves the **farm (see section 5.2 Labeling)**. No minors are allowed in the cultivation, drying, or processing areas at any time.

Part 9: Personnel Policy, hiring and training

Please Note: We have no employees. This section of the document is intended to be the guidelines used for future employees if and when they are hired.

In the event that employees are hired. We shall comply with all applicable federal, state, and local laws and regulations governing California Agricultural Employers, including: federal and state wage and hour laws, CAL/OSHA, OSHA, California Agricultural Labor Relations Act, and the Humboldt County Code (including the Building Code).

We will visibly post and maintain an emergency contact list which includes at a minimum:

EMERGENCY RESPONSE CONTACT:

Operation manager contacts: Solomon Maceo Gienger, 707-986-1471

Life Threatening / Other Emergency – 9-1-1

Fire Department – 9-1-1

Whitethorn Fire Station – 707-986-7507

Humboldt County Sheriff's Department – 707-923-2761

Poison Control – 800-222-1222

Southern Humboldt Community Clinic – 707-923-3925

Jerold Phelps Community Hospital– 707-923-3921

9.2 Personnel Training

All family members and employees receive training on an ongoing basis as new technologies are implemented and practices optimized. Refresher courses are provided as needed. Training includes instruction on all company policies related to worker health and hygiene and (where appropriate) training related to specific jobs as required by law (for example, equipment, vehicle licensing or training).

Safety training relevant to specific job functions may include:

- 1) Emergency action response planning as necessary;
- 2) Employee accident reporting and investigation policies;
- 3) Fire prevention and water locations;
- 4) Hazard communication policies, including maintenance of material safety data sheets (MSDS);
- 5) Materials handling policies;

- 6) Job hazard analyses; and
- 7) Personal protective equipment policies, including respiratory protection.

Employee training is documented on the **Employee Training Log** at the main facility. A copy of the Employee Training Log form can be found in Appendix F. Documentation of training includes employee's printed name and signature, description of training, written materials or video/DVD, date, and name of person doing the training. Training will be provided in the language of the employees

9.3 Health and Hygiene policy

Visitors. Visitors are defined as anyone on the farm for more than 15 minutes to conduct farm related business, or goes in plant production or processing areas. Visitors will be asked to wash their hands when entering the field or processing areas. Visitors are not allowed to pick cannabis or handle product without the permission of the farm manager, or owner. All visitors will sign in when arriving and sign out before leaving.

Hand washing and toilet facilities. Clean and well-maintained toilet and hand washing facilities are provided for all family, personnel and visitors in the Main Facility. All toilet/restroom facilities are properly supplied with single-use towels. These facilities are checked on an ongoing basis. Restroom facilities are serviced and cleaned as needed. Monitoring, restocking, and cleaning are documented on the Restroom Cleaning Logs and are located in the folder chained to the wall outside the restroom. A copy of the log form can be found in Appendix F.

Hand washing. Everyone must wash their hands before beginning work and returning to work after taking breaks, going to the restroom, eating, smoking, or whenever their hands are dirty. Signs in English and employee languages are posted in restrooms, eating areas, and smoking areas to instruct employees to wash their hands before beginning and returning to work.

Portable Toilets Portable toilets are on the premises, one near the uppermost cultivation area and one near the immature plant area. The portable toilets are stocked with anti-bacterial hand cleansers. The portable toilets are serviced regularly by a provider holding a permit to operate in Humboldt County.

Drinking Water Policy. Potable drinking water is provided and available for visitors, family and employees in the Main Facility. All personnel are notified of this policy during training and instructed to notify their supervisors if water is not available or if disposable cups are not available. *No glass is allowed in the field*

9.4 Injury and Illness Policies

EMERGENCY RESPONSE CONTACT: 911

Injuries. If someone is injured at the farm, either in the packinghouse or in the field, the first aid kits are available for use in/at the Main Facility bathroom. The supplies are checked and updated monthly. History of refilling first aid kits should be kept in the **First Aid Kit log**. The log form can be found in Appendix F.

All workers are instructed during training to deal with injuries immediately. This includes any cuts, abrasions, or other injury that happens while working. Employees must notify the farm manager or their supervisor and fill out an accident report. If the injury is critical or life threatening, employees are instructed to call 911 for proper care.

Blood and body fluid. If blood or other bodily fluid should come in contact with cannabis or in the field, immediate action must be taken.

If a person is not able to immediately deal with the contamination due to injury, that person must mark the area if able and immediately notify the farm manager or his/her supervisor who will take appropriate action.

If an employee is injured in the field or packinghouse, the farm manager or supervisor--after assuring the employee's safety--will immediately inspect the area where the injury happened to make sure no blood or bodily fluids have contaminated the area.

If there is blood in the field, all contaminated surfaces will be removed to a plastic bag with a shovel or gloved hands and placed in a trash can. All affected soil will be shoveled up around and under the area and will be removed. All affected cannabis will be discarded in a burn pile. All actions will be documented on the **Illness and Injury Form**. A copy of the log form can be found in Appendix F.

Illness. Any employee who is sick should notify the farm manager or his/her supervisor immediately and must not handle cannabis. If an employee does not report his or her illness and is found to be sick by the farm manager or supervisor, the employee will be immediately dismissed from work and not allowed to return until they are symptom free.

- 1) The following symptoms prohibit an employee from working and handling cannabis.
 - Diarrhea
 - Fever
 - Vomiting

- Jaundice
- Sore throat with fever
- Lesions containing pus (including boils or infected wounds, however small) on the hand, wrist, or any exposed body part

2) If an employee has any of the conditions listed above, these conditions will be recorded on the **Illness and Injury Form**.

9.5 Personnel Safety and Security Empowerment

All personnel are instructed to share information they observe regarding safety and security. If employees see unusual individuals or situations, they should notify their supervisors so they can evaluate the situation. If employees notice pests or other safety issues, they are encouraged to share this information with their supervisors. Our company safety policy includes all employees and is companywide.

Clothing, Jewelry, and Cell Phone Policy. Employees will wear clean clothing to work every day. No jewelry is permitted in the field, around machinery, packinghouse, or packing facility with the exception of a plain wedding band (no stones allowed) and wrist watches.

Cell phones are not allowed unless they are required for farm business. All cell phones will be stored in lockers or kept in a belt holster or pants pocket.

9.6 Policy on Taking Breaks

Short rest breaks are permitted in the field during production as long as workers are not eating or smoking. Lunch breaks can be taken in the forest, in cars which are parked outside of harvest and production areas or in the break-room. Employees must wash hands prior to returning to work. All personal items must be stored in designated areas in the field, break room, and packinghouse. Under no circumstances will glass containers be allowed in the field.

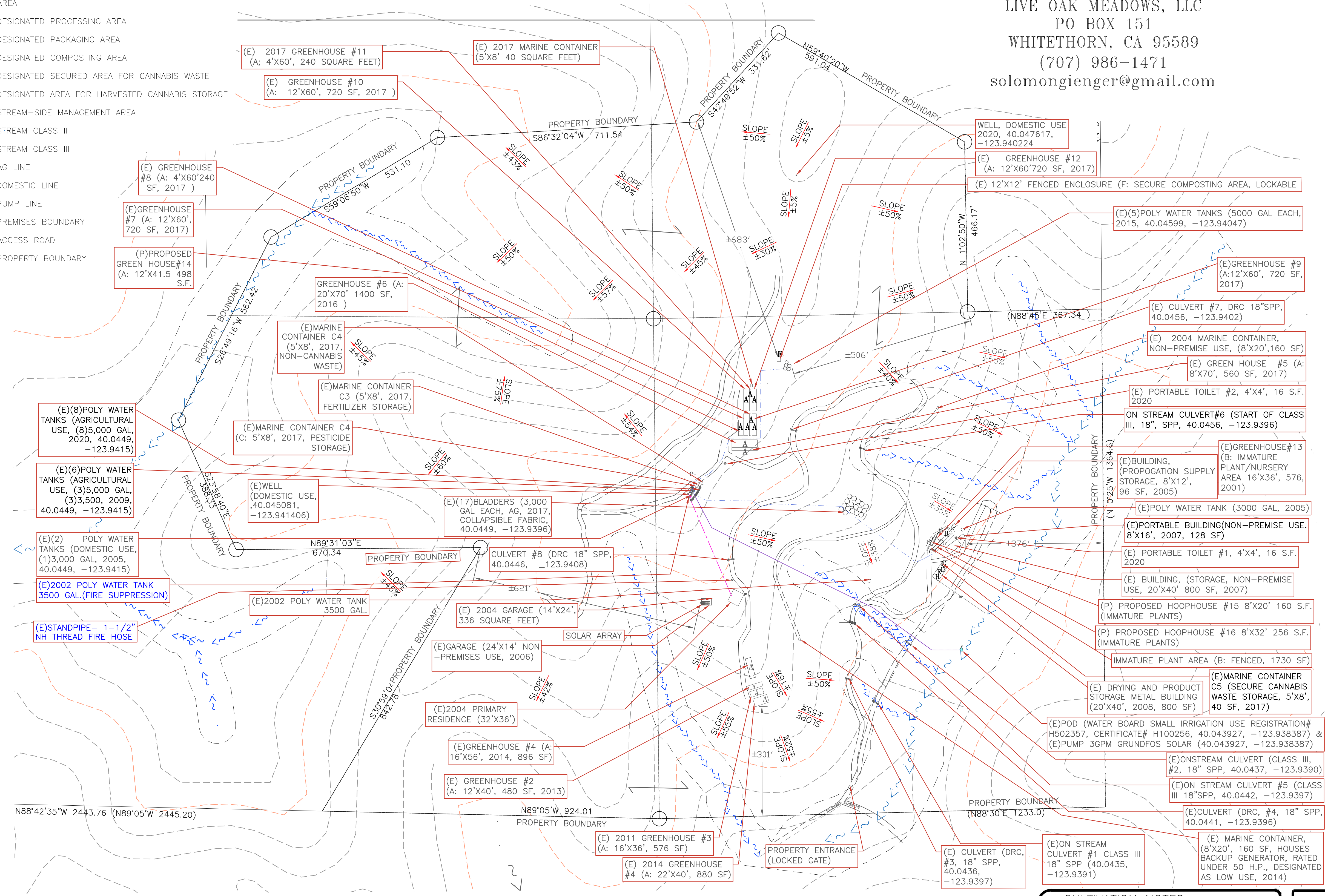
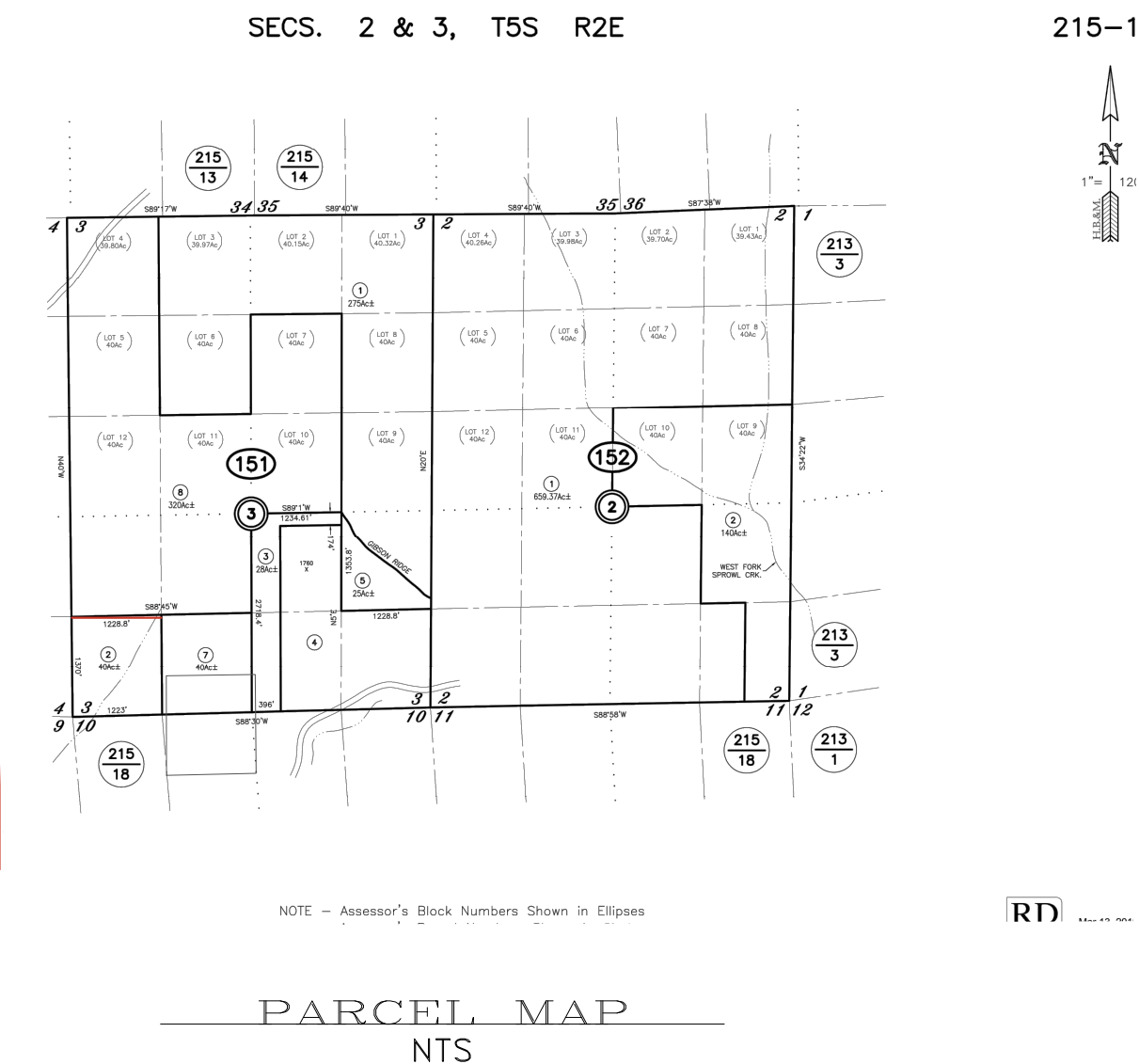
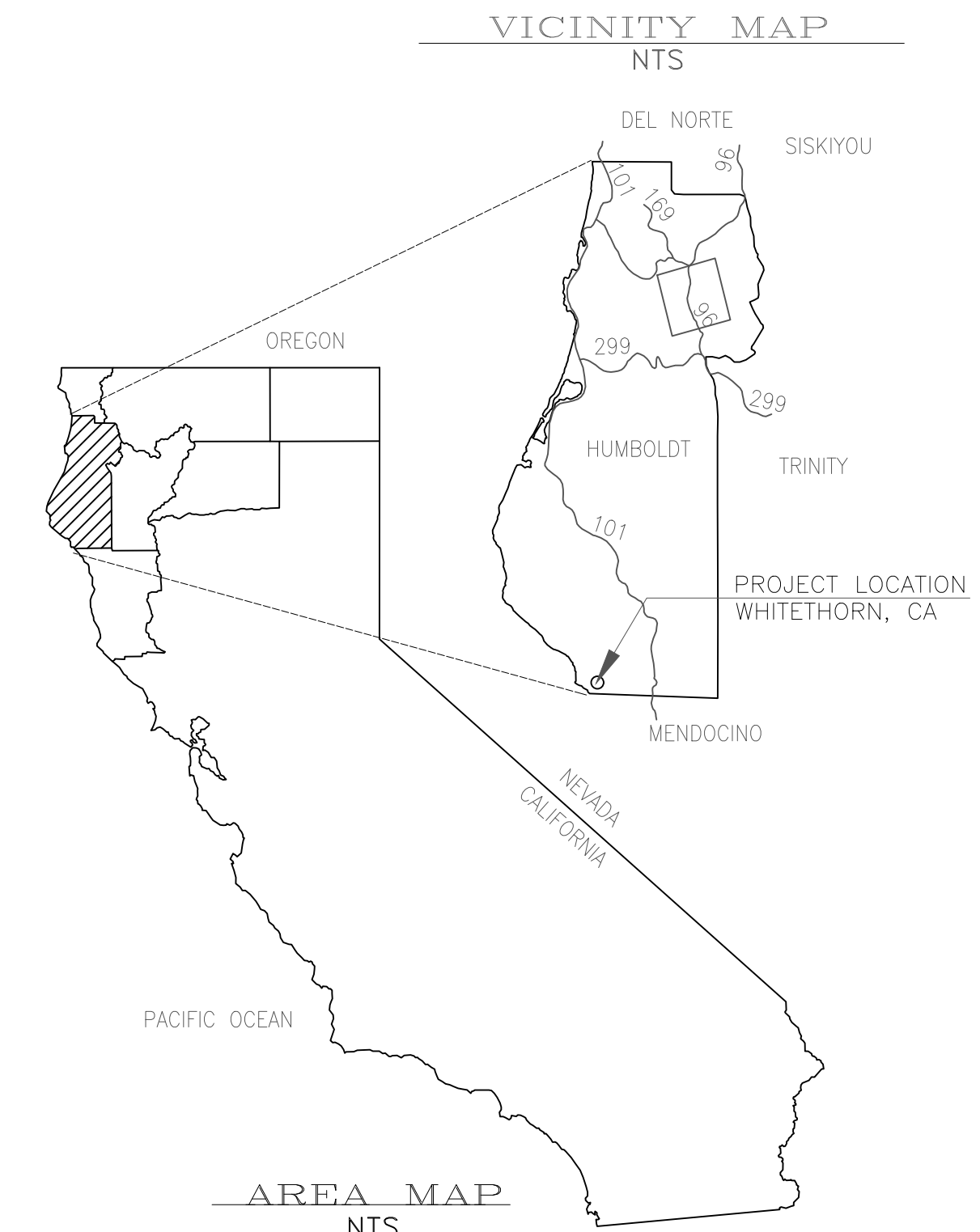
LEGEND

- A CANOPY AREA(S)
B AREA OUTSIDE THE CANOPY THAT SHALL CONTAIN IMMATURE PLANTS
C DESIGNATED PESTICIDE AND OTHER CHEMICAL STORAGE AREA
D DESIGNATED PROCESSING AREA
E DESIGNATED PACKAGING AREA
F DESIGNATED COMPOSTING AREA
G DESIGNATED SECURED AREA FOR CANNABIS WASTE
H DESIGNATED AREA FOR HARVESTED CANNABIS STORAGE
--- STREAM-SIDE MANAGEMENT AREA
~ ~ ~ STREAM CLASS II
~ ~ ~ STREAM CLASS III
--- AG LINE
--- DOMESTIC LINE
--- PUMP LINE
--- PREMISES BOUNDARY
--- ACCESS ROAD
--- PROPERTY BOUNDARY

PLOT PLAN
APN: 215-151-002

FOR
LIVE OAK MEADOWS, LLC
PO BOX 151
WHITETHORN, CA 95589
(707) 986-1471
solomongienger@gmail.com

PROJECT LOCATION
1050 STUMP LANE WHITETHORN CA.
HUMBOLDT COUNTY



CULTIVATION NOTES

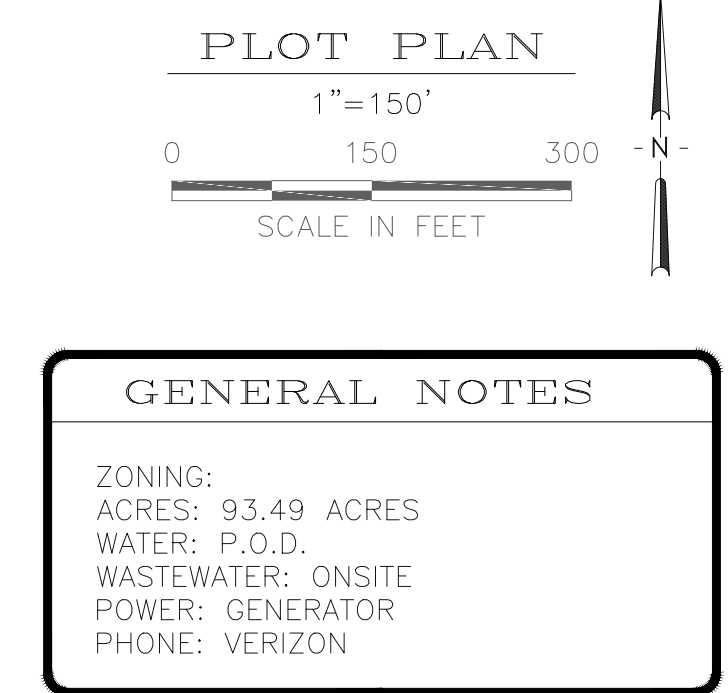
SRA REQUIREMENTS

PROVIDE ADEQUATE WATER STORAGE AND DELIVERY AS OUTLINED BY SRA ORDINANCE AND CALFIRE REQUIREMENTS

PROVIDE ADEQUATE TURN AROUND AND PULLOUTS AS OUTLINED BY SRA ORDINANCE REQUIREMENTS AND CALFIRE REQUIREMENTS

WATER STORAGE

WATER STORAGE TYPE	SOURCE	AMOUNT (GALLONS)
POLY TANKS DIVERSION	DIVERSION	100,000
BLADDERS	DIVERSION	51,000
TOTAL:		151,000



WATER NOTES

(E) P.O.D. (WATER BOARD SMALL IRRIGATION USE REGISTRATION# H502357, CERTIFICATE# H100256)

SURVEY NOTES

BOUNDARY SURVEYED BY KELLY-O'HERN ASSOCIATES FOR PURPOSE OF LLA. BASES OF SURVEY FROM RS BOOK 11 PAGE 135. BOUNDARY LOCATION IS APPROXIMATE.

NURSERY/IMMATURE PLANT AREA NOTES

(E) GREENHOUSE #14 16'X36', 576 S.F.
(P) HOOP HOUSE #15 8'X20', 160 S.F.
(P) HOOP HOUSE #16 8'X32', 256 S.F.
REMAINING FENCED AREA 738 S.F.
TOTAL NURSERY/IMMATURE PLANT AREA: 1730 SQUARE FEET

NUTRIENT NOTES ()

CULTIVATION NOTES

SITE	DIMENSIONS	AREA (SF)
#1	16'X56'	896
#2	12'X40'	480
#3	16'X36'	576
#4	22'X40'	880
#5	8'X70'	560
#6	20'X70'	1400
#7	12'X60'	720
#8	4'X60'	240
#9	12'X60'	720
#10	12'X60'	720
#11	4'X60'	240
#12	12'X60'	720
#13	PROPOSED 12'X41.5'	498
TOTAL CULTIVATION AREA:		8,650 SF

WASTE HANDLING NOTES

REFUSE SHALL BE STORED IN 5'X8' METAL MARINE CONTAINERS.

REFUSE MUST BE HAULED TO AN APPROVED WASTE FACILITY WEEKLY.

COMPOST SHALL BE STORED IN 10'X10' FENCED AREA. CANNABIS WASTE CANNOT EXCEED 50% OF THE GENERATED ORGANIC MATERIAL.

SOLOMON GIENGER
PO BOX 151
WHITETHORN CA 95589
(707) 986-1471

PLOT PLAN

WHITETHORN, HUMBOLDT COUNTY, CALIFORNIA

DATE OF ISSUE: 09/29/2019

SCALE: AS SHOWN

PROJECT NO: 001

DRAWING NO: C01

APPROVED BY:

CULTIVATION SCHEDULE

[illegible]

APPENDIX C *Water Testing Procedures*

There is not a national irrigation water standard which sets minimum microbial levels allowable for irrigation water. You are taking water samples to establish a baseline and monitor for changes.

There are some commodity specific guidelines which give recommendations for water quality and can be used as a reference source for determining thresholds. If you are a member of a commodity group, please refer to their guidelines.

All irrigation water and water used to mix topical, pesticide, or protective sprays should be tested for generic *E.coli*, nitrates, and nitrites and the tests should be quantified. Depending on the source and the use, the frequency of testing will vary.

For post-harvest water, water must meet the US EPA Drinking Water Standard.

<http://water.epa.gov/drink/>

Total Coliforms (including fecal coliform and *E. coli*) maximum contaminant level goal (mcgl) 0 (mg/l)². Coliforms are naturally present in the environment. Fecal coliforms and *E. coli* come from human and animal fecal waste.

Nitrates mcgl 10 (mg/l)². Sources include runoff from fertilizer use, leaking septic tanks, or sewage.

Nitrites mcgl 1 (mg/l)². Sources same as above.

Frequency. From municipal sources, obtain a copy of test results at least yearly from your county/municipality and keep it in your files. If you use well water, test at least, once per year during the growing season and more often if you are using well water for spraying. If you are using surface water, test at least 3 times per year during the growing season. Recommended sampling times include at planting, second at peak use time, and third at or near harvest. Wash and rinse water **MUST** be potable.

How to take a water sample. Contact your county environmental health department or a reputable lab to test your water. Follow their instructions for taking the sample and submitting the sample.

APPENDIX D *Cannabis Waste Composting Protocol*

Title 14. Natural Resources Div. 7. Dept of resources, recycling, and recovery Chapter 3.1. Compostable materials handling Operations and facilities requirements

1. **Licensing Requirement** - Permit required from the California Natural Resources Agency for any composting facility.
2. **Operating Procedures Handbook** - This operating handbook will outline the methods used in facility to perform the composting function. It should detail composting method utilized, locations for compost batches, methods used for moving materials, and proposed turning/temperature recording procedure.
3. **Designated Location and Space Allocated in Plot Plan** - State wants site diagram/ plot plan to show locations for all work spaces including composting location. If windrowing compost should consider moving down a hill if hand turning. All designated compost space will need adequate fire clearance due to danger of combustion in compost piles.
4. **Personnel Training Plan** - Personnel must be trained in procedures and maintenance, including physical contaminants and hazardous materials recognition and screening, with emphasis on odor impact management and emergency procedures on facility grounds. Will also keep a recorded log of when employees received training and maintained on site.
5. **Odor Impact Minimization Plan** - Site specific plan including odor monitoring and data collection, meteorological conditions affecting odor migration, complaint response, design considerations for method and aeration and moisture, and operating procedures for minimizing odors.
6. **Pathogen Prevention Process** - Fecal coliform < 1,000 Most Probable Number per gram of total solids and Salmonella < 3MPN / 4 grams solids. Process is: Enclosed vessels or aerated static pile with insulation layer maintained temperature > 131 F for 3 days, and for windrowing > 131 F for 15 days with compost turned at least 5 times.
7. **Testing Requirements; metals, pathogens, and physical contaminants** - Pathogens are aforementioned, compost meets maximum metal concentrations, and no more than 0.5% by dry weight of physical contaminants greater than 4 millimeters (no more than 20% of this 0.5% shall be film plastic >4mm).
8. **Record keeping** -Facility shall retain for at least 5 years; special occurrences, public complaints, compost batch i.e. (quantity and type) of feedstock logs, load checks and rejections, serious injuries, all TEST RESULTS. It is clear cut logging.

APPENDIX E *Pre-existing cannabis prior to state license issuance and close out inventory procedures*

Track-and-Trace System Requirements for Product in Licensee Possession at the Time of Annual License Issuance

- 1) Within thirty (30) business days of receipt of initial UIDs ordered, the licensee shall enter into the track-and-trace system and assign and apply a UID to each pre-existing immature plant lot, each individual mature plant, and all non-manufactured cannabis products physically located on the licensed premises.
- 2) After the thirty (30) day time frame referenced in subsection (a) above expires, all cannabis at the licensed premises shall be entered into the track-and-trace system starting with seed, clone propagated onsite or purchased from a licensed nursery, or seedling purchased from a licensed nursery

Close out of physical inventory instructions

Licensee's shall close-out their physical inventory of all cannabis and non-manufactured cannabis products, and UIDs, if applicable prior to the effective date of any of the following changes to their license:

- (1) Voluntary surrender of a temporary license or annual license.
- (2) Expiration of an annual license.
- (3) Revocation of a license.

Close-out of physical inventory includes, but is not limited to, all of the following items:

- (1) Immature plants and their corresponding lot UID(s);
- (2) Mature plants and their corresponding plant UID(s);
- (3) Harvest batches and their corresponding UID(s);
- (4) Non-manufactured cannabis products and their corresponding UID(s); and
- (5) UIDs in the licensee's possession which have not been assigned in the track-and-trace system.

APPENDIX F *Log Sheets, Invoice, & Shipping Manifest*

Planting Events Log

Harvest Events Log

Harvest Tote/Tool Cleaning Log

Processing line cleaning log

Packaging Events Log

Cannabis Release Log

Sales Invoice / Sales Receipt

Shipping Manifest

Transport vehicle inspection cleaning log

Water source testing log

Pest Management log

Field Sanitation Unit Service Log

Fence Perimeter and Field Inspection Log

Employee Training Log

Illness and injury report form

First Aid Kit Log

Restroom cleaning log

Planting Events Log

Harvest Events Log

Harvest Tote and Tool cleaning log

Processing line cleaning log

Packaging Events Log

[illegible]

Cannabis Release Log

Batch/UID	Name/Type	Weight/ Count	Date & Time of release	Destination	Signature

DATE and TIME
RECEIVED

INVOICE /RECEIPT #

Sales-Transfer Invoice

FROM: NAME	ADDRESS	LICENSE #

TO: NAME	ADDRESS	LICENSE #

DISTRIBUTOR NAME	LICENSE #

TYPE:	STRAIN	WEIGHT	COUNT	COST	UID

Signature of the seller, or designated representative of the seller, acknowledging accuracy of the cannabis and nonmanufactured cannabis products being shipped

SELLER SIGNATURE:

Signature of the purchaser, or designated representative of the purchaser, acknowledging receipt or rejection of the cannabis or nonmanufactured cannabis products

BUYER SIGNATURE:

PROPERTY OF HUBER C&D. ALL
RIGHTS RESERVED.

SHIPPING MANIFEST

PLEASE USE PERMANENT INK FOR ALL ITEMS

INVOICE/MANIFEST NUMBER:			
ATTACHED PAGE(S)?	YES ☐	NO ☐	# OF ATTACHED PAGES:

ACTUAL DATE AND TIME OF DEPARTURE:	/ /	☐ AM ☐ PM
ESTIMATED DATE AND TIME OF ARRIVAL:	/ /	☐ AM ☐ PM

SHIPPER INFORMATION	
STATE LICENSE #	
TYPE OF LICENSE	
BUSINESS NAME	
BUSINESS ADDRESS	
CITY, STATE, ZIP CODE	
PHONE NUMBER	
CONTACT NAME	

RECEIVER INFORMATION	
STATE LICENSE #	
TYPE OF LICENSE	
BUSINESS NAME	
DELIVERY ADDRESS	
CITY, STATE, ZIP CODE	
PHONE NUMBER	
CONTACT NAME	

DISTRIBUTOR INFORMATION			
STATE LICENSE #		DRIVER'S NAME	
BUSINESS NAME		CA DRIVER'S LICENSE#	
STREET ADDRESS		VEHICLE MAKE	
CITY, STATE, ZIP		VEHICLE MODEL	
PHONE NUMBER		VEHICLE LIC. PLATE #	
CONTACT NAME		ACTUAL DATE AND TIME OF ARRIVAL	/ / ☐ AM ☐ PM

PRODUCT SHIPPED DETAILS							
SHIPPER COMPLETES ALL THE UNSHADED COLUMNS BELOW. RECEIVER COMPLETES <u>ONLY</u> THE SHADED COLUMNS BELOW							
(Please attach additional pages, if needed)							
UID TAG NUMBER (IF APPLICABLE)	ITEM NAME AND PRODUCT DESCRIPTION (INCLUDE WEIGHT OR COUNT)	QTY ORDERED	QTY REC'D	UNIT COST	TOTAL COST	RETAIL ONLY	
						UNIT RETAIL VALUE	TOTAL RETAIL VALUE

PRODUCT REJECTION	
IF PRODUCTS ARE REJECTED, PLEASE CIRCLE THE ITEMS BEING REJECTED IN THE PRODUCT SHIPPED DETAILS SECTION ABOVE	
REASON FOR REJECTION:	

PRODUCT RECEIPT CONFIRMATION			
I CONFIRM THAT THE CONTENTS OF THIS SHIPMENT MATCH IN WEIGHT AND COUNT AS INDICATED ABOVE. I AGREE TO TAKE CUSTODY OF ALL ITEMS AS INDICATED RECEIVED ABOVE – AND WHICH ARE NOT CIRCLED. THE PRODUCTS CIRCLED ABOVE ARE REJECTED FOR DELIVERY AND REMAIN IN THE CUSTODY OF THE DISTRIBUTOR FOR RETURN TO THE SHIPPER AS INDICATED ON THIS FORM AND ALL ATTACHED PRODUCT DETAILS SHEET(S).			
NAME OF PERSON RECEIVING AND/OR REJECTING PRODUCT:		PHONE NUMBER:	
SIGNATURE OF PERSON RECEIVING AND/OR REJECTING PRODUCT:		DATE SIGNED:	

PRODUCT DETAILS ATTACHMENT PAGE

PLEASE USE PERMANENT INK FOR ALL ITEMS

INVOICE/MANIFEST NUMBER ATTACHED TO:		ATTACHED PAGE		OF		TOTAL PAGES
---	--	---------------	--	----	--	-------------

PRODUCT SHIPPED DETAILS

SHIPPER COMPLETES ALL THE UNSHADED COLUMNS BELOW. RECEIVER COMPLETES ONLY THE SHADED COLUMNS BELOW

(Please attach additional pages, if needed)

[illegible]

PRODUCT REJECTION

IF A PRODUCT(S) ARE REJECTED, PLEASE CIRCLE THE ITEMS BEING REJECTED IN THE PRODUCT SHIPPED DETAILS SECTION ABOVE

REASON FOR REJECTION:	
-----------------------	--

PRODUCT RECEIPT CONFIRMATION

I CONFIRM THAT THE CONTENTS OF THIS SHIPMENT MATCH IN WEIGHT AND COUNT AS INDICATED ABOVE.
I AGREE TO TAKE CUSTODY OF ALL ITEMS AS INDICATED RECEIVED ABOVE – AND WHICH ARE NOT CIRCLED.
THE PRODUCTS CIRCLED ABOVE ARE REJECTED FOR DELIVERY AND REMAIN IN THE CUSTODY OF THE DISTRIBUTOR FOR RETURN TO THE
SHIPPER AS INDICATED ON THIS FORM.

THIS PRODUCT DETAILS ATTACHMENT PAGE IS ATTACHED TO INVOICE #			
NAME OF PERSON RECEIVING AND/OR REJECTING PRODUCT:		PHONE NUMBER:	
SIGNATURE OF PERSON RECEIVING AND/OR REJECTING PRODUCT:		DATE SIGNED:	

Transport vehicle inspection cleaning log

[illegible]

Water source testing log

Pest Management log

Field Sanitation Unit Service Log

[illegible]

Fence Perimeter and Field Inspection Log

[illegible]

Employee Training Log

[illegible]

Illness and injury report form

[illegible]

First Aid Kit Log

[illegible]

Restroom cleaning log

APPENDIX G – SAFETY DATA SHEETS



Safety Data Sheet (SDS)

Issue date 11/15/17

Reviewed on 11/15/17

1 Identification

- **Product Identifier**
- **Trade name:** Lost Coast Plant Therapy
- **Relevant identified uses of the substance or mixture and uses advised against:**
No further relevant information
- **Product Description** Organic and natural plant spray concentrate
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
Plant Protector, LLC
2174 Table Bluff Rd.
Loleta, Ca. 95551
contact@lostcoastplanttherapy.com
lostcoastplanttherapy.com
(877) 558-0808
- **Emergency telephone number:** 1-800-467-4922

2 Hazard(s) Identification



Signal word: Danger

Hazard-determining components of labeling: Isopropanol 99%

Hazard statements:

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

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



Safety Data Sheet (SDS)

Issue date 11/15/17

Reviewed on 11/15/17

Trade name: Lost Coast Plant Therapy

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

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol resistant foam to extinguish

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

· Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.

58 % of the mixture consists of component(s) of unknown toxicity.

· **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Hazard(s) not otherwise classified (HNOC):** None known

3 Composition/Information on Ingredients

· Non-hazardous components:

58846-77-8	Decyl β -D-glucopyranoside	15-35%
7732-18-5	Water, distilled water, deionized water	5-10%

· Chemical characterization: Mixtures

· **Description:** Mixture of substances listed below with non-hazardous additions.

· Dangerous Components:

CAS: 8001-22-7	Soybean oil	25-50%
CAS: 67-63-0 RTECS: NT 8050000	Isopropyl alcohol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2A, H319; STOT SE 3, H336	25-50%
CAS: 77-92-9 RTECS: GE 7350000	Citric Acid ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319	≤ 2.5%
CAS: 84082-70-2	Peppermint oil ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; Flam. Liq. 4, H227	≤ 2.5%

· Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.



Safety Data Sheet (SDS)

Issue date 11/15/17

Reviewed on 11/15/17

Trade name: Lost Coast Plant Therapy

4 First-Aid Measures

Description of first aid measures:**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:**

Wash with soap and water.

If skin irritation occurs, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.**After swallowing:** If swallowed and symptoms occur, consult a doctor.**Information for doctor:****Most important symptoms and effects, both acute and delayed:** No further relevant information available.**Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

5 Fire-Fighting Measures

Extinguishing media:**Suitable extinguishing agents:** CO₂, sand, extinguishing powder.**For safety reasons unsuitable extinguishing agents:** Water with full jet.**Special hazards arising from the substance or mixture:** No further relevant information available.**Advice for firefighters:****Protective equipment:**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

Environmental precautions: Do not allow to enter sewers/surface or ground water.**Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals**PAC-1:**

67-63-0 Isopropyl alcohol

400 ppm

PAC-2:

67-63-0 Isopropyl alcohol

2000* ppm

PAC-3:

67-63-0 Isopropyl alcohol

12000** ppm

7 Handling and Storage



Safety Data Sheet (SDS)

Issue date 11/15/17

Reviewed on 11/15/17

Trade name: Lost Coast Plant Therapy

- **Handling**
- **Precautions for safe handling:** Keep away from ignition sources: sparks, flames, heat. No smoking.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities:**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s):** No further relevant information available.

8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**
- **Components with occupational exposure limits:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

8001-22-7 Soybean oil

TWA	Short-term value: 5 mg/m ³ Long-term value: 15 mg/m ³
-----	--

67-63-0 Isopropyl alcohol

PEL	Long-term value: 980 mg/m ³ , 400 ppm
REL	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV	Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm BEI

- **Ingredients with biological limit values:**

67-63-0 Isopropyl alcohol

BEI	40 mg/L Acetone (background, nonspecific)
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Safety Data Sheet (SDS)

Issue date 11/15/17

Reviewed on 11/15/17

Trade name: Lost Coast Plant Therapy

- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not required.
- **Protection of hands:**



Protective gloves

- **Eye protection:**



Safety glasses recommended.

9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
 - Form:** Liquid
 - Color:** Cream
- **Odor:** Not available
- **Odor threshold:** Not available
- **pH-value @ 20 °C (68 °F):** Not available
- **Change in condition**
 - Melting point/Melting range:** Not available
 - Boiling point/Boiling range:** Not available
- **Flash point:** Not available
- **Flammability (solid, gaseous):** Not available
- **Ignition temperature:** Not available
- **Decomposition temperature:** Not available
- **Auto igniting:** Not available
- **Danger of explosion:** Not available
- **Explosion limits:**
 - Lower:** 2.0 - 3.3% Vol % IPA (Isopropanol)
 - Upper:** 12.0 - 19% Vol % IPA (Isopropanol)
- **Vapor pressure:** Not available
- **Density:**
 - Relative density:** Not available
 - Vapor density:** Not available



Safety Data Sheet (SDS)

Issue date 11/15/17

Reviewed on 11/15/17

Trade name: Lost Coast Plant Therapy

- **Evaporation rate:** Not available
- **Solubility in / Miscibility with:**
 - **Water:** Not available
 - **Partition coefficient (n-octanol/water):** Not available
 - **Viscosity:**
 - **Dynamic:** Not available.
 - **Kinematic:** Not available.
 - **Solvent content:**
 - **VOC content:** 168.52 g/L
- **Other information:** No further relevant information available.

10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

67-63-0 Isopropyl alcohol

Oral	LD50	Not available
Dermal	LD50	Not available
Inhalative	LC50/4 h	Not available
	LC50/96 hours	Not available

Proprietary acid

Oral	LD50	Not available
		Not available
Dermal	LD50	>Not available
	LC50/48 hrs	>Not available

- **Primary irritant effect:**
- **On the skin:** Not available.
- **On the eye:** Not available
- **Additional toxicological information:**
- **Carcinogenic categories:**

- **IARC (International Agency for Research on Cancer):**

67-63-0 Isopropyl alcohol

3



Safety Data Sheet (SDS)

Issue date 11/15/17

Reviewed on 11/15/17

Trade name: Lost Coast Plant Therapy**· NTP (National Toxicology Program):**

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

12 Ecological Information

- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

13 Disposal Considerations

- **Waste treatment methods:**
- **Recommendation:**
Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to local regulations.

14 Transport Information

- **UN-Number:** UN1993
- **UN proper shipping name:** Flammable Liquids, n.o.s (Contains Isopropanol)
- **Class:** 3
- **Label:** 3
- **Packing Group:** II
- **US DOT, IMDG** UN1993, Flammable Liquids, n.o.s (contains Isopropanol), 3, II



Safety Data Sheet (SDS)

Issue date 11/15/17

Reviewed on 11/15/17

Trade name: Lost Coast Plant Therapy

- Transport hazard class(es):
- US DOT



- Proper Shipping Name: Flammable liquids, n.o.s (Contains Isopropanol)
- Class: 3
- Label: 3
- Packing Group: II
- UN: 1993

Quantity Limitations

- Passenger Aircraft: 5 L
- Cargo Aircraft: 60 L
- Limited Quantity (LQ): 1 L



Safety Data Sheet (SDS)

Issue date 11/15/17

Reviewed on 11/15/17

Trade name: Lost Coast Plant Therapy

15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

- **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

- **Section 313 (Specific toxic chemical listings):**

67-63-0 Isopropyl alcohol

- **TSCA (Toxic Substances Control Act):**

8001-22-7 Soybean oil

67-63-0 Isopropyl alcohol

Proprietary acid

7732-18-5 Water, distilled water, deionized water

- **California Proposition 65:**

- **Chemicals known to cause cancer:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

- **New Jersey Right-to-Know List:**

67-63-0 Isopropyl alcohol

- **New Jersey Special Hazardous Substance List:**

67-63-0 Isopropyl alcohol

F3

- **Pennsylvania Right-to-Know List:**

8001-22-7 Soybean oil

67-63-0 Isopropyl alcohol

- **Pennsylvania Special Hazardous Substance List:**

67-63-0 Isopropyl alcohol

E

- **Carcinogenic categories:**

- **EPA (Environmental Protection Agency):**

None of the ingredients are listed.

- **TLV (Threshold Limit Value established by ACGIH):**

67-63-0 Isopropyl alcohol

A4

- **NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).



Safety Data Sheet (SDS)

Issue date 11/15/17

Reviewed on 11/15/17

Trade name: Lost Coast Plant Therapy

16 Other Information

Revision Date: 11/15/17
Revised by: Kenneth Dunn

Disclaimer: The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety & Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEL: Biological Exposure Limit
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 4: Flammable liquids – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3